

TECHNICAL MEMO

To Mark Tatchell, CAO Alisa Vanderberg, Director of Operations Village of Tahsis Municipal Office	From Mark DeGagne, P.Eng. McElhanney Ltd.
Re 2025 Water Quality Monitoring	Date January 27, 2026

1. Introduction

The Village of Tahsis supplies potable water to its year-round residents and seasonal visitors by means of the Production Well, which was installed in 2016. A Wellhead Protection Plan (WPP) was developed in 2019, with the goal of preventing contaminants from entering the water source. Such source protection can be verified by undertaking water quality monitoring events on an ongoing basis. A dataset compiled using data from this and previous monitoring events will provide information about water quality over time.

McElhanney Ltd. ('McElhanney') is pleased to provide this technical memorandum to the Village of Tahsis (the 'Client'). With the objective of verifying source protection, the document contained herein summarizes and evaluates the field and laboratory data collected from the water source and its capture zone during the 2025 Water Quality Monitoring Event.

2. Background

The Production Well, owned by the Client and installed in 2016, services a year-round population of approximately 400, which fluctuates seasonally. The maximum recommended pumping rate is 4000m³/day. The wellhead and chlorination system are enclosed within a secured wellhouse in a secured yard. The Production Well capture zone overlaps a suspected historical landfill site, which is believed to primarily contain wood waste generated by sawmill operations. Monitoring wells have been installed as sentinels to detect potential water quality issues before they reach the Production Well.

The 2025 Water Quality Monitoring involved the field measurement of groundwater levels, field measurement of groundwater physical parameters, collection of groundwater samples for laboratory analysis and evaluation of data.

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The monitoring locations, shown below in *Figure 1*, were Monitoring Well 1 (Shallow and Deep), Monitoring Well 2 (Shallow and Deep) and the Production Well.

Figure 1: Monitoring Locations in Tahsis, BC



Each monitoring location has, at various times, been assigned provincial, field and laboratory identifiers; for consistency, *Table 1*, below, provides a summary.

Table 2: Monitoring Location ID Summary

Monitoring Location	Well ID	Field ID	Lab ID
Monitoring Well 1, Shallow Deep	43938	MW20-01S	DWJ439
	43937	MW20-01D	DWJ440
Monitoring Well 2, Shallow Deep	43936	MW20-02S	DWJ441
	43935	MW20-02D	DWJ442
Production Well	41469	PW	DWJ443



3. Scope of Work

The following outlines the scope of work completed by McElhanney for the 2025 Water Quality Monitoring Event:

- Field measurement of groundwater levels at Monitoring Well 1 (Shallow and Deep) and Monitoring Well 2 (Shallow and Deep)
- Field measurement of the following groundwater physical parameters at all monitoring locations
 - Water level
 - Temperature
 - pH
 - Conductivity
 - Dissolved oxygen
- Groundwater sample collection for analysis by Bureau Veritas (the 'Laboratory') at all monitoring locations
- Submission of the groundwater samples to the Laboratory, located in Burnaby, BC for analysis of the following physical parameters and potential contaminants of concern (PCOCs):
 - Turbidity
 - Conductivity
 - pH
 - Anions
 - Nutrients
 - Total and dissolved metals
 - Polycyclic aromatic hydrocarbons (PAHs)
 - Polychlorinated biphenyls (PCBs)
 - Resin and fatty acids (RAFA)
 - Microbiology
- Evaluation of results and preparation of this technical memorandum.

4. Methodology

McElhanney completed the 2025 Water Quality Monitoring in general accordance with the procedures outlined in applicable sections of the BC Ministry of the Environment and Parks (BC ENV) *British Columbia Field Sampling Manual*¹. A similar methodology to previous water quality monitoring events was utilized to maintain continuity and consistency in the data provided, although surface water quality was not investigated during this event.

All activities conducted as part of the groundwater monitoring program were completed by trained and qualified personnel, and the project was managed in accordance with McElhanney's certified ISO 9001 program. The Laboratory is certified with the Canadian Association for Laboratory Accreditation (CALA) and performs its analytical services under auditable quality assurance / quality control (QA/QC) standards. Summary analytical tables prepared for this report were verified to be true with original analytical records.

¹ BC ENV. (2013). The British Columbia Field Sampling Manual, Part A, Quality Control and Quality Assurance.



The monitoring wells were purged with tubing and a foot valve, then allowed to recharge overnight prior to field measurement of physical parameters and sample collection. Water levels were measured before and after sampling. Physical parameters were measured at each monitoring location using a calibrated YSI Professional Plus multi-parameter meter.

Groundwater samples were collected in sterilized, preserved, pre-labelled containers prepared and supplied by the Laboratory. The samples were then packed in an insulated cooler with ice packs and transported with a Chain of Custody to the Laboratory within the prescribed holding time. Disposable nitrile gloves were worn while collecting the water samples and changed between locations to prevent cross-contamination. New disposable tubing and foot valves were used to prepare the wells for sampling. New disposable tubing was installed where a low-flow peristaltic pump was used during sample collection. Any sampling / monitoring apparatus reused between monitoring locations was decontaminated between uses.

Health Canada's (HC) *Guidelines for Canadian Drinking Water Quality*² for Maximum Allowable Concentration (MAC) and Aesthetic Objective (AO) were applied to the laboratory results; the most stringent of these was applied to evaluate source protection for the Production Well. These guidelines are applied to drinking water supplies throughout Canada in which contaminants have been found or could be expected to be found in a concentration which could lead to adverse health effects in humans.

5. Field Observations

The 2025 Water Quality Monitoring was completed by McElhanney on November 4, 2025. The weather was overcast with an average ambient outdoor temperature of 6.0°C. The photographs below illustrate site conditions at Monitoring Well 1, Monitoring Well 2 and the Production Well. Water samples were collected from the monitoring locations for laboratory analysis, and the samples were observed to be clear with little to no suspended sediments.

*Photo 1: Monitoring Well 1
(MW20-01)*



*Photo 2: Monitoring Well 2
(MW20-02)*



*Photo 4: Production Well
(PW)*



² HC. (2025). Guidelines for Canadian Drinking Water Quality, Summary Tables.



Water levels were recorded as a depth below the apparent ground surface in metres before and after well sampling and are summarized below in *Table 2*. Physical parameters were measured at the time of sample collection and are summarized below in *Table 2*; the values of each parameter have been averaged from stabilized field measurements.

Table 2: Field Measured Water Levels and Physical Parameters

Parameter	MW20-01	MW20-01	MW20-02	MW20-02	PW
	Shallow	Deep	Shallow	Deep	
Water Level (m), Before / After	3.78 / 3.78	3.49 / 3.48	4.48 / 4.53	4.44 / 4.45	N/A
Temperature (°C)	3.8	3.7	7.0	6.9	4.1
pH	7.58	8.71	5.33	8.41	7.08
Conductivity (µS/cm)	100.6	87.9	71.3	96.9	103.0
Dissolved Oxygen (mg/L)	25.62	2.35	4.29	6.61	15.41

6. Laboratory Analysis

The samples were received by the Laboratory on November 5, 2025 at 08:43 for analysis of those parameters outlined in *Section 3* of this report. Laboratory results are summarized and compared to the *Guidelines for Canadian Drinking Water Quality* in *Table 4, Attachment A*. If identified, any exceedances of the guidelines are highlighted within the attached table. The Certificate of Analysis (COA), including test results, quality control results and Chain of Custody (COC) supplied by the Laboratory have been included in *Attachment B*.

7. Results and Discussion

With the exception of laboratory measured pH, which has a 15-minute recommended holding time, no qualifiers were placed on the results from the Laboratory, and the data can be considered reliable for the purposes of this water quality monitoring sample.

Laboratory data from the Production Well and its capture zone has been compared to the *Guidelines for Canadian Drinking Water Quality* for MAC and AO. **An exceedance was noted for lab measured turbidity in the Production Well, although the turbidity measured by the in-line turbidity meter at the water treatment plant at the time of sampling was below the allowable limit. For all other parameters, no exceedances were noted in the Production Well when data was compared to the most stringent of these guidelines, and it can reasonably be concluded that the measures implemented as part of the WPP have prevented contaminants from entering the water source.**



Comparison of the data for all parameters collected during 2025 Water Quality Monitoring Event to previous monitoring events is beyond the scope of this Technical Memo, but data points in exceedance of the *Guidelines for Canadian Drinking Water Quality* for MAC are compared to the 2024 and 2022 Water Quality Monitoring Events below in *Table 3*:

Table 3: Comparison of 2025, 2024 and 2022 Lab Measured Water Quality Results to the Most Stringent Guideline

Parameter	Lab ID	2025 Result	2024 Result	2022 Result	Guideline
Total Coliforms	DWJ441 (MW20-02S)	6 cfu/100mL	< 1 cfu/100mL	-	0 cfu / 100mL
	DWJ442 (MW20-02D)	210 cfu/100mL	< 1 cfu/100mL	-	
E. Coli	DWJ441 (MW20-02S)	< 2 cfu/100mL	< 1 cfu/100mL	-	0 cfu / 100mL
	DWJ442 (MW20-02D)	2 cfu/100mL	< 1 cfu/100mL	-	
Turbidity	DWJ439 (MW20-01S)	0.16 NTU	0.22 NTU	0.33 NTU	0.1 NTU
	DWJ440 (MW20-01D)	11 NTU	3.7NTU	0.30 NTU	
	DWJ441 (MW20-02S)	1.2 NTU	0.88 NTU	1.3 NTU	
	DWJ442 (MW20-02D)	3.7 NTU	0.49 NTU	< 0.10 NTU	
	DWJ443 (PW)	0.11 NTU	< 0.10 NTU	< 0.10 NTU	

The above table shows that water quality is changing over time, but this change is generally limited to the observation wells, not the production well. The production well maintains a high raw water quality with no observed exceedances, and only a minor increase in overall turbidity, which is likely caused by a minor increase in overall alkalinity which was measured at a healthy 45.2 mg/l. This number could even be considered low as healthy water systems usually maintain alkalinity between 50 and 150 mg/l to protect against system corrosion and provide healthier intake for human consumption.

To properly assess the influence of background conditions, seasonal variability and changes in groundwater chemistry on water quality over time, regular water quality monitoring will provide a comprehensive dataset. Ideally, this should be compiled for ease of reference. It is recommended that, with the objective of continued verification of source protection, water quality monitoring events continue to be conducted on an ongoing basis.

8. Limitations

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9. Closing

We trust that the contents of this report meet your needs at this time. If you have any questions or require further information, please contact the undersigned.

Respectfully,

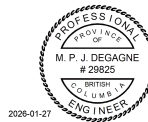
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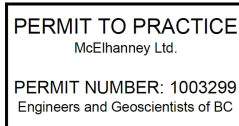


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Attachment A - Results Summary Table

Table 4: Comparison of Lab Measured Water Quality Results to Guidelines for Canadian Drinking Water Quality

