



Mount Polley Mining Corporation

an Imperial Metals company
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September 19, 2014

Ministry of Environment
Mining Operations Environmental Protection
2080 Labieux Rd.
Nanaimo, BC
V9T 6J9

ATTN: Hubert Bunce, Mining Director, Environmental Protection

RE: Weekly Environmental Monitoring Update for the Week of September 10 – 16, 2014

Dear Mr. Bunce,

As of September 16, 2014, the monitoring program implemented in response to the Mount Polley Mine tailings release consists of the following components:

- 1) Water quality (Quesnel Lake including residential water intakes, Quesnel River, Polley Lake, and Hazeltine Creek);
- 2) Sediment quality (Quesnel Lake);
- 3) Soil quality (Hazeltine Creek); and
- 4) Fish Sampling.

The sediment quality, soil quality, and fish monitoring programs are being carried out as components of the Comprehensive Environmental Impact Assessment (CEIA) which has been implemented by Mount Polley Mining Corporation (MPMC) as per the Pollution Abatement Order issued by the Ministry of Environment on August 5, 2014. Results of these monitoring programs will be presented in reports detailing findings of the CEIA, and interim results are not included in this report.

The following sections summarize the water quality monitoring program, as well as changes, key actions and interactions relevant to the program. While this program is contributing to CEIA, monitoring occurring is still considered initial response monitoring, and is thus included in this report. This report provides a monitoring update for the week of September 10 – 16, 2014; the reporting week of Tuesday to Tuesday is used to allow time for data to be reviewed for quality assurance and quality control purposes prior to report submission on Fridays.

Of relevance to downstream monitoring programs and results is that flow from the Tailings Storage Facility breach into Hazeltine Creek has been contained since September 4, 2014.

Water Quality Program

More than 90 water quality sampling locations have been established as of September 16, 2014 to assess and monitor water quality as part of the program. Drawings 621717-005-P1 through 621717-P8 (attached) show these sample locations.

The following parameters continue to form the basis for the monitoring program and evaluating impacts to water quality as a result of the release:

- In situ parameters (including lake profiles and the Quesnel River continuous monitoring sonde): specific conductance, turbidity, temperature, pH, and dissolved oxygen;
- Physical parameters: pH, conductivity, turbidity, total suspended and dissolved solids, hardness;
- Total and dissolved metals (excluding mercury);
- Anions: sulphate, chloride, fluoride;
- Nutrients: total ammonia, nitrate, nitrite, total nitrogen, orthophosphate, total phosphorous, dissolved phosphorous;
- Dissolved organic carbon; and
- Toxicity testing.

Table A (below) summarizes water quality monitoring completed to date. With the exception of toxicity testing, results have been provided in Tables 1a, 4a, and 4b (attached). Results of the toxicity testing completed to date are provided in Table B. Continuous in situ turbidity and specific conductance data collected from QUR-1 (Quesnel River at the Quesnel River Research Centre) are provided in Figure 1.

Note that the lab turnaround time had been adjusted to 'regular', resulting in limited new data this week (no new data for the Tailings Storage Facility or Polley Lake). Lab turnaround times have since been re-adjusted to 'priority'.

TABLE A: Summary of water quality monitoring programs

Monitoring Program	Area	Frequency	Sample Locations
Surface Water Sampling Program	Polley Lake	Single Sample	Previously sampled (not sampled September 10 – 16, 2014): POL-1
		Repeated Sites	Week of September 10 – 16, 2014: - Continued weekly sampling at locations POL-3, POL-4 (grab samples from shore). - Continued weekly profiles and samples at surface and bottom at POL-5, POL-6, P1, and P2.
	Polley Discharge and Hazeltine Creek	Single Sample	Previously sampled (not sampled September 10 – 16, 2014): HAC-02, HAC-03, HAC-04, HAC-06
		Repeated Sites	Week of September 10 – 16, 2014: - Weekly monitoring at HAD-1 did not occur as schedules on September 16,2014 because pump maintenance was being carried out. Field parameters at HAD-2 were measured, and HAD-1 will be sampled at a later date. - Continued weekly monitoring at Breach-1. - Started weekly monitoring at HAC-05. - Continued daily monitoring at HAC-01. No days missed.
	Quesnel River	Repeated Sites	Week of September 10 – 16, 2014: - Continued daily sampling at QUR-1: ISCO automatic sampler collects 3 samples per day, and a fourth grab sample is also collected. No samples missed - A data logger records measurements of pH, temperature, conductivity, turbidity, dissolved oxygen, and specific conductance every 15 minutes.
	Quesnel Lake (Surface Grabs)	Single Sample	Previously sampled (not sampled September 10 – 16, 2014): QUL-4 to QUR-8, QUR-10 to QUR-16, QUL-30, QUL-31, QUR-69, QUL-74, QUL-75, QUL-87, QUL-96
		Repeated Sites	Previously sampled (not sampled September 10 – 16, 2014): - QUL-1, QUL-10, QUL-17, QUL-28 Week of September 10 – 16, 2014: - Continued daily surface sampling at QUL-18, and QUL-23. No days missed. - Continued daily surface sampling at QUL-20. One day missed due to time constraints.
	Quesnel Lake (Profiles and Samples through Water Column)	Single Sample	Previously sampled sites: QUL-28, QUL-65, QUL-67, QUL-68, QUL-70, QUL-71, QUL-72, QUL-73, QUL-76, QUL-78, QUL-80,
		Repeated Sites	Previously sampled (not sampled September 10 – 16, 2014): - QUL-3, QUL-18, QUL-19, QUL-26 Week of September 10 – 16, 2014: - QUL-2, QUL-21, QUL-22, QUL-66, and QUL-79 are visited on a rotational basis approximately every other day (depending on weather conditions). - Samples are collected near surface and near lake bottom, and in areas of elevated turbidity in consideration of in situ profile results. - Continued daily profiles QUL-20 to confirm that the water column is well mixed that a surface sample is representative. One day missed due to time constraints - QUL-106, QUL-110 (new sites) sampled once. - QUL-40 sampled twice. - QUL-87 sampled once.
Residential Water Intake Sampling Program	Quesnel Lake	Single Sample	Previously sampled (not sampled September 10 – 16, 2014): - QUL-32, QUL-33, QUL-34, QUL-36, QUL-39, QUL-62, QUL-63, QUL-77, QUL-81, QUL-82 to QUL-86, QUL-88, QUL-89, QUL-90, QUL-91, QUL-92, QUL-93, QUL-94, QUL-95, QUL-100, QUL-101, QUR-102, QUR-103, Raft Creek Rec Site Week of September 10 – 16, 2014: - QUL-104, QUL-105, QUL-107, QUL-108, QUL-109
		Repeated Sites	Previously sampled (not sampled September 10 – 16, 2014): - QUL-35, QUL-37, QUL-60, QUL-61, QUL-64 Week of September 10 – 16, 2014: - QUL-38

Table B: Summary of water toxicity test results

Date	Location	Location Description	Acute (96h) Rainbow Trout ¹	Acute (48-h) Daphnia magna ²	Sublethal (7-d) fish survival and growth ³	Sublethal (7-d) invertebrate survival and reproduction ⁴	Sublethal (72-h) algal growth ⁵	Sublethal (7-d) plant growth ⁶	Results
August 6, 2014	QUR-1	Quesnel River at Research Station	✓	✓		✓			LC50, IC25, IC50 all >100%
August 9, 2014	POL-2	Polley Lake near South End	✓	✓		✓			LC50, IC25, IC50 all >100%
August 13, 2014	HAD-1	Discharge from Polley to Hazel tine	✓	✓	✓	✓	✓		LC50 >100% for rainbow trout and <i>D. magna</i> LC50, IC25, IC50 >100% for fathead minnow, <i>C.dubia</i> (interim) IC25, IC50 >95.2% for <i>P. subcapitata</i> (interim)
August 20, 2014	HAD-1	Discharge from Polley to Hazel tine	✓	✓	✓	✓	✓	✓	LC50 >100% for rainbow trout and <i>D. magna</i> LC50, IC25, IC50 >100% for fathead minnow, <i>C.dubia</i> (interim) IC25, IC50 >95.2% for <i>P. subcapitata</i> (interim) IC25, IC50 >97% <i>L. minor</i> (interim)
August 21, 2014	QUL-66-40m	Quesnel Lake Plume	✓	✓	✓	✓	✓	✓	LC50 >100% for rainbow trout and <i>D. magna</i> LC50>100%, IC25>3.9%, IC50>9.8% for, <i>C.dubia</i> (interim) LC50, IC25, IC50 >100% for fathead minnow (interim) IC25, IC50 >95.2% for <i>P. subcapitata</i> (interim) IC25, IC50 >97% <i>L. minor</i> (interim)
August 22, 2014	QUR-1	Quesnel River Research Centre	✓	✓	✓	✓	✓	✓	LC50 >100% for rainbow trout and <i>D. magna</i> (interim) LC50, IC25, IC50 >100% for, <i>C.dubia</i> (interim) LC25>70.4%, LC50>100%, IC25>68.5%, IC50 >100% for fathead minnow (interim) IC25, IC50 >95.2% for <i>P. subcapitata</i> (interim) IC25, IC50 >97% <i>L. minor</i> (interim)
August 27, 2014	HAD-1	Discharge from Polley to Hazel tine			✓	✓			LC50, IC25, IC50 >100% for <i>C.dubia</i> (interim) LC25>42.4%,LC50>100%, IC25>100%, IC50 >100% for fathead minnow (interim)
August 28, 2014	QUL-66-40m	Quesnel Lake Plume	✓	✓	✓	✓	✓	✓	LC50 >100% for rainbow trout and <i>D. magna</i> (interim) LC50>100%, IC25>3%, IC50>5.3% for, <i>C.dubia</i> (interim) LC50, IC25, IC50 >100% for fathead minnow (interim) IC25, IC50 >95.2% for <i>P. subcapitata</i> (interim) IC25, IC50 >97% <i>L. minor</i> (interim)
September 3, 2014	QUL-66-45m	Quesnel Lake Plume			✓	✓			LC50>100%, IC25>1.8%, IC50>13.6% for <i>C.dubia</i> (interim) LC25, LC50, IC25, IC50 >100% for fathead minnow (interim)
September 3, 2014	HAD-2	Discharge from Polley to Hazel tine			✓	✓			LC25, LC50, IC25, IC50 >100% for <i>C.dubia</i> (interim) LC25 not calculable, LC50>84.1%, IC25>24.2, IC50 >100% for fathead minnow (interim)
September 10, 2014	HAD-1	Discharge from Polley to Hazel tine			✓	✓			Pending
September 10, 2014	QUL-66-48m	Quesnel Lake Plume			✓	✓			Pending
September 16, 2014	QUL-66-48m	Quesnel Lake Plume			✓	✓			Pending
September 16, 2014	POL-6-14m	Polley Lake near plug		✓	✓	✓	✓	✓	Pending

¹Rainbow trout acute lethality (96-hours)
²Daphnia magna acute lethality (48-hours)
³Fathead minnow survival and growth (7-days)
⁴Ceriodaphnia dubia survival and reproduction (up to 8-d)
⁵Algal growth (Pseudokirchneriella subcapitata - 72-hours)
⁶Plant growth (Lemna minor - 7-days)

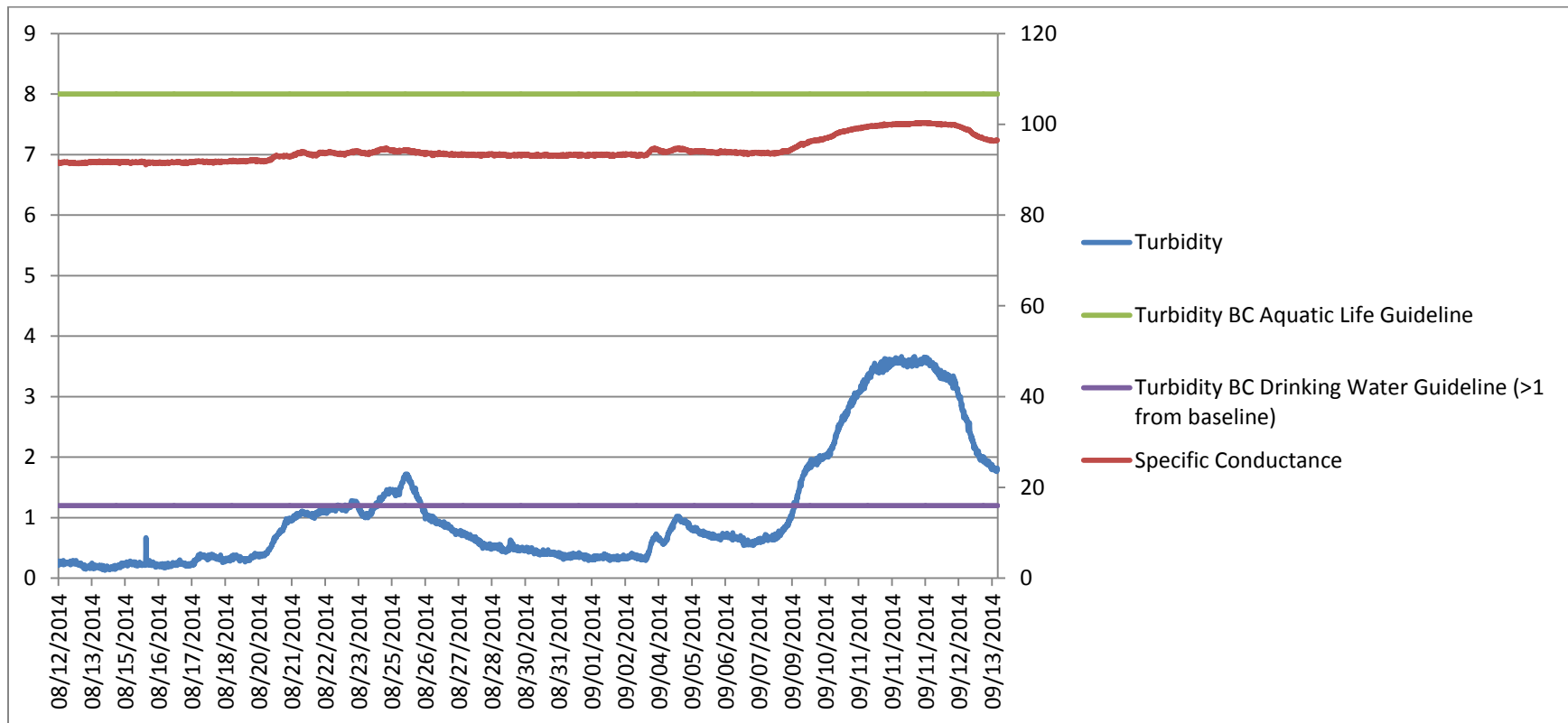


FIGURE 1: Continuous in situ turbidity and specific conductance data from sample location QUR-1

Summary of Modifications to the Monitoring Program

General

- Lab turnaround times were switched to 'regular' (for this reason little new data is available this week); however they have been re-adjusted to 'priority'.
- Mercury parameters are being dropped from the routine monitoring program, as there have been no results above the detection limit for Quesnel Lake, Quesnel River, or Polley Lake. Mercury will be considered as part of water quality impact assessment.
- Plans are in place to provide additional information in next week's report, which will potentially include summary tables or charts and additional field data, such as profile data and wildlife observations.

Polley Lake

- POL-3 and POL-4 (shore sample locations) were sampled this week and last week, along with locations now being monitored in the lake. POL-3 and POL-4 will no longer be monitored. P1, P2, POL-5, and POL-6 will continue to be sampled on a weekly basis.

Hazeltine Creek

- When HAD-1 is sampled, field parameters are taken at HAD-2 to confirm water chemistry remains consistent with HAD-1.
- HAC-02 or HAC-03 (low flow seepage upstream of the Polley Lake discharge into Hazeltine Creek) and HAC-05 (downstream of the Polley Lake discharge at the Gavin Lake Road) will be sampled weekly moving forward, on the same day as HAD-1 is sampled.

Quesnel Lake

- Chlorophyll a has been added to the profiling program, along with chlorophyll samples being taken to aid in profile interpretation.
- Sublethal toxicity testing at QUL-66 (within the plume) will continue on a monthly basis, because no acute effects have been observed.
- Daily sampling will not be carried out on Thursday October 2, 2014 because a workshop on equipment calibration, use and maintenance for all field staff has been set up to ensure high quality field data is being collected. Note that if a large rain event occurs, a monitoring crew will be mobilized.
- The following changes are planned in the following week:
 - The core monitoring program being carried out on Quesnel Lake will be reduced to two days per week for each site. Monitoring crews will be on the lake daily, and additional event-based sampling will be triggered based on precipitation events or observations of a significant change in lake conditions.
 - Deep water reference sampling will be carried out twice weekly at sites between Horsefly Bay and where the North, East, and West Arms converge.
 - Plankton sampling is being added to the program (two to three days per month).
 - Supplemental monitoring will be carried out to support flow modelling being completed by EBA-Tetra Tech.

Quesnel River

- The ISCO automatic sampler at QUR-1 will be removed when freezing conditions begin to risk damaging the equipment (estimate to take place late-September to early October). Daily grab samples will continue, and the continuous monitoring sonde will remain in the river during freezing conditions.

Gaps Identified in the Monitoring Program and Next Actions

- The current focus of the residential monitoring program is sampling the water intakes of all residents who have requested at public meetings that MPMC sample their water sources. This does not allow all neighbourhoods to be sampled on a regular rotating basis. Moving forward (when this round of sampling is complete), regular representative sampling of the various residential areas on Quesnel Lake will be carried out weekly, at minimum, with a plan in place to carry out event-based sampling if changes in the lake are observed. Additional monitoring will be carried out to ensure that the filters being installed by MPMC on residential water intakes are effective.

Summary of Daily Observations

September 13 – September 16: Evidence of the sediment plume in Quesnel Lake at location QUL-79 as well as discussion with Quesnel River Research Centre (QURC) on September 12, 2014 triggered some reactive profiling by field crews. Profiling included previously established as well as new sites further east on the lake, in Horsefly Bay, and in Hobson Arm.

September 16: Wildlife on Polley Lake including frogs, fish, and loons.

September 15: Silt curtain installed to log boom at mouth of Hazeltine Creek to slow the flow of sediment into Quesnel Lake.

September 10 – 16: Debris removal at mouth of Hazeltine Creek still in process. Some fine woody debris observed on lake surface downstream.

Summary of Public Interactions

September 10 – 16: Ongoing dialogue and data review with private property and lodge owners regarding water quality results as requested.

September 10: Community meeting held at Likely Community Centre. Residential sample data made available to community members at the meeting.

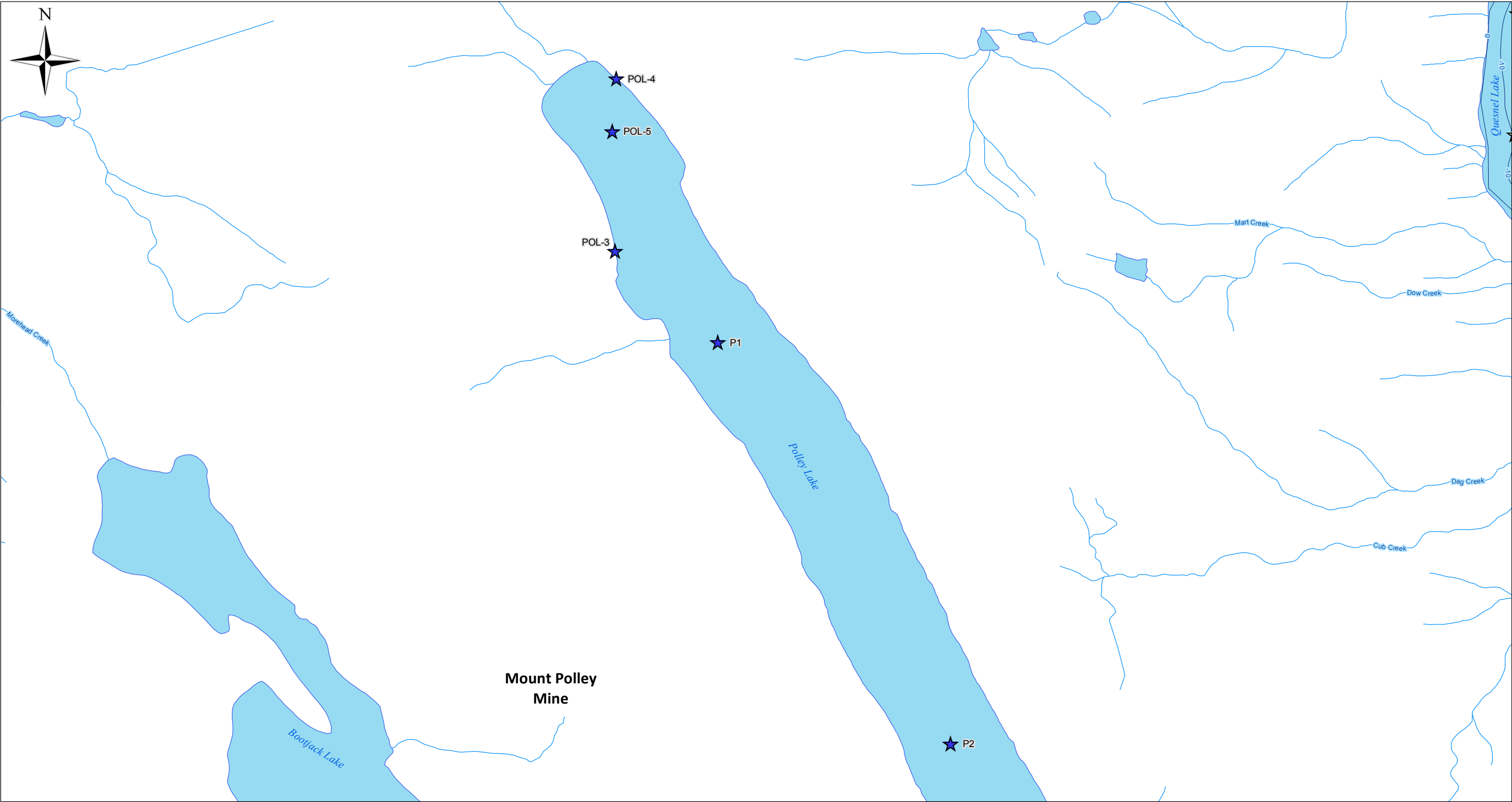
Please contact us with questions or concerns..

Sincerely,

Mount Polley Mining Corporation

Via email

Katie McMahan, P.Ag
Environmental Technologist
Mount Polley Mining Corporation
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kcmcmahan@mountpolley.com

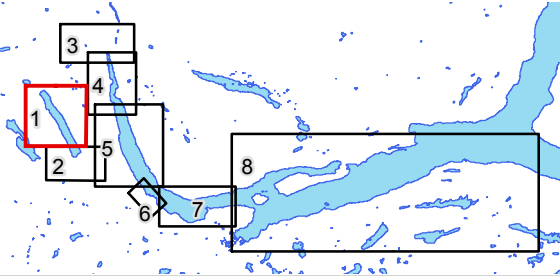


LEGEND

— New Hazeltine Creek Channel (Approximate)

Surface Water Sampling Locations

- ★ Hazeltine Creek (0)
- ★ Polley Lake (5)
- ★ Quesnel Lake (2)

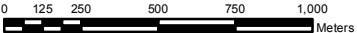


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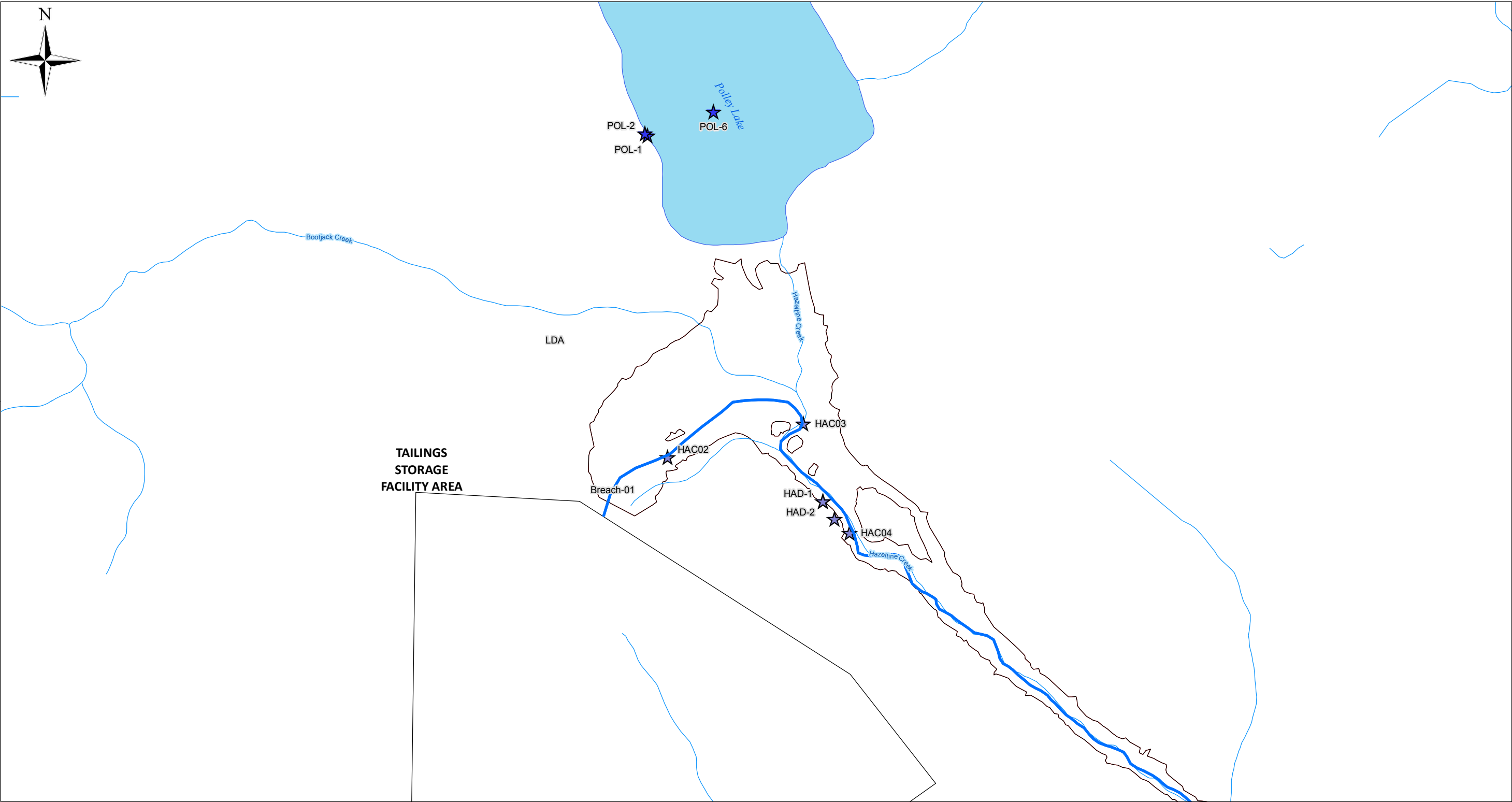
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3. Orthophoto collected by McElhanney on August 5th, 2014



CLIENT NAME: MPMC	PROJECT LOCATION: Mount Polley Mine, British Columbia
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Figure 5: Current Monitoring Locations
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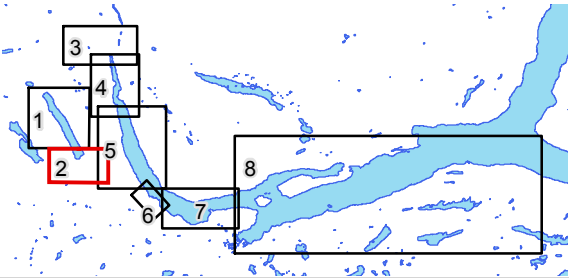


LEGEND

— New Hazeltine Creek Channel (Approximate)

Surface Water Sampling Locations

- ★ Hazeltine Creek (6)
- ★ Polley Lake (3)
- ★ Quesnel Lake (0)

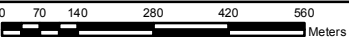


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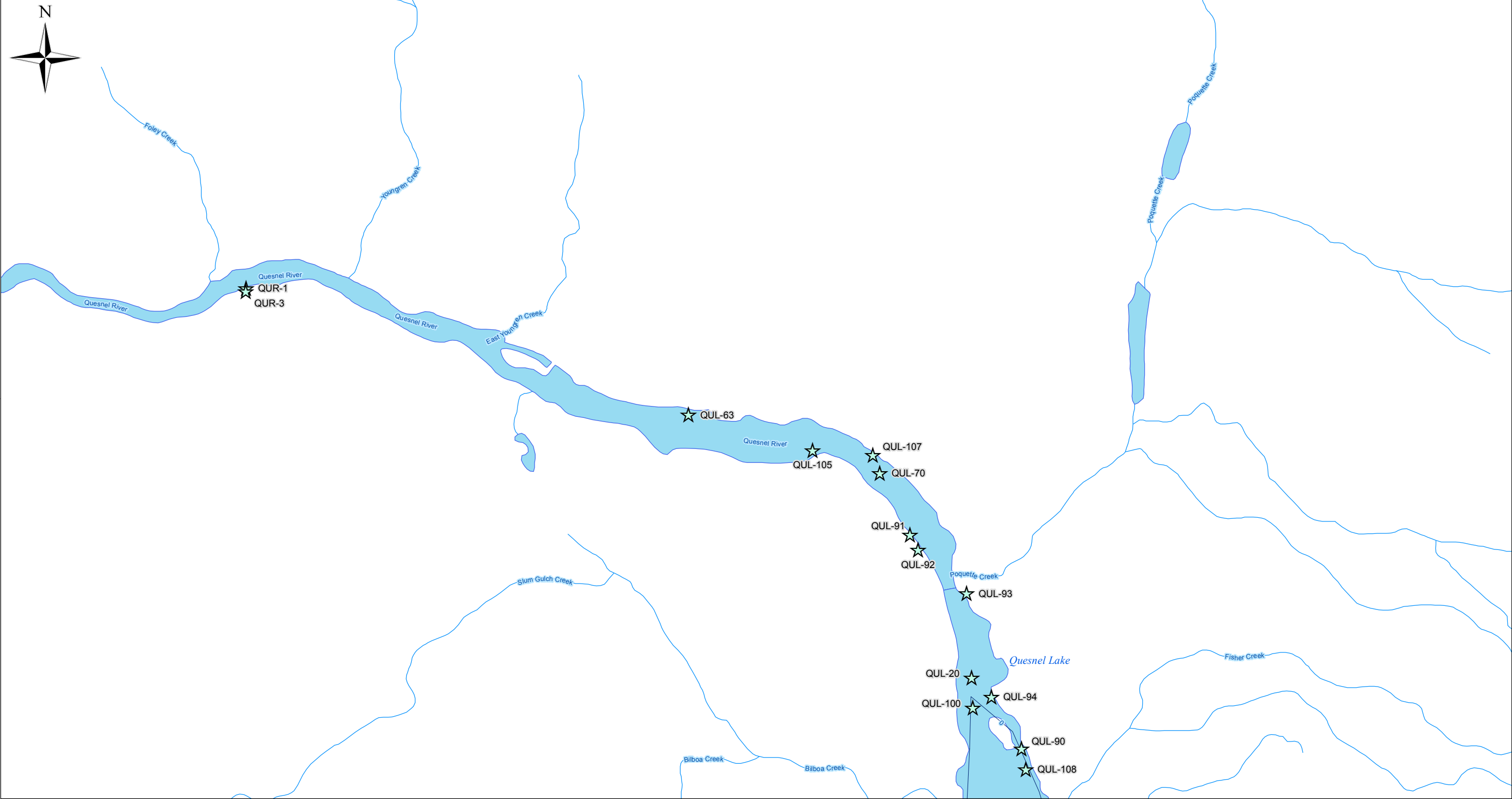
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CLIENT NAME: MPMC	PROJECT LOCATION: Mount Polley Mine, British Columbia
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Figure 5: Current Monitoring Locations
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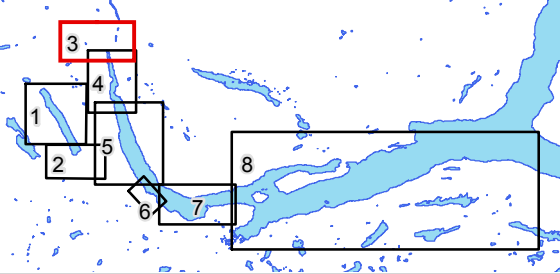


LEGEND

— New Hazeltine Creek Channel (Approximate)

Surface Water Sampling Locations

- ★ Hazeltine Creek (0)
- ★ Polley Lake (0)
- ★ Quesnel Lake (14)

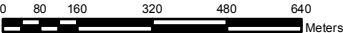


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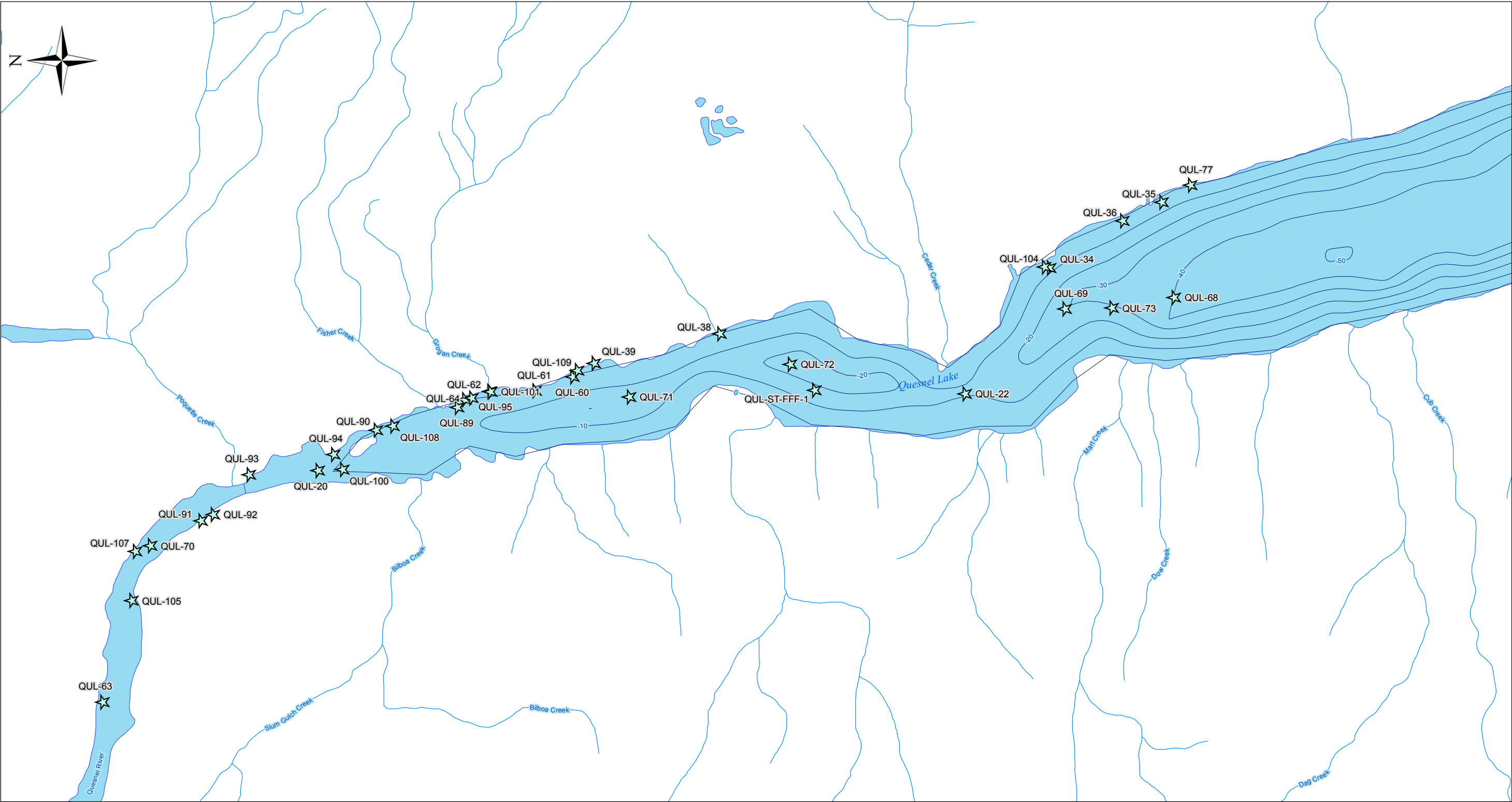
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Figure 5: Current Monitoring Locations
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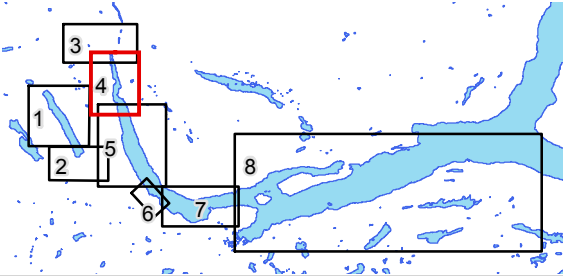


LEGEND

— New Hazeltime Creek Channel (Approximate)

Surface Water Sampling Locations

- ★ Hazeltime Creek (0)
- ★ Polley Lake (0)
- ★ Quesnel Lake (34)

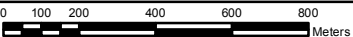


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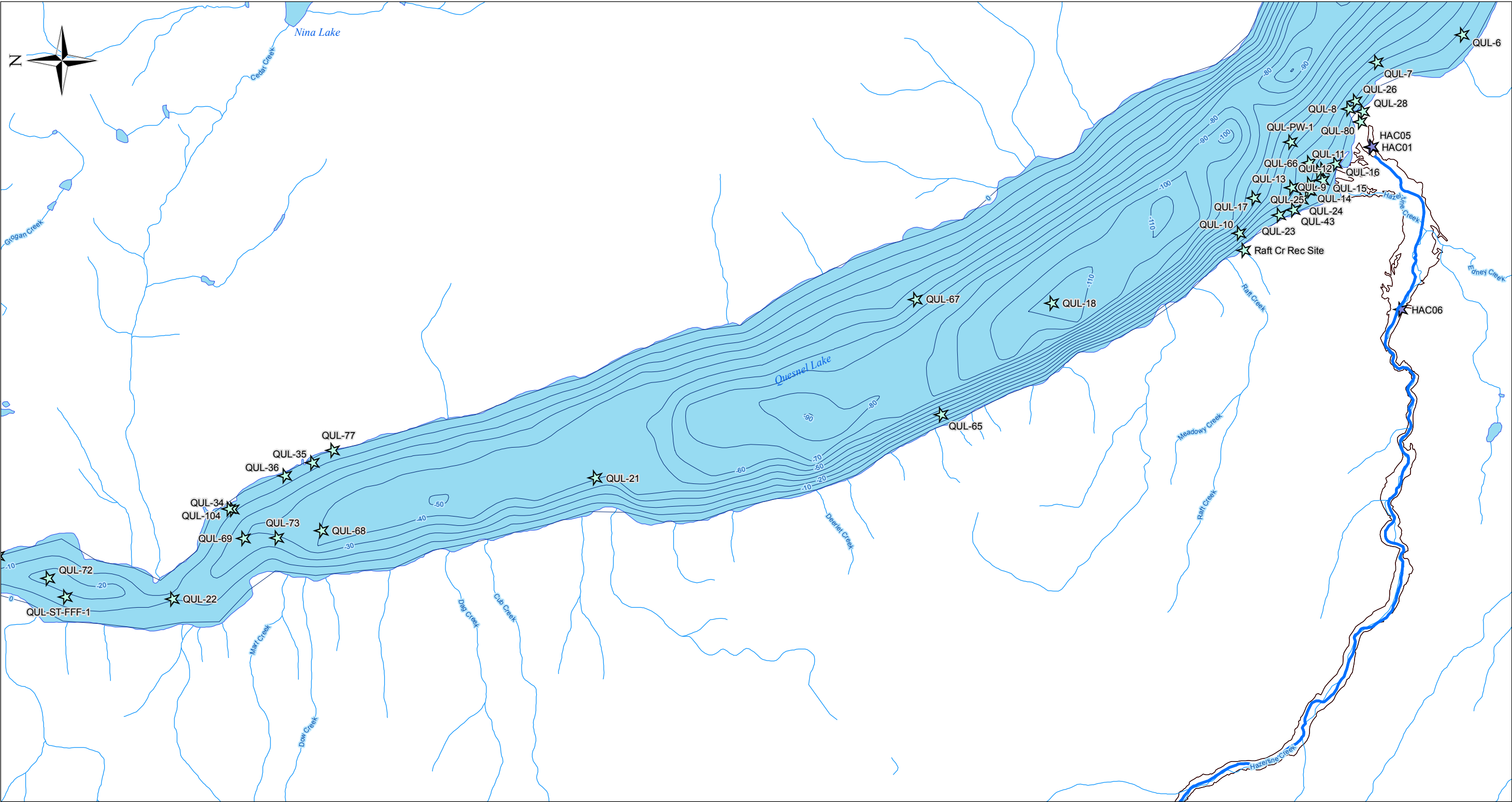
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Figure 5: Current Monitoring Locations
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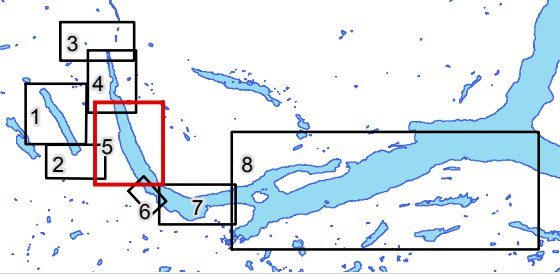


LEGEND

— New Hazeltime Creek Channel (Approximate)

Surface Water Sampling Locations

- ★ Hazeltime Creek (3)
- ★ Polley Lake (0)
- ★ Quesnel Lake (39)

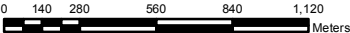


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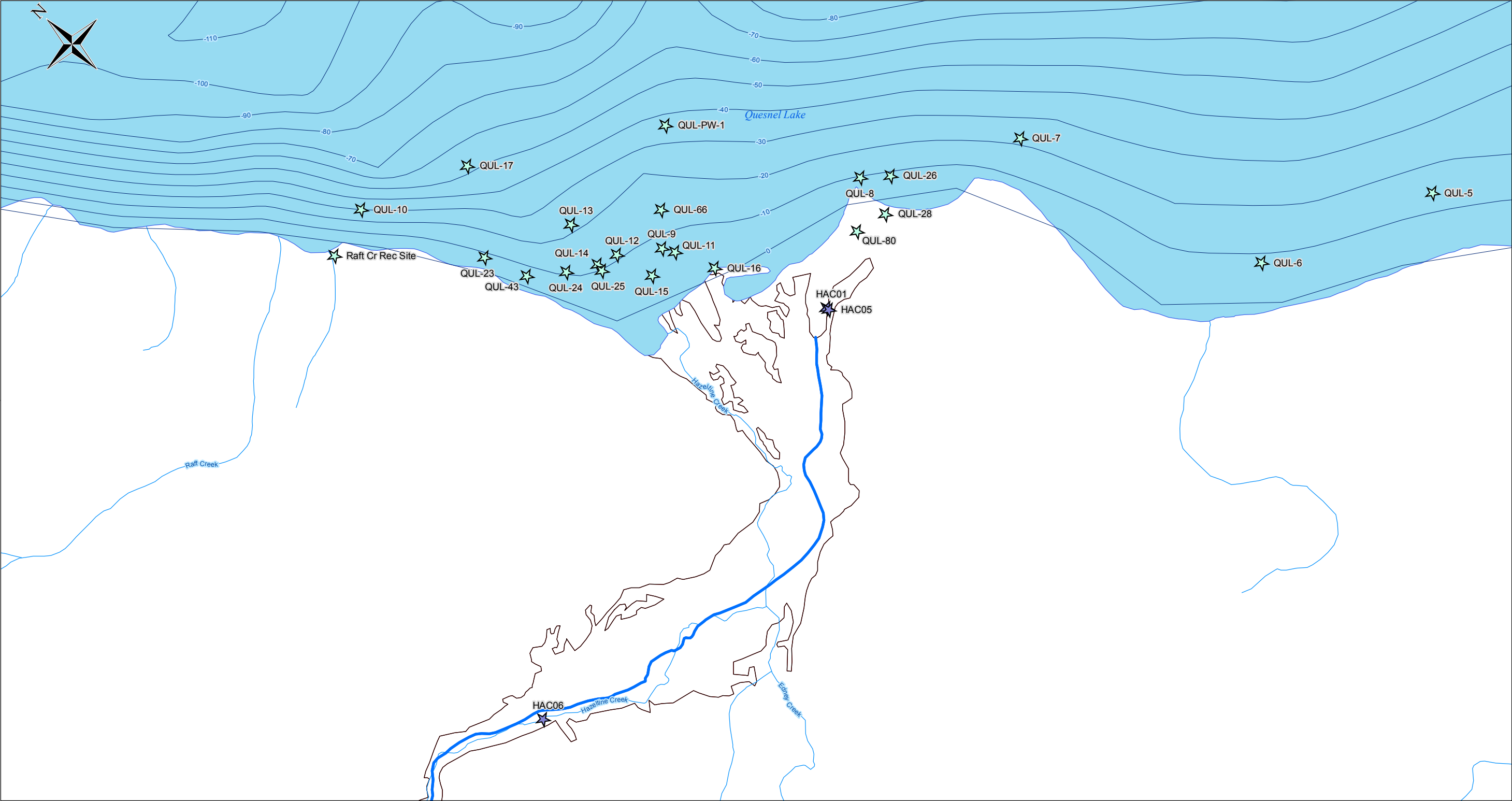
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CLIENT NAME: MPMC	PROJECT LOCATION: Mount Polley Mine, British Columbia
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Figure 5: Current Monitoring Locations
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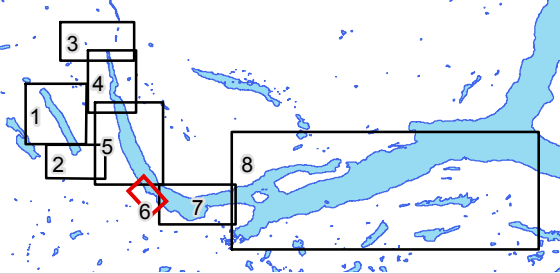


LEGEND

— New Hazeltine Creek Channel (Approximate)

Surface Water Sampling Locations

- ★ Hazeltine Creek (3)
- ★ Polley Lake (0)
- ★ Quesnel Lake (24)

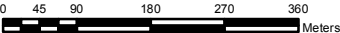


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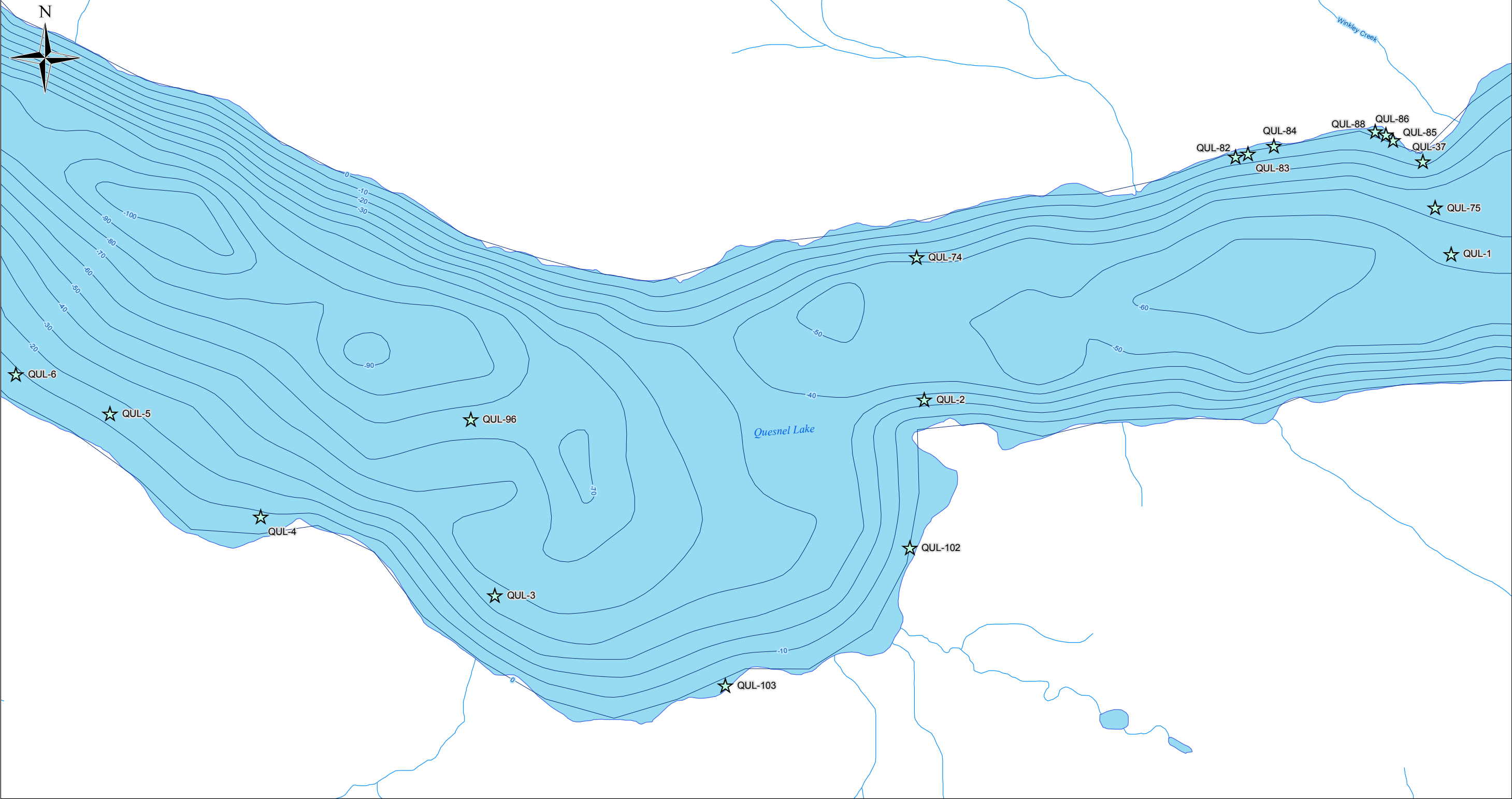
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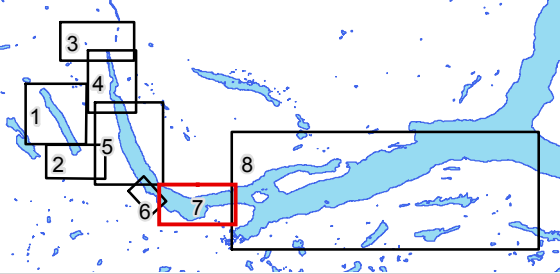
Figure 5: Current Monitoring Locations
Page 6 of 8

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LEGEND

- New Hazeltine Creek Channel (Approximate)
- Surface Water Sampling Locations
 - Hazeltine Creek (0)
 - Polley Lake (0)
 - Quesnel Lake (18)

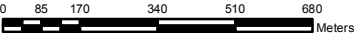


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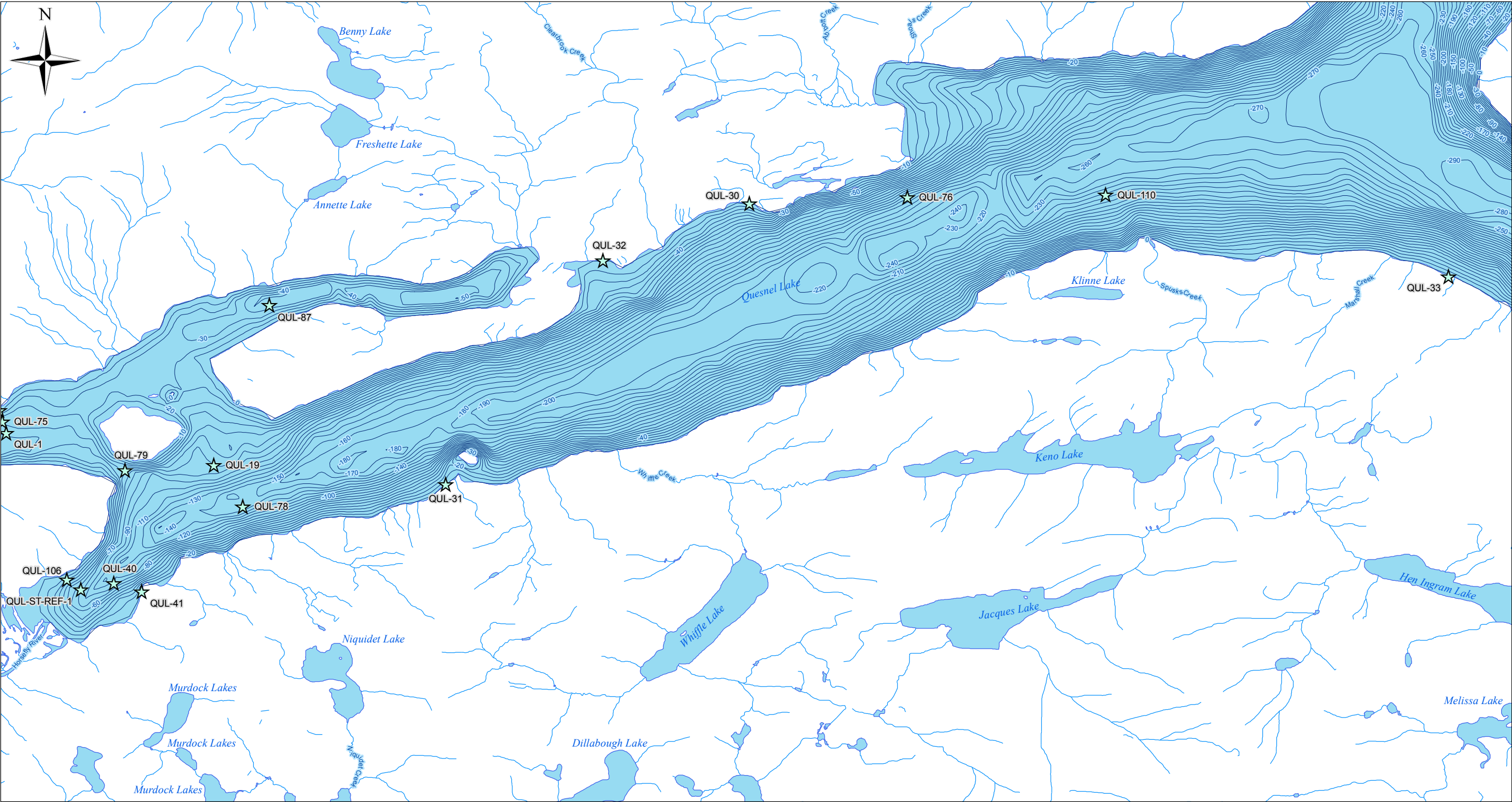
- Data provided by Mount Polley Mining Corporation
- Data downloaded from Data.Gov.BC.ca Data Distribution Service.
- Orthophoto collected by McElhanney on August 5th, 2014



CLIENT NAME: MPMC PROJECT LOCATION: Mount Polley Mine, British Columbia

Figure 5: Current Monitoring Locations
Page 7 of 8

BY: CJW	SCALE: 1:16,600	DATE: 2014/09/19	REF No: 621717-005-P7	REV: 0
CHK'D: GJ	PROJ COORD SYS: NAD 1983 UTM Zone 10N			

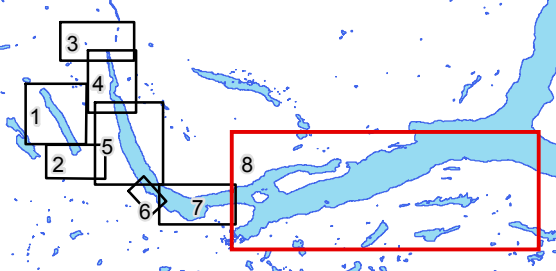


LEGEND

— New Hazeltnie Creek Channel (Approximate)

Surface Water Sampling Locations

- ★ Hazeltnie Creek (0)
- ★ Polley Lake (0)
- ★ Quesnel Lake (17)

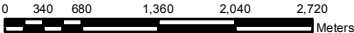


NOTES

1. Original in colour.
2. Numerical scale reflects full-size print. Print scaling will distort this scale, however scale bar will remain accurate.
3. Intended for illustration purposes, accuracy has not been verified for construction or navigation purposes.