Attachment B - Laboratory Certificate of Analysis

Certificate of Analysis
Quality Control Results
Chain of Custody



Attachment A

Results Summary Table



Location ID Sample ID Sample Collection Date Laboratory ID Matrix	Unit	Guidelines for Canadian Drinking Water ¹		MW 20-01		MW 20-02		Production Well
		Maximum Allowable Concentration (MAC) ²	Other Value (OV) ³	MW 20-01 Deep	MW 20-01 Shallow	MW 20-02 Deep	MW 20-02 Shallow	Production Well
				04 Nov 2025 C591874_DWJ440	04 Nov 2025 C591874_DWJ439	04 Nov 2025 C591874_DWJ442	04 Nov 2025 C591874_DWJ441	04 Nov 2025 C591874_DWJ443
				Water	Water	Water	Water	Water
Biological:								
Heterotrophic Plate Count	CFU/mL	-	-	-	-	-	-	<1
Total Coliforms	cfu/100 mL	None.	-	<1	<1	210	6 ^c	<1
E. Coli	cfu/100 ml	None.	-	<1	<1	2	<2 ^c	<1
Physical Parameters:								
Hardness as CaCO3	ug/L	-	-	33,300	44,200	34,100	26,700	45,200
Hardness as CaCO3 (filtered)	ug/L	-	-	29,600	45,200	32,100	26,600	45,200
pH (Lab)	-	-	7-10.5	8.47	7.26	7.12	5.99	7.08
Total Dissolved Solids (Lab)	ug/L	-	500,000 ¹	-	-	-	-	56,000
Turbidity (Lab)	NTU	0.1 ^a	-	11	0.16	3.7	1.2	0.11
Inorganics:								
Alkalinity (Total) as CaCO3	ug/L	-	-	39,000	48,000	39,000	29,000	49,000
Alkalinity (P) as CaCO3	ug/L	-	-	1,500	<1,000	<1,000	<1,000	<1,000
Alkalinity (Bicarbonate)	ug/L	-	-	43,000	58,000	48,000	36,000	60,000
Alkalinity (Carbonate)	ug/L	-	-	1,800	<1,000	<1,000	<1,000	<1,000
Alkalinity (Hydroxide)	ug/L	-	-	<1,000	<1,000	<1,000	<1,000	<1,000
Ammonia as N	ug/L	-	-	<15	<15	<15	<15	<15
Bromide	ug/L	-	-	<10	16	<10	13	<10
Colour	CU	-	15 ¹	-	-	-	-	<2.0
Fluoride (filtered)	ug/L	1,500	-	<50	<50	<50	<50	<50
Nitrate (as N)	ug/L	10,000	-	<20	74	<20	<2,000	59
Nitrite (as N)	ug/L	1,000	-	<5.0	<5.0	<5.0	<500	<5.0
Nitrite + Nitrate as N	ug/L	-	-	<20	74	<20	<2,000	59
Nitrogen (Organic)	ug/L	-	-	-	-	-	-	<20
Nitrogen (Total)	ug/L	-	-	-	-	-	-	65
Reactive Phosphorus as P (Orthophosphate as P)	ug/L	-	-	11	5.8	<3.0	9.3	4.6
Sulphate (filtered)	ug/L	-	500,000 ¹	<1,000	2,000	7,000	<5,000	2,800
Salinity & Routine:								
Chloride, Soluble Ion (filtered)	ug/L	-	250,000 ¹	2,500	<1,000	<1,000	2,700	<1,000
Electrical Conductivity (Lab)	uS/cm	-	-	88	100	100	67	110
Organic Carbon:								
Total Organic Carbon	ug/L	-	-	-	-	-	-	<500
Total Metals:								
Aluminum	ug/L	2,900	100 [#]	375	15.6	50.2	385	<3.0
Antimony	ug/L	6	-	<0.50	<0.50	<0.50	<0.50	<0.50
Arsenic	ug/L	10 ^b	-	0.36	0.27	0.53	0.20	<0.10
Barium	ug/L	2,000	-	2.6	<1.0	<1.0	1.6	<1.0
Beryllium	ug/L	-	-	<0.10	<0.10	<0.10	<0.10	<0.10
Bismuth	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	<1.0
Boron	ug/L	5,000	-	<50	<50	<50	<50	<50
Cadmium	ug/L	7	-	<0.010	<0.010	0.016	<0.010	<0.010
Calcium	ug/L	-	-	10,100	14,600	11,100	8,430	14,800
Chromium (III+VI)	ug/L	50	-	<1.0	<1.0	<1.0	<1.0	<1.0
Cobalt	ug/L	-	-	0.29	<0.20	<0.20	1.47	<0.20
Copper	ug/L	2,000	1,000 ¹	3.21	<0.50	2.14	4.59	11.6
Iron	ug/L	-	100 ¹	276	20	148	1,880	<10
Lead	ug/L	5 ^b	-	0.61	<0.20	0.25	0.24	0.25
Lithium	ug/L	-	-	<2.0	<2.0	<2.0	<2.0	<2.0
Magnesium	ug/L	-	-	1,990	1,880	1,520	1,360	2,040
Manganese	ug/L	120	20 ¹	8.8	<1.0	7.3	85.2	<1.0
Mercury	ug/L	1	-	<0.0019	<0.0019	<0.0019	<0.0095	<0.0019
Molybdenum	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel	ug/L	-	-	<1.0	<1.0	<1.0	1.8	<1.0
Phosphorus	ug/L	-	-	37	<10	28	18	<10
Potassium	ug/L	-	-	245	106	149	121	104
Selenium	ug/L	50	-	<0.10	<0.10	<0.10	<0.10	<0.10
Silicon	ug/L	-	-	3,740 ^{#4}	3,600	3,950	3,490	3,710
Silver	ug/L	-	-	<0.020	<0.020	<0.020	<0.020	<0.020
Sodium	ug/L	-	200,000 ¹	6,010	1,400	5,810	1,320	1,430
Strontium	ug/L	7,000	-	28.7	26.8	17.4	18.6	25.9
Sulfur (As S)	ug/L	-	-	<3,000	<3,000	<3,000	<3,000	<3,000
Thallium	ug/L	-	-	<0.010	<0.010	<0.010	<0.010	<0.010
Tin	ug/L	-	-	<5.0	<5.0	<5.0	<5.0	<5.0
Titanium	ug/L	-	-	10.9	<5.0	<5.0	9.6	<5.0
Uranium	ug/L	20	-	0.14	<0.10	<0.10	<0.10	<0.10
Vanadium	ug/L	-	-	<5.0	<5.0	<5.0	<5.0	<5.0
Zinc	ug/L	-	5,000 ¹	<5.0	<5.0	7.1	10.1	16.0
Zirconium	ug/L	-	-	0.13	<0.10	<0.10	0.19	<0.10
Dissolved Metals:								
Aluminum (filtered)	ug/L	2,900	100 [#]	11.5	3.6	11.1	358	<3.0
Antimony (filtered)	ug/L	6	-	<0.50	<0.50	<0.50	<0.50	<0.50
Arsenic (filtered)	ug/L	10 ^b	-	0.33	0.27	0.55	0.18	<0.10
Barium (filtered)	ug/L	2,000	-	<1.0	<1.0	<1.0	1.6	<1.0
Beryllium (filtered)	ug/L	-	-	<0.10	<0.10	<0.10	<0.10	<0.10
Bismuth (filtered)	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	<1.0
Boron (filtered)	ug/L	5,000	-	<50	<50	<50	<50	<50
Cadmium (filtered)	ug/L	7	-	<0.010	<0.010	<0.010	<0.010	<0.010
Calcium (filtered)	ug/L	-	-	8,940	15,100	10,500	8,470	14,800
Chromium (III+VI) (filtered)	ug/L	50	-	<1.0	<1.0	<1.0	<1.0	<1.0
Cobalt (filtered)	ug/L	-	-	<0.20	<0.20	<0.20	1.45	<0.20
Copper (filtered)	ug/L	2,000	1,000 ¹	0.55	<0.20	0.49	4.22	3.95
Iron (filtered)	ug/L	-	100 ¹	7.5	<5.0	18.0	1,830	<5.0
Lead (filtered)	ug/L	5	-	<0.20	<0.20	<0.20	0.21	0.23
Lithium (filtered)	ug/L	-	-	<2.0	<2.0	<2.0	<2.0	<2.0
Magnesium (filtered)	ug/L	-	-	1,760	1,820	1,420	1,330	2,030
Manganese (filtered)	ug/L	120	20 ¹	<1.0	<1.0	3.2	83.6	<1.0
Mercury (filtered)	ug/L	1	-	<0.0019	<0.0019	<0.0019	<0.0095	<0.0019
Molybdenum (filtered)	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel (filtered)	ug/L	-	-	<1.0	<1.0	<1.0	1.8	<1.0
Phosphorus (filtered)	ug/L	-	-	16	<10	12	13	<10
Potassium (filtered)	ug/L	-	-	213	116	167	125	119
Selenium (filtered)	ug/L	50	-	0.31	<0.10	0.26	<0.10	0.10
Silicon (filtered)	ug/L	-	-	2,800	3,540	3,450	3,150	3,510
Silver (filtered)	ug/L	-	-	<0.020	<0.020	<0.020	<0.020	<0.020
Sodium (filtered)	ug/L	-	200,000 ¹	5,570	1,310	5,780	1,250	1,490
Strontium (filtered)	ug/L	7,000	-	26.8	26.3	17.2	18.1	27.3
Sulfur (As S) (filtered)	ug/L	-	-	<3,000	<3,000	<3,000	<3,000	<3,000
Thallium (filtered)	ug/L	-	-	<0.010	<0.010	<0.010	<0.010	<0.010
Tin (filtered)	ug/L	-	-	<5.0	<5.0	<5.0	<5.0	<5.0
Titanium (filtered)	ug/L	-	-	<5.0	<5.0	<5.0	7.7	<5.0
Uranium (filtered)	ug/L	20	-	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium (filtered)	ug/L	-	-	<5.0	<5.0	<5.0	<5.0	<5.0

Location ID Sample ID Sample Collection Date Laboratory ID Matrix	Unit	Guidelines for Canadian Drinking Water ¹		MW 20-01		MW 20-02		Production Well
		Maximum Allowable Concentration (MAC) ²	Other Value (OV) ³	MW 20-01 Deep	MW 20-01 Shallow	MW 20-02 Deep	MW 20-02 Shallow	Production Well
				04 Nov 2025 C591874_DWJ440	04 Nov 2025 C591874_DWJ439	04 Nov 2025 C591874_DWJ442	04 Nov 2025 C591874_DWJ441	04 Nov 2025 C591874_DWJ443
Zinc (filtered)	ug/L	-	5,000 ¹	<5.0	<5.0	6.9	10.8	13.7
Zirconium (filtered)	ug/L	-	-	<0.10	<0.10	<0.10	0.16	<0.10
Polycyclic Aromatic Hydrocarbons:								
Acenaphthene	ug/L	-	-	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	ug/L	-	-	<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	ug/L	-	-	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	ug/L	-	-	<0.010	<0.010	<0.010	<0.010	<0.010
Benz(a)anthracene	ug/L	-	-	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(a)pyrene	ug/L	0.04	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(b+j)fluoranthene	ug/L	-	-	<0.030	<0.030	<0.030	<0.030	<0.030
Benzo(g,h,i)perylene	ug/L	-	-	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	ug/L	-	-	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	ug/L	-	-	<0.020	<0.020	<0.020	<0.020	<0.020
Dibenz(a,h)anthracene	ug/L	-	-	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Fluoranthene	ug/L	-	-	<0.020	<0.020	<0.020	<0.020	<0.020
Fluorene	ug/L	-	-	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	ug/L	-	-	<0.050	<0.050	<0.050	<0.050	<0.050
1-Methylnaphthalene	ug/L	-	-	<0.050	<0.050	<0.050	<0.050	<0.050
2-Methylnaphthalene	ug/L	-	-	<0.10	<0.10	<0.10	<0.10	<0.10
Naphthalene	ug/L	-	-	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	ug/L	-	-	<0.050	<0.050	<0.050	<0.050	<0.050
Pyrene	ug/L	-	-	<0.020	<0.020	<0.020	<0.020	<0.020
Quinoline	ug/L	-	-	<0.020	<0.020	<0.020	<0.020	<0.020
Light Molecular Weight PAHs (sum)	ug/L	-	-	<0.10	<0.10	<0.10	<0.10	<0.10
Heavy Molecular Weight PAHs (sum)	ug/L	-	-	<0.050	<0.050	<0.050	<0.050	<0.050
PAHs (Sum of total)	ug/L	-	-	<0.10	<0.10	<0.10	<0.10	<0.10
Langelier Saturation:								
Langelier Index @4.4C	-	-	-	-	-	-	-	<-1.62
Langelier Index @60C	-	-	-	-	-	-	-	<-0.843
Saturation pH @60C	-	-	-	-	-	-	-	7.92
Saturation pH@4.4C	-	-	-	-	-	-	-	8.70
UVT/UVA:								
UV Transmission @ 254nm	%1/cm	-	-	-	-	-	-	100
Polychlorinated Biphenyls:								
Arochlor 1016	ug/L	-	-	<0.010	<0.010	<0.010	<0.010	<0.010
Arochlor 1221	ug/L	-	-	<0.010	<0.010	<0.010	<0.010	<0.010
Arochlor 1232	ug/L	-	-	<0.010	<0.010	<0.010	<0.010	<0.010
Arochlor 1242	ug/L	-	-	<0.010	<0.010	<0.010	<0.010	<0.010
Arochlor 1248	ug/L	-	-	<0.010	<0.010	<0.010	<0.010	<0.010
Arochlor 1254	ug/L	-	-	<0.010	<0.010	<0.010	<0.010	<0.010
Arochlor 1260	ug/L	-	-	<0.010	<0.010	<0.010	<0.010	<0.010
Arochlor 1268	ug/L	-	-	<0.010	<0.010	<0.010	<0.010	<0.010
Arochlor 1262	ug/L	-	-	<0.010	<0.010	<0.010	<0.010	<0.010
PCBs (Sum of total)	ug/L	-	-	<0.010	<0.010	<0.010	<0.010	<0.010
Resin/Fatty Acids:								
Abietic Acid	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Arachidic Acid	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Behenic Acid	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Chlorodehydroabietic Acid, 12-	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Chlorodehydroabietic Acid, 14-	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Decanoic acid	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Dehydroabietic Acid	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Dichlorodehydroabietic Acid, 12,14-	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Dichlorostearic Acid, 9,10-	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Isopimaric Acid	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Lauric Acid	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Linoleic acid	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Linolenic acid	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Myristic acid	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Neobietic acid	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Oleic acid	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Palmitic Acid	ug/L	-	-	<6.0	<6.0	7.4	<6.0	<6.0
Palustric acid	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Pimaric acid	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Sandaracopimaric acid	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Stearic Acid	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Total of fatty acids detected	ug/L	-	-	<21	<21	<21	<21	<21
Total of resin acids detected	ug/L	-	-	<19	<19	<19	<19	<19
Undecanoic acid	ug/L	-	-	<6.0	<6.0	<6.0	<6.0	<6.0
Resin acids, total (BC WWQG)	ug/L	-	-	<13	<13	<13	<13	<13

Colour Key:

Exceeds MAC
Exceeds OV (AO or OG)
DL Exceeds Guideline

- Notes:**
- All concentrations expressed in ug/L unless otherwise indicated
- Health Canada Guidelines for Canadian Drinking Water Quality, last updated March 2025
 - Maximum Allowable Concentration (MAC), based on a comprehensive review of the known health effects associated with each contaminant, on exposure levels and on the availability of treatment and analytical technologies.
 - Other Value (OV)
 - Aesthetic Objectives (AO) - provided when they play a role in determining whether consumers will consider the water drinkable; or
 - Operational Guidance Values (OG) - provided when a substance may interfere with or impair a treatment process or technology or adversely affect drinking water infrastructure.
- a. Varies with treatment method. The most conservative value (membrane filtration) has been applied.
 b. MAC based on treatment achievability. Levels should be kept as low as reasonably achievable.
 c. Matrix spike exceeds acceptance limits due to matrix interference
 "<" less than the laboratory reportable Detection Limit (DL) indicated.
 "-" parameter not analyzed and/or a standards does not exist for the parameter

Attachment B

Laboratory Certificate of Analysis

Quality Control Results

Chain of Custody





Your Project #: Village of Tahsis
 Your C.O.C. #: 770926-01-01

Attention: Chris Wall

McElhanney Consulting Services Ltd.
 500 – 3960 Quadra Street
 Victoria, BC
 CANADA V8X 4A3

Report Date: 2025/11/13
 Report #: R3732433
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C591874

Received: 2025/11/05, 08:43

Sample Matrix: Water
 # Samples Received: 5

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity @25C (pp, total), CO3,HCO3,OH	1	N/A	2025/11/05	BBY6SOP-00026	SM 24 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH	4	N/A	2025/11/06	BBY6SOP-00026	SM 24 2320 B m
Chloride/Sulphate by Auto Colourimetry	5	N/A	2025/11/05	BBY6SOP-00011 / BBY6SOP-00017	SM24-4500-Cl/SO4-E m
Color (True) by Automated Analyzer	1	N/A	2025/11/05	BBY6SOP-00057	SM 24 2120 C m
Coliform by membrane filtration	5	N/A	2025/11/05	BBY4SOP-00001	SM 24 9222 m
Conductivity @25C	1	N/A	2025/11/05	BBY6SOP-00026	SM 24 2510 B m
Conductivity @25C	4	N/A	2025/11/06	BBY6SOP-00026	SM 24 2510 B m
E.coli by membrane filtration in Water	5	N/A	2025/11/05	BBY4SOP-00001	SM 24 9222 m
Fluoride	2	N/A	2025/11/06	BBY6SOP-00037	SM 24 4500-F C m
Fluoride	3	N/A	2025/11/07	BBY6SOP-00037	SM 24 4500-F C m
Hardness Total (calculated as CaCO3) (3)	5	N/A	2025/11/12	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	5	N/A	2025/11/12	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV (4)	5	2025/11/10	2025/11/10	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Mercury (Total) by CV	5	2025/11/10	2025/11/10	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Heterotropic Plate Count (MF) in Water	1	N/A	2025/11/05	BBY4SOP-00003	SM 24 9215D
Bromide as Bromine (Br) by ICPMS	5	N/A	2025/11/06	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	5	N/A	2025/11/12	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (dissolved) (4)	5	N/A	2025/11/10	BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	5	2025/11/05	2025/11/12	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total)	5	2025/11/09	2025/11/10	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Nitrogen (Total)	1	N/A	2025/11/07	BBY6SOP-00016	SM 24 4500-N C m
Ammonia-N (Total)	5	N/A	2025/11/06	AB SOP-00007	SM 24 4500 NH3 A G m
Nitrate + Nitrite (N)	5	N/A	2025/11/05	BBY6SOP-00010	SM 24 4500-NO3- H m
Nitrite (N) Regular Level Water	5	N/A	2025/11/05	BBY6SOP-00010	SM 24 4500-NO2- m
Nitrogen - Nitrate (as N)	5	N/A	2025/11/06	BBY WI-00033	Auto Calc
Nitrogen (Tot. Organic) Calculation	1	N/A	2025/11/07	BBY WI-00033	Auto Calc
PAH in Water by GC/MS (SIM)	5	2025/11/07	2025/11/08	BBY8SOP-00021	BCMOE BCLM Jul2017m
Total LMW, HMW, Total PAH Calc (5)	5	N/A	2025/11/10	BBY WI-00033	Auto Calc
pH @25°C (6)	1	N/A	2025/11/05	BBY6SOP-00026	SM 24 4500-H+ B m
pH @25°C (6)	4	N/A	2025/11/06	BBY6SOP-00026	SM 24 4500-H+ B m