REFERENCES

1. Data provided by Mount Polley Mining Corporation
2. Data downloaded from Data.Gov.BC.ca Data Distribution Service.
3. Orthophoto collected by McElhanney on August 5th, 2014



CLIENT NAME: MPMC	PROJECT LOCATION: Mount Polley Mine, British Columbia
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Figure 5: Current Monitoring Locations
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BY: CJW	SCALE: 1:66,800	DATE: 2014/09/19	REF No: 621717-005-P8	REV: 0
CHK'D: GJ	PROJ COORD SYS: NAD 1983 UTM Zone 10N			

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Physical Parameters									Microbiological Tests		Total Inorganics													
			Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Coliform (MPN/0.1L)	E. Coli (MPN/0.1L)	Total Kjeldahl Nitrogen (N) (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Bromide (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus ⁹ (mg/L)	
BC Guidelines																											
BCWQG Aquatic Life (AW) ^{b,c}			n/a	6.5-9.0	6.5-9.0	+/-1 Degree change from ambient	Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	n/a	5,680-18,400 ^d	32,800	60-120 ^d	32,800 ^f	600	988.2-1579 ^d	n/a	n/a	n/a	n/a	n/a	0.005-0.015	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a		Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	n/a	n/a	1,090-1,770 ^d	3,000	20-40 ^d	3,000 ^f	150	n/a	128-429 ^d	n/a	n/a	n/a	n/a	
BCWQG Drinking Water (DW) ^{b,c}			n/a	6.5-8.5	6.5-8.5	n/a ^l	Change of 1	n/a	n/a	n/a	n/a	n/a ^l	0/100ml	n/a	n/a	10,000	1,000	10,000 ^f	250	1,000	500	n/a	n/a	n/a	0.01		
Canadian Drinking Water Quality (DW) ^e			n/a	6.5-8.5	6.5-8.5	n/a ^l	n/a ^l	n/a	500	n/a	n/a	n/a ^l	0/100ml	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a	
QUR-1	QUR-1	2014 08 06	48.5	-	7.94	-	0.33	97.2	54	< 3	2.03	-	-	-	0.173	< 5	62.7	< 1	62.7	< 0.5	35	5.65	44.4	-	< 0.001	< 0.002 ^a	
	QUR-1X	2014 08 06	48.7	-	7.93	-	0.38	96.7	63	< 3	2.06	-	-	-	0.163	< 5	61.2	< 1	61.2	< 0.5	35	5.6	43.8	-	< 0.001	< 0.002 ^a	
	QA/QC RPD %		< 1	-	< 1	-	*	< 1	15	*	*	-	-	-	*	*	2	*	2	*	*	< 1	1	-	*	*	
	QUR-1(13:30)	2014 08 06	48.7	-	7.93	-	0.52	97.1	58	< 3	2.06	-	-	-	0.132	< 5	61.9	1	62.9	< 0.5	34	5.6	44.7	-	< 0.001	< 0.002 ^a	
	QUR-1	2014 08 07	47.6	-	7.93	-	0.53	96.9	62	< 3	1.86	-	-	0.115	0.174	< 5	77.3	< 1	-	< 0.5	33	5.71	44.5	-	< 0.001	< 0.002 ^a	
	QUR-1(11:33)	2014 08 08	50	-	7.98	-	0.5	102	63	< 3	1.95	-	-	-	0.162	< 5	104	< 1	-	< 0.5	35	5.76	47.5	-	< 0.001	< 0.002 ^a	
	QUR-1(15:43)	2014 08 08	50.8	7.80	7.93	9.9	0.45	103	66	< 3	1.85	-	-	-	0.171	< 5	116	< 1	-	< 0.5	35	5.9	47	-	< 0.001	< 0.002 ^a	
	QUR-1(10:08)	2014 08 09	52.8	7.34	7.95	9.6	0.4	104	73	< 3	2.09	-	-	-	0.184	< 5	114	< 1	-	< 0.5	35	5.89	46.3	-	< 0.001	< 0.002 ^a	
	QUR-1(14:30)	2014 08 09	51.6	7.54	7.95	10.9	0.3	103	74	< 3	2.09	-	-	-	0.178	< 5	110	< 1	-	< 0.5	34	5.83	45.8	-	< 0.001	< 0.002 ^a	
	QUR-1(10:19)	2014 08 10	49.8	7.76	7.87	12.9	0.63	99.9	67	< 3	2.07	-	-	-	0.172	< 5	93.1	< 1	-	< 0.5	34	5.77	46.1	-	< 0.001	< 0.002 ^a	
	QUR-1(17:45)	2014 08 10	50.3	7.91	7.92	13.6	0.31	100	68	< 3	2.09	-	-	-	0.176	< 5	92.5	< 1	-	< 0.5	34	5.77	46.6	-	< 0.001	< 0.002 ^a	
	QUR-1(11:18)	2014 08 11	49.3	-	7.88	-	0.45	99.8	70	< 3	2.03	-	-	-	0.154	< 5	73.9	< 1	-	< 0.5	34	5.75	45.1	-	< 0.001	0.0028	
	QUR-1(17:12)	2014 08 11	49.8	7.73	7.93	16.8	0.52	100	68	< 3	2.16	-	-	-	0.148	< 5	72.2	< 1	-	< 0.5	34	5.73	45.3	-	< 0.001	< 0.002 ^a	
	QUR-1(14:04)	2014 08 12	49.1	-	7.92	-	1.2	99.5	-	-	-	-	-	-	-	-	66.2	1	-	< 0.5	34	5.77	-	< 0.05	-	-	
	QUR-1(16:34)	2014 08 12	49.7	8.14	7.88	17.4	0.55	99.4	68	< 3	1.92	-	-	-	0.142	< 5	64.4	< 1	-	< 0.5	36	5.74	45.2	-	0.0013	< 0.002 ^a	
	QUR-1(20:00)	2014 08 12	49.5	-	7.92	-	0.75	99.6	-	-	-	-	-	-	-	-	64.7	< 1	-	< 0.5	37	5.78	-	< 0.05	-	-	
	QUR-1(04:00)	2014 08 13	50.1	-	7.9	-	0.37	99.1	-	-	-	-	-	-	-	-	62.1	< 1	-	< 0.5	36	5.77	-	< 0.05	-	-	
	QUR-1(12:00)	2014 08 13	49.4	-	7.91	-	1.22	99.1	-	-	-	-	-	-	-	-	57.5	< 1	-	< 0.5	34	5.76	-	< 0.05	-	-	
	QUR-1(13:18)	2014 08 13	48.4	8.20	7.93	18.5	0.25	99.1	68	< 3	1.92	-	-	-	0.139	< 5	56	1.2	-	< 0.5	36	5.75	45.3	-	0.0011	< 0.002 ^a	
	QUR-1(20:00)	2014 08 13	48.3	-	7.94	-	0.22	96.5	-	-	-	-	-	-	-	-	54.2	< 1	-	< 0.5	32	5.74	-	-	-	-	
	QUR-1(14:45)	2014 08 14	49.1	7.96	7.97	19.8	0.18	95.9	66	< 3	2.17	-	-	-	0.124	< 5	48.4	< 1	-	< 0.5	33	5.71	45.7	-	< 0.001	< 0.002 ^a	
	QUR-1X(14:50)	2014 08 14	46.8	-	7.98	-	0.14	96.4	59	< 3	2.03	-	-	-	0.124	< 5	48.8	< 1	-	< 0.5	33	5.72	45	-	< 0.001	< 0.002 ^a	
	QA/QC RPD %		5	*	0	*	*	1	11	*	7	-	-	-	*	*	1	*	-	*	*	< 1	< 1	-	*	*	
	QUR-1(04:00)	2014 08 14	49.2	-	7.94	-	0.14	96.5	-	-	-	-	-	-	-	-	53.6	< 1	-	< 0.5	32	5.73	-	-	-	-	
	QUR-1(12:00)	2014 08 14	48.4	-	7.97	-	0.18	97.1	-	-	-	-	-	-	-	-	50.2	< 1	-	< 0.5	32	5.73	-	-	-	-	
	QUR-1(20:00)	2014 08 14	49	-	7.89	-	0.42	99	-	-	-	-	-	-	-	-	50.7	< 1	-	< 0.5	34	5.75	-	-	-	-	
	QUR-1(04:00)	2014 08 15	49	-	7.97	-	0.28	100	-	-	-	-	-	-	-	-	56.4	< 1	-	< 0.5	36	5.75	-	-	-	-	
	QUR-1(12:00)	2014 08 15	48.7	-	8	-	0.32	101	-	-	-	-	-	-	-	-	61.2	< 1	-	< 0.5	37	5.78	-	-	-	-	
	QUR-1(13:28)	2014 08 15	48.1	8.19	7.94	17.5	0.28	99.6	61	< 3	1.96	-	-	-	0.133	< 5	61.4	< 1	-	< 0.5	36	5.74	44.6	-	< 0.001	0.0024	
	QUR-1(14:59)	2014 08 16	49.1	8.21	7.96	18.1	0.45	100	68	< 3	2.18	-	-	-	0.129	< 5	58.2	< 1	58.2	< 0.5	36	5.72	45.2	-	< 0.001	< 0.002 ^a	
	QUR-1(20:00)	2014 08 16	50.3	-	7.97	-	0.28	100	-	-	-	-	-	-	-	-	61.4	< 1	-	< 0.5	34	5.77	-	-	-	-	
	QUR-1	2014 08 17	48.4	8.19	7.96	18.0	0.43	99.2	69	< 3	2.08	-	-	-	0.137	< 5	57	< 1	-	< 0.5	36	5.72	45.2	-	< 0.001	< 0.002 ^a	
	QUR-1(20:00)	2014 08 17	49.5	-	7.97	-	0.29	99.5	-	-	-	-	-	-	-	-	61.6	< 1	-	< 0.5	33	5.78	-	-	-	-	
	QUR-1(04:00)	2014 08 18	49.5	-	7.96	-	0.4	99.8	-	-	-	-	-	-	-	-	63.4	< 1	-	< 0.5	33	5.79	-	-	-	-	
	QUR-1(09:18)	2014 08 18	48.6	8.11	7.99	17.3	0.54	99	69	< 3	2.5	-	-	-	0.153	5.3	62.6	< 1	-	< 0.5	34	5.76	44.7	-	< 0.001	< 0.002 ^a	
	QUR-1(12:00)	2014 08 18	50.1	-	7.92	-	0.33	98.8	-	-	-	-	-	-	-	-	62.3	< 1	-	< 0.5	34	5.68	-	-	-	-	
	QUR-1(20:00)	2014 08 18	51.4	-	7.93	-	0.36	98.9	-	-	-	-	-	-	-	-	57.7	< 1	-	< 0.5	35	5.66	-	-	-	-	
	QUR-1(04:00)	2014 08 19	50.6	-	7.93	-	0.41	99	-	-	-	-	-	-	-	-	58.5	< 1	-	< 0.5	34	5.68	-	-	-	-	
	QUR-1(12:00)	2014 08 19	49.5	-	7.93	-	0.42	98.9	-	-	-	-	-	-	-	-	60.8	< 1	-	< 0.5	34	5.7	-	-	-	-	
	QUR-1(13:27)	2014																									

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Metals																												
			Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)	
BC Guidelines																															
BCWQG Aquatic Life (AW) ^{b,c}			100 ^d	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			50 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
BCWQG Drinking Water (DW) ^{b,c}			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Canadian Drinking Water Quality (DW) ^e			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
QUR-1	QUR-1	2014 08 06	10.4	16.2	< 30	1.93	0.422	0.495	1.01	< 0.1	0.12	5.3	< 0.1	< 10	0.019	< 0.5	< 0.1	0.72	< 0.05	0.83	< 0.05	0.323	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.122	< 1	< 3	
	QUR-1X	2014 08 06	10.8	16.3	< 30	1.93	0.47	0.492	0.863	< 0.1	0.12	5.15	< 0.1	< 10	0.07	< 0.5	< 0.1	0.68	< 0.05	0.73	< 0.05	0.316	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.125	< 1	< 3	
	QA/QC RPD %		*	< 1	*	0	11	< 1	16	*	*	3	*	*	*	*	*	*	*	*	*	2	*	*	*	*	*	2	*	*	
	QUR-1	2014 08 06	9.7	16.3	< 30	1.94	0.362	0.468	1.04	< 0.1	0.12	5.24	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.7	< 0.05	0.314	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.122	< 1	< 3	
	QUR-1	2014 08 07	9.4	15.9	< 30	1.89	0.1	0.483	0.843	< 0.1	0.1	5.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.75	< 0.05	0.288	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.131	< 1	< 3	
	QUR-1(11:33)	2014 08 08	9.2	16.8	< 30	1.95	0.156	0.468	0.872	< 0.1	0.11	5.37	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.63	-	0.278	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.138	< 1	< 3	
	QUR-1(15:43)	2014 08 08	7.5	17.1	< 30	1.98	0.181	0.457	0.873	< 0.1	< 0.1	5.17	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.75	-	0.29	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.138	< 1	< 3	
	QUR-1(10:08)	2014 08 09	7.3	17.8	< 30	2.03	0.395	0.461	0.873	< 0.1	0.11	5.09	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.71	-	0.272	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.182	< 1	< 3	
	QUR-1(14:30)	2014 08 09	7.5	17.4	< 30	2	0.368	0.456	0.856	< 0.1	0.1	5.13	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.54	-	0.271	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.171	< 1	< 3	
	QUR-1(10:19)	2014 08 10	9.5	16.8	< 30	1.91	0.263	0.474	0.871	< 0.1	0.11	5.06	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.57	-	0.271	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.143	< 1	< 3	
	QUR-1(17:45)	2014 08 10	9.3	17	< 30	1.91	0.33	0.471	0.865	< 0.1	0.11	5.03	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.52	-	0.263	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.143	< 1	< 3	
	QUR-1(11:18)	2014 08 11	11.4	16.6	< 30	1.9	0.361	0.494	0.857	< 0.1	0.12	5.21	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	1.1	-	0.271	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.125	< 1	< 3	
	QUR-1(17:12)	2014 08 11	10.3	16.8	< 30	1.92	0.411	0.488	0.871	< 0.1	0.1	5.2	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	1.12	-	0.277	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.125	< 1	< 3	
	QUR-1(14:04)	2014 08 12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1(16:34)	2014 08 12	10.1	16.6	< 30	2.01	0.358	0.463	0.843	< 0.1	0.11	5.25	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.85	-	0.295	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.128	< 1	< 3	
	QUR-1(20:00)	2014 08 12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1(04:00)	2014 08 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1(12:00)	2014 08 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1(13:18)	2014 08 13	10.4	16.3	< 30	1.89	0.159	0.47	0.845	< 0.1	0.12	5.31	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.79	-	0.303	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.131	< 1	< 3	
	QUR-1(20:00)	2014 08 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1(14:45)	2014 08 14	9.4	16.4	< 30	1.94	0.202	0.469	0.858	< 0.1	0.12	5.29	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.62	-	0.318	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.138	< 1	< 3	
	QUR-1X(14:50)	2014 08 14	10.7	15.8	< 30	1.81	0.211	0.465	0.858	< 0.1	0.11	5.29	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.69	-	0.296	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.138	< 1	< 3	
	QA/QC RPD %		*	4	*	7	*	1	0	*	*	0	*	*	*	*	*	*	*	*	-	7	*	*	*	*	*	*	0	*	*
	QUR-1(04:00)	2014 08 14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1(12:00)	2014 08 14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1(20:00)	2014 08 14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1(04:00)	2014 08 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1(12:00)	2014 08 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1(13:28)	2014 08 15	9.6	16.1	< 30	1.9	0.355	0.469	0.846	< 0.1	0.13	5.55	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.56	-	0.294	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.123	< 1	< 3	
	QUR-1(14:59)	2014 08 16	9.4	16.5	< 30	1.94	0.315	0.458	0.812	< 0.1	0.12	5.19	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.65	-	0.28	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.127	< 1	< 3	
	QUR-1(20:00)	2014 08 16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1	2014 08 17	8.6	16.3	< 30	1.91	0.185	0.465	0.832	< 0.1	0.11	4.98	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.51	< 0.05	0.6	-	0.293	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.127	< 1	< 3	
	QUR-1(20:00)	2014 08 17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1(04:00)	2014 08 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1(09:18)	2014 08 18	9	16.4	< 30	1.88	0.14	0.466	0.825	< 0.1	< 0.1	5.16	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.69	-	0.302	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.134	< 1	< 3	
	QUR-1(12:00)	2014 08 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1(20:00)	2014 08 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1(04:00)	2014 08 19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1(12:00)	2014 08 19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												

Associated ALS files: L1498519, L1498533, L1499166, L1499203, L1499703, L1499707, L1504710, L1499926, L1499947, L1500619, L1501501, L1501518, L1502349, L1502364, L1502370, L1502388, L1503057, L1503061, L1503079, L1503910, L1503913, L1503928, L1503932, L1503933, L1503934, L1504180, L1504213, L1504220, L1504251, L1504261, L1504997, L1505918, L1506551, L1506571, L1506577, L1506586, L1500164, L1502370, L1506989, L1506996, L1507001, L1507291, L1507298, L1506992, L1507259, L1507347, L1507948, L1507972, L1507977, L1508637, L1508673, L1509507, L1508649, L1509597, L1510231, L1510268, L1510289, L1510741, L1510746, L1511190, L1511225, L1511232, L1511817

All terms defined within the body of SNC-Lavalin's report (available upon request).

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED	Concentration greater than RCWQC Aquatic Life (AM) guideline
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SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.

<u>BOLD</u>	Concentration greater than BCWQG Drinking Water (DW) guideline.
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SHADED Concentration greater than BCWOG Aquatic Life (30day) (AW) guideline

Concentration greater than BOWQS Aquatic Life (bony) (FW) guideline.

^a Laboratory detection limit out of range.

^b British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.

^c A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.

^d Guideline varies with pH, and/or either Temperature or Hardness or chloride

^e Health Canada Drinking Water Guidelines, 2012.

^f Guideline for Nitrate applied.

^g The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.

^h Calculated based on an individual sample basis, not average of 30 day results.

ⁱ Secondary chronic or chronic value, not 30 day mean.

^j Guideline not applicable for site situation.

on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																														
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silicon (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Tin (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																																	
BCWQG Aquatic Life (AW) ^{b,c}			n/a	20	5	5,000	n/a	n/a	1,200	0.016-0.055 ^d	n/a	1 (Cr(+6))	110	6.0-19.3 ^d	1,000	27.3-177.4 ^d	870	n/a	1001-2568 ^d	Methyl mercury analysis in progress	2,000	25-150 ^d	373,000-432,000	2	n/a	0.1-3.0 ^d	n/a	0.3	n/a	2,000	300	6	33-103.5 ^d
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a	1,000	5.3 ^j	n/a	n/a	n/a	n/a	4	2-7.4 ^d	n/a	4.4-10.2 ^d	14 ⁱ	n/a	791.1-1415 ^d	1,000		n/a	n/a	n/a	n/a	0.05-1.5 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.5-78 ^d
BCWQG Drinking Water (DW) ^{b,c}			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	5,000	
Canadian Drinking Water Quality (DW) ^e			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	n/a	1,000	300	10	n/a	n/a	50	1	n/a	n/a	10	n/a	n/a	200,000	n/a	n/a	n/a	20	n/a	5,000	
QUR-1	QUR-1	2014 08 06	19.6	< 0.1	0.13	5.62	< 0.1	< 0.5	< 10	< 0.01	16,700	< 0.5	< 0.1	0.66	< 30	< 0.05	0.73	2,030	1.42	< 0.05	0.331	< 0.5	493	< 0.5	1,720	< 0.01	902	< 0.01	< 0.1	< 10	0.136	< 1	< 3
	QUR-1X	2014 08 06	19.7	< 0.1	0.14	5.61	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	0.65	< 30	< 0.05	0.7	1,990	1.38	< 0.05	0.323	< 0.5	475	< 0.5	1,680	< 0.01	874	< 0.01	< 0.1	< 10	0.135	< 1	< 3
	QA/QC RPD %		< 1	*	*	< 1	*	*	*	*	1	*	*	*	*	*	*	2	*	*	2	*	4	*	2	*	3	*	*	*	< 1	*	*
	QUR-1	2014 08 06	22.1	< 0.1	0.14	5.35	< 0.1	< 0.5	< 10	< 0.01	16,300	< 0.5	< 0.1	0.65	< 30	< 0.05	0.71	1,980	1.41	< 0.05	0.316	< 0.5	476	< 0.5	1,670	< 0.01	867	< 0.01	< 0.1	< 10	0.127	< 1	< 3
	QUR-1	2014 08 07	23.8	< 0.1	0.13	5.34	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	0.68	< 30	< 0.05	0.77	1,970	1.35	< 0.05	0.305	< 0.5	484	< 0.5	1,650	< 0.01	859	< 0.01	< 0.1	< 10	0.135	< 1	< 3
	QUR-1(11:33)	2014 08 08	24.2	< 0.1	0.13	5.42	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	0.64	48	< 0.05	0.51	2,010	1.62	< 0.05	0.283	< 0.5	474	< 0.5	1,670	< 0.01	888	< 0.01	< 0.1	< 10	0.14	< 1	< 3
	QUR-1(15:43)	2014 08 08	20.4	< 0.1	0.13	5.26	< 0.1	< 0.5	< 10	< 0.01	17,100	< 0.5	< 0.1	0.62	< 30	< 0.05	0.55	2,030	1.27	< 0.05	0.281	< 0.5	470	< 0.5	1,670	< 0.01	885	< 0.01	< 0.1	< 10	0.142	< 1	< 3
	QUR-1(10:08)	2014 08 09	27.8	< 0.1	0.12	5.34	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	0.72	33	< 0.05	0.71	2,040	1.73	< 0.05	0.295	< 0.5	472	< 0.5	1,680	< 0.01	872	< 0.01	< 0.1	< 10	0.187	< 1	< 3
	QUR-1(14:30)	2014 08 09	28.2	< 0.1	0.14	5.31	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	0.68	31	< 0.05	0.69	2,030	1.59	< 0.05	0.297	< 0.5	466	< 0.5	1,660	< 0.01	861	< 0.01	< 0.1	< 10	0.182	< 1	< 3
	QUR-1(10:19)	2014 08 10	21.7	< 0.1	0.12	5.06	< 0.1	< 0.5	< 10	< 0.01	16,600	< 0.5	< 0.1	0.65	< 30	< 0.05	< 0.5	1,930	1.15	< 0.05	0.283	< 0.5	480	< 0.5	1,620	< 0.01	893	< 0.01	< 0.1	< 10	0.139	< 1	< 3
	QUR-1(17:45)	2014 08 10	19.5	< 0.1	0.12	5.11	< 0.1	< 0.5	< 10	< 0.01	16,900	< 0.5	< 0.1	0.61	< 30	< 0.05	0.54	1,940	1.2	< 0.05	0.277	< 0.5	491	< 0.5	1,640	< 0.01	899	< 0.01	< 0.1	< 10	0.145	< 1	< 3
	QUR-1(11:18)	2014 08 11	23.8	< 0.1	0.14	5.28	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	0.64	< 30	< 0.05	0.98	1,900	1.39	< 0.05	0.293	< 0.5	487	< 0.5	1,550	< 0.01	873	< 0.01	< 0.1	< 10	0.141	< 1	< 3
	QUR-1(17:12)	2014 08 11	23.6	< 0.1	0.13	5.41	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	0.66	< 30	< 0.05	0.82	1,910	1.37	< 0.05	0.293	< 0.5	490	< 0.5	1,560	< 0.01	859	< 0.01	< 0.1	< 10	0.13	< 1	< 3
	QUR-1(14:04)	2014 08 12	16.6	< 0.1	0.14	5.25	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	0.68	< 30	< 0.05	0.85	1,990	1.17	-	0.304	< 0.5	473	< 0.5	1,620	< 0.01	866	< 0.01	< 0.1	< 10	0.129	< 1	9.4
	QUR-1(16:34)	2014 08 12	20.4	< 0.1	0.13	5.41	< 0.1	< 0.5	< 10	< 0.01	16,200	< 0.5	< 0.1	0.7	< 30	< 0.05	0.81	1,970	1.18	< 0.05	0.317	< 0.5	475	< 0.5	1,600	< 0.01	857	< 0.01	< 0.1	< 10	0.132	< 1	< 3
	QUR-1(20:00)	2014 08 12	15.8	< 0.1	0.14	5.26	< 0.1	< 0.5	< 10	< 0.01	16,600	< 0.5	< 0.1	0.63	< 30	< 0.05	0.84	1,960	1.15	-	0.311	< 0.5	469	< 0.5	1,590	< 0.01	863	< 0.01	< 0.1	< 10	0.135	< 1	8
	QUR-1(04:00)	2014 08 13	25.3	< 0.1	0.14	5.49	< 0.1	< 0.5	< 10	< 0.01	16,800	< 0.5	< 0.1	0.68	< 30	< 0.05	0.83	1,980	1.47	-	0.307	< 0.5	482	< 0.5	1,610	< 0.01	881	< 0.01	< 0.1	< 10	0.134	< 1	6
	QUR-1(12:00)	2014 08 13	18.6	< 0.1	0.15	5.41	< 0.1	< 0.5	< 10	< 0.01	16,600	< 0.5	< 0.1	0.64	< 30	< 0.05	0.82	1,950	1.38	-	0.312	< 0.5	466	< 0.5	1,600	< 0.01	858	< 0.01	< 0.1	< 10	0.131	< 1	6.6
	QUR-1(13:18)	2014 08 13	18.9	< 0.1	0.14	5.43	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	0.63	< 30	< 0.05	0.84	1,930	1.22	< 0.05	0.316	< 0.5	480	< 0.5	1,580	< 0.01	863	< 0.01	< 0.1	< 10	0.134	< 1	< 3
	QUR-1(20:00)	2014 08 13	15.6	< 0.1	0.16	5.3	< 0.1	< 0.5	< 10	< 0.01	16,200	0.62	< 0.1	0.62	< 30	< 0.05	0.74	1,930	1.32	-	0.331	0.58	465	< 0.5	1,560	< 0.01	846	< 0.01	< 0.1	< 10	0.131	< 1	8
	QUR-1(14:45)	2014 08 14	16.4	< 0.1	0.13	5.39	< 0.1	< 0.5	< 10	< 0.01	16,200	< 0.5	< 0.1	0.6	< 30	< 0.05	0.67	1,910	1.38	-	0.316	< 0.5	462	< 0.5	1,570	< 0.01	843	< 0.01	< 0.1	< 10	0.135	< 1	< 3
	QUR-1X(14:50)	2014 08 14	18.7	< 0.1	0.15	5.44	< 0.1	< 0.5	< 10	< 0.01	16,000	< 0.5	< 0.1	0.64	< 30	< 0.05	0.74	1,860	1.41	-													

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Physical Parameters									Microbiological Tests		Total Inorganics													
			Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Coliform (MPN/0.1L)	E. Coli (MPN/0.1L)	Total Kjeldahl Nitrogen (N) (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Bromide (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus ⁹ (mg/L)	
BC Guidelines																											
BCWQG Aquatic Life (AW) ^{b,c}			n/a	6.5-9.0	6.5-9.0	+/-1 Degree change from ambient	Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	n/a	5,680-18,400 ^d	32,800	60-120 ^d	32,800 ^f	600	988.2-1579 ^d	n/a	n/a	n/a	n/a	n/a	n/a	0.005-0.015
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a		Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	n/a	n/a	1,090-1,770 ^d	3,000	20-40 ^d	3,000 ^f	150	n/a	128-429 ^d	n/a	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW) ^{b,c}			n/a	6.5-8.5	6.5-8.5	n/a ⁱ	Change of 1	n/a	n/a	n/a	n/a	n/a	0/100ml	n/a	n/a	n/a	10,000	1,000	10,000 ^f	250	1,000	500	n/a	n/a	n/a	0.01	
Canadian Drinking Water Quality (DW) ^e			n/a	6.5-8.5	6.5-8.5	n/a ⁱ	n/a ^j	n/a	500	n/a	n/a	n/a ^j	0/100ml	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a	
QUR-1	QUR-1	2014 08 23	51.2	8.08	7.94	14.7	1.05	99.7	70	< 3	2.03	-	-	-	0.151	< 5	80.7	< 1	-	< 0.5	34	5.86	45.5	-	< 0.001	< 0.002 ^a	
	QUR-1	2014 08 24	52.6	7.73	7.89	14.4	0.67	102	61	< 3	< 0.5	-	-	-	0.176	< 5	85.1	< 1	-	< 0.5	36	5.82	45.7	-	< 0.001	< 0.002 ^a	
	QUR-1-4:00	2014 08 24	52	-	7.9	-	0.66	102	-	< 3	-	-	-	-	-	-	77	< 1	-	< 0.5	35	5.85	-	-	-	-	
	QUR-1-12:00	2014 08 24	50.9	-	7.93	-	0.81	103	-	< 3	-	-	-	-	-	-	83.4	< 1	-	< 0.5	35	5.87	-	-	-	-	
	QUR-1-16:00	2014 08 24	51.1	-	7.96	-	1.1	103	-	< 3	-	-	-	-	-	-	90.7	< 1	-	< 0.5	35	6.02	-	-	-	-	
	QUR-1-20:00	2014 08 24	51.3	-	7.86	-	0.66	102	-	< 3	-	-	-	-	-	-	86.7	< 1	-	< 0.5	33	5.85	-	-	-	-	
	QUR-1	2014 08 25	51.3	-	7.98	-	1.06	104	-	< 3	-	-	-	-	-	-	97.8	< 1	-	< 0.5	35	6.04	-	-	-	-	
	QUR-1-08:00	2014 08 25	51.7	-	7.99	-	1.14	103	-	< 3	-	-	-	-	-	-	85.4	< 1	-	< 0.5	35	6.02	-	-	-	-	
	QUR-1(11:21)	2014 08 25	51	-	7.94	-	1.28	102	72	< 3	2.14	-	-	-	0.153	< 5	81.7	< 1	-	< 0.5	35	5.94	46	-	< 0.001	< 0.002 ^a	
	QUR-1-16:00	2014 08 25	52.2	8.08	8.01	14.6	1.03	103	-	< 3	-	-	-	-	-	-	79.8	< 1	-	< 0.5	35	6	-	< 0.05	-	-	
	QUR-1	2014 08 26	51.1	8.17	8	16.4	0.84	102	63	< 3	2.14	-	-	-	0.143	< 5	64.6	< 1	-	< 0.5	35	5.91	45.9	-	< 0.001	< 0.002 ^a	
	QUR-1X	2014 08 26	51.5	8.17	7.98	16.4	0.75	102	63	< 3	2.17	-	-	-	0.148	< 5	65.1	< 1	-	< 0.5	35	5.91	45.7	-	< 0.001	< 0.002 ^a	
	QA/QC RPD %		< 1	0	< 1	0	11	0	0	*	*	-	-	-	*	*	< 1	*	-	*	*	0	< 1	-	*	*	
	QUR-1-00:00	2014 08 26	51.6	-	7.97	-	0.87	103	-	< 3	-	-	-	-	-	-	74.5	< 1	-	< 0.5	35	5.99	-	< 0.05	-	-	
	QUR-1-8:00	2014 08 26	50.6	-	8.02	-	0.82	103	-	< 3	-	-	-	-	-	-	67.2	< 1	-	< 0.5	35	5.94	-	< 0.05	-	-	
	QUR-1-16:00	2014 08 26	49	-	7.99	-	0.76	102	-	< 3	-	-	-	-	-	-	64.9	< 1	-	< 0.5	33	5.97	-	-	-	-	
	QUR-1	2014 08 27	50.9	8.19	8	17.2	0.8	102	73	< 3	2.02	-	-	-	0.132	< 5	60	< 1	-	< 0.5	34	5.93	45.4	-	< 0.001	< 0.002 ^a	
	QUR-1-00:00	2014 08 27	47.4	-	7.97	-	1.23	102	-	< 3	-	-	-	-	-	-	62.9	< 1	-	< 0.5	35	5.95	-	-	-	-	
	QUR-1-08:00	2014 08 27	50.1	-	8	-	0.76	101	-	< 3	-	-	-	-	-	-	60.7	< 1	-	< 0.5	34	5.92	-	-	-	-	
	QUR-1-16:00	2014 08 27	-	-	7.97	-	0.55	97.8	-	< 3	-	-	-	-	-	-	56.9	< 1	-	< 0.5	33	5.72	-	-	-	-	
	QUR-1	2014 08 28	49	-	7.93	-	0.66	100	67	< 3	2.02	-	-	-	0.131	< 5	54.8	< 1	-	< 0.5	35	5.86	44.4	-	< 0.001	0.0021	
	QUR-1-00:00	2014 08 28	-	-	7.96	-	0.55	101	-	< 3	-	-	-	-	-	-	57.6	< 1	-	< 0.5	35	5.93	-	-	-	-	
	QUR-1-08:00	2014 08 28	-	-	7.97	-	0.89	101	-	< 3	-	-	-	-	-	-	55.6	1.1	-	< 0.5	35	5.91	-	-	-	-	
	QUR-1-16:00	2014 08 28	-	-	7.94	-	0.51	99.7	-	< 3	-	-	-	-	-	-	54.9	< 1	-	< 0.5	35	5.88	-	-	-	-	
	QUR-1	2014 08 29	49.9	8.17	7.95	17.6	0.67	98.5	68	< 3	1.82	-	-	-	0.143	< 5	53.6	< 1	-	< 0.5	34	5.8	45.2	-	< 0.001	< 0.002 ^a	
	QUR-1-0:00	2014 08 29	-	-	7.88	-	0.62	98.9	-	< 3	-	-	-	-	-	-	53.7	< 1	-	< 0.5	34	5.79	-	-	-	-	
	QUR-1-8:00	2014 08 29	-	-	7.94	-	0.72	98.9	-	< 3	-	-	-	-	-	-	54.6	< 1	-	< 0.5	34	5.85	-	-	-	-	
	QUR-1-16:00	2014 08 29	51.9	-	7.89	-	0.43	98.6	-	< 3	-	-	-	-	-	-	55.9	< 1	-	< 0.5	33	5.83	-	-	-	-	
	QUR-1	2014 08 30	50	7.23	7.7	17.45	0.48	97.9	68	< 3	1.93	-	-	-	0.136	< 5	53.1	< 1	-	< 0.5	33	5.79	45.1	-	< 0.001	< 0.002 ^a	
	QUR-1-0:00	2014 08 30	50.4	-	7.89	-	0.37	98.9	-	< 3	-	-	-	-	-	-	56	< 1	-	< 0.5	33	5.84	-	-	-	-	
	QUR-1-8:00	2014 08 30	51.3	-	7.8	-	0.62	98.5	-	< 3	-	-	-	-	-	-	54	< 1	-	< 0.5	34	5.84	-	-	-	-	
	QUR-1-16:00	2014 08 30	50.7	-	7.92	-	0.61	102	-	< 3	-	-	-	-	-	-	56.2	< 1	-	< 0.5	33	5.89	-	-	-	-	
	QUR-1	2014 08 31	49.9	8.24	7.96	17.5	0.5	101	56	< 3	1.88	-	-	-	0.133	< 5	50.8	< 1	-	< 0.5	33	5.82	45.7	-	< 0.001	< 0.002 ^a	
	QUR-1-0:00	2014 08 31	50.8	-	7.92	-	0.36	102	-	< 3	-	-	-	-	-	-	54.4	< 1	-	< 0.5	33	5.82	-	-	-	-	
	QUR-1-8:00	2014 08 31	50.6	-	7.94	-	0.46	102	-	< 3	-	-	-	-	-	-	53	< 1	-	< 0.5	33	5.83	-	-	-	-	
	QUR-1-16:00	2014 08 31	51	-	-	-	0.34	-	-	< 3	-	-	-	-	-	-	50.5	< 1	-	< 0.5	33	5.82	-	-	-	-	
	QUR-1	2014 09 01	50.7	8.26	7.8	17.7	0.69	98.5	64	< 3	1.87	-	-	-	0.135	< 5	50.2	1.1	-	< 0.5	32	5.81	44.6	-	< 0.001	< 0.002 ^a	
	QUR-1-00:00	2014 09 01	50.3	-	-	-	0.37	-	-	< 3	-	-	-	-	-	-	52.2	< 1	-	< 0.5	33	5.83	-	-	-	-	
	QUR-1-08:00	2014 09 01	50	-	-	-	0.38	-	-	< 3	-	-	-	-	-	-	48.8	< 1	-	< 0.5	33	5.82	-	-	-	-	
	QUR-1-16:00	2014 09 01	48.1	-	7.95	-	0.31	102	-	-	-	-	-	-	-	-	46.6	< 1	-	< 0.5	32	5.55	-	-	-	-	
	QUR-1-00:00	2014 09 02	50.6	-	7.95	-	0.38	102	-	-	-	-	-	-	-	-	49.8	< 1	-	< 0.5	31	5.83	-	-	-	-	
	QUR-1-08:00	2014 09 02	52.2	-	7.98	-	0.39	102	-	-	-	-	-	-	-	-	48.5	< 1	-	< 0.5	33	5.83	-	-	-	-	
	QUR-1-14:10	2014 09 02	51	8.24	7.99	17.67	0.4	101	62	< 3	1.83	-	-	-	0.126	5.2	48.1	< 1	-	< 0.5	33	5.8	45.7	-	< 0.001	< 0.002 ^a	
	QUR-1-16:00	2014 09 02	50.6																								