Your Project #: Village of Tahsis
 Your C.O.C. #: 770926-01-01

Attention: Chris Wall

McElhanney Consulting Services Ltd.
 500 – 3960 Quadra Street
 Victoria, BC
 CANADA V8X 4A3

Report Date: 2025/11/13
 Report #: R3732433
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C591874

Received: 2025/11/05, 08:43

Sample Matrix: Water
 # Samples Received: 5

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Orthophosphate by Automated Analyzer (7)	5	N/A	2025/11/05	BBY6SOP-00013	SM 24 4500-P E m
Total Resin Acids BC (1, 8)	5	2025/11/05	2025/11/06	CAL SOP-00099	Auto Calc
Resin and Fatty Acids (1)	5	2025/11/10	2025/11/13	CAL SOP-00099	AE129.0 m
Sat. pH and Langelier Index (@ 4.4C)	1	N/A	2025/11/12	BBY WI-00033	Auto Calc
Sat. pH and Langelier Index (@ 60C)	1	N/A	2025/11/12	BBY WI-00033	Auto Calc
Total Dissolved Solids (Filt. Residue)	1	2025/11/05	2025/11/06	BBY6SOP-00033	SM 24 2540 C m
Carbon (Total Organic) (9)	1	N/A	2025/11/07	BBY6SOP-00053	SM 24 5310 B m
Turbidity	5	N/A	2025/11/05	BBY6SOP-00027	SM 24 2130 B m
Polychlorinated Biphenyl (PCB) (2)	5	2025/11/10	2025/11/10	CAM SOP-00309	EPA 8082A m
UV Transmittance (2)	1	2025/11/08	2025/11/08	CAM SOP-00459	SM 24 5910 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas 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 Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

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. When sampling is not conducted by Bureau Veritas, results relate to the supplied 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.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8

(2) This test was performed by Bureau Veritas Campobello, 6740 Campobello Road , Mississauga, ON, L5N 2L8



Your Project #: Village of Tahsis
Your C.O.C. #: 770926-01-01

Attention: Chris Wall

McElhanney Consulting Services Ltd.
500 – 3960 Quadra Street
Victoria, BC
CANADA V8X 4A3

Report Date: 2025/11/13
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CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C591874

Received: 2025/11/05, 08:43

- (3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (4) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
- (5) Total PAHs in Water include: Quinoline, Naphthalene, 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Acridine, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b&j)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, and Benzo(g,h,i)perylene.
- (6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.
- (7) Orthophosphate > Total Phosphorus Imbalance: When applicable, Orthophosphate, Total Phosphorus and dissolved Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.
- (8) Total Resin Acids (for purposes of the BC Working Water Quality Guidelines) is defined as the sum of abietic acid, neoabietic acid, pimaric acid, isopimaric acid, and sandaracopimaric acid.
- (9) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Shanaz Akbar, Customer Solutions Representative
Email: Shanaz.Akbar@bureauveritas.com
Phone# (604) 734 7276

=====

This report has been generated and distributed using a secure automated process.

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rob Gilbert, BBY General Manager responsible for British Columbia Environmental laboratory operations.



BUREAU
VERITAS

Bureau Veritas Job #: C591874
Report Date: 2025/11/13

McElhanney Consulting Services Ltd.
Client Project #: Village of Tahsis

RESIN AND FATTY ACIDS IN WATER - BC (WATER)

Bureau Veritas ID		DWJ439	DWJ440	DWJ441	DWJ442		
Sampling Date		2025/11/04 10:32	2025/11/04 09:45	2025/11/04 12:23	2025/11/04 11:48		
COC Number		770926-01-01	770926-01-01	770926-01-01	770926-01-01		
	UNITS	MW 20-01 Shallow	MW 20-01 Deep	MW 20-02 Shallow	MW 20-02 Deep	RDL	QC Batch
Misc. Organics							
Decanoic acid (C10)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
Undecanoic acid (C11)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
Dodecanoic acid (C12)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
Tetradecanoic acid (C14)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
Hexadecanoic acid (C16)	mg/L	<0.0060	<0.0060	<0.0060	0.0074	0.0060	C156137
Octadecanoic acid (C18)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
Oleic acid (C18:1)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
Linoleic acid (C18:2)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
Linolenic acid (C18:3)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
Eicosanoic acid (C20)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
Docosanoic acid (C22)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
9,10-dichlorostearic acid (C18)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
Pimaric acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
Sandaracopimaric acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
Isopimaric acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
Palustric acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
Dehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
Abietic acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
Neoabietic acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
14-chlorodehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
12-chlorodehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
12,14-dichlorodehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	C156137
* Total of Resin Acids Detected	mg/L	<0.019	<0.019	<0.019	<0.019	0.019	C151265
* Total of Fatty Acids Detected	mg/L	<0.021	<0.021	<0.021	<0.021	0.021	C151265
* Total Resin Acids (BCWQG)	mg/L	<0.013	<0.013	<0.013	<0.013	0.013	C151265
Surrogate Recovery (%)							
HEPTADECANOIC ACID (sur.)	%	117	111	118	112		C156137
O-METHYLPODOCARPIC ACID (sur.)	%	116	108	116	109		C156137
RDL = Reportable Detection Limit							



RESIN AND FATTY ACIDS IN WATER - BC (WATER)

Bureau Veritas ID		DWJ443		
Sampling Date		2025/11/04 12:58		
COC Number		770926-01-01		
	UNITS	Production Well	RDL	QC Batch
Misc. Organics				
Decanoic acid (C10)	mg/L	<0.0060	0.0060	C156137
Undecanoic acid (C11)	mg/L	<0.0060	0.0060	C156137
Dodecanoic acid (C12)	mg/L	<0.0060	0.0060	C156137
Tetradecanoic acid (C14)	mg/L	<0.0060	0.0060	C156137
Hexadecanoic acid (C16)	mg/L	<0.0060	0.0060	C156137
Octadecanoic acid (C18)	mg/L	<0.0060	0.0060	C156137
Oleic acid (C18:1)	mg/L	<0.0060	0.0060	C156137
Linoleic acid (C18:2)	mg/L	<0.0060	0.0060	C156137
Linolenic acid (C18:3)	mg/L	<0.0060	0.0060	C156137
Eicosanoic acid (C20)	mg/L	<0.0060	0.0060	C156137
Docosanoic acid (C22)	mg/L	<0.0060	0.0060	C156137
9,10-dichlorostearic acid (C18)	mg/L	<0.0060	0.0060	C156137
Pimaric acid	mg/L	<0.0060	0.0060	C156137
Sandaracopimaric acid	mg/L	<0.0060	0.0060	C156137
Isopimaric acid	mg/L	<0.0060	0.0060	C156137
Palustric acid	mg/L	<0.0060	0.0060	C156137
Dehydroabietic acid	mg/L	<0.0060	0.0060	C156137
Abietic acid	mg/L	<0.0060	0.0060	C156137
Neobietic acid	mg/L	<0.0060	0.0060	C156137
14-chlorodehydroabietic acid	mg/L	<0.0060	0.0060	C156137
12-chlorodehydroabietic acid	mg/L	<0.0060	0.0060	C156137
12,14-dichlorodehydroabietic acid	mg/L	<0.0060	0.0060	C156137
* Total of Resin Acids Detected	mg/L	<0.019	0.019	C151265
* Total of Fatty Acids Detected	mg/L	<0.021	0.021	C151265
* Total Resin Acids (BCWQG)	mg/L	<0.013	0.013	C151265
Surrogate Recovery (%)				
HEPTADECANOIC ACID (sur.)	%	110		C156137
O-METHYLPODOCARPIC ACID (sur.)	%	107		C156137
RDL = Reportable Detection Limit				



RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		DWJ439		DWJ440		DWJ441		
Sampling Date		2025/11/04 10:32		2025/11/04 09:45		2025/11/04 12:23		
COC Number		770926-01-01		770926-01-01		770926-01-01		
	UNITS	MW 20-01 Shallow	QC Batch	MW 20-01 Deep	RDL	MW 20-02 Shallow	RDL	QC Batch
Misc. Inorganics								
Conductivity	uS/cm	100	C151507	88	2.0	67	2.0	C151974
pH	pH	7.26	C151509	8.47	N/A	5.99	N/A	C151973
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	C151500	1.5	1.0	<1.0	1.0	C151969
Alkalinity (Total as CaCO3)	mg/L	48	C151500	39	1.0	29	1.0	C151969
Bicarbonate (HCO3)	mg/L	58	C151500	43	1.0	36	1.0	C151969
Carbonate (CO3)	mg/L	<1.0	C151500	1.8	1.0	<1.0	1.0	C151969
Fluoride (F)	mg/L	<0.050	C153456	<0.050	0.050	<0.050	0.050	C154435
Hydroxide (OH)	mg/L	<1.0	C151500	<1.0	1.0	<1.0	1.0	C151969
Chloride (Cl)	mg/L	<1.0	C151944	2.5	1.0	2.7	1.0	C151982
Sulphate (SO4)	mg/L	2.0	C151944	<1.0	1.0	<5.0 (1)	5.0	C151982
Nutrients								
Total Ammonia (N)	mg/L	<0.015	C151965	<0.015	0.015	<0.015	0.015	C151978
Orthophosphate (P)	mg/L	0.0058	C151659	0.011	0.0030	0.0093	0.0030	C151659
Physical Properties								
Turbidity	NTU	0.16	C151658	11	0.10	1.2	0.10	C151658
RDL = Reportable Detection Limit N/A = Not Applicable (1) Detection limits raised due to matrix interference.								



BUREAU
VERITAS

Bureau Veritas Job #: C591874
Report Date: 2025/11/13

McElhanney Consulting Services Ltd.
Client Project #: Village of Tahsis

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		DWJ442		DWJ443		
Sampling Date		2025/11/04 11:48		2025/11/04 12:58		
COC Number		770926-01-01		770926-01-01		
	UNITS	MW 20-02 Deep	QC Batch	Production Well	RDL	QC Batch
Misc. Inorganics						
Conductivity	uS/cm	100	C151974	110	2.0	C151974
pH	pH	7.12	C151973	7.08	N/A	C151973
Anions						
Alkalinity (PP as CaCO ₃)	mg/L	<1.0	C151969	<1.0	1.0	C151969
Alkalinity (Total as CaCO ₃)	mg/L	39	C151969	49	1.0	C151969
Bicarbonate (HCO ₃)	mg/L	48	C151969	60	1.0	C151969
Carbonate (CO ₃)	mg/L	<1.0	C151969	<1.0	1.0	C151969
Fluoride (F)	mg/L	<0.050	C153442	<0.050	0.050	C154435
Hydroxide (OH)	mg/L	<1.0	C151969	<1.0	1.0	C151969
Chloride (Cl)	mg/L	<1.0	C151982	<1.0	1.0	C151982
Sulphate (SO ₄)	mg/L	7.0	C151982	2.8	1.0	C151982
Nutrients						
Total Ammonia (N)	mg/L	<0.015	C151978	<0.015	0.015	C151978
Orthophosphate (P)	mg/L	<0.0030	C151659	0.0046	0.0030	C151659
Physical Properties						
Turbidity	NTU	3.7	C151946	0.11	0.10	C151946
RDL = Reportable Detection Limit N/A = Not Applicable						



BUREAU
VERITAS

Bureau Veritas Job #: C591874
Report Date: 2025/11/13

McElhanney Consulting Services Ltd.
Client Project #: Village of Tahsis

POLYCHLORINATED BIPHENYLS BY GC-ECD (WATER)

Bureau Veritas ID		DWJ439	DWJ440	DWJ441	DWJ442	DWJ443		
Sampling Date		2025/11/04 10:32	2025/11/04 09:45	2025/11/04 12:23	2025/11/04 11:48	2025/11/04 12:58		
COC Number		770926-01-01	770926-01-01	770926-01-01	770926-01-01	770926-01-01		
	UNITS	MW 20-01 Shallow	MW 20-01 Deep	MW 20-02 Shallow	MW 20-02 Deep	Production Well	RDL	QC Batch
Polychlorinated Biphenyls								
Aroclor 1016	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C157370
Aroclor 1221	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C157370
Aroclor 1232	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C157370
Aroclor 1262	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C157370
Aroclor 1268	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C157370
Aroclor 1242	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C157370
Aroclor 1248	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C157370
Aroclor 1254	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C157370
Aroclor 1260	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C157370
Total PCB	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C157370
Surrogate Recovery (%)								
Decachlorobiphenyl	%	82	81	78	84	73		C157370
RDL = Reportable Detection Limit								



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		DWJ439	DWJ440	DWJ441	DWJ442	DWJ443		
Sampling Date		2025/11/04 10:32	2025/11/04 09:45	2025/11/04 12:23	2025/11/04 11:48	2025/11/04 12:58		
COC Number		770926-01-01	770926-01-01	770926-01-01	770926-01-01	770926-01-01		
	UNITS	MW 20-01 Shallow	MW 20-01 Deep	MW 20-02 Shallow	MW 20-02 Deep	Production Well	RDL	QC Batch

ANIONS

Bromide (Br)	mg/L	0.016	<0.010	0.013	<0.010	<0.010	0.010	C152847
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RDL = Reportable Detection Limit



MICROBIOLOGY (WATER)

Bureau Veritas ID		DWJ439	DWJ440		DWJ441		DWJ442		
Sampling Date		2025/11/04 10:32	2025/11/04 09:45		2025/11/04 12:23		2025/11/04 11:48		
COC Number		770926-01-01	770926-01-01		770926-01-01		770926-01-01		
	UNITS	MW 20-01 Shallow	MW 20-01 Deep	RDL	MW 20-02 Shallow	RDL	MW 20-02 Deep	RDL	QC Batch

Microbiological Param.									
E. coli	CFU/100mL	<1	<1	1	<2 (1)	2	2	1	C151685
Total Coliforms	CFU/100mL	<1	<1	1	6 (1)	2	210	1	C151684

RDL = Reportable Detection Limit
 (1) -Due to sample matrix, the detection limit has been increased.

Bureau Veritas ID		DWJ443		
Sampling Date		2025/11/04 12:58		
COC Number		770926-01-01		
	UNITS	Production Well	RDL	QC Batch
Microbiological Param.				
E. coli	CFU/100mL	<1	1	C151685
Total Coliforms	CFU/100mL	<1	1	C151684
RDL = Reportable Detection Limit				



VIHA PKG, WELLS/SPRINGS - BURNABY (WATER)

Bureau Veritas ID		DWJ443		
Sampling Date		2025/11/04 12:58		
COC Number		770926-01-01		
	UNITS	Production Well	RDL	QC Batch
Calculated Parameters				
Total Organic Nitrogen (N)	mg/L	<0.020	0.020	C150875
Misc. Inorganics				
Total Organic Carbon (C)	mg/L	<0.50	0.50	C154156
Total Dissolved Solids	mg/L	56	10	C151947
MISCELLANEOUS				
True Colour	Col. Unit	<2.0	2.0	C151663
Transmittance at 254nm	%T/cm	100	N/A	C156472
Nutrients				
Total Nitrogen (N)	mg/L	0.065	0.020	C153236
Microbiological Param.				
Heterotrophic Plate Count	CFU/mL	<1	1	C151686
Calculated Parameters				
Langelier Index (@ 4.4C)	N/A	-1.62	N/A	C151145
Langelier Index (@ 60C)	N/A	-0.843	N/A	C151146
Saturation pH (@ 4.4C)	N/A	8.70	N/A	C151145
Saturation pH (@ 60C)	N/A	7.92	N/A	C151146
RDL = Reportable Detection Limit N/A = Not Applicable				



CSR TOTAL METALS IN WATER WITH CV HG (WATER)

Bureau Veritas ID		DWJ439	DWJ440		DWJ441		DWJ442		
Sampling Date		2025/11/04 10:32	2025/11/04 09:45		2025/11/04 12:23		2025/11/04 11:48		
COC Number		770926-01-01	770926-01-01		770926-01-01		770926-01-01		
	UNITS	MW 20-01 Shallow	MW 20-01 Deep	RDL	MW 20-02 Shallow	RDL	MW 20-02 Deep	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	44.2	33.3	0.50	26.7	0.50	34.1	0.50	C150693
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Elements

Total Mercury (Hg)	ug/L	<0.0019	<0.0019	0.0019	<0.0095 (1)	0.0095	<0.0019	0.0019	C155849
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	15.6	375 (2)	3.0	385	3.0	50.2	3.0	C155614
Total Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	C155614
Total Arsenic (As)	ug/L	0.27	0.36	0.10	0.20	0.10	0.53	0.10	C155614
Total Barium (Ba)	ug/L	<1.0	2.6	1.0	1.6	1.0	<1.0	1.0	C155614
Total Beryllium (Be)	ug/L	<0.10	<0.10	0.10	<0.10	0.10	<0.10	0.10	C155614
Total Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	C155614
Total Boron (B)	ug/L	<50	<50	50	<50	50	<50	50	C155614
Total Cadmium (Cd)	ug/L	<0.010	<0.010	0.010	<0.010	0.010	0.016	0.010	C155614
Total Chromium (Cr)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	C155614
Total Cobalt (Co)	ug/L	<0.20	0.29	0.20	1.47	0.20	<0.20	0.20	C155614
Total Copper (Cu)	ug/L	<0.50	3.21	0.50	4.59	0.50	2.14	0.50	C155614
Total Iron (Fe)	ug/L	20	276	10	1880	10	148	10	C155614
Total Lead (Pb)	ug/L	<0.20	0.61	0.20	0.24	0.20	0.25	0.20	C155614
Total Lithium (Li)	ug/L	<2.0	<2.0	2.0	<2.0	2.0	<2.0	2.0	C155614
Total Manganese (Mn)	ug/L	<1.0	8.8	1.0	85.2	1.0	7.3	1.0	C155614
Total Molybdenum (Mo)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	C155614
Total Nickel (Ni)	ug/L	<1.0	<1.0	1.0	1.8	1.0	<1.0	1.0	C155614
Total Phosphorus (P)	ug/L	<10	37	10	18	10	28	10	C155614
Total Selenium (Se)	ug/L	<0.10	<0.10	0.10	<0.10	0.10	<0.10	0.10	C155614
Total Silicon (Si)	ug/L	3600	3740 (2)	100	3490	100	3950	100	C155614
Total Silver (Ag)	ug/L	<0.020	<0.020	0.020	<0.020	0.020	<0.020	0.020	C155614
Total Strontium (Sr)	ug/L	26.8	28.7	1.0	18.6	1.0	17.4	1.0	C155614
Total Thallium (Tl)	ug/L	<0.010	<0.010	0.010	<0.010	0.010	<0.010	0.010	C155614
Total Tin (Sn)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	C155614
Total Titanium (Ti)	ug/L	<5.0	10.9	5.0	9.6	5.0	<5.0	5.0	C155614
Total Uranium (U)	ug/L	<0.10	0.14	0.10	<0.10	0.10	<0.10	0.10	C155614

RDL = Reportable Detection Limit
(1) Detection limits raised due to sample matrix.
(2) Matrix spike exceeds acceptance limits due to matrix interference.



BUREAU
VERITAS

Bureau Veritas Job #: C591874
Report Date: 2025/11/13

McElhanney Consulting Services Ltd.
Client Project #: Village of Tahsis

CSR TOTAL METALS IN WATER WITH CV HG (WATER)

Bureau Veritas ID		DWJ439	DWJ440		DWJ441		DWJ442		
Sampling Date		2025/11/04 10:32	2025/11/04 09:45		2025/11/04 12:23		2025/11/04 11:48		
COC Number		770926-01-01	770926-01-01		770926-01-01		770926-01-01		
	UNITS	MW 20-01 Shallow	MW 20-01 Deep	RDL	MW 20-02 Shallow	RDL	MW 20-02 Deep	RDL	QC Batch
Total Vanadium (V)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	C155614
Total Zinc (Zn)	ug/L	<5.0	<5.0	5.0	10.1	5.0	7.1	5.0	C155614
Total Zirconium (Zr)	ug/L	<0.10	0.13	0.10	0.19	0.10	<0.10	0.10	C155614
Total Calcium (Ca)	mg/L	14.6	10.1	0.050	8.43	0.050	11.1	0.050	C151121
Total Magnesium (Mg)	mg/L	1.88	1.99	0.050	1.36	0.050	1.52	0.050	C151121
Total Potassium (K)	mg/L	0.106	0.245	0.050	0.121	0.050	0.149	0.050	C151121
Total Sodium (Na)	mg/L	1.40	6.01	0.050	1.32	0.050	5.81	0.050	C151121
Total Sulphur (S)	mg/L	<3.0	<3.0	3.0	<3.0	3.0	<3.0	3.0	C151121
RDL = Reportable Detection Limit									



CSR TOTAL METALS IN WATER WITH CV HG (WATER)

Bureau Veritas ID		DWJ443		
Sampling Date		2025/11/04 12:58		
COC Number		770926-01-01		
	UNITS	Production Well	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	45.2	0.50	C150693
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Elements

Total Mercury (Hg)	ug/L	<0.0019	0.0019	C155849
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	<3.0	3.0	C155614
Total Antimony (Sb)	ug/L	<0.50	0.50	C155614
Total Arsenic (As)	ug/L	<0.10	0.10	C155614
Total Barium (Ba)	ug/L	<1.0	1.0	C155614
Total Beryllium (Be)	ug/L	<0.10	0.10	C155614
Total Bismuth (Bi)	ug/L	<1.0	1.0	C155614
Total Boron (B)	ug/L	<50	50	C155614
Total Cadmium (Cd)	ug/L	<0.010	0.010	C155614
Total Chromium (Cr)	ug/L	<1.0	1.0	C155614
Total Cobalt (Co)	ug/L	<0.20	0.20	C155614
Total Copper (Cu)	ug/L	11.6	0.50	C155614
Total Iron (Fe)	ug/L	<10	10	C155614
Total Lead (Pb)	ug/L	0.25	0.20	C155614
Total Lithium (Li)	ug/L	<2.0	2.0	C155614
Total Manganese (Mn)	ug/L	<1.0	1.0	C155614
Total Molybdenum (Mo)	ug/L	<1.0	1.0	C155614
Total Nickel (Ni)	ug/L	<1.0	1.0	C155614
Total Phosphorus (P)	ug/L	<10	10	C155614
Total Selenium (Se)	ug/L	<0.10	0.10	C155614
Total Silicon (Si)	ug/L	3710	100	C155614
Total Silver (Ag)	ug/L	<0.020	0.020	C155614
Total Strontium (Sr)	ug/L	25.9	1.0	C155614
Total Thallium (Tl)	ug/L	<0.010	0.010	C155614
Total Tin (Sn)	ug/L	<5.0	5.0	C155614
Total Titanium (Ti)	ug/L	<5.0	5.0	C155614
Total Uranium (U)	ug/L	<0.10	0.10	C155614
Total Vanadium (V)	ug/L	<5.0	5.0	C155614
Total Zinc (Zn)	ug/L	16.0	5.0	C155614

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C591874
Report Date: 2025/11/13

McElhanney Consulting Services Ltd.
Client Project #: Village of Tahsis

CSR TOTAL METALS IN WATER WITH CV HG (WATER)

Bureau Veritas ID		DWJ443		
Sampling Date		2025/11/04 12:58		
COC Number		770926-01-01		
	UNITS	Production Well	RDL	QC Batch
Total Zirconium (Zr)	ug/L	<0.10	0.10	C155614
Total Calcium (Ca)	mg/L	14.8	0.050	C151121
Total Magnesium (Mg)	mg/L	2.04	0.050	C151121
Total Potassium (K)	mg/L	0.104	0.050	C151121
Total Sodium (Na)	mg/L	1.43	0.050	C151121
Total Sulphur (S)	mg/L	<3.0	3.0	C151121
RDL = Reportable Detection Limit				



BUREAU
VERITAS

Bureau Veritas Job #: C591874
Report Date: 2025/11/13

McElhanney Consulting Services Ltd.
Client Project #: Village of Tahsis

CSR D. METALS W/CV HG-DISS (WATER)

Bureau Veritas ID		DWJ439		DWJ440			DWJ441		
Sampling Date		2025/11/04 10:32		2025/11/04 09:45			2025/11/04 12:23		
COC Number		770926-01-01		770926-01-01			770926-01-01		
	UNITS	MW 20-01 Shallow	QC Batch	MW 20-01 Deep	RDL	QC Batch	MW 20-02 Shallow	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	45.2	C150698	29.6	0.50	C150698	26.6	0.50	C150698
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Elements

Dissolved Mercury (Hg)	ug/L	<0.0019	C155956	<0.0019	0.0019	C155956	<0.0095	0.0095	C155956
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	3.6	C154480	11.5	3.0	C154480	358	3.0	C154480
Dissolved Antimony (Sb)	ug/L	<0.50	C154480	<0.50	0.50	C154480	<0.50	0.50	C154480
Dissolved Arsenic (As)	ug/L	0.27	C154480	0.33	0.10	C154480	0.18	0.10	C154480
Dissolved Barium (Ba)	ug/L	<1.0	C154480	<1.0	1.0	C154480	1.6	1.0	C154480
Dissolved Beryllium (Be)	ug/L	<0.10	C154480	<0.10	0.10	C154480	<0.10	0.10	C154480
Dissolved Bismuth (Bi)	ug/L	<1.0	C154480	<1.0	1.0	C154480	<1.0	1.0	C154480
Dissolved Boron (B)	ug/L	<50	C154480	<50	50	C154480	<50	50	C154480
Dissolved Cadmium (Cd)	ug/L	<0.010	C154480	<0.010	0.010	C154480	<0.010	0.010	C154480
Dissolved Chromium (Cr)	ug/L	<1.0	C154480	<1.0	1.0	C154480	<1.0	1.0	C154480
Dissolved Cobalt (Co)	ug/L	<0.20	C154480	<0.20	0.20	C154480	1.45	0.20	C154480
Dissolved Copper (Cu)	ug/L	<0.20	C154480	0.55	0.20	C154480	4.22	0.20	C154480
Dissolved Iron (Fe)	ug/L	<5.0	C154480	7.5	5.0	C154480	1830	5.0	C154480
Dissolved Lead (Pb)	ug/L	<0.20	C154480	<0.20	0.20	C154480	0.21	0.20	C154480
Dissolved Lithium (Li)	ug/L	<2.0	C154480	<2.0	2.0	C154480	<2.0	2.0	C154480
Dissolved Manganese (Mn)	ug/L	<1.0	C154480	<1.0	1.0	C154480	83.6	1.0	C154480
Dissolved Molybdenum (Mo)	ug/L	<1.0	C154480	<1.0	1.0	C154480	<1.0	1.0	C154480
Dissolved Nickel (Ni)	ug/L	<1.0	C154480	<1.0	1.0	C154480	1.8	1.0	C154480
Dissolved Phosphorus (P)	ug/L	<10	C154480	16	10	C154480	13	10	C154480
Dissolved Selenium (Se)	ug/L	<0.10	C154480	0.31	0.10	C158314	<0.10	0.10	C154480
Dissolved Silicon (Si)	ug/L	3540	C154480	2800	100	C154480	3150	100	C154480
Dissolved Silver (Ag)	ug/L	<0.020	C154480	<0.020	0.020	C154480	<0.020	0.020	C154480
Dissolved Strontium (Sr)	ug/L	26.3	C154480	26.8	1.0	C154480	18.1	1.0	C154480
Dissolved Thallium (Tl)	ug/L	<0.010	C154480	<0.010	0.010	C154480	<0.010	0.010	C154480
Dissolved Tin (Sn)	ug/L	<5.0	C154480	<5.0	5.0	C154480	<5.0	5.0	C154480
Dissolved Titanium (Ti)	ug/L	<5.0	C154480	<5.0	5.0	C154480	7.7	5.0	C154480
Dissolved Uranium (U)	ug/L	<0.10	C154480	<0.10	0.10	C154480	<0.10	0.10	C154480
Dissolved Vanadium (V)	ug/L	<5.0	C154480	<5.0	5.0	C154480	<5.0	5.0	C154480
Dissolved Zinc (Zn)	ug/L	<5.0	C154480	<5.0	5.0	C154480	10.8	5.0	C154480

RDL = Reportable Detection Limit



CSR D. METALS W/CV HG-DISS (WATER)

Bureau Veritas ID		DWJ439		DWJ440			DWJ441		
Sampling Date		2025/11/04 10:32		2025/11/04 09:45			2025/11/04 12:23		
COC Number		770926-01-01		770926-01-01			770926-01-01		
	UNITS	MW 20-01 Shallow	QC Batch	MW 20-01 Deep	RDL	QC Batch	MW 20-02 Shallow	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	<0.10	C154480	<0.10	0.10	C154480	0.16	0.10	C154480
Dissolved Calcium (Ca)	mg/L	15.1	C150871	8.94	0.050	C150871	8.47	0.050	C150871
Dissolved Magnesium (Mg)	mg/L	1.82	C150871	1.76	0.050	C150871	1.33	0.050	C150871
Dissolved Potassium (K)	mg/L	0.116	C150871	0.213	0.050	C150871	0.125	0.050	C150871
Dissolved Sodium (Na)	mg/L	1.31	C150871	5.57	0.050	C150871	1.25	0.050	C150871
Dissolved Sulphur (S)	mg/L	<3.0	C150871	<3.0	3.0	C150871	<3.0	3.0	C150871
RDL = Reportable Detection Limit									