Associated ALS files: L1498519, L1498533, L1499166, L1499203, L1499703, L1499707, L1499710, L1499926, L1499947, L1500619, L1501501, L1501518, L1502349, L1502364, L1502370, L1502388, L1503057, L1503061, L1503079, L1503

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Metals																												
			Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)	
BC Guidelines																															
BCWQG Aquatic Life (AW) ^{b,c}			100 ^d	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			50 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
BCWQG Drinking Water (DW) ^{b,c}			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Canadian Drinking Water Quality (DW) ^e			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
QUR-1	QUR-1	2014 08 23	10	17.3	< 30	1.95	0.597	0.47	0.866	< 0.1	0.12	5.5	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.88	< 0.05	0.82	-	0.28	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.139	< 1	< 3	
	QUR-1	2014 08 24	9	17.7	< 30	2	0.638	0.474	0.86	< 0.1	0.12	5.52	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.95	< 0.05	0.87	-	0.274	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.138	< 1	< 3	
	QUR-1-4:00	2014 08 24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	QUR-1-12:00	2014 08 24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	QUR-1-16:00	2014 08 24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	QUR-1-20:00	2014 08 24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	QUR-1	2014 08 25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	QUR-1-08:00	2014 08 25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	QUR-1	2014 08 25	9	17.2	< 30	1.93	0.845	0.458	0.844	< 0.1	0.1	5.8	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.06	< 0.05	< 0.5	-	0.29	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.139	< 1	< 3	
	QUR-1-16:00	2014 08 25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	QUR-1	2014 08 26	10.6	17.2	< 30	1.95	0.702	0.459	0.832	< 0.1	0.1	5.49	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.97	< 0.05	0.62	-	0.287	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.13	< 1	< 3	
	QUR-1X	2014 08 26	9.9	17.4	< 30	1.97	0.753	0.471	0.858	< 0.1	0.11	5.59	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.98	< 0.05	0.58	-	0.288	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.131	< 1	< 3	
	QA/QC RPD %		*	1	*	1	7	3	3	*	*	2	*	*	*	*	*	*	*	*	-	< 1	*	*	*	*	*	*	< 1	*	*
	QUR-1-00:00	2014 08 26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1-8:00	2014 08 26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1-16:00	2014 08 26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1	2014 08 27	10.3	17.2	< 30	1.96	0.662	0.464	0.881	< 0.1	0.13	5.52	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.93	< 0.05	0.67	-	0.286	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.134	< 1	< 3	
	QUR-1-00:00	2014 08 27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1-08:00	2014 08 27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1-16:00	2014 08 27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1	2014 08 28	9.7	16.5	< 30	1.88	0.504	0.471	0.875	< 0.1	0.11	5.45	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.74	< 0.05	0.55	-	0.288	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.138	< 1	< 3	
	QUR-1-00:00	2014 08 28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1-08:00	2014 08 28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1-16:00	2014 08 29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1	2014 08 29	9.7	16.8	< 30	1.94	0.156	0.455	0.831	< 0.1	0.17	5.55	< 0.1	< 10	0.03	< 0.5	< 0.1	0.84	< 0.05	0.53	-	0.273	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.134	< 1	< 3	
	QUR-1-0:00	2014 08 29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1-8:00	2014 08 29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1-16:00	2014 08 29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1	2014 08 30	9	16.9	< 30	1.92	0.495	0.467	0.843	< 0.1	0.12	5.34	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.84	< 0.05	0.65	-	0.275	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.13	< 1	< 3	
	QUR-1-0:00	2014 08 30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1-8:00	2014 08 30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1-16:00	2014 08 30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	QUR-1	2014 08 31	9.8	16.8	< 30	1.94	0.398	0.468	0.845	< 0.1	0.12	5.31	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.69	< 0.05	0.82	-	0.279	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.134	< 1	< 3	
QUR-1-0:00	2014 08 31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
QUR-1-8:00	2014 08 31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
QUR-1-16:00	2014 08 31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
QUR-1	2014 09 01	8.9	17.1	< 30	1.97	0.375	0.474	0.843	< 0.1	0.13	5.22	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.62	< 0.05	0.62	-	0.288	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.129	< 1	< 3		
QUR-1-00:00	2014 09 01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
QUR-1-08:00	2014 09 01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
QUR-1-16:00	2014 09 01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
QUR-1-00:																															

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																														
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silicon (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Tin (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																																	
BCWQG Aquatic Life (AW) ^{b,c}			n/a	20	5	5,000	n/a	n/a	1,200	0.016-0.055 ^d	n/a	1 (Cr(+6))	110	6.0-19.3 ^d	1,000	27.3-177.4 ^d	870	n/a	1001-2568 ^d	Methyl mercury analysis in progress	2,000	25-150 ^d	373,000-432,000	2	n/a	0.1-3.0 ^d	n/a	0.3	n/a	2,000	300	6	33-103.5 ^d
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a	1,000	5.3 ⁱ	n/a	n/a	n/a	n/a	4	2-7.4 ^d	n/a	4.4-10.2 ^d	14 ⁱ	n/a	791.1-1415 ^d	1,000		n/a	n/a	n/a	n/a	0.05-1.5 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.5-79 ^d
BCWQG Drinking Water (DW) ^{b,c}			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a	5,000
Canadian Drinking Water Quality (DW) ^e			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	1,000	300	10	n/a	n/a	50	1	n/a	n/a	n/a	10	n/a	n/a	200,000	n/a	n/a	n/a	20	n/a	n/a	5,000
QUR-1	QUR-1	2014 08 23	63.2	< 0.1	0.16	6.16	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	2.06	63	< 0.05	0.78	2,010	3.12	< 0.05	0.294	< 0.5	487	< 0.5	1,680	< 0.01	873	< 0.01	< 0.1	< 10	0.148	< 1	< 3
	QUR-1	2014 08 24	49	< 0.1	0.13	6.16	< 0.1	< 0.5	< 10	< 0.01	17,500	< 0.5	< 0.1	1.98	41	< 0.05	0.87	1,980	2.31	-	0.311	< 0.5	488	< 0.5	1,680	< 0.01	867	< 0.01	< 0.1	< 10	0.151	< 1	< 3
	QUR-1-4:00	2014 08 24	27.3	< 0.1	0.13	5.73	< 0.1	< 0.5	< 10	< 0.01	17,600	< 0.5	< 0.1	1.55	< 30	< 0.05	0.85	1,980	1.59	-	0.308	< 0.5	477	< 0.5	1,650	< 0.01	872	< 0.01	< 0.1	< 10	0.146	< 1	3
	QUR-1-12:00	2014 08 24	35.6	< 0.1	0.13	5.68	< 0.1	< 0.5	< 10	< 0.01	17,200	0.6	< 0.1	1.78	35	< 0.05	0.71	1,930	1.99	-	0.331	< 0.5	471	< 0.5	1,640	< 0.01	866	< 0.01	< 0.1	< 10	0.143	< 1	3.2
	QUR-1-16:00	2014 08 24	54.8	< 0.1	0.17	6.17	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	1.93	50	< 0.05	< 0.5	1,960	2.5	-	0.299	< 0.5	470	< 0.5	1,680	< 0.01	855	< 0.01	< 0.1	< 10	0.148	< 1	3.1
	QUR-1-20:00	2014 08 24	39.5	< 0.1	0.13	6	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	1.85	34	< 0.05	0.82	1,970	2.37	-	0.301	< 0.5	485	< 0.5	1,660	< 0.01	882	< 0.01	< 0.1	< 10	0.143	< 1	10.3
	QUR-1	2014 08 25	63.9	< 0.1	0.17	6.31	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	2.31	53	< 0.05	< 0.5	1,960	2.88	-	0.284	< 0.5	469	< 0.5	1,690	< 0.01	848	< 0.01	< 0.1	< 10	0.147	< 1	3.4
	QUR-1-08:00	2014 08 25	65.2	< 0.1	0.19	6.47	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	2.16	63	< 0.05	< 0.5	1,980	3.07	-	0.315	< 0.5	479	< 0.5	1,680	< 0.01	863	< 0.01	< 0.1	< 10	0.149	< 1	< 3
	QUR-1	2014 08 25	68.4	< 0.1	0.17	6.47	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	2.41	62	< 0.05	< 0.5	1,940	2.86	-	0.296	< 0.5	478	< 0.5	1,660	< 0.01	854	< 0.01	< 0.1	< 10	0.144	< 1	< 3
	QUR-1-16:00	2014 08 25	47.6	< 0.1	0.16	6	< 0.1	< 0.5	< 10	< 0.01	17,600	< 0.5	< 0.1	4.8	36	0.117	0.57	1,990	2.32	-	0.33	< 0.5	478	< 0.5	1,640	< 0.01	891	< 0.01	< 0.1	< 10	0.144	< 1	4.6
	QUR-1	2014 08 26	47.1	< 0.1	0.13	6.24	< 0.1	< 0.5	< 10	< 0.01	17,100	< 0.5	< 0.1	1.91	40	< 0.05	0.51	1,970	2.29	< 0.01	0.303	< 0.5	480	< 0.5	1,610	< 0.01	868	< 0.01	< 0.1	< 10	0.143	< 1	< 3
	QUR-1X	2014 08 26	46.5	< 0.1	0.13	6.05	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	1.89	39	< 0.05	0.6	1,950	2.26	< 0.01	0.32	< 0.5	468	< 0.5	1,590	< 0.01	860	< 0.01	< 0.1	< 10	0.137	< 1	< 3
	QA/QC RPD %		1	*	*	3	*	*	*	*	< 1	*	*	*	*	*	*	1	*	*	6	*	3	*	1	*	< 1	*	*	*	4	*	*
	QUR-1-00:00	2014 08 26	52.4	< 0.1	0.13	6.17	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	2.12	38	< 0.05	0.55	1,970	2.23	-	0.343	< 0.5	475	< 0.5	1,640	< 0.01	893	< 0.01	< 0.1	< 10	0.142	< 1	< 3
	QUR-1-8:00	2014 08 26	41.2	< 0.1	0.15	5.85	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	1.86	31	< 0.05	0.57	1,940	2.08	-	0.396	< 0.5	469	< 0.5	1,610	< 0.01	873	< 0.01	< 0.1	< 10	0.145	< 1	< 3
	QUR-1-16:00	2014 08 26	27.8	< 0.1	0.14	5.83	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	1.47	< 30	< 0.05	0.67	1,900	1.7	-	0.316	< 0.5	479	< 0.5	1,520	< 0.01	904	< 0.01	< 0.1	< 10	0.146	< 1	4.2
	QUR-1	2014 08 27	38.9	< 0.1	0.14	6.03	< 0.1	< 0.5	< 10	< 0.01	16,800	< 0.5	< 0.1	1.84	32	< 0.05	0.64	1,940	2.29	< 0.01	0.318	< 0.5	483	< 0.5	1,560	< 0.01	902	< 0.01	< 0.1	< 10	0.143	< 1	< 3
	QUR-1-00:00	2014 08 27	29.6	< 0.1	0.13	5.8	< 0.1	< 0.5	< 10	< 0.01	15,900	< 0.5	< 0.1	1.53	< 30	< 0.05	0.65	1,840	1.66	-	0.314	< 0.5	461	< 0.5	1,480	< 0.01	886	< 0.01	< 0.1	< 10	0.142	< 1	3.1
	QUR-1-08:00	2014 08 27	32.7	< 0.1	0.15	6	< 0.1	< 0.5	< 10	< 0.01	16,900	< 0.5	< 0.1	1.63	< 30	< 0.05	0.65	1,940	1.73	-	0.304	< 0.5	465	< 0.5	1,570	< 0.01	900	< 0.01	< 0.1	< 10	0.143	< 1	3
	QUR-1-16:00	2014 08 27	42.5	< 0.1	0.14	5.84	< 0.1	< 0.5	< 10	< 0.01	16,700	< 0.5	< 0.1	1.47	34	< 0.05	0.62	1,930	2.11	-	0.305	< 0.5	478	< 0.5	1,580	< 0.01	880	< 0.01	< 0.1	< 10	0.136	< 1	3.2
	QUR-1	2014 08 28	40.5	< 0.1	0.16	5.91	< 0.1	< 0.5	< 10	< 0.01	16,900	< 0.5	< 0.1	1.37	42	< 0.05	0.62	1,960	2.1	< 0.01	0.286	< 0.5	487	< 0.5	1,580	< 0.01	890	< 0.01	< 0.1	< 10	0.144	< 1	< 3
	QUR-1-00:00	2014 08 28	41.7	< 0.1	0.14	5.94	< 0.1	< 0.5	< 10	0.154	17,000	< 0.5	< 0.1	1.58	40	< 0.05	0.6	1,970	2.35	-	0.303	< 0.5	490	< 0.5	1,590	< 0.01	896	< 0.01	< 0.1	< 10	0.141	< 1	< 3
	QUR-1-08:00	2014 08 28	29.1	< 0.1	0.14	5.81	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	1.24	< 30	< 0.05	0.59	1,980	1.48	-	0.303	< 0.5	483	< 0.5	1,590	<							

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Physical Parameters									Microbiological Tests		Total Inorganics													
			Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Coliform (MPN/0.1L)	E. Coli (MPN/0.1L)	Total Kjeldahl Nitrogen (N) (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Bromide (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus ⁹ (mg/L)	
BC Guidelines																											
BCWQG Aquatic Life (AW) ^{b,c}			n/a	6.5-9.0	6.5-9.0	+/-1 Degree change from ambient	Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	n/a	5,680-18,400 ^d	32,800	60-120 ^d	32,800 ^f	600	988.2-1579 ^d	n/a	n/a	n/a	n/a	n/a	0.005-0.015	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a		Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	n/a	n/a	1,090-1,770 ^d	3,000	20-40 ^d	3,000 ^f	150	n/a	128-429 ^d	n/a	n/a	n/a	n/a	
BCWQG Drinking Water (DW) ^{b,c}			n/a	6.5-8.5	6.5-8.5	n/a ⁱ	Change of 1	n/a	n/a	n/a	n/a	n/a	0/100ml	n/a	n/a	n/a	10,000	1,000	10,000 ^f	250	1,000	500	n/a	n/a	n/a	0.01	
Canadian Drinking Water Quality (DW) ^e			n/a	6.5-8.5	6.5-8.5	n/a ⁱ	n/a ^j	n/a	500	n/a	n/a	n/a ^j	0/100ml	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a	
QUL-2	QUL-2	2014 08 06	48.3	8.13	7.98	20.6	0.33	94.4	58	< 3	2.06	-	-	-	0.152	< 5	48.3	< 1	-	< 0.5	31	5.59	43.7	-	< 0.001	< 0.002 ^a	
	QUL-2	2014 08 09	48.8	7.79	7.85	18.0	0.49	96.4	64	< 3	2.38	-	-	-	0.136	< 5	54.8	< 1	-	< 0.5	35	5.54	43.5	-	< 0.001	< 0.002 ^a	
	QUL-2	2014 08 11	47.7	7.69	7.93	20.2	0.27	97.8	67	< 3	2.39	-	-	-	0.139	< 5	52.3	< 1	-	< 0.5	34	5.62	43.7	-	< 0.001	< 0.002 ^a	
	QUL-2-0M	2014 08 16	48.8	8.07	7.97	20.2	0.4	95	54	< 3	2.08	-	-	-	0.111	< 5	42.5	< 1	-	< 0.5	36	5.64	43.2	< 1	< 0.001	< 0.002 ^a	
	QUL-2-10M	2014 08 16	50.6	7.89	7.93	12.1	0.3	97.7	60	< 3	1.97	-	-	-	0.14	< 5	86	< 1	-	< 0.5	36	5.75	44.4	-	< 0.001	< 0.002 ^a	
	QUL-2-30M	2014 08 16	53.3	7.62	7.84	4.7	1.94	107	68	< 3	1.81	-	-	-	0.181	< 5	141	< 1	-	< 0.5	38	6.34	48.1	-	< 0.001	< 0.002 ^a	
	QUL-2-47M	2014 08 21	62.8	7.94	7.88	5.5	48.2	133	90	22.9	1.99	-	-	-	0.328	28.3	195	< 1	-	< 0.5	55	12	55.4	-	0.0407	0.21	
	QUL-2-0M	2014 08 25	49.5	7.93	7.97	18.4	0.27	98.4	64	< 3	2.03	-	-	-	0.131	< 5	47.9	< 1	-	< 0.5	35	5.76	43.8	-	< 0.001	< 0.002 ^a	
	QUL-2X-0M	2014 08 25	49.6	7.93	7.97	18.4	0.24	98.3	67	< 3	1.97	-	-	-	0.132	< 5	48	< 1	-	< 0.5	34	5.76	44.3	-	< 0.001	0.0158	
	QA/QC RPD %		< 1	0	0	0	*	< 1	5	*	*	-	-	-	*	*	< 1	*	-	*	*	0	1	-	*	*	
	QUL-2-8M	2014 08 25	50	7.94	7.95	18.1	0.27	99.9	69	< 3	1.8	-	-	-	0.145	< 5	74.7	< 1	-	< 0.5	34	5.85	45	-	0.013	0.0156	
	QUL-2-40M	2014 08 25	58.6	7.56	7.91	5.9	17.9	119	79	11.7	1.71	-	-	-	0.246	11	166	< 1	-	< 0.5	44	8.92	51.1	-	0.0069	0.0214	
	QUL-2-0M	2014 08 27	49.5	7.97	7.98	18.9	0.25	98.2	63	< 3	2.1	-	-	-	0.12	< 5	43.6	< 1	-	< 0.5	34	5.76	44.6	-	0.001	< 0.002 ^a	
	QUL-2-15M	2014 08 27	50.7	-	7.97	-	3.55	102	65	< 3	2.06	-	-	-	0.15	< 5	81.8	< 1	-	< 0.5	35	6.11	45.5	-	< 0.001	< 0.002 ^a	
	QUL-2-42M	2014 08 27	63	-	7.97	-	49	135	107	11.3	1.92	-	-	-	0.29	33.1	189	< 1	-	< 0.5	56	12.8	54.1	-	0.0019	0.0034	
	QUL-2-0M	2014 08 29	49.5	-	7.91	-	0.45	95.6	56	< 3	2.3	-	-	-	0.124	< 5	44.8	< 1	-	< 0.5	35	5.73	44	-	< 0.001	< 0.002 ^a	
	QUL-2-37M	2014 08 29	55.2	-	7.86	-	8.69	110	69	6.8	1.79	-	-	-	0.215	5.3	150	< 1	-	< 0.5	40	7.19	49.8	-	< 0.001	< 0.002 ^a	
	QUL-2-0M	2014 09 02	50.8	8.06	7.99	17.98	0.27	97.3	67	< 3	2.04	-	-	-	0.119	6.4	41.8	< 1	-	< 0.5	32	5.75	44.4	-	< 0.001	0.0027	
	QUL-2-14M	2014 09 02	52.2	7.83	7.95	11.29	2.13	101	69	< 3	2.11	-	-	-	0.172	10.6	102	< 1	-	< 0.5	33	6.02	46.4	-	< 0.001	0.0029	
	QUL-2-40M	2014 09 02	60.2	7.38	7.95	5.2	25.4	123	87	4.3	2.06	-	-	-	0.26	23.5	173	< 1	-	< 0.5	47	10.5	52.1	-	< 0.001	0.0041	
	QUL-2X-40M	2014 09 02	60.4	7.38	7.96	5.2	23.4	122	87	6.3	1.85	-	-	-	0.258	22.2	172	< 1	-	< 0.5	47	10.4	52.6	-	< 0.001	0.0032	
	QA/QC RPD %		< 1	0	< 1	0	8	< 1	0	*	*	-	-	-	< 1	*	< 1	*	-	*	*	< 1	< 1	-	*	*	
	QUL-2-0M	2014 09 03	49.6	7.86	7.98	17.8	0.39	97.5	59	< 3	2.04	-	-	-	0.115	< 5	41.1	< 1	-	< 0.5	33	5.72	45.8	-	< 0.001	0.0028	
	QUL-2-47M	2014 09 03	66	7.97	7.99	-	55.7	140	101	12.6	2.03	-	-	-	0.328	46.5	209	1.2	-	< 0.5	58	14.3	56.8	-	0.0014	0.0038	
QUL-3	QUL-3	2014 08 06	47.6	8.08	7.96	20.9	0.34	93.8	57	< 3	2.32	-	-	-	0.17	< 5	46.8	< 1	-	< 0.5	33	5.57	44.1	-	< 0.001	< 0.002 ^a	
	QUL-3	2014 08 09	48.3	7.94	7.89	18.7	0.4	95.8	67	< 3	2.27	-	-	-	0.13	< 5	55.4	< 1	-	< 0.5	34	5.52	42.8	-	< 0.001	< 0.002 ^a	
	QUL-3	2014 08 10	48.2	7.94	7.94	21.7	0.32	95.8	68	< 3	2.28	-	-	-	0.121	< 5	53.7	1.1	-	< 0.5	36	5.55	44.4	-	< 0.001	< 0.002 ^a	
	QUL-3X	2014 08 10	48.7	7.94	7.94	21.7	0.37	96	60	< 3	2.19	-	-	-	0.12	< 5	54.4	< 1	-	< 0.5	35	5.56	44.8	-	< 0.001	< 0.002 ^a	
	QA/QC RPD %		1	0	0	0	*	< 1	13	*	*	-	-	-	*	*	1	*	-	*	*	< 1	< 1	-	*	*	
	QUL-3	2014 08 11	48	7.80	7.91	20.5	0.54	97.2	66	< 3	2.15	-	-	-	0.136	< 5	51.1	< 1	-	< 0.5	33	5.61	43.3	-	< 0.001	0.0033	
	QUL-3	2014 08 12	47.4	8.02	7.97	21.0	0.28	95.3	67	< 3	1.9	-	-	-	0.128	< 5	45.7	< 1	-	< 0.5	36	5.65	44	-	0.0012	< 0.002 ^a	
	QUL-3	2014 08 13	47.2	-	7.99	20.6	0.25	97.8	60	< 3	2.18	-	-	-	0.132	< 5	44.1	< 1	-	< 0.5	33	5.63	44.7	-	< 0.001	< 0.002 ^a	
	QUL-3	2014 08 14	49	8.05	7.96	21.6	0.21	98.5	68	< 3	2	-	-	-	0.114	< 5	48.8	< 1	-	< 0.5	35	5.66	44.1	-	< 0.001	< 0.002 ^a	
	QUL-3	2014 08 15	48.6	8.07	7.98	21.2	0.32	96.9	62	< 3	1.8	-	-	-	0.105	< 5	45.4	< 1	-	< 0.5	35	5.66	44.2	-	< 0.001	0.0027	
	QUL-3	2014 08 16	47.9	8.08	7.96	20.1	0.33	95.3	65	< 3	2.18	-	-	-	0.109	< 5	43.4	< 1	-	< 0.5	36	5.62	51.4	-	< 0.001	< 0.002 ^a	
	QUL-3X	2014 08 16	48.3	8.08	7.98	20.1	0.41	95.1	59	< 3	1.92	-	-	-	0.117	< 5	43.8	< 1	-	< 0.5	37	5.63	43.8	-	< 0.001	< 0.002 ^a	
	QA/QC RPD %		< 1	0	< 1	0	*	< 1	10	*	*	-	-	-	*	*	< 1	*	-	*	*	< 1	16	-	*	*	
	QUL-3	2014 08 17	48.3	7.94	7.98	20.8	0.3	96.7	60	< 3	2.36	-	-	-	0.125	< 5	42.2	< 1	-	< 0.5	34	5.64	43.9	-	< 0.001	< 0.002 ^a	
	QUL-3	20																									