CSR D. METALS W/CV HG-DISS (WATER)

Bureau Veritas ID		DWJ442		DWJ443		
Sampling Date		2025/11/04 11:48		2025/11/04 12:58		
COC Number		770926-01-01		770926-01-01		
	UNITS	MW 20-02 Deep	QC Batch	Production Well	RDL	QC Batch
Calculated Parameters						
Dissolved Hardness (CaCO3)	mg/L	32.1	C150698	45.2	0.50	C150698
Elements						
Dissolved Mercury (Hg)	ug/L	<0.0019	C155956	<0.0019	0.0019	C156013
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	ug/L	11.1	C154480	<3.0	3.0	C154480
Dissolved Antimony (Sb)	ug/L	<0.50	C154480	<0.50	0.50	C154480
Dissolved Arsenic (As)	ug/L	0.55	C154480	<0.10	0.10	C154480
Dissolved Barium (Ba)	ug/L	<1.0	C154480	<1.0	1.0	C154480
Dissolved Beryllium (Be)	ug/L	<0.10	C154480	<0.10	0.10	C154480
Dissolved Bismuth (Bi)	ug/L	<1.0	C154480	<1.0	1.0	C154480
Dissolved Boron (B)	ug/L	<50	C154480	<50	50	C154480
Dissolved Cadmium (Cd)	ug/L	<0.010	C154480	<0.010	0.010	C154480
Dissolved Chromium (Cr)	ug/L	<1.0	C154480	<1.0	1.0	C154480
Dissolved Cobalt (Co)	ug/L	<0.20	C154480	<0.20	0.20	C154480
Dissolved Copper (Cu)	ug/L	0.49	C154480	3.95	0.20	C154480
Dissolved Iron (Fe)	ug/L	18.0	C154480	<5.0	5.0	C154480
Dissolved Lead (Pb)	ug/L	<0.20	C154480	0.23	0.20	C154480
Dissolved Lithium (Li)	ug/L	<2.0	C154480	<2.0	2.0	C154480
Dissolved Manganese (Mn)	ug/L	3.2	C154480	<1.0	1.0	C154480
Dissolved Molybdenum (Mo)	ug/L	<1.0	C154480	<1.0	1.0	C154480
Dissolved Nickel (Ni)	ug/L	<1.0	C154480	<1.0	1.0	C154480
Dissolved Phosphorus (P)	ug/L	12	C154480	<10	10	C154480
Dissolved Selenium (Se)	ug/L	0.26	C158314	0.10	0.10	C154480
Dissolved Silicon (Si)	ug/L	3450	C154480	3510	100	C154480
Dissolved Silver (Ag)	ug/L	<0.020	C154480	<0.020	0.020	C154480
Dissolved Strontium (Sr)	ug/L	17.2	C154480	27.3	1.0	C154480
Dissolved Thallium (Tl)	ug/L	<0.010	C154480	<0.010	0.010	C154480
Dissolved Tin (Sn)	ug/L	<5.0	C154480	<5.0	5.0	C154480
Dissolved Titanium (Ti)	ug/L	<5.0	C154480	<5.0	5.0	C154480
Dissolved Uranium (U)	ug/L	<0.10	C154480	<0.10	0.10	C154480
Dissolved Vanadium (V)	ug/L	<5.0	C154480	<5.0	5.0	C154480
Dissolved Zinc (Zn)	ug/L	6.9	C154480	13.7	5.0	C154480
RDL = Reportable Detection Limit						



CSR D. METALS W/CV HG-DISS (WATER)

Bureau Veritas ID		DWJ442		DWJ443		
Sampling Date		2025/11/04 11:48		2025/11/04 12:58		
COC Number		770926-01-01		770926-01-01		
	UNITS	MW 20-02 Deep	QC Batch	Production Well	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	<0.10	C154480	<0.10	0.10	C154480
Dissolved Calcium (Ca)	mg/L	10.5	C150871	14.8	0.050	C150871
Dissolved Magnesium (Mg)	mg/L	1.42	C150871	2.03	0.050	C150871
Dissolved Potassium (K)	mg/L	0.167	C150871	0.119	0.050	C150871
Dissolved Sodium (Na)	mg/L	5.78	C150871	1.49	0.050	C150871
Dissolved Sulphur (S)	mg/L	<3.0	C150871	<3.0	3.0	C150871
RDL = Reportable Detection Limit						



NITRITE & NITRATE IN WATER (WATER)

Bureau Veritas ID		DWJ439		DWJ440		DWJ441		
Sampling Date		2025/11/04 10:32		2025/11/04 09:45		2025/11/04 12:23		
COC Number		770926-01-01		770926-01-01		770926-01-01		
	UNITS	MW 20-01 Shallow	QC Batch	MW 20-01 Deep	RDL	MW 20-02 Shallow	RDL	QC Batch
ANIONS								
Nitrite (N)	mg/L	<0.0050	C151653	<0.0050	0.0050	<0.50 (1)	0.50	C151964
Calculated Parameters								
Nitrate (N)	mg/L	0.074	C150874	<0.020	0.020	<2.0	2.0	C150874
Nutrients								
Nitrate plus Nitrite (N)	mg/L	0.074	C151641	<0.020	0.020	<2.0 (1)	2.0	C151966
RDL = Reportable Detection Limit								
(1) Detection limit raised due to interferent.								

Bureau Veritas ID		DWJ442	DWJ443		
Sampling Date		2025/11/04 11:48	2025/11/04 12:58		
COC Number		770926-01-01	770926-01-01		
	UNITS	MW 20-02 Deep	Production Well	RDL	QC Batch
ANIONS					
Nitrite (N)	mg/L	<0.0050	<0.0050	0.0050	C151964
Calculated Parameters					
Nitrate (N)	mg/L	<0.020	0.059	0.020	C150874
Nutrients					
Nitrate plus Nitrite (N)	mg/L	<0.020	0.059	0.020	C151966
RDL = Reportable Detection Limit					



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Bureau Veritas Job #: C591874
Report Date: 2025/11/13

McElhanney Consulting Services Ltd.
Client Project #: Village of Tahsis

CSR PAH IN WATER BY GC-MS (WATER)

Bureau Veritas ID		DWJ439	DWJ440	DWJ441	DWJ442	DWJ443		
Sampling Date		2025/11/04 10:32	2025/11/04 09:45	2025/11/04 12:23	2025/11/04 11:48	2025/11/04 12:58		
COC Number		770926-01-01	770926-01-01	770926-01-01	770926-01-01	770926-01-01		
	UNITS	MW 20-01 Shallow	MW 20-01 Deep	MW 20-02 Shallow	MW 20-02 Deep	Production Well	RDL	QC Batch
Calculated Parameters								
Low Molecular Weight PAH's	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C150740
High Molecular Weight PAH's	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C150740
Total PAH	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C150740
Polycyclic Aromatics								
Quinoline	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	C154078
Naphthalene	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C154078
1-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C154078
2-Methylnaphthalene	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C154078
Acenaphthylene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C154078
Acenaphthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C154078
Fluorene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C154078
Phenanthrene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C154078
Anthracene	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C154078
Acridine	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C154078
Fluoranthene	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	C154078
Pyrene	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	C154078
Benzo(a)anthracene	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C154078
Chrysene	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	C154078
Benzo(b&j)fluoranthene	ug/L	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	C154078
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C154078
Benzo(a)pyrene	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C154078
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C154078
Dibenz(a,h)anthracene	ug/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	0.0030	C154078
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C154078
Surrogate Recovery (%)								
D10-ANTHRACENE (sur.)	%	97	98	103	101	99		C154078
D8-ACENAPHTHYLENE (sur.)	%	90	93	99	97	93		C154078
D8-NAPHTHALENE (sur.)	%	75	81	84	91	88		C154078
TERPHENYL-D14 (sur.)	%	74	77	76	83	78		C154078
RDL = Reportable Detection Limit								



BUREAU
VERITAS

Bureau Veritas Job #: C591874
Report Date: 2025/11/13

McElhanney Consulting Services Ltd.
Client Project #: Village of Tahsis

GENERAL COMMENTS

Sample DWJ443 [Production Well] : Sample was analyzed past recommended hold time for Heterotrophic Plate Count (MF) in Water.

CSR D. METALS W/CV HG-DISS (WATER) Comments

Sample DWJ441 [MW 20-02 Shallow] Mercury (Dissolved) by CV: Detection limits raised due to sample matrix.

Sample DWJ440, Elements by CRC ICPMS (dissolved): Test repeated.

Sample DWJ442, Elements by CRC ICPMS (dissolved): Test repeated.

Results relate only to the items tested.



BUREAU
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Bureau Veritas Job #: C591874
Report Date: 2025/11/13

McElhanney Consulting Services Ltd.
Client Project #: Village of Tahsis

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
C151500	JLP	Spiked Blank	Alkalinity (Total as CaCO3)	2025/11/05		97	%	80 - 120
C151500	JLP	Method Blank	Alkalinity (PP as CaCO3)	2025/11/05	<1.0		mg/L	
			Alkalinity (Total as CaCO3)	2025/11/05	<1.0		mg/L	
			Bicarbonate (HCO3)	2025/11/05	<1.0		mg/L	
			Carbonate (CO3)	2025/11/05	<1.0		mg/L	
			Hydroxide (OH)	2025/11/05	<1.0		mg/L	
C151500	JLP	RPD	Alkalinity (PP as CaCO3)	2025/11/05	NC		%	20
			Alkalinity (Total as CaCO3)	2025/11/05	10		%	20
			Bicarbonate (HCO3)	2025/11/05	10		%	20
			Carbonate (CO3)	2025/11/05	NC		%	20
			Hydroxide (OH)	2025/11/05	NC		%	20
C151507	JLP	Spiked Blank	Conductivity	2025/11/05		100	%	90 - 110
C151507	JLP	Method Blank	Conductivity	2025/11/05	<2.0		uS/cm	
C151507	JLP	RPD	Conductivity	2025/11/05	0.26		%	10
C151509	JLP	Spiked Blank	pH	2025/11/05		100	%	97 - 103
C151509	JLP	RPD	pH	2025/11/05	0.59		%	N/A
C151641	JGL	Matrix Spike	Nitrate plus Nitrite (N)	2025/11/05		106	%	80 - 120
C151641	JGL	Spiked Blank	Nitrate plus Nitrite (N)	2025/11/05		105	%	80 - 120
C151641	JGL	Method Blank	Nitrate plus Nitrite (N)	2025/11/05	<0.020		mg/L	
C151641	JGL	RPD	Nitrate plus Nitrite (N)	2025/11/05	NC		%	25
C151653	JGL	Matrix Spike	Nitrite (N)	2025/11/05		121 (1)	%	80 - 120
C151653	JGL	Spiked Blank	Nitrite (N)	2025/11/05		107	%	80 - 120
C151653	JGL	Method Blank	Nitrite (N)	2025/11/05	<0.0050		mg/L	
C151653	JGL	RPD	Nitrite (N)	2025/11/05	NC		%	20
C151658	LSO	Spiked Blank	Turbidity	2025/11/05		103	%	80 - 120
C151658	LSO	Method Blank	Turbidity	2025/11/05	<0.10		NTU	
C151658	LSO	RPD	Turbidity	2025/11/05	7.0		%	20
C151659	JAV	Matrix Spike	Orthophosphate (P)	2025/11/05		NC	%	80 - 120
C151659	JAV	Spiked Blank	Orthophosphate (P)	2025/11/05		112	%	80 - 120
C151659	JAV	Method Blank	Orthophosphate (P)	2025/11/05	<0.0030		mg/L	
C151659	JAV	RPD	Orthophosphate (P)	2025/11/05	3.1		%	20
C151663	JAV	Spiked Blank	True Colour	2025/11/05		100	%	80 - 120
C151663	JAV	Method Blank	True Colour	2025/11/05	<2.0		Col. Unit	
C151663	JAV	RPD	True Colour	2025/11/05	6.7		%	20
C151944	CBK	Matrix Spike	Chloride (Cl)	2025/11/05		99	%	80 - 120
			Sulphate (SO4)	2025/11/05		NC	%	80 - 120
C151944	CBK	Spiked Blank	Chloride (Cl)	2025/11/05		100	%	80 - 120
			Sulphate (SO4)	2025/11/05		93	%	80 - 120
C151944	CBK	Method Blank	Chloride (Cl)	2025/11/05	<1.0		mg/L	
			Sulphate (SO4)	2025/11/05	<1.0		mg/L	
C151944	CBK	RPD	Chloride (Cl)	2025/11/05	1.7		%	20
			Sulphate (SO4)	2025/11/05	1.7		%	20
C151946	LSO	Spiked Blank	Turbidity	2025/11/05		103	%	80 - 120
C151946	LSO	Method Blank	Turbidity	2025/11/05	<0.10		NTU	
C151946	LSO	RPD [DWJ442-08]	Turbidity	2025/11/05	2.5		%	20
C151947	AG8	Matrix Spike	Total Dissolved Solids	2025/11/06		102	%	80 - 120
C151947	AG8	Spiked Blank	Total Dissolved Solids	2025/11/06		98	%	80 - 120
C151947	AG8	Method Blank	Total Dissolved Solids	2025/11/06	<10		mg/L	
C151947	AG8	RPD	Total Dissolved Solids	2025/11/06	0.52		%	20
C151964	JGL	Matrix Spike [DWJ440-05]	Nitrite (N)	2025/11/05		86	%	80 - 120
C151964	JGL	Spiked Blank	Nitrite (N)	2025/11/05		105	%	80 - 120
C151964	JGL	Method Blank	Nitrite (N)	2025/11/05	<0.0050		mg/L	
C151964	JGL	RPD [DWJ440-05]	Nitrite (N)	2025/11/05	NC		%	20



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Bureau Veritas Job #: C591874
Report Date: 2025/11/13