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Metals																												
			Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)	
BC Guidelines																															
BCWQG Aquatic Life (AW) ^{b,c}			100 ^d	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			50 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
BCWQG Drinking Water (DW) ^{b,c}			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Canadian Drinking Water Quality (DW) ^e			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
QUL-2	QUL-2	2014 08 06	11.4	16.2	< 30	1.92	0.443	0.479	1.09	< 0.1	0.1	5.18	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.58	< 0.05	< 0.5	< 0.05	0.368	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.129	< 1	< 3	
	QUL-2	2014 08 09	10.3	16.4	< 30	1.89	0.804	0.48	0.841	< 0.1	< 0.1	5.39	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.61	-	0.298	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.138	< 1	< 3	
	QUL-2	2014 08 11	11.4	16	< 30	1.87	0.77	0.496	0.846	< 0.1	0.11	5.23	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.97	-	0.28	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.12	< 1	< 3	
	QUL-2-0M	2014 08 16	10.3	16.4	< 30	1.9	0.527	0.468	0.808	< 0.1	0.12	5.45	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.54	< 0.05	0.64	-	0.286	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.124	< 1	< 3	
	QUL-2-10M	2014 08 16	9.6	17.1	< 30	1.9	0.288	0.453	0.791	< 0.1	< 0.1	5.1	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.72	-	0.254	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.144	< 1	< 3	
	QUL-2-30M	2014 08 16	5.7	18	< 30	2.02	3.26	0.475	0.924	< 0.1	0.1	5.5	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.71	< 0.05	0.84	-	0.336	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.164	< 1	< 3	
	QUL-2-47M	2014 08 21	11.7	21.2	< 30	2.37	53.9	0.732	3.23	0.15	0.46	13.2	< 0.1	< 10	< 0.01	< 0.5	< 0.1	4.06	< 0.05	0.99	-	2.92	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.438	< 1	< 3	
	QUL-2-0M	2014 08 25	10	16.7	< 30	1.91	0.377	0.456	0.799	< 0.1	< 0.1	5.18	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	-	0.279	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.133	< 1	< 3	
	QUL-2X-0M	2014 08 25	9.6	16.7	< 30	1.91	0.384	0.444	0.796	< 0.1	0.12	5.16	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	-	0.265	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.126	< 1	< 3	
	QA/QC RPD %		*	0	*	0	2	3	< 1	*	*	< 1	*	*	*	*	*	*	*	*	-	5	*	*	*	*	*	*	5	*	*
	QUL-2-8M	2014 08 25	9.9	16.9	< 30	1.91	0.343	0.462	0.863	< 0.1	0.1	5.22	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.57	< 0.05	< 0.5	-	0.263	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.133	< 1	< 3	
	QUL-2-40M	2014 08 25	8.3	19.8	< 30	2.21	21.8	0.594	1.53	< 0.1	0.24	8.95	< 0.1	< 10	< 0.01	< 0.5	< 0.1	2.46	< 0.05	0.63	-	1.47	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.27	< 1	< 3	
	QUL-2-0M	2014 08 27	9.9	16.6	< 30	1.93	0.331	0.449	0.835	< 0.1	< 0.1	5.1	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.67	-	0.274	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.135	< 1	< 3	
	QUL-2-15M	2014 08 27	9.3	17.2	< 30	1.92	1.83	0.449	0.862	< 0.1	< 0.1	5.59	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.13	< 0.05	0.75	-	0.284	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.145	< 1	< 3	
	QUL-2-42M	2014 08 27	10.9	21.3	< 30	2.39	44	0.811	2.49	0.16	0.48	13.1	< 0.1	< 10	< 0.01	< 0.5	< 0.1	4.15	< 0.05	0.83	-	3.4	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.434	< 1	< 3	
	QUL-2-0M	2014 08 29	10.8	16.6	< 30	1.93	0.341	0.467	0.842	< 0.1	0.1	5.16	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.53	-	0.26	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.134	< 1	< 3	
	QUL-2-37M	2014 08 29	8	18.6	< 30	2.12	9.3	0.533	1.2	< 0.1	0.17	6.78	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.7	< 0.05	0.67	-	0.78	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.197	< 1	< 3	
	QUL-2-0M	2014 09 02	10.2	17.1	< 30	1.94	0.267	0.46	0.834	< 0.1	< 0.1	5.2	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.67	-	0.279	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.137	< 1	< 3	
	QUL-2-14M	2014 09 02	8.9	17.7	< 30	1.95	2.27	0.457	0.853	< 0.1	< 0.1	6.24	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.95	< 0.05	0.73	-	0.358	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.147	< 1	< 3	
	QUL-2-40M	2014 09 02	10.1	20.4	< 30	2.25	28.2	0.688	1.96	0.11	0.36	10.6	< 0.1	< 10	< 0.01	< 0.5	< 0.1	3.4	< 0.05	1.06	-	2.33	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.338	< 1	< 3	
	QUL-2X-40M	2014 09 02	9	20.5	< 30	2.27	28.8	0.698	1.97	0.11	0.34	10.3	< 0.1	< 10	< 0.01	< 0.5	< 0.1	3.36	< 0.05	0.97	-	2.33	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.351	< 1	< 3	
	QA/QC RPD %		*	< 1	*	< 1	2	1	< 1	*	*	3	*	*	*	*	*	1	*	*	-	0	*	*	*	*	*	*	4	*	*
	QUL-2-0M	2014 09 03	9.5	16.7	< 30	1.92	0.3	0.469	0.814	< 0.1	< 0.1	5.19	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.55	< 0.05	< 0.5	-	0.297	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.136	< 1	< 3	
	QUL-2-47M	2014 09 03	11.8	22.3	< 30	2.49	54.5	0.884	2.75	0.2	0.58	14.5	< 0.1	< 10	< 0.01	< 0.5	< 0.1	4.62	< 0.05	0.92	-	4.16	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.534	< 1	< 3	
QUL-3	QUL-3	2014 08 06	10.6	15.9	< 30	1.9	0.608	0.5	1.1	< 0.1	< 0.1	5.36	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.56	< 0.05	0.54	< 0.05	0.421	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.124	< 1	< 3	
	QUL-3	2014 08 09	10.6	16.2	< 30	1.88	0.599	0.473	0.831	< 0.1	< 0.1	5.38	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.51	< 0.05	0.67	-	0.339	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.147	< 1	< 3	
	QUL-3	2014 08 10	10.9	16.2	< 30	1.86	0.639	0.483	0.85	< 0.1	0.11	5.24	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.51	< 0.05	< 0.5	-	0.291	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.129	< 1	< 3	
	QUL-3X	2014 08 10	11	16.4	< 30	1.88	0.667	0.478	0.847	< 0.1	0.11	5.14	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.5	< 0.0												

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																														
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silicon (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Tin (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																																	
BCWQG Aquatic Life (AW) ^{b,c}			n/a	20	5	5,000	n/a	n/a	1,200	0.016-0.055 ^d	n/a	1 (Cr(+6))	110	6.0-19.3 ^d	1,000	27.3-177.4 ^d	870	n/a	1001-2568 ^d	Methyl mercury analysis in progress	2,000	25-150 ^d	373,000-432,000	2	n/a	0.1-3.0 ^d	n/a	0.3	n/a	2,000	300	6	33-103.5 ^d
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a	1,000	5.3 ⁱ	n/a	n/a	n/a	n/a	4	2-7.4 ^d	n/a	4.4-10.2 ^d	14 ⁱ	n/a	791.1-1415 ^d	1,000		n/a	n/a	n/a	n/a	0.05-1.5 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.5-79 ^d
BCWQG Drinking Water (DW) ^{b,c}			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	5,000	
Canadian Drinking Water Quality (DW) ^e			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	1,000	300	10	n/a	n/a	50	1	n/a	n/a	n/a	10	n/a	n/a	200,000	n/a	n/a	n/a	20	n/a	5,000	
QUL-2	QUL-2	2014 08 06	17.6	< 0.1	0.11	5.34	< 0.1	< 0.5	< 10	< 0.01	15,900	< 0.5	< 0.1	0.62	< 30	< 0.05	< 0.5	1,910	1.4	< 0.05	0.302	< 0.5	473	< 0.5	1,590	< 0.01	822	< 0.01	< 0.1	< 10	0.131	< 1	< 3
	QUL-2	2014 08 09	21.4	< 0.1	0.12	5.57	< 0.1	< 0.5	< 10	< 0.01	16,100	< 0.5	< 0.1	0.67	< 30	< 0.05	0.61	1,900	1.93	< 0.05	0.303	< 0.5	484	< 0.5	1,580	< 0.01	828	< 0.01	< 0.1	< 10	0.139	< 1	< 3
	QUL-2	2014 08 11	17.5	< 0.1	0.16	5.36	< 0.1	< 0.5	< 10	< 0.01	16,000	< 0.5	< 0.1	0.72	< 30	< 0.05	0.83	1,880	1.23	< 0.05	0.317	< 0.5	496	< 0.5	1,530	< 0.01	849	< 0.01	< 0.1	< 10	0.131	< 1	< 3
	QUL-2-0M	2014 08 16	18.9	< 0.1	0.14	5.52	< 0.1	< 0.5	< 10	< 0.01	16,000	< 0.5	< 0.1	0.66	< 30	< 0.05	0.51	1,870	1.45	-	0.315	< 0.5	477	< 0.5	1,560	< 0.01	836	< 0.01	< 0.1	< 10	0.14	< 1	< 3
	QUL-2-10M	2014 08 16	21	< 0.1	0.11	5.31	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	0.95	< 30	< 0.05	0.52	1,840	1.07	-	0.268	< 0.5	467	< 0.5	1,520	< 0.01	810	< 0.01	< 0.1	< 10	0.151	< 1	< 3
	QUL-2-30M	2014 08 16	126	< 0.1	0.15	7.32	< 0.1	< 0.5	< 10	< 0.01	18,300	< 0.5	< 0.1	2.8	97	< 0.05	< 0.5	2,120	7.03	-	0.358	< 0.5	522	< 0.5	1,980	< 0.01	987	< 0.01	< 0.1	< 10	0.198	< 1	< 3
	QUL-2-47M	2014 08 21	2,810	0.17	1.2	61.6	< 0.1	< 0.5	< 10	0.02	21,100	1.68	1.25	51.7	1,800	1.03	2.26	3,160	109	-	3.02	1.8	1,740	< 0.5	7,730	0.023	3,290	0.012	0.15	113	0.526	5.4	7.3
	QUL-2-0M	2014 08 25	16.8	< 0.1	0.11	5.42	< 0.1	< 0.5	< 10	< 0.01	16,700	< 0.5	< 0.1	0.67	< 30	< 0.05	< 0.5	1,930	1.15	-	0.308	< 0.5	477	< 0.5	1,560	< 0.01	837	< 0.01	< 0.1	< 10	0.143	< 1	< 3
	QUL-2X-0M	2014 08 25	16	< 0.1	0.13	5.36	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	0.63	< 30	< 0.05	< 0.5	1,880	1.08	-	0.293	< 0.5	465	< 0.5	1,520	< 0.01	831	< 0.01	< 0.1	< 10	0.134	< 1	< 3
	QA/QC RPD %		5	*	*	1	*	*	*	*	1	*	*	*	*	*	*	3	*	-	5	*	3	*	3	*	< 1	*	*	*	7	*	*
	QUL-2-8M	2014 08 25	18.2	< 0.1	0.11	5.18	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	0.61	< 30	< 0.05	< 0.5	1,940	1.16	-	0.292	< 0.5	466	< 0.5	1,570	< 0.01	874	< 0.01	< 0.1	< 10	0.148	< 1	< 3
	QUL-2-40M	2014 08 25	1,050	< 0.1	0.55	28	< 0.1	< 0.5	< 10	< 0.01	19,400	0.65	0.42	22	630	0.384	1.1	2,420	43.1	< 0.05	1.56	0.85	986	< 0.5	4,070	< 0.01	1,710	< 0.01	< 0.1	43	0.309	2.1	< 3
	QUL-2-0M	2014 08 27	13.2	< 0.1	0.11	5.21	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	< 0.5	< 30	< 0.05	0.63	1,930	0.891	< 0.01	0.291	< 0.5	454	< 0.5	1,510	< 0.01	845	< 0.01	< 0.1	< 10	0.147	< 1	< 3
	QUL-2-15M	2014 08 27	138	< 0.1	0.17	6.98	< 0.1	< 0.5	< 10	< 0.01	17,100	< 0.5	0.11	3.18	160	0.081	0.83	2,010	5.62	< 0.01	0.306	< 0.5	487	< 0.5	1,790	< 0.01	876	< 0.01	< 0.1	11	0.155	< 1	< 3
	QUL-2-42M	2014 08 27	2,440	0.17	1.11	63.9	< 0.1	< 0.5	< 10	0.016	21,200	1.15	0.87	47.1	1,250	0.826	1.85	2,930	84.7	< 0.01	3.52	1.24	1,870	< 0.5	7,590	0.017	2,950	0.011	< 0.1	92	0.506	4.4	4.6
	QUL-2-0M	2014 08 29	16.3	< 0.1	0.15	5.25	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	0.63	< 30	< 0.05	< 0.5	1,920	1.23	< 0.01	0.274	< 0.5	470	< 0.5	1,500	< 0.01	838	< 0.01	< 0.1	< 10	0.14	< 1	< 3
	QUL-2-37M	2014 08 29	556	< 0.1	0.35	16.5	< 0.1	< 0.5	< 10	0.012	19,000	< 0.5	0.23	10.5	339	0.187	0.78	2,310	22.1	< 0.01	0.871	0.61	742	< 0.5	3,010	< 0.01	1,300	< 0.01	< 0.1	23	0.224	1.2	< 3
	QUL-2-0M	2014 09 02	16.9	< 0.1	0.11	5.31	< 0.1	< 0.5	< 10	< 0.01	16,700	< 0.5	< 0.1	0.63	< 30	< 0.05	0.82	1,920	1.08	< 0.01	0.288	< 0.5	467	< 0.5	1,470	< 0.01	838	< 0.01	< 0.1	< 10	0.138	< 1	< 3
	QUL-2-14M	2014 09 02	147	< 0.1	0.16	7.82	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	0.11	5.65	125	0.082	0.85	1,940	5.86	< 0.01	0.317	< 0.5	488	< 0.5	1,780	< 0.01	857	< 0.01	< 0.1	10	0.148	< 1	< 3
	QUL-2-40M	2014 09 02	1,420	0.14	0.76	39.5	< 0.1	< 0.5	< 10	0.011	20,200	0.7	0.54	29.3	791	0.492	1.52	2,610	56.5	< 0.01	2.37	0.95	1,270	< 0.5	4,790	0.011	2,190	< 0.01	< 0.1	57	0.37	2.8	3.5
	QUL-2X-40M	2014 09 02	1,410	0.14	0.73	39.9	< 0.1	< 0.5	< 10	< 0.01	20,400	0.6	0.53	28.2	762	0.476	1.57	2,570	54.2	< 0.01	2.29	0.93	1,300	< 0.5	4,950	0.01	2,160	< 0.01	< 0.1	53	0.368	2.7	3.4
	QA/QC RPD %		< 1	*	4	1	*	*	*	*	< 1	*	2	4	4	3	*	2	4	*	3	*	2	*	3	*	1	*	*	7	< 1	*	*
	QUL-2-0M	2014 09 03	20.7	< 0.1	0.12	5.26	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	0.86	< 30	< 0.05	< 0.5	1,910	1.3	< 0.01	0.344	< 0.5	481	< 0.5	1,510	< 0.01	841	< 0.01	< 0.1	< 10	0.148	< 1	< 3
	QUL-2-47M	2014 09 03	2,680	0.24	1.29	68.5	< 0.1	< 0.5	< 1																								

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Physical Parameters									Microbiological Tests		Total Inorganics													
			Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Coliform (MPN/0.1L)	E. Coli (MPN/0.1L)	Total Kjeldahl Nitrogen (N) (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Bromide (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus ⁹ (mg/L)	
BC Guidelines																											
BCWQG Aquatic Life (AW) ^{b,c}			n/a	6.5-9.0	6.5-9.0	+/-1 Degree change from ambient	Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	n/a	5,680-18,400 ^d	32,800	60-120 ^d	32,800 ^f	600	988.2-1579 ^d	n/a	n/a	n/a	n/a	n/a	n/a	0.005-0.015
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a		Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	n/a	n/a	1,090-1,770 ^d	3,000	20-40 ^d	3,000 ^f	150	n/a	128-429 ^d	n/a	n/a	n/a	n/a	
BCWQG Drinking Water (DW) ^{b,c}			n/a	6.5-8.5	6.5-8.5	n/a ⁱ	Change of 1	n/a	n/a	n/a	n/a	n/a	0/100ml	n/a	n/a	10,000	1,000	10,000 ^f	250	1,000	500	n/a	n/a	n/a	n/a	0.01	
Canadian Drinking Water Quality (DW) ^e			n/a	6.5-8.5	6.5-8.5	n/a ⁱ	n/a ^j	n/a	500	n/a	n/a	n/a	0/100ml	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a	
QUL-9	QUL-9	2014 08 06	48.3	8.01	7.93	21.5	1.14	94.6	58	< 3	2.15	-	-	-	0.15	< 5	42.4	1.1	-	< 0.5	34	5.62	44.2	-	< 0.001	< 0.002 ^a	
	QUL-9	2014 08 09	49	7.84	7.84	16.8	0.78	96.7	70	< 3	2.42	-	-	-	0.141	< 5	57.6	< 1	-	< 0.5	35	5.61	43.5	-	< 0.001	< 0.002 ^a	
	QUL-9	2014 08 10	49.2	7.81	7.94	20.7	0.56	96.5	68	< 3	2.33	-	-	-	0.13	< 5	54.4	< 1	-	< 0.5	35	5.62	45.4	-	< 0.001	< 0.002 ^a	
	QUL-9	2014 08 12	47.1	7.95	7.96	20.6	0.32	96	64	< 3	1.99	-	-	-	0.151	< 5	49.2	< 1	-	< 0.5	36	5.66	44.5	-	0.0011	< 0.002 ^a	
	QUL-9	2014 08 13	47.7	-	7.88	20.5	0.65	98.9	61	< 3	2.69	-	-	-	0.115	< 5	12.8	1.1	-	< 0.5	34	5.6	45.1	-	< 0.001	< 0.002 ^a	
	QUL-9X	2014 08 13	48.1	-	7.92	-	0.54	98.7	60	< 3	2.68	-	-	-	0.125	< 5	11.9	1.2	-	< 0.5	33	5.59	44.9	-	< 0.001	< 0.002 ^a	
	QA/QC RPD %		< 1	-	< 1	*	18	< 1	2	*	< 1	-	-	-	*	*	*	*	-	*	*	< 1	< 1	-	*	*	
	QUL-9	2014 08 14	49	8.02	7.95	20.4	0.25	97.7	67	< 3	2.15	-	-	-	0.128	< 5	41.9	< 1	-	< 0.5	36	5.65	43.8	-	< 0.001	0.0026	
	QUL-9	2014 08 15	49.2	-	7.92	-	0.74	96.6	66	< 3	1.97	-	-	-	0.102	< 5	27.6	1.3	-	< 0.5	36	5.64	43.6	-	0.0012	0.0023	
	QUL-9	2014 08 16	48.3	8.07	7.96	20.4	0.31	95.6	60	< 3	2	-	-	-	0.116	< 5	42.9	< 1	-	< 0.5	36	5.64	43.4	-	< 0.001	< 0.002 ^a	
	QUL-9	2014 08 17	48.4	7.82	7.94	21.2	0.35	96.7	62	< 3	2.5	-	-	-	0.136	< 5	36.7	< 1	-	< 0.5	34	5.63	43.8	-	< 0.001	< 0.002 ^a	
	QUL-9	2014 08 19	47.7	7.84	7.92	20.0	0.24	96.7	68	< 3	2.17	-	-	-	0.111	< 5	42.6	< 1	-	< 0.5	32	5.54	44.2	-	< 0.001	< 0.002 ^a	
	QUL-9X	2014 08 19	49	7.84	7.85	20.0	0.24	95.8	65	< 3	2.03	-	-	-	0.113	< 5	42	< 1	-	< 0.5	37	5.55	43.7	-	0.0026	< 0.002 ^a	
	QA/QC RPD %		3	0	< 1	0	*	< 1	5	*	*	-	-	-	*	*	1	*	-	*	*	< 1	1	-	*	*	
	QUL-10	QUL9	2014 08 22	50.3	7.74	7.88	19.8	1.73	98.3	69	< 3	2.3	-	-	-	0.136	< 5	42.4	< 1	-	< 0.5	34	5.76	44.9	-	< 0.001	0.0025
QUL-10		2014 08 06	47.7	8.08	7.95	21.4	0.41	94.9	55	< 3	2.1	-	-	-	0.195	< 5	45	< 1	-	< 0.5	33	5.58	44.2	-	< 0.001	< 0.002 ^a	
QUL-11	QUL-11-0M	2014 08 07	49.2	-	7.79	-	2.43	95.4	74	3.6	2.5	-	-	-	0.122	< 5	35	< 1	-	< 0.5	36	5.79	44.7	-	< 0.001	< 0.002 ^a	
	QUL-11-5M	2014 08 07	48.1	-	7.93	-	0.85	93	71	< 3	2.08	-	-	-	0.135	< 5	66.7	< 1	-	< 0.5	34	5.52	44.4	-	< 0.001	< 0.002 ^a	
	QUL-11-5MX	2014 08 07	48.5	-	7.95	-	0.58	93.4	73	< 3	2.12	-	-	-	0.137	< 5	68	< 1	-	< 0.5	34	5.51	44.7	-	< 0.001	< 0.002 ^a	
	QA/QC RPD %		< 1	-	< 1	-	38	< 1	3	*	*	-	-	-	*	*	2	*	-	*	*	< 1	< 1	-	*	*	
	QUL-11-10M	2014 08 07	50.8	-	7.9	-	1.3	98.9	76	< 3	2.02	-	-	-	0.171	< 5	112	< 1	-	< 0.5	35	5.76	46.7	-	< 0.001	< 0.002 ^a	
QUL-12	QUL-11-15M	2014 08 07	53.4	-	7.91	-	0.59	103	84	< 3	1.85	-	-	-	0.181	< 5	136	< 1	-	< 0.5	36	6.05	48.8	-	< 0.001	< 0.002 ^a	
	QUL-11-20M	2014 08 07	53.7	-	7.91	-	0.9	105	75	< 3	1.78	-	-	-	0.186	< 5	141	< 1	-	< 0.5	36	6.08	49.1	-	< 0.001	< 0.002 ^a	
	QUL-11-24M	2014 08 07	53.8	-	7.91	-	0.98	105	76	< 3	1.84	-	-	-	0.191	< 5	140	< 1	-	< 0.5	36	6.14	49.5	-	< 0.001	< 0.002 ^a	
	QUL-12-0M	2014 08 07	49.8	-	7.89	-	13.1	97.9	73	13.8	2.53	-	-	-	0.106	< 5	38.7	< 1	-	< 0.5	36	5.85	45.9	-	< 0.001	< 0.002 ^a	
	QUL-12-5M	2014 08 07	48.6	-	7.97	-	0.47	94.8	68	< 3	2	-	-	-	0.135	< 5	71.2	< 1	-	< 0.5	35	5.51	44.3	-	< 0.001	< 0.002 ^a	
QUL-13	QUL-12-10M	2014 08 07	50.7	-	7.91	-	1.08	99.7	77	< 3	2	-	-	-	0.164	< 5	112	< 1	-	< 0.5	35	5.77	47	-	< 0.001	< 0.002 ^a	
	QUL-12-15M	2014 08 07	52.7	-	7.92	-	1.09	104	74	< 3	1.88	-	-	-	0.181	< 5	139	< 1	-	< 0.5	37	6.04	48.7	-	< 0.001	< 0.002 ^a	
	QUL-12-20M	2014 08 07	53.5	-	7.91	-	0.7	105	74	< 3	1.85	-	-	-	0.18	< 5	140	< 1	-	< 0.5	36	6.07	49	-	< 0.001	< 0.002 ^a	
	QUL-13-0M	2014 08 07	47.9	-	7.94	-	3.01	94.6	68	3.2	2.21	-	-	-	0.113	< 5	54.8	< 1	-	< 0.5	35	5.55	44.6	-	< 0.001	< 0.002 ^a	
	QUL-13-5M	2014 08 07	48.2	-	7.96	-	0.49	94.5	66	< 3	2.08	-	-	-	0.176	< 5	72.8	< 1	-	< 0.5	34	5.5	44.5	-	< 0.001	< 0.002 ^a	
QUL-14	QUL-13-10M	2014 08 07	49.8	-	7.93	-	0.87	99.2	70	< 3	1.94	-	-	-	0.164	< 5	111	< 1	-	< 0.5	35	5.72	46.3	-	< 0.001	< 0.002 ^a	
	QUL-13-15M	2014 08 07	52.5	-	7.92	-	1.18	104	75	< 3	1.84	-	-	-	0.174	< 5	136	< 1	-	< 0.5	36	6.02	48.3	-	< 0.001	< 0.002 ^a	
	QUL-13-20M	2014 08 07	50.2	-	7.94	-	0.61	106	68	< 3	1.79	-	-	-	0.185	< 5	141	< 1	-	< 0.5	36	6.08	49.2	-	< 0.001	< 0.002 ^a	
	QUL-14-0M	2014 08 07	48.6	-	7.87	-	7.45	98.8	69	9.4	2.69	> 2,420	236	-	0.124	< 5	27.5	< 1	-	< 0.5	36	5.84	45.7	-	< 0.001	< 0.002 ^a	
	QUL-14-3M	2014 08 07	47.9	-	7.94	-	1.25	95.9	66	< 3	2.05	-	-	-	0.137	< 5	66.5	< 1	-	< 0.5	34	5.56	44.5	-	< 0.001	< 0.002 ^a	
QUL-15	QUL-15-0M	2014 08 07	48.9	-	7.91	-	2.26	97.5	69	< 3	2.58	> 2,420	461	-	0.127	< 5	34.8	< 1	-								

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Metals																												
			Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)	
BC Guidelines																															
BCWQG Aquatic Life (AW) ^{b,c}			100 ^d	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			50 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
BCWQG Drinking Water (DW) ^{b,c}			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Canadian Drinking Water Quality (DW) ^e			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
QUL-9	QUL-9	2014 08 06	11.8	16.2	< 30	1.92	2.43	0.525	1.07	< 0.1	0.12	5.71	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.84	< 0.05	0.52	< 0.05	0.347	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.126	< 1	< 3	
	QUL-9	2014 08 09	10.1	16.5	< 30	1.89	1.2	0.478	0.838	< 0.1	< 0.1	5.43	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.52	< 0.05	0.59	-	0.302	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.132	< 1	< 3	
	QUL-9	2014 08 10	10.8	16.6	< 30	1.89	1.53	0.491	0.835	< 0.1	0.11	5.44	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.54	< 0.05	0.52	-	0.293	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.133	< 1	< 3	
	QUL-9	2014 08 12	10.5	15.8	< 30	1.85	0.408	0.488	0.83	< 0.1	< 0.1	5.29	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.57	< 0.05	0.73	-	0.308	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.129	< 1	< 3	
	QUL-9	2014 08 13	9.4	16	< 30	1.88	3.09	0.544	0.848	< 0.1	0.12	6.14	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.55	< 0.05	1.06	-	0.313	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.122	< 1	< 3	
	QUL-9X	2014 08 13	9.5	16.1	< 30	1.91	3.89	0.57	0.864	< 0.1	0.1	6.34	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.67	< 0.05	1.07	-	0.314	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.123	< 1	< 3	
	QA/QC RPD %		*	< 1	*	2	23	5	2	*	*	3	*	*	*	*	*	*	*	*	-	< 1	*	*	*	*	*	*	< 1	*	*
	QUL-9	2014 08 14	10.4	16.5	< 30	1.91	1.18	0.471	0.821	< 0.1	0.11	5.45	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.72	-	0.301	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.128	< 1	< 3	
	QUL-9	2014 08 15	10.2	16.6	< 30	1.9	2.82	0.511	0.85	< 0.1	0.12	6.12	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.58	< 0.05	< 0.5	-	0.322	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.13	< 1	< 3	
	QUL-9	2014 08 16	10.1	16.2	< 30	1.88	0.489	0.464	0.799	< 0.1	0.11	5.4	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.69	-	0.289	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.131	< 1	< 3	
	QUL-9	2014 08 17	9.8	16.2	< 30	1.91	2.31	0.474	0.8	< 0.1	0.13	5.47	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.59	-	0.287	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.131	< 1	< 3	
	QUL-9	2014 08 19	10.2	16	< 30	1.87	0.465	0.465	0.815	< 0.1	0.11	5.19	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.65	-	0.288	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.13	< 1	< 3	
	QUL-9X	2014 08 19	9.9	16.5	< 30	1.9	0.432	0.442	0.766	< 0.1	< 0.1	4.88	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.73	-	0.288	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.135	< 1	< 3	
	QA/QC RPD %		*	3	*	2	7	5	6	*	*	6	*	*	*	*	*	*	*	*	-	0	*	*	*	*	*	*	4	*	*
	QUL-10	QUL9	2014 08 22	11	16.9	< 30	1.94	0.958	0.481	0.843	< 0.1	0.1	5.43	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.65	< 0.05	0.87	-	0.28	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.133	< 1	< 3
QUL-10		2014 08 06	11.4	16	< 30	1.91	0.813	0.506	1.06	< 0.1	0.1	5.19	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.69	< 0.05	< 0.5	< 0.05	0.328	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.129	< 1	< 3	
QUL-11	QUL-11-0M	2014 08 07	9.8	16.5	< 30	1.95	4.34	0.558	0.975	< 0.1	0.13	6.44	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.88	< 0.05	< 0.5	-	0.412	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.131	< 1	< 3	
	QUL-11-5M	2014 08 07	9.6	16.1	< 30	1.89	0.239	0.455	0.956	< 0.1	< 0.1	5.24	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.51	< 0.05	< 0.5	-	0.291	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.137	< 1	< 3	
	QUL-11-5MX	2014 08 07	9.6	16.3	< 30	1.9	0.279	0.455	0.913	< 0.1	0.11	5.29	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.76	< 0.05	< 0.5	-	0.28	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.133	< 1	< 3	
	QA/QC RPD %		*	1	*	< 1	*	0	5	*	*	< 1	*	*	*	*	*	*	*	-	4	*	*	*	*	*	*	3	*	*	
	QUL-11-10M	2014 08 07	7.4	17.1	< 30	1.99	0.602	0.47	0.989	< 0.1	0.12	5.39	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.57	< 0.05	0.56	-	0.276	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.144	< 1	< 3	
	QUL-11-15M	2014 08 07	6.3	18	< 30	2.07	0.214	0.467	0.988	< 0.1	< 0.1	5.08	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.66	-	0.256	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3	
QUL-12	QUL-11-20M	2014 08 07	5.2	18.1	< 30	2.08	0.71	0.46	0.964	< 0.1	< 0.1	5.17	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.79	-	0.264	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.153	< 1	< 3	
	QUL-11-24M	2014 08 07	5.1	18.1	< 30	2.08	1.18	0.468	1.03	< 0.1	< 0.1	5.31	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.5	< 0.05	0.97	-	0.283	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.156	< 1	< 3	
	QUL-12-0M	2014 08 07	12.4	16.7	< 30	1.94	6.45	0.556	1.02	< 0.1	0.13	7.42	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.7	< 0.05	0.74	-	0.413	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.134	< 1	< 3	
	QUL-12-5M	2014 08 07	10.2	16.3	< 30	1.9	0.174	0.453	0.912	< 0.1	< 0.1	5.15	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.81	-	0.29	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.135	< 1	< 3	
	QUL-12-10M	2014 08 07	8	17.1	< 30	1.98	0.459	0.459	0.927	< 0.1	0.1	5.44	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.51	< 0.05	0.84	-	0.274	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.142	< 1	< 3	
	QUL-12-15M	2014 08 07	6.7	17.8	< 30	2.04	0.522	0.466	1.03	< 0.1	0.11	5.34	< 0.1	< 10	< 0.01	< 0.5															

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																														
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silicon (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Tin (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																																	
BCWQG Aquatic Life (AW) ^{b,c}			n/a	20	5	5,000	n/a	n/a	1,200	0.016-0.055 ^d	n/a	1 (Cr(+6))	110	6.0-19.3 ^d	1,000	27.3-177.4 ^d	870	n/a	1001-2568 ^d	Methyl mercury analysis in progress	2,000	25-150 ^d	373,000-432,000	2	n/a	0.1-3.0 ^d	n/a	0.3	n/a	2,000	300	6	33-103.5 ^d
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a	1,000	5.3 ⁱ	n/a	n/a	n/a	n/a	4	2-7.4 ^d	n/a	4.4-10.2 ^d	14 ⁱ	n/a	791.1-1415 ^d	1,000		n/a	n/a	n/a	n/a	0.05-1.5 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.5-78 ^d
BCWQG Drinking Water (DW) ^{b,c}			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	5,000
Canadian Drinking Water Quality (DW) ^e			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	1,000	300	10	n/a	n/a	n/a	1	n/a	n/a	n/a	10	n/a	n/a	n/a	200,000	n/a	n/a	n/a	20	n/a	5,000
QUL-9	QUL-9	2014 08 06	93.8	< 0.1	0.15	6.48	< 0.1	< 0.5	< 10	< 0.01	16,200	< 0.5	< 0.1	2.38	80	< 0.05	0.59	1,980	4.3	< 0.05	0.333	< 0.5	534	< 0.5	1,770	< 0.01	893	< 0.01	< 0.1	< 10	0.135	< 1	< 3
	QUL-9	2014 08 09	31.4	< 0.1	0.13	5.75	< 0.1	< 0.5	< 10	< 0.01	16,200	< 0.5	< 0.1	1.09	< 30	< 0.05	0.63	1,910	2.59	< 0.05	0.33	< 0.5	496	< 0.5	1,600	< 0.01	841	< 0.01	< 0.1	< 10	0.142	< 1	< 3
	QUL-9	2014 08 10	22.7	< 0.1	0.12	5.35	< 0.1	< 0.5	< 10	< 0.01	15,600	< 0.5	< 0.1	0.78	< 30	< 0.05	< 0.5	1,790	1.84	< 0.05	0.31	< 0.5	491	< 0.5	1,530	< 0.01	851	< 0.01	< 0.1	< 10	0.132	< 1	< 3
	QUL-9	2014 08 12	17.2	< 0.1	0.13	5.28	< 0.1	< 0.5	< 10	< 0.01	16,100	< 0.5	< 0.1	0.73	< 30	< 0.05	0.77	1,900	1.61	< 0.05	0.323	< 0.5	488	< 0.5	1,600	< 0.01	849	< 0.01	< 0.1	< 10	0.138	< 1	< 3
	QUL-9	2014 08 13	20.8	< 0.1	0.16	6.28	< 0.1	< 0.5	< 10	< 0.01	16,300	< 0.5	< 0.1	0.93	30	< 0.05	0.76	1,950	5.69	< 0.05	0.325	< 0.5	560	< 0.5	1,640	< 0.01	861	< 0.01	< 0.1	< 10	0.13	< 1	< 3
	QUL-9X	2014 08 13	28.9	< 0.1	0.15	6.52	< 0.1	< 0.5	< 10	< 0.01	16,700	< 0.5	< 0.1	1.1	38	< 0.05	0.85	1,990	6.04	< 0.05	0.332	< 0.5	579	< 0.5	1,690	< 0.01	880	< 0.01	< 0.1	< 10	0.131	< 1	< 3
	QA/QC RPD %		33	*	*	4	*	*	*	*	2	*	*	*	*	*	*	2	*	*	2	*	3	*	3	*	2	*	*	*	< 1	*	*
	QUL-9	2014 08 14	17.1	< 0.1	0.12	5.52	< 0.1	< 0.5	< 10	< 0.01	16,300	< 0.5	< 0.1	0.7	< 30	< 0.05	0.62	1,910	2.2	-	0.33	< 0.5	489	< 0.5	1,620	< 0.01	844	< 0.01	< 0.1	< 10	0.139	< 1	< 3
	QUL-9	2014 08 15	43.1	< 0.1	0.17	6.35	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	1.61	44	< 0.05	< 0.5	1,940	4.36	-	0.339	< 0.5	539	< 0.5	1,700	< 0.01	883	< 0.01	< 0.1	< 10	0.136	< 1	< 3
	QUL-9	2014 08 16	15.8	< 0.1	0.13	5.48	< 0.1	< 0.5	< 10	< 0.01	16,300	< 0.5	< 0.1	0.6	< 30	< 0.05	< 0.5	1,900	1.34	-	0.321	< 0.5	467	< 0.5	1,560	< 0.01	814	< 0.01	< 0.1	< 10	0.138	< 1	< 3
	QUL-9	2014 08 17	19.1	< 0.1	0.14	5.69	< 0.1	< 0.5	< 10	< 0.01	16,000	< 0.5	< 0.1	< 3 ^a	< 30	0.065	0.69	1,900	2.59	-	0.32	< 0.5	496	< 0.5	1,560	< 0.01	843	< 0.01	< 0.1	< 10	0.143	< 1	< 3
	QUL-9	2014 08 19	14	< 0.1	0.12	4.96	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	0.65	< 30	< 0.05	0.99	1,930	1.06	-	0.304	< 0.5	448	< 0.5	1,560	< 0.01	783	< 0.01	< 0.1	< 10	0.142	< 1	< 3
	QUL-9X	2014 08 19	15.2	< 0.1	0.12	5.36	< 0.1	< 0.5	< 10	< 0.01	16,600	< 0.5	< 0.1	0.54	< 30	< 0.05	0.8	1,930	1.14	-	0.305	< 0.5	479	< 0.5	1,570	< 0.01	851	< 0.01	< 0.1	< 10	0.142	< 1	< 3
	QA/QC RPD %		*	*	*	8	*	*	*	*	< 1	*	*	*	*	*	*	0	*	-	< 1	*	7	*	< 1	*	8	*	*	*	0	*	*
	QUL-10	QUL9	2014 08 22	79.5	< 0.1	0.15	7.13	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	3.17	75	< 0.05	0.77	1,940	5.01	-	0.33	< 0.5	523	< 0.5	1,660	< 0.01	872	< 0.01	< 0.1	< 10	0.145	< 1
QUL-10		2014 08 06	26.6	< 0.1	0.13	5.44	< 0.1	< 0.5	< 10	< 0.01	16,200	< 0.5	< 0.1	0.73	< 30	< 0.05	< 0.5	1,980	1.79	< 0.05	0.326	< 0.5	501	< 0.5	1,650	< 0.01	896	< 0.01	< 0.1	< 10	0.136	< 1	< 3
QUL-11	QUL-11-0M	2014 08 07	142	< 0.1	0.21	8.11	< 0.1	< 0.5	< 10	< 0.01	16,200	< 0.5	0.1	4.03	111	0.057	< 0.5	2,000	7.75	< 0.05	0.399	0.59	601	< 0.5	1,840	< 0.01	912	< 0.01	< 0.1	< 10	0.134	< 1	< 3
	QUL-11-5M	2014 08 07	30.9	< 0.1	0.14	5.44	< 0.1	< 0.5	< 10	< 0.01	16,000	< 0.5	< 0.1	0.84	< 30	< 0.05	< 0.5	1,920	1.46	< 0.05	0.291	< 0.5	477	< 0.5	1,590	< 0.01	824	< 0.01	< 0.1	< 10	0.14	< 1	< 3
QUL-12	QUL-11-5MX	2014 08 07	28.2	< 0.1	0.14	5.56	< 0.1	< 0.5	< 10	< 0.01	16,000	< 0.5	< 0.1	1.23	< 30	< 0.05	< 0.5	1,910	1.52	< 0.05	0.284	< 0.5	475	< 0.5	1,580	< 0.01	816	< 0.01	< 0.1	< 10	0.139	< 1	< 3
	QA/QC RPD %		9	*	*	2	*	*	*	*	0	*	*	*	*	*	*	< 1	*	*	2	*	< 1	*	< 1	*	< 1	*	*	*	< 1	*	*
	QUL-11-10M	2014 08 07	79.5	< 0.1	0.15	6.37	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	1.96	73	< 0.05	< 0.5	2,050	3.49	< 0.05	0.298	< 0.5	503	< 0.5	1,810	< 0.01	886	< 0.01	< 0.1	< 10	0.148	< 1	< 3
	QUL-11-15M	2014 08 07	26	< 0.1	0.12	5.26	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	0.85	< 30	< 0.05	0.58	2,040	1.4	< 0.05	0.266	< 0.5	471	< 0.5	1,680	< 0.01	885	< 0.01	< 0.1	< 10	0.154	< 1	< 3
	QUL-11-20M	2014 08 07	48	< 0.1	0.15	5.77	< 0.1	< 0.5	< 10	< 0.01	18,000	< 0.5	< 0.1	1.28	52	< 0.05	0.68	2,110	2.48	< 0.05	0.281	< 0.5	499	< 0.5	1,790	< 0.01	925	< 0.01	< 0.1	< 10	0.161	< 1	< 3
	QUL-11-24M	2014 08 07	5																														

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Physical Parameters									Microbiological Tests		Total Inorganics													
			Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Coliform (MPN/0.1L)	E. Coli (MPN/0.1L)	Total Kjeldahl Nitrogen (N) (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Bromide (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus ⁹ (mg/L)	
BC Guidelines																											
BCWQG Aquatic Life (AW) ^{b,c}			n/a	6.5-9.0	6.5-9.0	+/-1 Degree change from ambient	Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	n/a	5,680-18,400 ^d	32,800	60-120 ^d	32,800 ^f	600	988.2-1579 ^d	n/a	n/a	n/a	n/a	n/a	0.005-0.015	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a		Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	n/a	n/a	1,090-1,770 ^d	3,000	20-40 ^d	3,000 ^f	150	n/a	128-429 ^d	n/a	n/a	n/a	n/a	
BCWQG Drinking Water (DW) ^{b,c}			n/a	6.5-8.5	6.5-8.5		n/a ⁱ	Change of 1	n/a	n/a	n/a	n/a	n/a	0/100ml	n/a	n/a	n/a	10,000	1,000	10,000 ^f	250	1,000	500	n/a	n/a	n/a	0.01
Canadian Drinking Water Quality (DW) ^e			n/a	6.5-8.5	6.5-8.5	n/a ⁱ	n/a ⁱ	n/a	500	n/a	n/a	n/a ⁱ	0/100ml	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a	
QUL-17	QUL-17	2014 08 15	48.4	8.13	7.98	21.0	0.25	96.2	66	< 3	1.92	-	-	-	0.103	< 5	41.1	< 1	-	< 0.5	36	5.63	43.7	-	< 0.001	< 0.002 ^a	
	QUL-17	2014 08 16	48.6	8.12	7.95	20.6	0.52	95.6	56	< 3	2.04	-	-	-	0.117	< 5	46	< 1	-	< 0.5	36	5.62	42.5	-	< 0.001	< 0.002 ^a	
QUL-18	QUL-17	2014 08 17	47.9	7.78	7.97	21.1	0.36	96.5	62	< 3	2.32	-	-	-	0.122	< 5	40.8	< 1	-	< 0.5	34	5.64	43.6	-	< 0.001	< 0.002 ^a	
	QUL-18-0M	2014 08 08	48.6	8.03	7.95	16.9	0.38	95.4	64	< 3	2.07	27	<u>1</u>	-	0.129	< 5	68.9	< 1	-	< 0.5	34	5.5	44	-	< 0.001	< 0.002 ^a	
	QUL-18-8M	2014 08 08	50.7	7.92	7.97	8.8	0.58	98.9	68	< 3	1.92	-	-	-	0.153	< 5	99.3	< 1	-	< 0.5	35	5.66	46.1	-	< 0.001	< 0.002 ^a	
	QUL-18-30M	2014 08 08	54.6	7.65	7.95	4.5	0.96	107	69	< 3	1.89	-	-	-	0.185	< 5	143	< 1	-	< 0.5	36	6.11	49.3	-	< 0.001	< 0.002 ^a	
	QUL-18-0M	2014 08 09	48.6	7.93	7.81	16.5	0.64	94.4	68	< 3	2.03	-	-	-	0.143	< 5	64.4	< 1	-	< 0.5	35	5.53	42.8	-	< 0.001	< 0.002 ^a	
	QUL-18-8M	2014 08 09	49.8	7.85	7.87	11.8	0.37	97.1	73	< 3	2.01	-	-	-	0.158	< 5	87.7	< 1	-	< 0.5	34	5.6	43.8	-	< 0.001	< 0.002 ^a	
	QUL-18-30M	2014 08 09	54.5	7.59	7.87	4.5	3.4	106	75	< 3	1.91	-	-	-	0.186	< 5	138	< 1	-	< 0.5	37	6.15	48	-	< 0.001	< 0.002 ^a	
	QUL-18	2014 08 10	48.8	7.77	7.91	20.5	0.39	96.2	63	< 3	2.25	-	-	-	0.136	< 5	56.3	< 1	-	< 0.5	34	5.59	45	-	< 0.001	< 0.002 ^a	
	QUL-18	2014 08 11	47.8	7.73	7.91	20.3	0.38	97.7	67	< 3	2.22	-	-	-	0.203	< 5	53.6	< 1	-	< 0.5	34	5.63	44.3	-	< 0.001	0.0022	
	QUL-18	2014 08 12	47.4	7.92	7.94	21.0	0.51	95.6	64	< 3	1.96	-	-	-	0.126	< 5	51.1	< 1	-	< 0.5	36	5.67	44.1	-	< 0.001	0.002	
	QUL-18-0M	2014 08 13	47.2	-	7.98	20.3	0.34	98.2	57	< 3	2.1	-	-	-	0.12	< 5	44.8	< 1	-	< 0.5	33	5.63	44.7	-	< 0.001	< 0.002 ^a	
	QUL-18-16M	2014 08 13	50.2	-	7.97	10.1	0.27	103	70	< 3	1.95	-	-	-	0.173	< 5	111	< 1	-	< 0.5	34	5.85	46.2	-	0.001	< 0.002 ^a	
	QUL-18-30M	2014 08 13	52.3	-	7.97	-	0.49	109	69	< 3	1.91	-	-	-	0.188	< 5	139	< 1	-	< 0.5	35	6.21	48.9	-	< 0.001	< 0.002 ^a	
	QUL-18	2014 08 14	49.2	8.04	7.97	21.2	0.22	97.9	67	< 3	1.98	-	-	-	0.105	< 5	46	< 1	-	< 0.5	35	5.65	44.1	-	< 0.001	< 0.002 ^a	
	QUL-18	2014 08 15	48.9	8.09	7.93	21.0	0.28	94.7	66	< 3	1.86	-	-	-	0.102	< 5	42.1	< 1	-	< 0.5	36	5.62	43.3	-	< 0.001	0.0025	
	QUL-18-0M	2014 08 16	48.3	8.08	7.95	20.4	0.62	94.7	64	< 3	2.02	-	-	-	0.106	< 5	41	< 1	-	< 0.5	36	5.6	43.9	-	< 0.001	< 0.002 ^a	
	QUL-18-10M	2014 08 16	50	7.82	7.94	13.9	1.4	97.4	64	< 3	2.06	-	-	-	0.136	< 5	87.9	< 1	-	< 0.5	36	5.82	44.6	-	< 0.001	< 0.002 ^a	
	QUL-18-30M	2014 08 16	54.6	7.60	7.91	4.7	3.17	106	68	< 3	1.7	-	-	-	0.173	< 5	141	< 1	-	< 0.5	38	6.37	49.1	-	< 0.001	< 0.002 ^a	
	QUL-18	2014 08 19	48.6	7.80	7.93	20.0	0.35	96.5	63	< 3	2.07	-	-	-	0.112	< 5	40.3	< 1	-	< 0.5	32	5.54	43.6	-	< 0.001	< 0.002 ^a	
	QUL-18	2014 08 26	50.6	7.79	8	18.5	0.45	97.8	74	< 3	2.2	-	-	-	0.143	< 5	50.7	< 1	-	< 0.5	35	5.75	44.8	-	< 0.001	< 0.002 ^a	
	QUL-18X	2014 08 26	50.9	7.79	7.99	18.5	0.38	97.4	78	< 3	2.11	-	-	-	0.12	< 5	50.9	< 1	-	< 0.5	35	5.75	42.1	-	< 0.001	< 0.002 ^a	
	QA/QC RPD %			< 1	0	< 1	0	*	< 1	5	*	*	-	-	-	*	*	< 1	*	-	*	*	0	6	-	*	*
	QUL-18	2014 09 02	50	7.95	8	17.86	0.24	96.5	72	< 3	1.99	-	-	-	0.118	6.6	42.7	< 1	-	< 0.5	32	5.75	44.5	-	< 0.001	0.0028	
	QUL-18	2014 09 03	49.9	8.03	7.97	17.8	0.36	98.3	66	< 3	2.03	-	-	-	0.113	5.5	41.6	< 1	-	< 0.5	32	5.71	45.2	-	< 0.001	0.0021	
	QUL18	2014 08 25	49.7	7.94	7.95	17.3	0.66	99.2	66	< 3	1.81	-	-	-	0.151	< 5	55.3	< 1	-	< 0.5	34	5.8	44.5	-	< 0.001	< 0.002 ^a	
	QUL-18	2014 08 27	49.6	7.95	7.99	18.7	0.32	98.4	69	< 3	2.11	-	-	-	0.122	< 5	46.2	< 1	-	< 0.5	34	5.75	44.6	-	< 0.001	0.0021	
	QUL-18	2014 08 28	49	8.15	7.94	19.5	0.31	97.1	72	< 3	2.28	-	-	-	0.133	< 5	46.2	< 1	-	< 0.5	35	5.76	45.1	-	< 0.001	< 0.002 ^a	
QUL-18	2014 08 30	49.8	-	7.95	-	0.66	97.8	55	< 3	2.11	-	-	-	0.2	5.4	55	< 1	-	< 0.5	43	5.81	44.5	-	< 0.001	< 0.002 ^a		
QUL-19	QUL-19	2014 08 08	48.4	8.10	7.99	18.7	0.37	95.3	61	< 3	2.08	236	<u>1</u>	-	0.122	< 5	49.6	< 1	-	< 0.5	34	5.51	43.8	-	< 0.001	< 0.002 ^a	
	QUL-19	2014 08 09	48.5	7.93	7.9	17.9	0.34	95.5	67	< 3	2.25	-	-	-	0.126	< 5	57.1	< 1	-	< 0.5	35	5.5	42.6	-	< 0.001	< 0.002 ^a	
	QUL-19	2014 08 10	48.2	7.87	7.92	20.7	0.42	95.7	65	< 3	2.3	-	-	-	0.126	< 5	43.4	< 1	-	< 0.5	35	5.63	45.3	-	< 0.001	< 0.002 ^a	
	QUL-19	2014 08 11	46.3	7.99	7.93	19.5	0.34	97.1	68	< 3	2.2	-	-	-	0.13	< 5	45.6	< 1	-	< 0.5	34	5.63	43.8	-	< 0.001	0.0026	
	QUL-19X	2014 08 11	46.1	7.99	7.93	19.5	0.38	97	67	< 3	2.35	-	-	-	0.126	< 5	47.5	< 1	-	< 0.5	33	5.62	44	-	< 0.001	0.0025	
	QA/QC RPD %			< 1	0	0	0	*	< 1	1	*	*	-	-	-	*	*	4	*	-	*	*	< 1	< 1	-	*	*
	QUL-19	2014																									

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Metals																												
			Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)	
BC Guidelines																															
BCWQG Aquatic Life (AW) ^{b,c}			100 ^d	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			50 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
BCWQG Drinking Water (DW) ^{b,c}			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Canadian Drinking Water Quality (DW) ^e			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
QUL-17	QUL-17	2014 08 15	9.6	16.3	< 30	1.88	0.574	0.473	0.836	< 0.1	0.12	5.52	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	-	0.301	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.127	< 1	< 3	
	QUL-17	2014 08 16	10.3	16.3	< 30	1.89	0.484	0.469	0.797	< 0.1	0.1	5.43	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.64	-	0.287	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.134	< 1	< 3	
	QUL-17	2014 08 17	10	16.1	< 30	1.88	0.894	0.47	0.82	< 0.1	0.1	5.37	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.59	-	0.292	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.132	< 1	< 3	
QUL-18	QUL-18-0M	2014 08 08	10.9	16.3	< 30	1.91	0.294	0.468	0.824	< 0.1	0.11	5.37	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.57	-	0.301	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.128	< 1	< 3	
	QUL-18-8M	2014 08 08	11.1	17	< 30	1.97	0.188	0.46	0.856	< 0.1	< 0.1	5.32	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.62	-	0.282	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.135	< 1	< 3	
	QUL-18-30M	2014 08 08	5.9	18.4	< 30	2.11	1.73	0.462	0.911	< 0.1	0.1	5.25	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.71	-	0.265	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.143	< 1	< 3	
	QUL-18-0M	2014 08 09	10.3	16.4	< 30	1.89	0.959	0.474	0.839	< 0.1	< 0.1	5.42	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.58	< 0.05	< 0.5	-	0.312	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.132	< 1	< 3	
	QUL-18-8M	2014 08 09	9.4	16.8	< 30	1.9	0.149	0.469	0.833	< 0.1	< 0.1	5.02	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	-	0.261	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.142	< 1	< 3	
	QUL-18-30M	2014 08 09	5.6	18.4	< 30	2.08	9.54	0.469	0.925	< 0.1	0.11	5.9	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.82	< 0.05	0.64	-	0.297	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.157	< 1	< 3	
	QUL-18	2014 08 10	11.4	16.4	< 30	1.89	1.18	0.493	0.854	< 0.1	0.1	5.53	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.54	< 0.05	0.54	-	0.29	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.131	< 1	< 3	
	QUL-18	2014 08 11	12.3	16.1	< 30	1.86	1.07	0.495	0.829	< 0.1	0.11	5.38	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	1.03	-	0.286	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.13	< 1	< 3	
	QUL-18	2014 08 12	10.1	16	< 30	1.84	0.438	0.484	0.827	< 0.1	0.1	5.22	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.53	< 0.05	0.76	-	0.3	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.134	< 1	< 3	
	QUL-18-0M	2014 08 13	9.2	15.8	< 30	1.87	0.224	0.463	0.834	< 0.1	0.1	5.43	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.93	-	0.315	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.13	< 1	< 3	
	QUL-18-16M	2014 08 13	10.5	17	< 30	1.91	0.094	0.449	0.834	< 0.1	< 0.1	4.96	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.98	-	0.257	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.145	< 1	< 3	
	QUL-18-30M	2014 08 13	5.8	17.7	< 30	2	0.639	0.466	0.922	< 0.1	< 0.1	4.96	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.62	< 0.05	0.87	-	0.289	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.157	< 1	< 3	
	QUL-18	2014 08 14	10	16.6	< 30	1.9	0.493	0.459	0.808	< 0.1	< 0.1	5.13	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.68	-	0.291	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.129	< 1	< 3	
	QUL-18	2014 08 15	10.1	16.5	< 30	1.9	0.508	0.469	0.826	< 0.1	0.11	5.45	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	-	0.305	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.13	< 1	< 3	
	QUL-18-0M	2014 08 16	10.2	16.2	< 30	1.89	0.584	0.473	0.808	< 0.1	0.11	5.53	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.51	< 0.05	0.62	-	0.306	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.131	< 1	< 3	
	QUL-18-10M	2014 08 16	10.5	16.9	< 30	1.87	0.544	0.479	0.83	< 0.1	< 0.1	6.38	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.64	< 0.05	0.63	-	0.282	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.146	< 1	< 3	
	QUL-18-30M	2014 08 16	6.1	18.5	< 30	2.06	4.41	0.497	0.986	< 0.1	0.12	6.1	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.07	< 0.05	0.59	-	0.335	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.169	< 1	< 3	
	QUL-18	2014 08 19	9.1	16.3	< 30	1.9	0.466	0.415	0.74	< 0.1	< 0.1	4.75	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.64	-	0.287	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.122	< 1	< 3	
	QUL-18	2014 08 26	8.8	17.1	< 30	1.93	0.625	0.431	0.784	< 0.1	< 0.1	5.19	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.65	< 0.05	0.62	-	0.271	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.124	< 1	< 3	
	QUL-18X	2014 08 26	9.7	17.2	< 30	1.95	0.673	0.45	0.799	< 0.1	0.1	5.28	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.71	< 0.05	0.55	-	0.272	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.13	< 1	< 3	
	QA/QC RPD %			*	< 1	*	1	7	4	2	*	*	2	*	*	*	*	*	*	*	-	< 1	*	*	*	*	*	*	5	*	*
	QUL-18	2014 09 02	10.1	16.8	< 30	1.93	0.267	0.474	0.834	< 0.1	0.1	5.33	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.58	< 0.05	0.66	-	0.296	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.139	< 1	< 3	
	QUL-18	2014 09 03	9.9	16.8	< 30	1.92	0.314	0.465	0.843	< 0.1	< 0.1	5.39	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.58	< 0.05	0.61	-	0.291	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.133	< 1	< 3	
	QUL18	2014 08 25	10.6	16.8	< 30	1.9	0.806	0.465	0.831	< 0.1	0.1	5.5	<																		