McElhanney Consulting Services Ltd.
Client Project #: Village of Tahsis

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
C151965	BB3	Matrix Spike [DWJ439-09]	Total Ammonia (N)	2025/11/06		99	%	80 - 120
C151965	BB3	Spiked Blank	Total Ammonia (N)	2025/11/06		100	%	80 - 120
C151965	BB3	Method Blank	Total Ammonia (N)	2025/11/06	<0.015		mg/L	
C151965	BB3	RPD [DWJ439-09]	Total Ammonia (N)	2025/11/06	NC		%	20
C151966	JGL	Matrix Spike [DWJ440-05]	Nitrate plus Nitrite (N)	2025/11/05		104	%	80 - 120
C151966	JGL	Spiked Blank	Nitrate plus Nitrite (N)	2025/11/05		107	%	80 - 120
C151966	JGL	Method Blank	Nitrate plus Nitrite (N)	2025/11/05	<0.020		mg/L	
C151966	JGL	RPD [DWJ440-05]	Nitrate plus Nitrite (N)	2025/11/05	NC		%	25
C151969	JLP	Spiked Blank	Alkalinity (Total as CaCO3)	2025/11/06		98	%	80 - 120
C151969	JLP	Method Blank	Alkalinity (PP as CaCO3)	2025/11/06	<1.0		mg/L	
			Alkalinity (Total as CaCO3)	2025/11/06	<1.0		mg/L	
			Bicarbonate (HCO3)	2025/11/06	<1.0		mg/L	
			Carbonate (CO3)	2025/11/06	<1.0		mg/L	
			Hydroxide (OH)	2025/11/06	<1.0		mg/L	
C151969	JLP	RPD	Alkalinity (PP as CaCO3)	2025/11/06	NC		%	20
			Alkalinity (Total as CaCO3)	2025/11/06	4.8		%	20
			Bicarbonate (HCO3)	2025/11/06	4.8		%	20
			Carbonate (CO3)	2025/11/06	NC		%	20
			Hydroxide (OH)	2025/11/06	NC		%	20
C151973	JLP	Spiked Blank	pH	2025/11/06		100	%	97 - 103
C151973	JLP	RPD	pH	2025/11/06	0.64		%	N/A
C151974	JLP	Spiked Blank	Conductivity	2025/11/06		100	%	90 - 110
C151974	JLP	Method Blank	Conductivity	2025/11/06	<2.0		uS/cm	
C151978	BB3	Matrix Spike	Total Ammonia (N)	2025/11/06		98	%	80 - 120
C151978	BB3	Spiked Blank	Total Ammonia (N)	2025/11/06		99	%	80 - 120
C151978	BB3	Method Blank	Total Ammonia (N)	2025/11/06	<0.015		mg/L	
C151978	BB3	RPD	Total Ammonia (N)	2025/11/06	1.4		%	20
C151982	CBK	Matrix Spike	Chloride (Cl)	2025/11/05		108	%	80 - 120
			Sulphate (SO4)	2025/11/05		112	%	80 - 120
C151982	CBK	Spiked Blank	Chloride (Cl)	2025/11/05		98	%	80 - 120
			Sulphate (SO4)	2025/11/05		94	%	80 - 120
C151982	CBK	Method Blank	Chloride (Cl)	2025/11/05	<1.0		mg/L	
			Sulphate (SO4)	2025/11/05	<1.0		mg/L	
C151982	CBK	RPD	Chloride (Cl)	2025/11/05	NC		%	20
			Sulphate (SO4)	2025/11/05	0.062		%	20
C152847	AD5	Matrix Spike	Bromide (Br)	2025/11/06		104	%	78 - 120
C152847	AD5	Spiked Blank	Bromide (Br)	2025/11/06		111	%	80 - 120
C152847	AD5	Method Blank	Bromide (Br)	2025/11/06	<0.010		mg/L	
C152847	AD5	RPD	Bromide (Br)	2025/11/06	4.1		%	20
C153236	BB3	Matrix Spike	Total Nitrogen (N)	2025/11/07		92	%	80 - 120
C153236	BB3	Spiked Blank	Total Nitrogen (N)	2025/11/07		101	%	80 - 120
C153236	BB3	Method Blank	Total Nitrogen (N)	2025/11/07	<0.020		mg/L	
C153236	BB3	RPD	Total Nitrogen (N)	2025/11/07	NC		%	20
C153442	CJY	Matrix Spike	Dissolved Fluoride (F)	2025/11/06		NC	%	80 - 120
C153442	CJY	Spiked Blank	Dissolved Fluoride (F)	2025/11/06		107	%	80 - 120
C153442	CJY	Method Blank	Dissolved Fluoride (F)	2025/11/06	<0.050		mg/L	
C153442	CJY	RPD	Fluoride (F)	2025/11/06	NC		%	20
C153456	CJY	Matrix Spike	Dissolved Fluoride (F)	2025/11/07		109	%	80 - 120
C153456	CJY	Spiked Blank	Dissolved Fluoride (F)	2025/11/06		107	%	80 - 120
C153456	CJY	Method Blank	Dissolved Fluoride (F)	2025/11/06	<0.050		mg/L	
C153456	CJY	RPD	Fluoride (F)	2025/11/07	0.87		%	20
C154078	JP1	Spiked Blank	D10-ANTHRACENE (sur.)	2025/11/08		102	%	50 - 140
			D8-ACENAPHTHYLENE (sur.)	2025/11/08		97	%	50 - 140



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			D8-NAPHTHALENE (sur.)	2025/11/08		77	%	50 - 140
			TERPHENYL-D14 (sur.)	2025/11/08		89	%	50 - 140
			Quinoline	2025/11/08		104	%	50 - 140
			Naphthalene	2025/11/08		86	%	50 - 140
			1-Methylnaphthalene	2025/11/08		94	%	50 - 140
			2-Methylnaphthalene	2025/11/08		88	%	50 - 140
			Acenaphthylene	2025/11/08		98	%	50 - 140
			Acenaphthene	2025/11/08		96	%	50 - 140
			Fluorene	2025/11/08		98	%	50 - 140
			Phenanthrene	2025/11/08		96	%	50 - 140
			Anthracene	2025/11/08		102	%	50 - 140
			Acridine	2025/11/08		99	%	50 - 140
			Fluoranthene	2025/11/08		77	%	50 - 140
			Pyrene	2025/11/08		80	%	50 - 140
			Benzo(a)anthracene	2025/11/08		100	%	50 - 140
			Chrysene	2025/11/08		107	%	50 - 140
			Benzo(b&j)fluoranthene	2025/11/08		107	%	50 - 140
			Benzo(k)fluoranthene	2025/11/08		123	%	50 - 140
			Benzo(a)pyrene	2025/11/08		98	%	50 - 140
			Indeno(1,2,3-cd)pyrene	2025/11/08		119	%	50 - 140
			Dibenz(a,h)anthracene	2025/11/08		118	%	50 - 140
			Benzo(g,h,i)perylene	2025/11/08		121	%	50 - 140
C154078	JP1	Method Blank	D10-ANTHRACENE (sur.)	2025/11/08		107	%	50 - 140
			D8-ACENAPHTHYLENE (sur.)	2025/11/08		101	%	50 - 140
			D8-NAPHTHALENE (sur.)	2025/11/08		87	%	50 - 140
			TERPHENYL-D14 (sur.)	2025/11/08		84	%	50 - 140
			Quinoline	2025/11/08	<0.020		ug/L	
			Naphthalene	2025/11/08	<0.10		ug/L	
			1-Methylnaphthalene	2025/11/08	<0.050		ug/L	
			2-Methylnaphthalene	2025/11/08	<0.10		ug/L	
			Acenaphthylene	2025/11/08	<0.050		ug/L	
			Acenaphthene	2025/11/08	<0.050		ug/L	
			Fluorene	2025/11/08	<0.050		ug/L	
			Phenanthrene	2025/11/08	<0.050		ug/L	
			Anthracene	2025/11/08	<0.010		ug/L	
			Acridine	2025/11/08	<0.050		ug/L	
			Fluoranthene	2025/11/08	<0.020		ug/L	
			Pyrene	2025/11/08	<0.020		ug/L	
			Benzo(a)anthracene	2025/11/08	<0.010		ug/L	
			Chrysene	2025/11/08	<0.020		ug/L	
			Benzo(b&j)fluoranthene	2025/11/08	<0.030		ug/L	
			Benzo(k)fluoranthene	2025/11/08	<0.050		ug/L	
			Benzo(a)pyrene	2025/11/08	<0.0050		ug/L	
			Indeno(1,2,3-cd)pyrene	2025/11/08	<0.050		ug/L	
			Dibenz(a,h)anthracene	2025/11/08	<0.0030		ug/L	
			Benzo(g,h,i)perylene	2025/11/08	<0.050		ug/L	
C154156	BTM	Matrix Spike	Total Organic Carbon (C)	2025/11/07		102	%	80 - 120
C154156	BTM	Spiked Blank	Total Organic Carbon (C)	2025/11/07		94	%	80 - 120
C154156	BTM	Method Blank	Total Organic Carbon (C)	2025/11/07	<0.50		mg/L	
C154156	BTM	RPD	Total Organic Carbon (C)	2025/11/07	NC		%	20
C154435	CJY	Matrix Spike	Dissolved Fluoride (F)	2025/11/07		103	%	80 - 120
C154435	CJY	Spiked Blank	Dissolved Fluoride (F)	2025/11/07		106	%	80 - 120
C154435	CJY	Method Blank	Dissolved Fluoride (F)	2025/11/07	<0.050		mg/L	
C154435	CJY	RPD	Fluoride (F)	2025/11/07	NC		%	20



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C154480	AA1	Matrix Spike [DWJ439-04]	Dissolved Aluminum (Al)	2025/11/10		99	%	80 - 120
			Dissolved Antimony (Sb)	2025/11/10		100	%	80 - 120
			Dissolved Arsenic (As)	2025/11/10		103	%	80 - 120
			Dissolved Barium (Ba)	2025/11/10		100	%	80 - 120
			Dissolved Beryllium (Be)	2025/11/10		107	%	80 - 120
			Dissolved Bismuth (Bi)	2025/11/10		96	%	80 - 120
			Dissolved Boron (B)	2025/11/10		109	%	80 - 120
			Dissolved Cadmium (Cd)	2025/11/10		101	%	80 - 120
			Dissolved Chromium (Cr)	2025/11/10		96	%	80 - 120
			Dissolved Cobalt (Co)	2025/11/10		93	%	80 - 120
			Dissolved Copper (Cu)	2025/11/10		91	%	80 - 120
			Dissolved Iron (Fe)	2025/11/10		100	%	80 - 120
			Dissolved Lead (Pb)	2025/11/10		96	%	80 - 120
			Dissolved Lithium (Li)	2025/11/10		103	%	80 - 120
			Dissolved Manganese (Mn)	2025/11/10		97	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/11/10		103	%	80 - 120
			Dissolved Nickel (Ni)	2025/11/10		95	%	80 - 120
			Dissolved Phosphorus (P)	2025/11/10		103	%	80 - 120
			Dissolved Selenium (Se)	2025/11/10		96	%	80 - 120
			Dissolved Silicon (Si)	2025/11/10		98	%	80 - 120
			Dissolved Silver (Ag)	2025/11/10		100	%	80 - 120
			Dissolved Strontium (Sr)	2025/11/10		98	%	80 - 120
			Dissolved Thallium (Tl)	2025/11/10		96	%	80 - 120
			Dissolved Tin (Sn)	2025/11/10		101	%	80 - 120
			Dissolved Titanium (Ti)	2025/11/10		99	%	80 - 120
			Dissolved Uranium (U)	2025/11/10		97	%	80 - 120
Dissolved Vanadium (V)	2025/11/10		99	%	80 - 120			
Dissolved Zinc (Zn)	2025/11/10		96	%	80 - 120			
Dissolved Zirconium (Zr)	2025/11/10		103	%	80 - 120			
C154480	AA1	Spiked Blank	Dissolved Aluminum (Al)	2025/11/10		98	%	80 - 120
			Dissolved Antimony (Sb)	2025/11/10		99	%	80 - 120
			Dissolved Arsenic (As)	2025/11/10		101	%	80 - 120
			Dissolved Barium (Ba)	2025/11/10		100	%	80 - 120
			Dissolved Beryllium (Be)	2025/11/10		108	%	80 - 120
			Dissolved Bismuth (Bi)	2025/11/10		95	%	80 - 120
			Dissolved Boron (B)	2025/11/10		111	%	80 - 120
			Dissolved Cadmium (Cd)	2025/11/10		99	%	80 - 120
			Dissolved Chromium (Cr)	2025/11/10		94	%	80 - 120
			Dissolved Cobalt (Co)	2025/11/10		93	%	80 - 120
			Dissolved Copper (Cu)	2025/11/10		92	%	80 - 120
			Dissolved Iron (Fe)	2025/11/10		100	%	80 - 120
			Dissolved Lead (Pb)	2025/11/10		96	%	80 - 120
			Dissolved Lithium (Li)	2025/11/10		105	%	80 - 120
			Dissolved Manganese (Mn)	2025/11/10		96	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/11/10		99	%	80 - 120
			Dissolved Nickel (Ni)	2025/11/10		95	%	80 - 120
			Dissolved Phosphorus (P)	2025/11/10		100	%	80 - 120
			Dissolved Selenium (Se)	2025/11/10		98	%	80 - 120
			Dissolved Silicon (Si)	2025/11/10		104	%	80 - 120
			Dissolved Silver (Ag)	2025/11/10		97	%	80 - 120
			Dissolved Strontium (Sr)	2025/11/10		94	%	80 - 120
			Dissolved Thallium (Tl)	2025/11/10		95	%	80 - 120
			Dissolved Tin (Sn)	2025/11/10		98	%	80 - 120
			Dissolved Titanium (Ti)	2025/11/10		98	%	80 - 120