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																														
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silicon (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Tin (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																																	
BCWQG Aquatic Life (AW) ^{b,c}			n/a	20	5	5,000	n/a	n/a	1,200	0.016-0.055 ^d	n/a	1 (Cr(+6))	110	6.0-19.3 ^d	1,000	27.3-177.4 ^d	870	n/a	1001-2568 ^d	Methyl mercury analysis in progress	2,000	25-150 ^d	373,000-432,000	2	n/a	0.1-3.0 ^d	n/a	0.3	n/a	2,000	300	6	33-103.5 ^d
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a	1,000	5.3 ⁱ	n/a	n/a	n/a	n/a	4	2-7.4 ^d	n/a	4.4-10.2 ^d	14 ⁱ	n/a	791.1-1415 ^d	1,000		n/a	n/a	n/a	n/a	0.05-1.5 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.5-78 ^d
BCWQG Drinking Water (DW) ^{b,c}			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a	5,000
Canadian Drinking Water Quality (DW) ^e			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	1,000	300	10	n/a	n/a	50	1	n/a	n/a	n/a	10	n/a	n/a	200,000	n/a	n/a	n/a	20	n/a	n/a	5,000
QUL-17	QUL-17	2014 08 15	19.6	< 0.1	0.12	5.75	< 0.1	< 0.5	< 10	< 0.01	16,000	< 0.5	< 0.1	0.7	< 30	< 0.05	< 0.5	1,860	1.5	-	0.335	< 0.5	475	< 0.5	1,590	< 0.01	841	< 0.01	< 0.1	< 10	0.136	< 1	< 3
	QUL-17	2014 08 16	17.4	< 0.1	0.13	5.43	< 0.1	< 0.5	< 10	< 0.01	16,000	< 0.5	< 0.1	0.69	< 30	< 0.05	< 0.5	1,880	1.27	-	0.279	< 0.5	469	< 0.5	1,540	< 0.01	825	< 0.01	< 0.1	< 10	0.129	< 1	< 3
	QUL-17	2014 08 17	18.9	< 0.1	0.14	5.43	< 0.1	< 0.5	< 10	< 0.01	15,700	< 0.5	< 0.1	< 1	< 30	< 0.05	0.7	1,860	1.64	-	0.306	< 0.5	485	< 0.5	1,520	< 0.01	848	< 0.01	< 0.1	< 10	0.144	< 1	< 3
QUL-18	QUL-18-0M	2014 08 08	24.2	< 0.1	0.13	5.36	< 0.1	< 0.5	< 10	< 0.01	15,900	< 0.5	< 0.1	0.68	< 30	< 0.05	0.52	1,900	1.17	< 0.05	0.286	< 0.5	468	< 0.5	1,580	< 0.01	825	< 0.01	< 0.1	< 10	0.135	< 1	< 3
	QUL-18-8M	2014 08 08	28.3	< 0.1	0.13	5.47	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	0.94	< 30	< 0.05	0.56	1,930	1.36	< 0.05	0.279	< 0.5	464	< 0.5	1,620	< 0.01	847	< 0.01	< 0.1	< 10	0.137	< 1	< 3
	QUL-18-30M	2014 08 08	57.8	< 0.1	0.13	5.86	< 0.1	< 0.5	< 10	< 0.01	18,100	< 0.5	< 0.1	1.42	57	< 0.05	0.68	2,110	3.61	< 0.05	0.365	< 0.5	491	< 0.5	1,830	< 0.01	943	< 0.01	< 0.1	< 10	0.155	< 1	< 3
	QUL-18-0M	2014 08 09	33.1	< 0.1	0.13	5.64	< 0.1	< 0.5	< 10	< 0.01	16,000	< 0.5	< 0.1	1.1	< 30	< 0.05	< 0.5	1,890	1.91	< 0.05	0.307	< 0.5	475	< 0.5	1,600	< 0.01	830	< 0.01	< 0.1	< 10	0.141	< 1	< 3
	QUL-18-8M	2014 08 09	18.7	< 0.1	0.11	5.11	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	0.63	< 30	< 0.05	0.51	1,880	1.02	< 0.05	0.274	< 0.5	455	< 0.5	1,560	< 0.01	811	< 0.01	< 0.1	< 10	0.148	< 1	< 3
	QUL-18-30M	2014 08 09	206	< 0.1	0.19	8.54	< 0.1	< 0.5	< 10	< 0.01	18,200	< 0.5	0.13	4.29	183	0.06	0.67	2,180	13.7	< 0.05	0.293	< 0.5	541	< 0.5	2,170	< 0.01	959	< 0.01	< 0.1	12	0.157	< 1	< 3
	QUL-18	2014 08 10	24	< 0.1	0.12	5.65	< 0.1	< 0.5	< 10	< 0.01	16,200	< 0.5	< 0.1	0.81	< 30	< 0.05	< 0.5	1,900	1.89	< 0.05	0.302	< 0.5	500	< 0.5	1,620	< 0.01	869	< 0.01	< 0.1	< 10	0.137	< 1	< 3
	QUL-18	2014 08 11	22.3	< 0.1	0.13	5.55	< 0.1	< 0.5	< 10	< 0.01	16,200	< 0.5	< 0.1	0.78	< 30	< 0.05	0.84	1,890	1.74	< 0.05	0.319	< 0.5	494	< 0.5	1,540	< 0.01	840	< 0.01	< 0.1	< 10	0.14	< 1	< 3
	QUL-18	2014 08 12	17.9	< 0.1	0.11	5.25	< 0.1	< 0.5	< 10	< 0.01	16,000	< 0.5	< 0.1	0.74	< 30	< 0.05	0.89	1,890	1.83	< 0.05	0.327	< 0.5	480	< 0.5	1,570	< 0.01	839	< 0.01	< 0.1	< 10	0.145	< 1	< 3
	QUL-18-0M	2014 08 13	13.7	< 0.1	0.13	5.47	< 0.1	< 0.5	< 10	< 0.01	15,800	< 0.5	< 0.1	0.6	< 30	< 0.05	0.77	1,890	1.52	< 0.05	0.335	< 0.5	465	< 0.5	1,580	< 0.01	843	< 0.01	< 0.1	< 10	0.135	< 1	< 3
	QUL-18-16M	2014 08 13	13.8	< 0.1	0.11	4.99	< 0.1	< 0.5	< 10	< 0.01	16,800	< 0.5	< 0.1	0.53	< 30	< 0.05	0.81	1,920	0.882	< 0.05	0.25	< 0.5	446	< 0.5	1,570	< 0.01	838	< 0.01	< 0.1	< 10	0.146	< 1	< 3
	QUL-18-30M	2014 08 13	28.5	< 0.1	0.13	5.54	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	0.92	< 30	< 0.05	0.96	2,030	1.85	< 0.05	0.287	< 0.5	487	< 0.5	1,720	< 0.01	933	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUL-18	2014 08 14	15.5	< 0.1	0.11	5.23	< 0.1	< 0.5	< 10	< 0.01	16,300	< 0.5	< 0.1	0.56	< 30	< 0.05	0.63	1,890	1.04	-	0.307	< 0.5	473	< 0.5	1,590	< 0.01	823	< 0.01	< 0.1	< 10	0.135	< 1	< 3
	QUL-18	2014 08 15	15.7	< 0.1	0.15	5.42	< 0.1	< 0.5	< 10	< 0.01	15,900	< 0.5	< 0.1	0.58	< 30	< 0.05	< 0.5	1,850	1.28	-	0.347	< 0.5	469	< 0.5	1,590	< 0.01	829	< 0.01	< 0.1	< 10	0.133	< 1	< 3
	QUL-18-0M	2014 08 16	19.6	< 0.1	0.13	5.6	< 0.1	< 0.5	< 10	< 0.01	16,000	< 0.5	< 0.1	0.74	< 30	< 0.05	< 0.5	1,900	1.66	-	0.34	< 0.5	485	< 0.5	1,570	< 0.01	839	< 0.01	< 0.1	< 10	0.137	< 1	< 3
	QUL-18-10M	2014 08 16	68.7	< 0.1	0.12	6	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	2.14	48	< 0.05	< 0.5	1,860	2.5	-	0.291	< 0.5	484	< 0.5	1,600	< 0.01	855	< 0.01	< 0.1	< 10	0.147	< 1	< 3
	QUL-18-30M	2014 08 16	171	0.11	0.16	8.06	< 0.1	< 0.5	< 10	< 0.01	18,300	< 0.5	0.11	5	149	0.087	< 0.5	2,130	9.05	-	0.358	< 0.5	524	< 0.5	2,040	< 0.01	977	< 0.01	< 0.1	11	0.161	< 1	< 3
	QUL-18	2014 08 19	15.3	< 0.1	0.13	5.53	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	0.64	< 30	< 0.05	1.05	1,920	1.29	-	0.323	< 0.5	488	< 0.5	1,570	< 0.01	849	< 0.01	< 0.1	< 10	0.14	< 1	< 3
	QUL-18	2014 08 26	30.4	< 0.1	0.12	5.49	< 0.1	< 0.5	< 10	< 0.01	16,600	< 0.5	<																				

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Physical Parameters									Microbiological Tests		Total Inorganics													
			Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Coliform (MPN/0.1L)	E. Coli (MPN/0.1L)	Total Kjeldahl Nitrogen (N) (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Bromide (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus ^g (mg/L)	
BC Guidelines																											
BCWQG Aquatic Life (AW) ^{b,c}			n/a	6.5-9.0	6.5-9.0	+/-1 Degree change from ambient	Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	n/a	5,680-18,400 ^d	32,800	60-120 ^d	32,800 ^f	600	988.2-1579 ^d	n/a	n/a	n/a	n/a	n/a	0.005-0.015	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a		Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	n/a	n/a	1,090-1,770 ^d	3,000	20-40 ^d	3,000 ^f	150	n/a	128-429 ^d	n/a	n/a	n/a	n/a	
BCWQG Drinking Water (DW) ^{b,c}			n/a	6.5-8.5	6.5-8.5	n/a ⁱ	Change of 1	n/a	n/a	n/a	n/a	n/a ^j	0/100ml	n/a	n/a	10,000	1,000	10,000 ^f	250	1,000	500	n/a	n/a	n/a	0.01		
Canadian Drinking Water Quality (DW) ^e			n/a	6.5-8.5	6.5-8.5	n/a ⁱ	n/a ^j	n/a	500	n/a	n/a	n/a ^j	0/100ml	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a	
QUL-20	QUL-20	2014 08 08	52.5	7.76	7.95	8.1	0.43	104	68	< 3	2.04	15	< 1	-	0.164	< 5	123	< 1	-	< 0.5	35	5.88	47.7	-	< 0.001	< 0.002 ^a	
	QUL-20X	2014 08 08	52.7	7.76	7.96	-	0.45	104	69	< 3	1.89	15	< 1	-	0.174	< 5	123	< 1	-	< 0.5	35	5.9	48.5	-	< 0.001	< 0.002 ^a	
	QA/QC RPD %		< 1	0	< 1	*	*	0	1	*	*	0	*	-	*	*	0	*	-	*	*	< 1	2	-	*	*	
	QUL-20	2014 08 09	50.8	7.73	7.84	11.0	0.46	100	69	< 3	2.14	-	-	-	0.174	< 5	104	< 1	-	< 0.5	34	5.77	45	-	< 0.001	< 0.002 ^a	
	QUL-20	2014 08 11	47.5	7.89	7.93	16.2	0.41	98.9	71	< 3	2.28	-	-	-	0.183	< 5	73	< 1	-	< 0.5	34	5.67	44.7	-	< 0.001	0.0023	
	QUL-20	2014 08 12	47.6	8.00	7.9	17.0	0.26	97.2	68	< 3	1.83	-	-	-	0.144	< 5	65.7	< 1	-	< 0.5	33	5.64	44.2	-	< 0.001	< 0.002 ^a	
	QUL-20	2014 08 13	47.8	-	7.98	19.2	0.53	98.2	59	< 3	2.16	-	-	-	0.13	< 5	51.5	< 1	-	< 0.5	33	5.62	44.6	-	< 0.001	< 0.002 ^a	
	QUL-20	2014 08 14	49.3	8.06	7.96	19.3	0.26	99.1	70	< 3	2.17	-	-	-	0.139	< 5	49.4	< 1	-	< 0.5	36	5.63	44.4	-	< 0.001	< 0.002 ^a	
	QUL-20	2014 08 15	49.4	8.05	7.99	17.6	0.4	97.6	62	< 3	1.86	-	-	-	0.123	< 5	62	< 1	-	< 0.5	36	5.65	43.7	-	< 0.001	< 0.002 ^a	
	QUL-20X	2014 08 15	49.6	8.05	7.98	17.6	0.28	97.6	65	< 3	1.79	-	-	-	0.123	< 5	59.5	< 1	-	< 0.5	36	5.65	43.8	-	< 0.001	< 0.002 ^a	
	QA/QC RPD %		< 1	0	< 1	0	*	0	5	*	*	-	-	-	*	*	4	*	-	*	*	0	< 1	-	*	*	
	QUL-20	2014 08 16	49	7.94	7.97	17.7	0.31	95.6	66	< 3	1.95	-	-	-	0.114	< 5	57.5	< 1	-	< 0.5	35	5.64	43.6	-	< 0.001	< 0.002 ^a	
	QUL-20	2014 08 17	47.5	7.79	7.97	17.9	0.37	97.2	63	< 3	2.5	-	-	-	0.144	< 5	58.6	< 1	-	< 0.5	34	5.65	44	-	< 0.001	< 0.002 ^a	
	QUL20	2014 08 22	50.4	7.80	7.86	13.6	1	98.2	69	< 3	2.51	-	-	-	0.162	< 5	81.4	< 1	-	< 0.5	34	5.78	44.4	-	< 0.001	< 0.002 ^a	
	QUL-20-0M	2014 08 23	50.5	7.73	7.8	14.3	0.84	99.6	62	< 3	2.18	-	-	-	0.184	5.6	84.3	< 1	-	< 0.5	35	5.75	44.8	-	< 0.001	< 0.002 ^a	
	QUL-20-10M	2014 08 23	50.6	7.48	7.88	13.7	1	102	65	< 3	2.13	-	-	-	0.162	< 5	86.5	< 1	-	< 0.5	35	5.76	45.6	-	0.0025	0.0036	
	QUL-20-20M	2014 08 23	53.8	7.43	7.86	13.1	1.06	101	67	< 3	2.1	-	-	-	0.15	< 5	91.1	< 1	-	< 0.5	35	5.76	45.8	-	< 0.001	0.0024	
	QUL-20	2014 08 26	50.5	7.57	7.98	16.7	0.63	97.1	71	< 3	2.2	-	-	-	0.17	< 5	63.5	< 1	-	< 0.5	37	5.82	44.8	-	< 0.001	0.0021	
	QUL-20	2014 08 27	50.3	7.90	7.98	17.5	0.76	99.2	70	< 3	2.21	-	-	-	0.126	< 5	55.6	< 1	-	< 0.5	34	5.8	44.1	-	< 0.001	0.0022	
	QUL-20	2014 08 27	50	7.90	7.93	17.5	0.87	101	69	< 3	1.94	-	-	-	0.145	< 5	64.2	< 1	-	< 0.5	35	5.84	45.2	-	0.0011	0.0023	
	QUL-20	2014 08 28	50	8.12	7.92	17.9	0.71	98	55	< 3	2.19	-	-	-	0.145	5.3	51.8	< 1	-	< 0.5	34	5.78	45.8	-	< 0.001	0.0024	
	QUL-20	2014 08 29	49.4	-	7.96	-	0.45	97.1	62	< 3	2.1	-	-	-	0.125	< 5	48.6	< 1	-	< 0.5	35	5.73	44.2	-	< 0.001	< 0.002 ^a	
	QUL-20	2014 08 30	49.1	8.10	7.94	17.6	0.58	97.6	60	< 3	1.99	-	-	-	0.134	5.6	49.7	< 1	-	< 0.5	34	5.69	44.5	-	< 0.001	< 0.002 ^a	
	QUL-20	2014 08 31	49.1	8.08	7.92	17.74	0.37	99.8	58	< 3		-	-	-	0.131	< 5	48.7	< 1	-	< 0.5	33	5.7	44.5	-	< 0.001	< 0.002 ^a	
	QUL-20	2014 09 02	50.6	7.82	7.97	17.74	0.49	96.7	70	< 3		-	-	-	0.151	7.1	43.4	< 1	-	< 0.5	32	5.74	45	-	< 0.001	0.0024	
	QUL-20	2014 09 03	50.2	7.94	7.96	17.01	0.43	98.7	65	< 3	2.24	-	-	-	0.116	6.7	49.5	< 1	-	< 0.5	33	5.78	45.3	-	< 0.001	0.0022	
QUL-21	QUL-21-0M	2014 08 08	49.5	7.90	7.91	14.7	0.29	97.6	72	< 3	2.51	-	-	-	0.159	< 5	85.6	< 1	-	< 0.5	34	5.57	43.6	-	< 0.001	< 0.002 ^a	
	QUL-21-7M	2014 08 08	50.7	7.85	7.91	8.9	0.25	99.5	72	< 3	2.11	-	-	-	0.174	< 5	100	< 1	-	< 0.5	35	5.66	44.5	-	< 0.001	< 0.002 ^a	
	QUL-21-30M	2014 08 08	54.3	7.67	7.9	4.4	0.78	108	77	< 3	2.16	-	-	-	0.193	< 5	141	< 1	-	< 0.5	36	6.12	48	-	< 0.001	< 0.002 ^a	
	QUL-21	2014 08 09	49.3	7.81	7.88	16.1	0.36	96.7	68	< 3	2.33	-	-	-	0.137	< 5	73.9	< 1	-	< 0.5	34	5.52	43.2	-	< 0.001	< 0.002 ^a	
	QUL-21	2014 08 11	47.8	7.90	7.92	19.7	0.77	97.8	65	< 3	2.27	-	-	-	0.132	< 5	57.3	< 1	-	< 0.5	33	5.64	44	-	< 0.001	< 0.002 ^a	
	QUL-21-0M	2014 08 12	48.1	7.98	7.96	-	0.4	95.9	65	< 3	1.97	-	-	-	0.13	< 5	55.1	< 1	-	< 0.5	36	5.66	43.8	-	< 0.001	< 0.002 ^a	
	QUL-21X	2014 08 12	48.9	7.98	7.95	-	0.49	96.3	65	< 3	1.95	-	-	-	0.126	< 5	54.1	< 1	-	< 0.5	36	5.64	44.3	-	< 0.001	< 0.002 ^a	
	QA/QC RPD %		2	0	< 1	-	*	< 1	0	*	*	-	-	-	*	*	2	*	-	*	*	< 1	1	-	*	*	
	QUL-21-12M	2014 08 12	48.2	8.15	7.94	12.9	0.55	98.7	68	< 3	1.87	-	-	-	0.171	< 5	88.2	< 1	-	< 0.5	36	5.77	44.6	-	< 0.001	< 0.002 ^a	
	QUL-21-30M	2014 08 12	54.3	7.57	7.96	4.6	0.39	107	72	< 3	1.74	-	-	-	0.191	< 5	139	< 1	-	< 0.5	38	6.19	49.6	-	< 0.001	< 0.002 ^a	
	QUL-21	2014 08 13	47.6	-	8	20.9	0.29	98.2	59	< 3	2.09	-	-	-	0.135	< 5	44.2	< 1	-	< 0.5	32	5.62	44.4	-</			

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Metals																												
			Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)	
BC Guidelines																															
BCWQG Aquatic Life (AW) ^{b,c}			100 ^d	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			50 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
BCWQG Drinking Water (DW) ^{b,c}			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Canadian Drinking Water Quality (DW) ^e			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
QUL-20	QUL-20	2014 08 08	7.4	17.7	< 30	2.04	0.365	0.463	0.892	< 0.1	0.11	5.25	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.73	-	0.276	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.136	< 1	< 3	
	QUL-20X	2014 08 08	7.5	17.7	< 30	2.04	0.339	0.466	0.892	< 0.1	< 0.1	5.14	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.68	-	0.263	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.137	< 1	< 3	
	QA/QC RPD %		*	0	*	0	7	< 1	0	*	*	2	*	*	*	*	*	*	*	*	-	5	*	*	*	*	*	< 1	*	*	
	QUL-20	2014 08 09	8.1	17.1	< 30	1.95	0.355	0.459	0.847	< 0.1	< 0.1	5.12	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.61	-	0.287	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.138	< 1	< 3	
	QUL-20	2014 08 11	12.1	16	< 30	1.85	0.301	0.489	0.847	< 0.1	0.11	5.22	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.51	< 0.05	1.07	-	0.26	0.53	< 0.5	< 0.01	< 0.01	< 10	0.132	< 1	< 3	
	QUL-20	2014 08 12	9.9	16.1	< 30	1.82	0.127	0.463	0.823	< 0.1	< 0.1	5.51	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.75	-	0.299	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.137	< 1	< 3	
	QUL-20	2014 08 13	9.6	16.1	< 30	1.88	0.163	0.476	0.847	< 0.1	< 0.1	5.3	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	1.04	-	0.312	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.135	< 1	< 3	
	QUL-20	2014 08 14	10.6	16.6	< 30	1.89	0.392	0.471	0.825	< 0.1	0.11	5.26	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.7	-	0.299	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.13	< 1	< 3	
	QUL-20	2014 08 15	9.9	16.7	< 30	1.9	0.354	0.469	0.826	< 0.1	0.12	5.73	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	-	0.3	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.139	< 1	< 3	
	QUL-20X	2014 08 15	10.1	16.7	< 30	1.89	0.35	0.472	0.826	< 0.1	0.11	5.65	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	-	0.299	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.138	< 1	< 3	
	QA/QC RPD %		*	0	*	< 1	1	< 1	0	*	*	1	*	*	*	*	*	*	*	*	-	< 1	*	*	*	*	*	*	< 1	*	*
	QUL-20	2014 08 16	9.9	16.4	< 30	1.93	0.333	0.45	0.791	< 0.1	0.11	5.18	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	-	0.281	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.132	< 1	< 3	
	QUL-20	2014 08 17	9.9	16	< 30	1.86	0.423	0.471	0.832	< 0.1	0.11	5.28	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.57	-	0.28	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.137	< 1	< 3	
	QUL20	2014 08 22	10.2	17	< 30	1.91	0.767	0.461	0.837	< 0.1	0.1	5.51	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.85	< 0.05	0.89	-	0.267	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.138	< 1	< 3	
	QUL-20-0M	2014 08 23	10.7	17.1	< 30	1.92	0.946	0.512	0.872	< 0.1	< 0.1	5.45	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.34	0.134	0.93	-	0.282	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.139	< 1	< 3	
	QUL-20-10M	2014 08 23	8.5	17.1	< 30	1.91	0.781	0.468	0.829	< 0.1	< 0.1	5.47	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.09	< 0.05	1.03	-	0.274	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.139	< 1	< 3	
	QUL-20-20M	2014 08 23	11.8	18.2	< 30	2.06	0.749	0.476	0.831	< 0.1	< 0.1	5.46	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.01	< 0.05	1	-	0.275	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.14	< 1	< 3	
	QUL-20	2014 08 26	8.9	17	< 30	1.94	0.694	0.451	0.805	< 0.1	0.11	5.52	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.99	< 0.05	0.62	-	0.277	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.132	< 1	< 3	
	QUL-20	2014 08 27	10.1	17	< 30	1.93	0.67	0.465	0.874	< 0.1	0.11	5.6	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.93	< 0.05	0.75	-	0.278	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.139	< 1	< 3	
	QUL-20	2014 08 27	10.1	16.9	< 30	1.93	0.917	0.491	0.897	< 0.1	0.12	5.49	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.94	< 0.05	0.62	-	0.288	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.132	< 1	< 3	
	QUL-20	2014 08 28	10	16.8	< 30	1.94	0.581	0.47	0.836	< 0.1	0.11	5.52	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.85	< 0.05	< 0.5	-	0.299	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.141	< 1	< 3	
	QUL-20	2014 08 29	10.3	16.6	< 30	1.91	0.499	0.461	0.825	< 0.1	0.12	5.36	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.78	< 0.05	0.6	-	0.278	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.137	< 1	< 3	
	QUL-20	2014 08 30	10	16.5	< 30	1.91	0.511	0.49	0.844	< 0.1	< 0.1	5.35	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.88	< 0.05	< 0.5	-	0.293	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.136	< 1	< 3	
	QUL-20	2014 08 31	11.1	16.5	< 30	1.91	0.436	0.454	0.821	< 0.1	0.12	5.34	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.74	< 0.05	0.74	-	0.29	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.132	< 1	< 3	
	QUL-20	2014 09 02	9.3	17	< 30	1.95	0.387	0.465	0.833	< 0.1	0.11	5.48	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.6	< 0.05	0.76	-	0.294	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.135	< 1	< 3	
	QUL-20	2014 09 03	9.6	16.9	< 30	1.94	0.358	0.461	0.842	< 0.1	0.12	5.5	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.66	< 0.05	0.63	-	0.282	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.133	< 1	< 3	
QUL-21	QUL-21-0M	2014 08 08	9.3	16.7	< 30	1.93	0.368	0.462	0.832	< 0.1	< 0.1	5.21	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	-	0.273	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.158	< 1	< 3	
	QUL-21-7M	2014 08 08	8.8	17.1	&																										

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																														
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silicon (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Tin (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																																	
BCWQG Aquatic Life (AW) ^{b,c}			n/a	20	5	5,000	n/a	n/a	1,200	0.016-0.055 ^d	n/a	1 (Cr(+6))	110	6.0-19.3 ^d	1,000	27.3-177.4 ^d	870	n/a	1001-2568 ^d	Methyl mercury analysis in progress	2,000	25-150 ^d	373,000-432,000	2	n/a	0.1-3.0 ^d	n/a	0.3	n/a	2,000	300	6	33-103.5 ^d
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a	1,000	5.3 ⁱ	n/a	n/a	n/a	n/a	4	2-7.4 ^d	n/a	4.4-10.2 ^d	14 ⁱ	n/a	791.1-1415 ^d	1,000		n/a	n/a	n/a	n/a	0.05-1.5 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.5-79 ^d
BCWQG Drinking Water (DW) ^{b,c}			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	5,000	
Canadian Drinking Water Quality (DW) ^e			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	1,000	300	10	n/a	n/a	n/a	1	n/a	n/a	n/a	10	n/a	n/a	200,000	n/a	n/a	n/a	20	n/a	5,000	
QUL-20	QUL-20	2014 08 08	22.4	< 0.1	0.13	5.42	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	0.66	< 30	< 0.05	0.58	2,040	1.48	< 0.05	0.288	< 0.5	483	< 0.5	1,720	< 0.01	901	< 0.01	< 0.1	< 10	0.145	< 1	< 3
	QUL-20X	2014 08 08	26.2	< 0.1	0.12	5.45	< 0.1	< 0.5	< 10	< 0.01	17,600	< 0.5	< 0.1	0.7	< 30	< 0.05	0.59	2,070	1.49	< 0.05	0.285	< 0.5	487	< 0.5	1,740	< 0.01	928	< 0.01	< 0.1	< 10	0.15	< 1	< 3
	QA/QC RPD %		16	*	*	< 1	*	*	*	*	1	*	*	*	*	*	*	2	*	*	1	*	< 1	*	1	*	3	*	*	*	3	*	*
	QUL-20	2014 08 09	20	< 0.1	0.11	5.21	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	0.69	< 30	< 0.05	0.59	1,980	1.24	< 0.05	0.281	< 0.5	475	< 0.5	1,670	< 0.01	867	< 0.01	< 0.1	< 10	0.148	< 1	< 3
	QUL-20	2014 08 11	23.4	< 0.1	0.14	5.25	< 0.1	< 0.5	< 10	< 0.01	15,900	< 0.5	< 0.1	0.71	< 30	< 0.05	0.9	1,860	1.16	< 0.05	0.3	< 0.5	487	< 0.5	1,530	< 0.01	843	< 0.01	< 0.1	< 10	0.143	< 1	< 3
	QUL-20	2014 08 12	19.9	< 0.1	0.12	5.12	< 0.1	< 0.5	< 10	< 0.01	16,300	< 0.5	< 0.1	0.69	< 30	< 0.05	0.82	1,850	1.18	< 0.05	0.293	< 0.5	471	< 0.5	1,560	< 0.01	836	< 0.01	< 0.1	< 10	0.14	< 1	< 3
	QUL-20	2014 08 13	15.6	< 0.1	0.16	5.44	< 0.1	< 0.5	< 10	< 0.01	16,600	< 0.5	< 0.1	0.74	< 30	< 0.05	0.65	1,940	1.26	< 0.05	0.31	< 0.5	489	< 0.5	1,600	< 0.01	871	< 0.01	< 0.1	< 10	0.141	< 1	< 3
	QUL-20	2014 08 14	17.1	< 0.1	0.12	5.41	< 0.1	< 0.5	< 10	< 0.01	16,300	< 0.5	< 0.1	0.66	< 30	< 0.05	0.69	1,880	1.35	-	0.306	< 0.5	472	< 0.5	1,610	< 0.01	833	< 0.01	< 0.1	< 10	0.136	< 1	< 3
	QUL-20	2014 08 15	20.3	< 0.1	0.13	5.84	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	0.64	< 30	< 0.05	< 0.5	1,890	1.31	-	0.323	< 0.5	472	< 0.5	1,590	< 0.01	833	< 0.01	< 0.1	< 10	0.14	< 1	< 3
	QUL-20X	2014 08 15	17.4	< 0.1	0.13	5.93	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	0.61	< 30	< 0.05	< 0.5	1,890	1.38	-	0.292	< 0.5	476	< 0.5	1,610	< 0.01	848	< 0.01	< 0.1	< 10	0.134	< 1	< 3
	QA/QC RPD %		15	*	*	2	*	*	*	*	0	*	*	*	*	*	*	0	*	-	10	*	< 1	*	1	*	2	*	*	*	4	*	*
	QUL-20	2014 08 16	17.6	< 0.1	1.06	5.28	< 0.1	< 0.5	< 10	0.034	16,000	< 0.5	< 0.1	0.59	< 30	< 0.05	0.56	1,870	1.26	-	0.303	< 0.5	465	< 0.5	1,540	< 0.01	821	< 0.01	< 0.1	< 10	0.145	< 1	< 3
	QUL-20	2014 08 17	19	< 0.1	0.13	5.3	< 0.1	< 0.5	< 10	< 0.01	16,100	< 0.5	< 0.1	< 1	< 30	< 0.05	0.63	1,880	1.46	-	0.294	< 0.5	471	< 0.5	1,560	< 0.01	850	< 0.01	< 0.1	< 10	0.147	< 1	< 3
	QUL20	2014 08 22	50.8	< 0.1	0.13	5.92	< 0.1	< 0.5	< 10	< 0.01	16,700	< 0.5	< 0.1	2.03	41	< 0.05	0.76	1,930	2.45	-	0.287	< 0.5	479	< 0.5	1,600	< 0.01	855	< 0.01	< 0.1	< 10	0.145	< 1	< 3
	QUL-20-0M	2014 08 23	59.8	< 0.1	0.14	5.87	< 0.1	< 0.5	< 10	< 0.01	16,900	< 0.5	< 0.1	2.35	47	< 0.05	0.99	1,930	2.79	< 0.05	0.275	< 0.5	511	< 0.5	1,650	< 0.01	851	< 0.01	< 0.1	< 10	0.143	< 1	< 3
	QUL-20-10M	2014 08 23	56.9	< 0.1	0.13	6	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	2.16	47	< 0.05	0.93	1,930	2.56	< 0.05	0.303	< 0.5	477	< 0.5	1,660	< 0.01	840	< 0.01	< 0.1	< 10	0.146	< 1	< 3
	QUL-20-20M	2014 08 23	57.9	< 0.1	0.13	6.04	< 0.1	< 0.5	< 10	< 0.01	18,100	< 0.5	< 0.1	2.3	51	< 0.05	0.98	2,070	2.87	< 0.05	0.294	< 0.5	498	< 0.5	1,770	< 0.01	875	< 0.01	< 0.1	< 10	0.142	< 1	< 3
	QUL-20	2014 08 26	48.5	< 0.1	0.13	6.15	< 0.1	< 0.5	< 10	< 0.01	16,700	< 0.5	< 0.1	2.05	40	< 0.05	0.69	1,930	2.3	< 0.01	0.308	< 0.5	470	< 0.5	1,610	< 0.01	848	< 0.01	< 0.1	< 10	0.138	< 1	< 3
	QUL-20	2014 08 27	39.4	< 0.1	0.12	5.95	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	1.69	< 30	< 0.05	0.69	1,900	1.95	< 0.01	0.319	< 0.5	479	< 0.5	1,550	< 0.01	892	< 0.01	< 0.1	< 10	0.152	< 1	< 3
	QUL-20	2014 08 27	38.1	< 0.1	0.15	5.9	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	1.6	31	< 0.05	0.67	1,970	2.04	< 0.01	0.314	< 0.5	484	< 0.5	1,630	< 0.01	929	< 0.01	< 0.1	< 10	0.141	< 1	< 3
	QUL-20	2014 08 28	31.3	< 0.1	0.14	6.04	< 0.1	< 0.5	< 10	< 0.01	16,800	< 0.5	< 0.1	1.36	< 30	< 0.05	< 0.5	1,950	1.93	< 0.01	0.317	< 0.5	495	< 0.5	1,560	< 0.01	861	< 0.01	< 0.1	< 10	0.148	< 1	< 3
	QUL-20	2014 08 29	20.3	< 0.1	0.13	5.28	< 0.1	< 0.5	< 10	< 0.01	16,100	< 0.5	< 0.1	1.07	< 30	< 0.05	0.5	1,870	1.26	< 0.01	0.276	< 0.5	451	< 0.5	1,460	< 0.01	819	< 0.01	< 0.1	< 10	0.14	< 1	< 3
	QUL-20	2014 08 30	21.5	< 0.1	0.14	5.43	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	1.03	< 30	< 0.05	< 0.5	1,890	1.47	< 0.01	0.294												