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C154480	AA1	Method Blank	Dissolved Uranium (U)	2025/11/10		96	%	80 - 120
			Dissolved Vanadium (V)	2025/11/10		97	%	80 - 120
			Dissolved Zinc (Zn)	2025/11/10		96	%	80 - 120
			Dissolved Zirconium (Zr)	2025/11/10		100	%	80 - 120
			Dissolved Aluminum (Al)	2025/11/10	<3.0		ug/L	
			Dissolved Antimony (Sb)	2025/11/10	<0.50		ug/L	
			Dissolved Arsenic (As)	2025/11/10	<0.10		ug/L	
			Dissolved Barium (Ba)	2025/11/10	<1.0		ug/L	
			Dissolved Beryllium (Be)	2025/11/10	<0.10		ug/L	
			Dissolved Bismuth (Bi)	2025/11/10	<1.0		ug/L	
			Dissolved Boron (B)	2025/11/10	<50		ug/L	
			Dissolved Cadmium (Cd)	2025/11/10	<0.010		ug/L	
			Dissolved Chromium (Cr)	2025/11/10	<1.0		ug/L	
			Dissolved Cobalt (Co)	2025/11/10	<0.20		ug/L	
			Dissolved Copper (Cu)	2025/11/10	<0.20		ug/L	
			Dissolved Iron (Fe)	2025/11/10	<5.0		ug/L	
			Dissolved Lead (Pb)	2025/11/10	<0.20		ug/L	
			Dissolved Lithium (Li)	2025/11/10	<2.0		ug/L	
			Dissolved Manganese (Mn)	2025/11/10	<1.0		ug/L	
			Dissolved Molybdenum (Mo)	2025/11/10	<1.0		ug/L	
			Dissolved Nickel (Ni)	2025/11/10	<1.0		ug/L	
			Dissolved Phosphorus (P)	2025/11/10	<10		ug/L	
			Dissolved Selenium (Se)	2025/11/10	<0.10		ug/L	
			Dissolved Silicon (Si)	2025/11/10	<100		ug/L	
			Dissolved Silver (Ag)	2025/11/10	<0.020		ug/L	
			Dissolved Strontium (Sr)	2025/11/10	<1.0		ug/L	
			Dissolved Thallium (Tl)	2025/11/10	<0.010		ug/L	
Dissolved Tin (Sn)	2025/11/10	<5.0		ug/L				
Dissolved Titanium (Ti)	2025/11/10	<5.0		ug/L				
Dissolved Uranium (U)	2025/11/10	<0.10		ug/L				
Dissolved Vanadium (V)	2025/11/10	<5.0		ug/L				
Dissolved Zinc (Zn)	2025/11/10	<5.0		ug/L				
Dissolved Zirconium (Zr)	2025/11/10	<0.10		ug/L				
C154480	AA1	RPD [DWJ439-04]	Dissolved Aluminum (Al)	2025/11/10	4.4		%	20
			Dissolved Antimony (Sb)	2025/11/10	NC		%	20
			Dissolved Arsenic (As)	2025/11/10	1.1		%	20
			Dissolved Barium (Ba)	2025/11/10	NC		%	20
			Dissolved Beryllium (Be)	2025/11/10	NC		%	20
			Dissolved Bismuth (Bi)	2025/11/10	NC		%	20
			Dissolved Boron (B)	2025/11/10	NC		%	20
			Dissolved Cadmium (Cd)	2025/11/10	NC		%	20
			Dissolved Chromium (Cr)	2025/11/10	NC		%	20
			Dissolved Cobalt (Co)	2025/11/10	NC		%	20
			Dissolved Copper (Cu)	2025/11/10	NC		%	20
			Dissolved Iron (Fe)	2025/11/10	NC		%	20
			Dissolved Lead (Pb)	2025/11/10	NC		%	20
			Dissolved Lithium (Li)	2025/11/10	NC		%	20
			Dissolved Manganese (Mn)	2025/11/10	NC		%	20
			Dissolved Molybdenum (Mo)	2025/11/10	NC		%	20
			Dissolved Nickel (Ni)	2025/11/10	NC		%	20
Dissolved Phosphorus (P)	2025/11/10	NC		%	20			
Dissolved Selenium (Se)	2025/11/10	NC		%	20			
Dissolved Silicon (Si)	2025/11/10	1.7		%	20			
Dissolved Silver (Ag)	2025/11/10	NC		%	20			
Dissolved Strontium (Sr)	2025/11/10	0.39		%	20			



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C155614	MEM	Matrix Spike [DWJ440-02]	Dissolved Thallium (Tl)	2025/11/10	NC		%	20
			Dissolved Tin (Sn)	2025/11/10	NC		%	20
			Dissolved Titanium (Ti)	2025/11/10	NC		%	20
			Dissolved Uranium (U)	2025/11/10	NC		%	20
			Dissolved Vanadium (V)	2025/11/10	NC		%	20
			Dissolved Zinc (Zn)	2025/11/10	NC		%	20
			Dissolved Zirconium (Zr)	2025/11/10	NC		%	20
			Total Aluminum (Al)	2025/11/10		127 (1)	%	80 - 120
			Total Antimony (Sb)	2025/11/10		99	%	80 - 120
			Total Arsenic (As)	2025/11/10		105	%	80 - 120
			Total Barium (Ba)	2025/11/10		101	%	80 - 120
			Total Beryllium (Be)	2025/11/10		107	%	80 - 120
			Total Bismuth (Bi)	2025/11/10		98	%	80 - 120
			Total Boron (B)	2025/11/10		106	%	80 - 120
			Total Cadmium (Cd)	2025/11/10		104	%	80 - 120
			Total Chromium (Cr)	2025/11/10		102	%	80 - 120
			Total Cobalt (Co)	2025/11/10		99	%	80 - 120
			Total Copper (Cu)	2025/11/10		96	%	80 - 120
			Total Iron (Fe)	2025/11/10		116	%	80 - 120
			Total Lead (Pb)	2025/11/10		100	%	80 - 120
			Total Lithium (Li)	2025/11/10		101	%	80 - 120
			Total Manganese (Mn)	2025/11/10		101	%	80 - 120
			Total Molybdenum (Mo)	2025/11/10		105	%	80 - 120
			Total Nickel (Ni)	2025/11/10		100	%	80 - 120
			Total Phosphorus (P)	2025/11/10		102	%	80 - 120
			Total Selenium (Se)	2025/11/10		96	%	80 - 120
			Total Silicon (Si)	2025/11/10		121 (1)	%	80 - 120
Total Silver (Ag)	2025/11/10		102	%	80 - 120			
Total Strontium (Sr)	2025/11/10		105	%	80 - 120			
Total Thallium (Tl)	2025/11/10		102	%	80 - 120			
Total Tin (Sn)	2025/11/10		99	%	80 - 120			
Total Titanium (Ti)	2025/11/10		108	%	80 - 120			
Total Uranium (U)	2025/11/10		106	%	80 - 120			
Total Vanadium (V)	2025/11/10		104	%	80 - 120			
Total Zinc (Zn)	2025/11/10		102	%	80 - 120			
Total Zirconium (Zr)	2025/11/10		102	%	80 - 120			
C155614	MEM	Spiked Blank	Total Aluminum (Al)	2025/11/10		105	%	80 - 120
			Total Antimony (Sb)	2025/11/10		104	%	80 - 120
			Total Arsenic (As)	2025/11/10		106	%	80 - 120
			Total Barium (Ba)	2025/11/10		102	%	80 - 120
			Total Beryllium (Be)	2025/11/10		101	%	80 - 120
			Total Bismuth (Bi)	2025/11/10		98	%	80 - 120
			Total Boron (B)	2025/11/10		97	%	80 - 120
			Total Cadmium (Cd)	2025/11/10		105	%	80 - 120
			Total Chromium (Cr)	2025/11/10		101	%	80 - 120
			Total Cobalt (Co)	2025/11/10		97	%	80 - 120
			Total Copper (Cu)	2025/11/10		96	%	80 - 120
			Total Iron (Fe)	2025/11/10		101	%	80 - 120
			Total Lead (Pb)	2025/11/10		100	%	80 - 120
			Total Lithium (Li)	2025/11/10		96	%	80 - 120
			Total Manganese (Mn)	2025/11/10		100	%	80 - 120
Total Molybdenum (Mo)	2025/11/10		107	%	80 - 120			
Total Nickel (Ni)	2025/11/10		99	%	80 - 120			
Total Phosphorus (P)	2025/11/10		99	%	80 - 120			



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			Total Selenium (Se)	2025/11/10		102	%	80 - 120
			Total Silicon (Si)	2025/11/10		111	%	80 - 120
			Total Silver (Ag)	2025/11/10		101	%	80 - 120
			Total Strontium (Sr)	2025/11/10		106	%	80 - 120
			Total Thallium (Tl)	2025/11/10		99	%	80 - 120
			Total Tin (Sn)	2025/11/10		107	%	80 - 120
			Total Titanium (Ti)	2025/11/10		104	%	80 - 120
			Total Uranium (U)	2025/11/10		101	%	80 - 120
			Total Vanadium (V)	2025/11/10		101	%	80 - 120
			Total Zinc (Zn)	2025/11/10		102	%	80 - 120
			Total Zirconium (Zr)	2025/11/10		100	%	80 - 120
C155614	MEM	Method Blank	Total Aluminum (Al)	2025/11/10	<3.0		ug/L	
			Total Antimony (Sb)	2025/11/10	<0.50		ug/L	
			Total Arsenic (As)	2025/11/10	<0.10		ug/L	
			Total Barium (Ba)	2025/11/10	<1.0		ug/L	
			Total Beryllium (Be)	2025/11/10	<0.10		ug/L	
			Total Bismuth (Bi)	2025/11/10	<1.0		ug/L	
			Total Boron (B)	2025/11/10	<50		ug/L	
			Total Cadmium (Cd)	2025/11/10	<0.010		ug/L	
			Total Chromium (Cr)	2025/11/10	<1.0		ug/L	
			Total Cobalt (Co)	2025/11/10	<0.20		ug/L	
			Total Copper (Cu)	2025/11/10	<0.50		ug/L	
			Total Iron (Fe)	2025/11/10	<10		ug/L	
			Total Lead (Pb)	2025/11/10	<0.20		ug/L	
			Total Lithium (Li)	2025/11/10	<2.0		ug/L	
			Total Manganese (Mn)	2025/11/10	<1.0		ug/L	
			Total Molybdenum (Mo)	2025/11/10	<1.0		ug/L	
			Total Nickel (Ni)	2025/11/10	<1.0		ug/L	
			Total Phosphorus (P)	2025/11/10	<10		ug/L	
			Total Selenium (Se)	2025/11/10	<0.10		ug/L	
			Total Silicon (Si)	2025/11/10	<100		ug/L	
			Total Silver (Ag)	2025/11/10	<0.020		ug/L	
			Total Strontium (Sr)	2025/11/10	<1.0		ug/L	
			Total Thallium (Tl)	2025/11/10	<0.010		ug/L	
			Total Tin (Sn)	2025/11/10	<5.0		ug/L	
			Total Titanium (Ti)	2025/11/10	<5.0		ug/L	
			Total Uranium (U)	2025/11/10	<0.10		ug/L	
			Total Vanadium (V)	2025/11/10	<5.0		ug/L	
			Total Zinc (Zn)	2025/11/10	<5.0		ug/L	
			Total Zirconium (Zr)	2025/11/10	<0.10		ug/L	
C155614	MEM	RPD [DWJ440-02]	Total Aluminum (Al)	2025/11/10	13		%	20
			Total Antimony (Sb)	2025/11/10	NC		%	20
			Total Arsenic (As)	2025/11/10	1.0		%	20
			Total Barium (Ba)	2025/11/10	12		%	20
			Total Beryllium (Be)	2025/11/10	NC		%	20
			Total Bismuth (Bi)	2025/11/10	NC		%	20
			Total Boron (B)	2025/11/10	NC		%	20
			Total Cadmium (Cd)	2025/11/10	NC		%	20
			Total Chromium (Cr)	2025/11/10	NC		%	20
			Total Cobalt (Co)	2025/11/10	3.2		%	20
			Total Copper (Cu)	2025/11/10	2.3		%	20
			Total Iron (Fe)	2025/11/10	5.7		%	20
			Total Lead (Pb)	2025/11/10	1.3		%	20
			Total Lithium (Li)	2025/11/10	NC		%	20
			Total Manganese (Mn)	2025/11/10	5.1		%	20



BUREAU
VERITAS

Bureau Veritas Job #: C591874
Report Date: 2025/11/13

McElhanney Consulting Services Ltd.
Client Project #: Village of Tahsis

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Molybdenum (Mo)	2025/11/10	NC		%	20
			Total Nickel (Ni)	2025/11/10	NC		%	20
			Total Phosphorus (P)	2025/11/10	5.9		%	20
			Total Selenium (Se)	2025/11/10	NC		%	20
			Total Silicon (Si)	2025/11/10	4.4		%	20
			Total Silver (Ag)	2025/11/10	NC		%	20
			Total Strontium (Sr)	2025/11/10	1.4		%	20
			Total Thallium (Tl)	2025/11/10	NC		%	20
			Total Tin (Sn)	2025/11/10	NC		%	20
			Total Titanium (Ti)	2025/11/10	8.2		%	20
			Total Uranium (U)	2025/11/10	0.66		%	20
			Total Vanadium (V)	2025/11/10	NC		%	20
			Total Zinc (Zn)	2025/11/10	NC		%	20
			Total Zirconium (Zr)	2025/11/10	NC		%	20
C155849	RLC	Matrix Spike	Total Mercury (Hg)	2025/11/10		106	%	80 - 120
C155849	RLC	Spiked Blank	Total Mercury (Hg)	2025/11/10		109	%	80 - 120
C155849	RLC	Method Blank	Total Mercury (Hg)	2025/11/10	<0.0019		ug/L	
C155849	RLC	RPD	Total Mercury (Hg)	2025/11/10	NC		%	20
C155956	RLC	Matrix Spike	Dissolved Mercury (Hg)	2025/11/10		110	%	80 - 120
C155956	RLC	Spiked Blank	Dissolved Mercury (Hg)	2025/11/10		102	%	80 - 120
C155956	RLC	Method Blank	Dissolved Mercury (Hg)	2025/11/10	<0.0019		ug/L	
C155956	RLC	RPD	Dissolved Mercury (Hg)	2025/11/10	2.1		%	20
C156013	RLC	Matrix Spike [DWJ443-03]	Dissolved Mercury (Hg)	2025/11/10		118	%	80 - 120
C156013	RLC	Spiked Blank	Dissolved Mercury (Hg)	2025/11/10		101	%	80 - 120
C156013	RLC	Method Blank	Dissolved Mercury (Hg)	2025/11/10	<0.0019		ug/L	
C156013	RLC	RPD [DWJ443-03]	Dissolved Mercury (Hg)	2025/11/10	NC		%	20
C156137	JU2	Matrix Spike [DWJ439-11]	HEPTADECANOIC ACID (sur.)	2025/11/13		114	%	60 - 140
			O-METHYLPODOCARPIC ACID (sur.)	2025/11/13		108	%	60 - 140
			Decanoic acid (C10)	2025/11/13		111	%	50 - 140
			Undecanoic acid (C11)	2025/11/13		104	%	50 - 140
			Dodecanoic acid (C12)	2025/11/13		99	%	50 - 140
			Tetradecanoic acid (C14)	2025/11/13		124	%	50 - 140
			Hexadecanoic acid (C16)	2025/11/13		91	%	50 - 140
			Octadecanoic acid (C18)	2025/11/13		101	%	50 - 140
			Oleic acid (C18:1)	2025/11/13		100	%	50 - 140
			Linoleic acid (C18:2)	2025/11/13		86	%	50 - 140
			Linolenic acid (C18:3)	2025/11/13		104	%	50 - 140
			Eicosanoic acid (C20)	2025/11/13		87	%	50 - 140
			Docosanoic acid (C22)	2025/11/13		94	%	50 - 140
			9,10-dichlorostearic acid (C18)	2025/11/13		80	%	50 - 140
			Pimaric acid	2025/11/13		86	%	50 - 140
			Sandaracopimaric acid	2025/11/13		86	%	50 - 140
			Isopimaric acid	2025/11/13		93	%	50 - 140
			Palustric acid	2025/11/13		108	%	20 - 140
			Dehydroabietic acid	2025/11/13		135	%	50 - 140
			Abietic acid	2025/11/13		119	%	50 - 140
			Neobietic acid	2025/11/13		117	%	20 - 140
			14-chlorodehydroabietic acid	2025/11/13		129	%	50 - 140
			12-chlorodehydroabietic acid	2025/11/13		116	%	50 - 140
			12,14-dichlorodehydroabietic acid	2025/11/13		105	%	50 - 140
C156137	JU2	Spiked Blank	HEPTADECANOIC ACID (sur.)	2025/11/12		113	%	60 - 140
			O-METHYLPODOCARPIC ACID (sur.)	2025/11/12		109	%	60 - 140
			Decanoic acid (C10)	2025/11/12		102	%	60 - 140



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Undecanoic acid (C11)	2025/11/12		101	%	60 - 140
			Dodecanoic acid (C12)	2025/11/12		101	%	60 - 140
			Tetradecanoic acid (C14)	2025/11/12		108	%	60 - 140
			Hexadecanoic acid (C16)	2025/11/12		104	%	60 - 140
			Octadecanoic acid (C18)	2025/11/12		98	%	60 - 140
			Oleic acid (C18:1)	2025/11/12		96	%	60 - 140
			Linoleic acid (C18:2)	2025/11/12		86	%	60 - 140
			Linolenic acid (C18:3)	2025/11/12		94	%	60 - 140
			Eicosanoic acid (C20)	2025/11/12		81	%	60 - 140
			Docosanoic acid (C22)	2025/11/12		85	%	60 - 140
			9,10-dichlorostearic acid (C18)	2025/11/12		95	%	60 - 140
			Pimaric acid	2025/11/12		97	%	60 - 140
			Sandaracopimaric acid	2025/11/12		104	%	60 - 140
			Isopimaric acid	2025/11/12		92	%	60 - 140
			Palustric acid	2025/11/12		117	%	30 - 140
			Dehydroabietic acid	2025/11/12		130	%	60 - 140
			Abietic acid	2025/11/12		102	%	60 - 140
			Neoabietic acid	2025/11/12		97	%	30 - 140
			14-chlorodehydroabietic acid	2025/11/12		120	%	60 - 140
			12-chlorodehydroabietic acid	2025/11/12		116	%	60 - 140
			12,14-dichlorodehydroabietic acid	2025/11/12		101	%	60 - 140
C156137	JU2	Method Blank	HEPTADECANOIC ACID (sur.)	2025/11/13		114	%	60 - 140
			O-METHYLPODOCARPIC ACID (sur.)	2025/11/13		112	%	60 - 140
			Decanoic acid (C10)	2025/11/13	<0.0060		mg/L	
			Undecanoic acid (C11)	2025/11/13	<0.0060		mg/L	
			Dodecanoic acid (C12)	2025/11/13	<0.0060		mg/L	
			Tetradecanoic acid (C14)	2025/11/13	<0.0060		mg/L	
			Hexadecanoic acid (C16)	2025/11/13	<0.0060		mg/L	
			Octadecanoic acid (C18)	2025/11/13	<0.0060		mg/L	
			Oleic acid (C18:1)	2025/11/13	<0.0060		mg/L	
			Linoleic acid (C18:2)	2025/11/13	<0.0060		mg/L	
			Linolenic acid (C18:3)	2025/11/13	<0.0060		mg/L	
			Eicosanoic acid (C20)	2025/11/13	<0.0060		mg/L	
			Docosanoic acid (C22)	2025/11/13	<0.0060		mg/L	
			9,10-dichlorostearic acid (C18)	2025/11/13	<0.0060		mg/L	
			Pimaric acid	2025/11/13	<0.0060		mg/L	
			Sandaracopimaric acid	2025/11/13	<0.0060		mg/L	
			Isopimaric acid	2025/11/13	<0.0060		mg/L	
			Palustric acid	2025/11/13	<0.0060		mg/L	
			Dehydroabietic acid	2025/11/13	<0.0060		mg/L	
			Abietic acid	2025/11/13	<0.0060		mg/L	
			Neoabietic acid	2025/11/13	<0.0060		mg/L	
			14-chlorodehydroabietic acid	2025/11/13	<0.0060		mg/L	
			12-chlorodehydroabietic acid	2025/11/13	<0.0060		mg/L	
			12,14-dichlorodehydroabietic acid	2025/11/13	<0.0060		mg/L	
C156137	JU2	RPD [DWJ440-11]	Decanoic acid (C10)	2025/11/13	NC		%	50
			Undecanoic acid (C11)	2025/11/13	NC		%	50
			Dodecanoic acid (C12)	2025/11/13	NC		%	50
			Tetradecanoic acid (C14)	2025/11/13	NC		%	50
			Hexadecanoic acid (C16)	2025/11/13	NC		%	50
			Octadecanoic acid (C18)	2025/11/13	NC		%	50
			Oleic acid (C18:1)	2025/11/13	NC		%	50
			Linoleic acid (C18:2)	2025/11/13	NC		%	50
			Linolenic acid (C18:3)	2025/11/13	NC		%	50
			Eicosanoic acid (C20)	2025/11/13	NC		%	50



BUREAU
VERITAS

Bureau Veritas Job #: C591874
Report Date: 2025/11/13

McElhanney Consulting Services Ltd.
Client Project #: Village of Tahsis

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Docosanoic acid (C22)	2025/11/13	NC		%	50
			9,10-dichlorostearic acid (C18)	2025/11/13	NC		%	50
			Pimaric acid	2025/11/13	NC		%	50
			Sandaracopimaric acid	2025/11/13	NC		%	50
			Isopimaric acid	2025/11/13	NC		%	50
			Palustric acid	2025/11/13	NC		%	50
			Dehydroabietic acid	2025/11/13	NC		%	50
			Abietic acid	2025/11/13	NC		%	50
			Neoabietic acid	2025/11/13	NC		%	50
			14-chlorodehydroabietic acid	2025/11/13	NC		%	50
			12-chlorodehydroabietic acid	2025/11/13	NC		%	50
			12,14-dichlorodehydroabietic acid	2025/11/13	NC		%	50
C156472	GID	Spiked Blank	Transmittance at 254nm	2025/11/08		100	%	97 - 103
C157370	éFZ	Spiked Blank	Decachlorobiphenyl	2025/11/10		88	%	60 - 130
			Decachlorobiphenyl	2025/11/10		88	%	60 - 130
			Aroclor 1260	2025/11/10		77	%	60 - 130
			Aroclor 1260	2025/11/10		77	%	60 - 130
			Total PCB	2025/11/10		77	%	60 - 130
			Total PCB	2025/11/10		77	%	60 - 130
C157370	éFZ	RPD	Aroclor 1260	2025/11/10	9.5		%	40
			Aroclor 1260	2025/11/10	9.5		%	40
			Total PCB	2025/11/10	9.5		%	40
			Total PCB	2025/11/10	9.5		%	40
C157370	éFZ	Method Blank	Aroclor 1016	2025/11/10	<0.010		ug/L	
			Aroclor 1016	2025/11/10	<0.010		ug/L	
			Aroclor 1221	2025/11/10	<0.010		ug/L	
			Aroclor 1221	2025/11/10	<0.010		ug/L	
			Aroclor 1232	2025/11/10	<0.010		ug/L	
			Aroclor 1232	2025/11/10	<0.010		ug/L	
			Aroclor 1262	2025/11/10	<0.010		ug/L	
			Aroclor 1262	2025/11/10	<0.010		ug/L	
			Aroclor 1268	2025/11/10	<0.010		ug/L	
			Aroclor 1268	2025/11/10	<0.010		ug/L	
			Decachlorobiphenyl	2025/11/10		61	%	60 - 130
			Decachlorobiphenyl	2025/11/10		61	%	60 - 130
			Aroclor 1242	2025/11/10	<0.010		ug/L	
			Aroclor 1242	2025/11/10	<0.010		ug/L	
			Aroclor 1248	2025/11/10	<0.010		ug/L	
			Aroclor 1248	2025/11/10	<0.010		ug/L	
			Aroclor 1254	2025/11/10	<0.010		ug/L	
			Aroclor 1254	2025/11/10	<0.010		ug/L	
			Aroclor 1260	2025/11/10	<0.010		ug/L	
			Aroclor 1260	2025/11/10	<0.010		ug/L	
			Total PCB	2025/11/10	<0.010		ug/L	
			Total PCB	2025/11/10	<0.010		ug/L	
C158314	MEM	Spiked Blank	Dissolved Selenium (Se)	2025/11/13		94	%	80 - 120



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
	C158314	MEM	Method Blank	Dissolved Selenium (Se)	2025/11/13	<0.10		ug/L	

N/A = Not Applicable

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.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

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)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

David Huang

David Huang, M.Sc., P.Chem., QP, Scientific Services Manager

Veronica Falk

Veronica Falk, B.Sc., P.Chem., QP, Scientific Specialist, Organics

David Huang

Bureau Veritas Certified by David Huang, M.Sc., P.Chem., QP, Scientific Services Manager

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rob Gilbert, BBY General Manager responsible for British Columbia Environmental laboratory operations.

C591874
2025/11/05 08:43

Bureau Veritas
4605 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel:(604) 734 7276 Toll-free:800-563-6266 Fax:(604) 731 2386 www.bvna.com

Chain Of Custody Record

Invoice To:		Report Information		Project Information		Laboratory Use Only	
Company Name	#13027 McElhanney Consulting Services Ltd.	Company Name	Victoria Campbell River	Project #	C41018	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable - Victoria Campbell River	Contact Name	Chris Wall	Project Name	Village of Tahsis	Chain Of Custody Record	Project Manager
Address	500-3960 Quadra Street Victoria BC V8X 4A9	Address	1196 Popwood St Victoria BC V8X 4A9	Site #			
Phone	(250) 370-9272 ext 257-7799	Phone	250-370-9272	Sampled By			
Email	Victoria@mcElhanney.com	Email	cwall@mcElhanney.com				

Regulatory Criteria:	Special Instructions	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required:		
<input type="checkbox"/> CSR		Metals Field Filtered? (Y/N)	CSR Total Metals in Water with CV Hg	CSR D. Metals w/CV Hg-Diss	Nitrite & Nitrate in Water	CSR PAH in Water by GC-MS	Alkalinity @25C (pp. total), CO3, HCO3, OH	Chloride/Sulphate by Auto Colourimetry	Coliform by membrane filtration	Conductivity @25C	E coli by membrane filtration in Water	Fluoride	Please provide advance notice for rush projects	
<input type="checkbox"/> CCME												Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. <input checked="" type="checkbox"/>		
<input checked="" type="checkbox"/> BC Water Quality												Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > days - contact your Project Manager for details.		
<input type="checkbox"/> Other												Job Specific Rush TAT (if applies to entire submission) 1 DAY <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Date Required: _____		
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS												Rush Confirmation Number: _____ (call lab for #)		

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered? (Y/N)	CSR Total Metals in Water with CV Hg	CSR D. Metals w/CV Hg-Diss	Nitrite & Nitrate in Water	CSR PAH in Water by GC-MS	Alkalinity @25C (pp. total), CO3, HCO3, OH	Chloride/Sulphate by Auto Colourimetry	Coliform by membrane filtration	Conductivity @25C	E coli by membrane filtration in Water	Fluoride	# of Bottles	Comments
SID#398989	MW 20-01 Shallow	25/11/04	10:32	Water	/	/	/	/	/	/	/	/	/	/	/		
SID#398970	MW 20-01 Deep	25/11/04	09:45	Water	/	/	/	/	/	/	/	/	/	/	/		
SID#398971	MW 20-02 Shallow	25/11/04	12:23	Water	/	/	/	/	/	/	/	/	/	/	/		
SID#398972	MW 20-02 Deep	25/11/04	11:48	Water	/	/	/	/	/	/	/	/	/	/	/		
SID#398973	Production Well	25/11/04	12:58	Water	/	/	/	/	/	/	/	/	/	/	/		

Note: 'Production well' requires VITA Drinking Water Package.



MVAN-2025-11-237

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
Chris Wall	25/11/04	16:40	MARY CHUNG WONG CHUNG	2025/11/15	08:43		Time Sensitive <input type="checkbox"/> Temperature (°C) on Receipt 6/6/7 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 BUREAU VERITAS'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.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COCC-TERMS-AND-CONDITIONS.
* 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.

ICG: Fv028m

C591874
2025/11/05 08:43

Bureau Veritas
4608 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel:(604) 734 7276 Toll-free:800-563-6286 Fax:(604) 731 2386 www.bvna.com

Chain Of Custody Record

Invoice To: Company Name: #13027 McElhanney Consulting Services Ltd. Contact Name: Accounts Payable - Victoria Address: 900-3980 Quadra Street Phone: (250) 370-8221 Fax: 250-7799 Email: Victoria@mcelhanney.com		Report Information Company Name: Chris Wall Contact Name: Chris Wall Address: 196 Dogwood St Phone: VQW 3A2 Email: cwall@mcelhanney.com		Project Information Quotation #: C41018 P.O. #: Village of Tahsis Project #: Village of Tahsis Project Name: Village of Tahsis Site #: Village of Tahsis Sampled By:		Laboratory Use Only Bureau Veritas Job #: 770928 Chain Of Custody Record Project Manager: Shanz Akbar C#770928-01-02	
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Regulatory Criteria: <input type="checkbox"/> CSR <input type="checkbox"/> CCME <input checked="" type="checkbox"/> BC Water Quality <input type="checkbox"/> Other	Special Instructions: Metals Field Filtered? (Y/N)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC): Bromide as Bromine (Br) by ICPMS Ammonia-N (Total) Polychlorinated Biphenyls in Water pH @25°C Orthophosphate by Automated Analyzer Resin and Fatty Acids Turbidity	Turnaround Time (TAT) Required: Please provide advance notice for rush projects Regular (Standard) TAT: (will be applied if Rush TAT is not specified). Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 7 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) 1 DAY <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Date Required: <input type="checkbox"/> Rush Confirmation Number: (call lab for #)
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SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS						Metals Field Filtered? (Y/N)	Bromide as Bromine (Br) by ICPMS	Ammonia-N (Total)	Polychlorinated Biphenyls in Water	pH @25°C	Orthophosphate by Automated Analyzer	Resin and Fatty Acids	Turbidity	# of Bottles	Comments
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix											
SID#398969	MW 20-01 Shallow	25/11/04	10:32	Water		✓	✓	✓	✓	✓	✓	✓			
SID#398970	MW 20-01 Deep	25/11/04	09:45	Water		✓	✓	✓	✓	✓	✓	✓			
SID#398971	MW 20-02 Shallow	25/11/04	12:23	Water		✓	✓	✓	✓	✓	✓	✓			
SID#398972	MW 20-02 Deep	25/11/04	11:48	Water		✓	✓	✓	✓	✓	✓	✓			
SID#398973	Production Well	25/11/04	12:58	Water		✓	✓	✓	✓	✓	✓	✓			

Note: 'Production Well' requires VITA Drinking Water Package

RELINQUISHED BY: (Signature/Print) Chris Wall	Date: (YY/MM/DD) 25/11/04	Time 16:40	RECEIVED BY: (Signature/Print) Mary Chung Mary Chung	Date: (YY/MM/DD) 22/11/15	Time 08:43	# Jars used and not submitted <input type="checkbox"/>	Lab Use Only Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt: 6/6/7	Custody Seal Intact on Cooler? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'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.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.
 * 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.

FCB: PIAZEN