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Physical Parameters									Microbiological Tests		Total Inorganics													
			Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Coliform (MPN/0.1L)	E. Coli (MPN/0.1L)	Total Kjeldahl Nitrogen (N) (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Bromide (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus ^g (mg/L)	
BC Guidelines																											
BCWQG Aquatic Life (AW) ^{b,c}			n/a	6.5-9.0	6.5-9.0	+/-1 Degree change from ambient	Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	n/a	5,680-18,400 ^d	32,800	60-120 ^d	32,800 ^f	600	988.2-1579 ^d	n/a	n/a	n/a	n/a	n/a	0.005-0.015	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a		Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	n/a	n/a	1,090-1,770 ^d	3,000	20-40 ^d	3,000 ^f	150	n/a	128-429 ^d	n/a	n/a	n/a	n/a	
BCWQG Drinking Water (DW) ^{b,c}			n/a	6.5-8.5	6.5-8.5	n/a ^j	Change of 1	n/a	n/a	n/a	n/a	n/a ^j	0/100ml	n/a	n/a	10,000	1,000	10,000 ^f	250	1,000	500	n/a	n/a	n/a	0.01		
Canadian Drinking Water Quality (DW) ^e			n/a	6.5-8.5	6.5-8.5	n/a ^j	n/a ^j	n/a	500	n/a	n/a	n/a ^j	0/100ml	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a	
QUL-21	QUL-21-0M	2014 08 26	49.8	7.83	7.99	17.5	0.53	97.9	69	< 3	2.11	-	-	-	0.12	< 5	57.2	< 1	-	< 0.5	35	5.77	44.7	-	< 0.001	< 0.002 ^a	
	QUL-21-21M	2014 08 26	50.9	7.43	7.99	5.7	1.3	99.3	69	< 3	2.21	-	-	-	0.226	< 5	75.9	< 1	-	< 0.5	35	6	44.9	-	< 0.001	< 0.002 ^a	
	QUL-21-47M	2014 08 26	70.1	7.59	8.01	6.0	61.9	153	113	17.5	2.15	-	-	-	0.396	49.2	237	2.7	-	0.54	66	17	59.8	-	0.0024	0.0059	
	QUL-21-0M	2014 08 28	49	8.10	7.94	19.3	0.32	96.5	58	< 3	2.27	-	-	-	0.142	< 5	47.3	< 1	-	< 0.5	34	5.76	45	-	< 0.001	< 0.002 ^a	
	QUL-21-16M	2014 08 28	50.7	7.75	7.88	10.3	1.91	100	66	< 3	2.48	-	-	-	0.199	7.2	104	< 1	-	< 0.5	35	5.96	46.6	-	< 0.001	< 0.002 ^a	
	QUL-21-46M	2014 08 28	70.2	7.89	7.96	6.1	79.1	153	104	38.2	2.14	-	-	-	0.396	59.3	238	1.9	-	0.56	73	17.4	61.8	-	< 0.001	0.0042	
	QUL-21-0M	2014 09 03	50.1	8.02	7.99	17.88	0.33	98.7	65	< 3	2.14	-	-	-	0.11	5.6	42.4	< 1	-	< 0.5	33	5.7	45.7	-	< 0.001	0.0022	
	QUL-21-6M	2014 09 03	50.9	7.42	7.96	12.58	3.09	102	68	< 3	2.07	-	-	-	0.15	8	88.3	< 1	-	< 0.5	33	5.95	46.5	-	< 0.001	0.002	
	QUL-21-47M	2014 09 03	69.9	7.59	8.03	5.94	67.2	152	105	7	2.13	-	-	-	0.368	58.3	227	1.4	-	0.52	64	16.5	60	-	0.0021	0.0045	
	QUL-21X-47M	2014 09 03	70.3	7.59	8.01	5.94	65.6	151	106	7.5	2.02	-	-	-	0.368	51.8	224	1.3	-	0.51	64	16.3	60.2	-	0.0023	0.0036	
QA/QC RPD %			< 1	0	< 1	0	2	< 1	< 1	*	*	-	-	-	0	12	1	*	-	*	*	1	< 1	-	*	*	
QUL-22	QUL-22	2014 08 08	49.6	7.85	7.91	13.8	0.34	99.5	70	< 3	2.21	-	-	-	0.162	< 5	95.5	< 1	-	< 0.5	34	5.62	44.2	-	< 0.001	< 0.002 ^a	
	QUL-22	2014 08 09	49.5	7.77	7.87	16.8	0.4	97.1	69	< 3	2.26	-	-	-	0.148	< 5	78.6	< 1	-	< 0.5	35	5.6	43	-	< 0.001	< 0.002 ^a	
	QUL-22	2014 08 10	48.7	7.90	7.92	18.4	0.35	96.3	64	< 3	2.26	-	-	-	0.135	< 5	67.4	< 1	-	< 0.5	35	5.59	45.4	-	< 0.001	< 0.002 ^a	
	QUL-22	2014 08 11	47.3	7.81	7.94	20.0	0.51	98.5	67	< 3	2.23	-	-	-	0.144	< 5	60.1	< 1	-	< 0.5	34	5.64	44.3	-	< 0.001	< 0.002 ^a	
	QUL-22	2014 08 12	47.3	8.01	7.97	20.4	0.51	95.3	64	< 3	1.94	-	-	-	0.132	< 5	58.2	< 1	-	< 0.5	34	5.69	44.3	-	0.0014	< 0.002 ^a	
	QUL-22	2014 08 13	47.4	-	7.98	20.6	0.32	98.1	60	< 3	2.2	-	-	-	0.123	< 5	44.8	< 1	-	< 0.5	32	5.63	44.5	-	< 0.001	< 0.002 ^a	
	QUL-22	2014 08 14	49.6	7.84	7.91	21.1	0.31	97.2	65	< 3	2.1	-	-	-	0.108	< 5	41.2	< 1	-	< 0.5	36	5.62	43.3	-	< 0.001	< 0.002 ^a	
	QUL-22	2014 08 15	45.2	8.11	7.99	20.7	0.21	95.9	70	< 3	1.89	-	-	-	0.101	< 5	40.1	< 1	-	< 0.5	35	5.61	43.7	-	< 0.001	0.0024	
	QUL-22	2014 08 16	47.9	8.19	7.91	20.7	0.29	94.2	63	< 3	2.09	-	-	-	0.106	< 5	40.6	< 1	-	< 0.5	36	5.59	43.4	-	< 0.001	< 0.002 ^a	
	QUL-22	2014 08 17	47.4	7.88	7.98	21.1	0.29	96.6	63	< 3	2.4	-	-	-	0.123	< 5	41.3	< 1	-	< 0.5	34	5.61	44.2	-	< 0.001	< 0.002 ^a	
	QUL-22	2014 08 19	48.5	7.90	7.92	20.1	0.44	96.7	64	< 3	2.1	-	-	-	0.111	< 5	39	< 1	-	< 0.5	32	5.53	44.3	-	< 0.001	< 0.002 ^a	
	QUL-22	2014 08 21	49.5	8.25	7.76	17.4	0.65	96.6	63	< 3	1.95	-	-	-	0.131	< 5	60.7	< 1	-	< 0.5	35	5.67	43	-	< 0.001	< 0.002 ^a	
	QUL22	2014 08 22	49.9	7.98	7.92	17.3	0.54	96.9	66	< 3	2.41	-	-	-	0.138	< 5	64.5	< 1	-	< 0.5	34	5.71	51.2	-	< 0.001	0.0051	
	QUL-22	2014 08 23	49.8	7.85	7.86	17.1	0.55	99.2	62	< 3	2.2	-	-	-	0.132	< 5	69	< 1	-	< 0.5	32	5.69	44.7	-	< 0.001	< 0.002 ^a	
	QUL-22-0M	2014 08 26	49.6	7.78	7.98	17.3	0.52	96.9	68	< 3	2.16	-	-	-	0.124	< 5	55.8	< 1	-	< 0.5	35	5.77	44	-	< 0.001	0.0021	
	QUL-22-4M	2014 08 26	50.1	7.75	8	17.2	0.64	97.4	67	< 3	2.1	-	-	-	0.133	< 5	57.8	< 1	-	< 0.5	36	5.79	44.7	-	0.0023	0.0038	
	QUL-22-9M	2014 08 26	50.5	7.73	8.01	16.1	0.7	97.8	67	< 3	2.1	-	-	-	0.139	< 5	61.4	< 1	-	< 0.5	35	5.8	44.7	-	< 0.001	0.0023	
	QUL-22-0M	2014 08 28	49.2	8.10	7.93	18.9	0.37	97.2	60	< 3	2.19	-	-	-	0.131	< 5	47.7	< 1	-	< 0.5	34	5.76	45.6	-	< 0.001	< 0.002 ^a	
	QUL-22-9M	2014 08 28	49.6	8.05	7.93	17.4	0.8	97.3	58	< 3	2.17	-	-	-	0.131	< 5	53.9	< 1	-	< 0.5	34	5.79	45.5	-	< 0.001	0.0023	
	QUL-22-0M	2014 09 03	50	8.08	7.99	17.86	0.32	98.4	66	< 3	2.1	-	-	-	0.109	5.9	40.9	< 1	-	< 0.5	33	5.7	44.7	-	< 0.001	< 0.002 ^a	
	QUL-22-6M	2014 09 03	51.2	7.68	7.95	12.88	0.71	101	63	< 3	2.01	-	-	-	0.154	7.5	91.6	< 1	-	< 0.5	34	5.9	46.2	-	< 0.001	< 0.002 ^a	
	QUL-22-9M	2014 09 03	52	7.46	7.93	9.75	1.04	103	66	< 3	1.96	-	-	-	0.171	7.4	115	< 1	-	< 0.5	34	5.98	47.5	-	< 0.001	< 0.002 ^a	
QUL-23	QUL23	2014 08 25	49.9	7.95	7.97	17.4	3.25	99	67	< 3	1.86	-	-	-	0.145	< 5	54.7	< 1	-	< 0.5	34	5.81	44.4	-	< 0.001	< 0.002 ^a	
	QUL23X	2014 08 25	49.7	7.95	7.94	17.4	0.71	98.9	64	< 3	1.92	-	-	-	0.151	< 5	54.7	< 1	-	< 0.5	35	5.8	44.5	-	< 0.001	< 0.002 ^a	
	QA/QC RPD %		< 1	0	< 1	0	128	< 1	5	*	*	-	-	-	*	*	0	*	-	*	*	< 1	< 1	-	*	*	
	QUL-23	2014 08 27	49.1	8.03	7.99	19.0	2.06	98.9	72	3.7	2.09	-	-	-	0.121	< 5	42.4	< 1	-	< 0.5	35	5.77	45	-	0.001	< 0.002 ^a	
	QUL-23	2014 08 26	50.1	7.69	7.94	18.2	0.31	98	68	< 3	2.29	-	-	-	0.138	< 5	43.8	1	-	< 0.5	35						

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TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Metals																												
			Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)	
BC Guidelines																															
BCWQG Aquatic Life (AW) ^{b,c}			100 ^d	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			50 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
BCWQG Drinking Water (DW) ^{b,c}			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Canadian Drinking Water Quality (DW) ^e			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
QUL-21	QUL-21-0M	2014 08 26	9.3	16.8	< 30	1.92	0.699	0.448	0.793	< 0.1	0.12	5.5	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.96	< 0.05	0.64	-	0.287	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.125	< 1	< 3	
	QUL-21-21M	2014 08 26	9.9	17.2	< 30	1.94	1.01	0.452	0.82	< 0.1	< 0.1	5.62	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.21	< 0.05	0.57	-	0.284	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.128	< 1	< 3	
	QUL-21-47M	2014 08 26	11.7	23.7	< 30	2.64	95.8	0.907	2.99	0.21	0.66	17.3	< 0.1	< 10	< 0.01	< 0.5	< 0.1	4.54	< 0.05	0.75	-	4.63	< 0.5	0.54	< 0.01	< 0.01	< 10	0.591	< 1	< 3	
	QUL-21-0M	2014 08 28	10.1	16.5	< 30	1.92	0.506	0.458	0.823	< 0.1	0.11	5.3	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.58	< 0.05	< 0.5	-	0.276	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.138	< 1	< 3	
	QUL-21-16M	2014 08 28	9.4	17.1	< 30	1.94	1.04	0.466	0.853	< 0.1	< 0.1	5.59	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.17	< 0.05	< 0.5	-	0.272	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3	
	QUL-21-46M	2014 08 28	15.3	23.7	< 30	2.67	96.6	1.03	3.59	0.26	0.76	18.8	< 0.1	< 10	0.036	< 0.5	< 0.1	5.32	< 0.05	0.8	-	5.51	< 0.5	0.67	0.018	0.011	< 10	0.671	< 1	< 3	
	QUL-21-0M	2014 09 03	9.8	16.9	< 30	1.92	0.306	0.463	0.838	< 0.1	< 0.1	5.36	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.59	< 0.05	0.55	-	0.283	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.134	< 1	< 3	
	QUL-21-6M	2014 09 03	9.5	17.2	< 30	1.91	2.29	0.465	0.874	< 0.1	< 0.1	6.81	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.87	< 0.05	0.72	-	0.311	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.14	< 1	< 3	
	QUL-21-47M	2014 09 03	13.2	23.7	< 30	2.61	82.1	0.963	3.25	0.23	0.7	17.6	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.11	< 0.05	0.88	-	4.9	< 0.5	0.57	< 0.01	< 0.01	< 10	0.598	< 1	< 3	
	QUL-21X-47M	2014 09 03	13.9	23.8	< 30	2.62	80	0.947	3.17	0.23	0.66	17.7	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.17	< 0.05	0.79	-	4.88	< 0.5	0.59	< 0.01	< 0.01	< 10	0.587	< 1	< 3	
QA/QC RPD %			*	< 1	*	< 1	3	2	3	*	6	< 1	*	*	*	*	*	1	*	*	-	< 1	*	*	*	*	*	*	2	*	*
QUL-22	QUL-22	2014 08 08	9	16.7	< 30	1.92	0.518	0.466	0.839	< 0.1	< 0.1	5.15	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	-	0.281	0.52	< 0.5	< 0.01	< 0.01	< 10	0.15	< 1	< 3	
	QUL-22	2014 08 09	9.8	16.7	< 30	1.9	0.467	0.462	0.827	< 0.1	< 0.1	5.19	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.6	-	0.263	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.134	< 1	< 3	
	QUL-22	2014 08 10	10.8	16.4	< 30	1.88	0.53	0.478	0.845	< 0.1	0.11	5.16	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.5	< 0.05	< 0.5	-	0.281	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.132	< 1	< 3	
	QUL-22	2014 08 11	11.7	15.9	< 30	1.84	0.692	0.488	0.833	< 0.1	0.11	5.23	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	1.02	-	0.271	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.125	< 1	< 3	
	QUL-22	2014 08 12	10.4	15.9	< 30	1.85	0.38	0.471	0.831	< 0.1	0.11	5.09	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.71	-	0.308	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.141	< 1	< 3	
	QUL-22	2014 08 13	10.6	15.9	< 30	1.86	0.185	0.467	0.825	< 0.1	0.1	5.31	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.5	< 0.05	1	-	0.289	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.135	< 1	< 3	
	QUL-22	2014 08 14	10.2	16.7	< 30	1.94	0.579	0.487	0.83	< 0.1	0.11	5.42	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.62	-	0.312	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.12	< 1	< 3	
	QUL-22	2014 08 15	10.5	15.2	< 30	1.76	0.481	0.483	0.851	< 0.1	0.12	5.56	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.5	< 0.05	< 0.5	-	0.315	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.133	< 1	< 3	
	QUL-22	2014 08 16	10.1	16.1	< 30	1.88	0.511	0.496	0.838	< 0.1	0.11	6.23	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.54	< 0.05	0.52	-	0.335	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.137	< 1	< 3	
	QUL-22	2014 08 17	10.7	15.9	< 30	1.88	0.517	0.475	0.847	< 0.1	0.12	5.37	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.51	-	0.3	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.134	< 1	< 3	
	QUL-22	2014 08 19	9.7	16.3	< 30	1.91	0.449	0.467	0.819	< 0.1	0.11	5.4	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.74	-	0.31	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.13	< 1	< 3	
	QUL-22	2014 08 21	10.6	16.7	< 30	1.9	0.7	0.455	0.822	< 0.1	< 0.1	5.39	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.74	< 0.05	0.86	-	0.28	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.139	< 1	< 3	
	QUL22	2014 08 22	11.6	16.8	< 30	1.9	0.771	0.472	0.85	< 0.1	< 0.1	5.37	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.82	< 0.05	0.9	-	0.286	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.142	< 1	< 3	
	QUL-22	2014 08 23	10.1	16.8	< 30	1.9	0.894	0.466	0.81	< 0.1	0.11	5.4	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.88	< 0.05	0.99	-	0.277	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.13	< 1	< 3	
	QUL-22-0M	2014 08 26	9.7	16.7	< 30	1.91	0.73	0.459	0.812	< 0.1	< 0.1	5.49	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.01	< 0.05	0.59	-	0.28	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.127	< 1	< 3	
	QUL-22-4M	2014 08 26	10.4	16.9	< 30	1.93	0.713	0.449	0.816	< 0.1	< 0.1	5.54	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.01	< 0.05	0.59	-	0.283	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.13	< 1	< 3	
	QUL-22-9M	2014 08 26	10	17	< 30	1.94	0.673	0.452	0.809	< 0.1	0.1	5.43	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.03	< 0.05	0.63	-	0.298	< 0.5	< 0.5	< 0.01	< 0.					

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																														
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silicon (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Tin (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																																	
BCWQG Aquatic Life (AW) ^{b,c}			n/a	20	5	5,000	n/a	n/a	1,200	0.016-0.055 ^d	n/a	1 (Cr(+6))	110	6.0-19.3 ^d	1,000	27.3-177.4 ^d	870	n/a	1001-2568 ^d	Methyl mercury analysis in progress	2,000	25-150 ^d	373,000-432,000	2	n/a	0.1-3.0 ^d	n/a	0.3	n/a	2,000	300	6	33-103.5 ^d
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a	1,000	5.3 ⁱ	n/a	n/a	n/a	n/a	4	2-7.4 ^d	n/a	4.4-10.2 ^d	14 ⁱ	n/a	791.1-1415 ^d	1,000		n/a	n/a	n/a	n/a	0.05-1.5 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.5-78 ^d
BCWQG Drinking Water (DW) ^{b,c}			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	5,000
Canadian Drinking Water Quality (DW) ^e			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	n/a	1,000	300	10	n/a	n/a	50	1	n/a	n/a	n/a	10	n/a	n/a	200,000	n/a	n/a	n/a	20	n/a	5,000
QUL-21	QUL-21-0M	2014 08 26	36	< 0.1	0.12	5.85	< 0.1	< 0.5	< 10	< 0.01	16,600	< 0.5	< 0.1	1.69	< 30	< 0.05	0.54	1,930	1.77	< 0.01	0.301	< 0.5	464	< 0.5	1,570	< 0.01	823	< 0.01	< 0.1	< 10	0.137	< 1	< 3
	QUL-21-21M	2014 08 26	61.9	< 0.1	0.12	6.44	< 0.1	< 0.5	< 10	< 0.01	16,300	< 0.5	< 0.1	2.9	53	< 0.05	0.54	1,860	3.07	< 0.01	0.321	< 0.5	459	< 0.5	1,560	< 0.01	825	< 0.01	< 0.1	< 10	0.141	< 1	< 3
	QUL-21-47M	2014 08 26	3,560	0.28	1.76	86.1	< 0.1	< 0.5	< 10	0.022	23,600	2.01	1.44	69.3	2,080	1.22	2.44	3,510	169	< 0.01	4.94	2.02	2,350	0.63	9,740	0.029	3,760	0.013	0.11	133	0.694	6.8	6.9
	QUL-21-0M	2014 08 28	21.5	< 0.1	0.13	5.53	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	0.82	< 30	< 0.05	< 0.5	1,930	1.25	< 0.01	0.301	< 0.5	475	< 0.5	1,520	< 0.01	843	< 0.01	< 0.1	< 10	0.144	< 1	< 3
	QUL-21-16M	2014 08 28	94.9	< 0.1	0.14	6.69	< 0.1	< 0.5	< 10	< 0.05 ^a	16,800	< 0.5	< 0.1	2.99	89	0.066	< 0.5	1,950	3.64	< 0.01	0.293	< 0.5	490	< 0.5	1,720	< 0.01	874	< 0.01	< 0.1	< 10	0.154	< 1	< 3
	QUL-21-46M	2014 08 28	3,700	0.31	1.87	94.7	< 0.1	< 0.5	10	< 0.05 ^a	24,600	2.1	1.45	74.5	2,110	1.31	2.02	3,680	168	< 0.01	5.73	2.02	2,540	0.71	10,000	0.031	4,220	0.011	0.12	146	0.802	7.2	7.1
	QUL-21-0M	2014 09 03	18.6	< 0.1	0.1	5.53	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	0.81	< 30	< 0.05	0.57	1,960	0.961	< 0.01	0.327	< 0.5	467	< 0.5	1,550	< 0.01	871	< 0.01	< 0.1	< 10	0.142	< 1	< 3
	QUL-21-6M	2014 09 03	99.6	< 0.1	0.15	7.84	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	4.83	87	0.063	0.66	1,950	4.7	< 0.01	0.332	< 0.5	482	< 0.5	1,730	< 0.01	893	< 0.01	< 0.1	< 10	0.156	< 1	< 3
	QUL-21-47M	2014 09 03	3,270	0.29	1.65	86.3	< 0.1	< 0.5	< 10	0.02	24,600	1.84	1.29	67.1	1,880	1.18	2.32	3,490	145	< 0.01	5.29	1.8	2,350	0.63	9,400	0.025	3,920	0.013	0.11	129	0.731	6.4	6.6
	QUL-21X-47M	2014 09 03	3,110	0.26	1.57	82.5	< 0.1	< 0.5	< 10	0.019	23,800	1.68	1.21	63.8	1,770	1.1	2.08	3,340	137	< 0.01	5	1.79	2,240	0.59	8,960	0.023	3,710	0.012	< 0.1	122	0.703	6	6.3
QA/QC RPD %			5	*	5	5	*	*	*	*	3	*	6	5	6	7	*	4	6	*	6	*	5	*	5	*	6	*	*	6	4	7	*
QUL-22	QUL-22	2014 08 08	18	< 0.1	0.12	5.4	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	0.62	< 30	< 0.05	0.54	1,940	1.14	< 0.05	0.291	< 0.5	471	< 0.5	1,630	< 0.01	849	< 0.01	< 0.1	< 10	0.154	< 1	< 3
	QUL-22	2014 08 09	22.3	< 0.1	0.11	5.26	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	0.63	< 30	< 0.05	0.56	1,920	0.947	< 0.05	0.306	< 0.5	457	< 0.5	1,610	< 0.01	825	< 0.01	< 0.1	< 10	0.136	< 1	< 3
	QUL-22	2014 08 10	21.8	< 0.1	0.13	5.58	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	0.8	< 30	< 0.05	< 0.5	1,890	1.12	< 0.05	0.288	< 0.5	496	< 0.5	1,610	< 0.01	877	< 0.01	< 0.1	< 10	0.131	< 1	< 3
	QUL-22	2014 08 11	23	< 0.1	0.14	5.31	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	0.76	< 30	< 0.05	0.89	1,910	1.26	< 0.05	0.307	< 0.5	488	< 0.5	1,570	< 0.01	848	< 0.01	< 0.1	< 10	0.137	< 1	< 3
	QUL-22	2014 08 12	17.1	< 0.1	0.11	5.14	< 0.1	< 0.5	< 10	< 0.01	16,000	< 0.5	< 0.1	0.65	< 30	< 0.05	0.81	1,870	1.29	< 0.05	0.304	< 0.5	469	< 0.5	1,570	< 0.01	837	< 0.01	< 0.1	< 10	0.136	< 1	< 3
	QUL-22	2014 08 13	15.8	< 0.1	0.14	5.43	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	0.59	< 30	< 0.05	0.78	1,950	1.17	< 0.05	0.319	< 0.5	477	< 0.5	1,610	< 0.01	852	< 0.01	< 0.1	< 10	0.136	< 1	< 3
	QUL-22	2014 08 14	15.4	< 0.1	0.11	5.48	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	0.83	< 30	< 0.05	1.08	1,910	1.41	-	0.324	< 0.5	476	< 0.5	1,640	< 0.01	893	< 0.01	< 0.1	< 10	0.137	< 1	< 3
	QUL-22	2014 08 15	15	< 0.1	0.14	5.56	< 0.1	< 0.5	< 10	< 0.01	16,000	< 0.5	< 0.1	0.63	< 30	< 0.05	< 0.5	1,870	1.37	-	0.324	< 0.5	472	< 0.5	1,610	< 0.01	843	< 0.01	< 0.1	< 10	0.135	< 1	< 3
	QUL-22	2014 08 16	13.8	< 0.1	0.12	5.45	< 0.1	< 0.5	< 10	< 0.01	15,900	< 0.5	< 0.1	0.63	< 30	< 0.05	< 0.5	1,880	1.29	-	0.296	< 0.5	469	< 0.5	1,570	< 0.01	827	< 0.01	< 0.1	< 10	0.129	< 1	< 3
	QUL-22	2014 08 17	14.8	< 0.1	0.14	5.36	< 0.1	< 0.5	< 10	< 0.01	15,700	< 0.5	< 0.1	< 1	< 30	< 0.05	0.64	1,860	1.18	-	0.32	< 0.5	481	< 0.5	1,550	< 0.01	866	< 0.01	< 0.1	< 10	0.136	< 1	< 3
	QUL-22	2014 08 19	16.1	< 0.1	0.12	5.46	< 0.1	< 0.5	< 10	< 0.01	16,200	< 0.5	< 0.1	0.64	< 30	< 0.05	0.86	1,920	1.17	-	0.324	< 0.5	478	< 0.5	1,580	< 0.01	843	< 0.01	< 0.1	< 10	0.136	< 1	< 3
	QUL-22	2014 08 21	48.4	< 0.1	0.15	5.88	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	1.65	41	< 0.05	0.75	1,940	2.04	-	0.325	< 0.5	466	< 0.5	1,600	< 0.01	823	< 0.01	< 0.1	< 10	0.146	< 1	< 3
	QUL22	2014 08 22	36.4	< 0.1	0.12	5.83	< 0.1	< 0.5	< 10	< 0.01	16,800	< 0.5																					

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Physical Parameters									Microbiological Tests		Total Inorganics													
			Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Coliform (MPN/0.1L)	E. Coli (MPN/0.1L)	Total Kjeldahl Nitrogen (N) (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Bromide (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus ⁹ (mg/L)	
BC Guidelines																											
BCWQG Aquatic Life (AW) ^{b,c}			n/a	6.5-9.0	6.5-9.0	+/-1 Degree change from ambient	Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	n/a	5,680-18,400 ^d	32,800	60-120 ^d	32,800 ^f	600	988.2-1579 ^d	n/a	n/a	n/a	n/a	n/a	0.005-0.015	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a		Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	n/a	n/a	1,090-1,770 ^d	3,000	20-40 ^d	3,000 ^f	150	n/a	128-429 ^d	n/a	n/a	n/a	n/a	
BCWQG Drinking Water (DW) ^{b,c}			n/a	6.5-8.5	6.5-8.5	n/a ⁱ	Change of 1	n/a	n/a	n/a	n/a	n/a ⁱ	0/100ml	n/a	n/a	n/a	10,000	1,000	10,000 ^f	250	1,000	500	n/a	n/a	n/a	0.01	
Canadian Drinking Water Quality (DW) ^e			n/a	6.5-8.5	6.5-8.5	n/a ⁱ	n/a ⁱ	n/a	500	n/a	n/a	n/a ⁱ	0/100ml	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a	
QUL-26	QUL-26-0M	2014 08 11	49	7.37	7.9	18.4	0.82	98.2	68	< 3	2.67	-	-	-	0.132	< 5	41	< 1	-	< 0.5	34	5.71	44.7	-	< 0.001	0.0021	
	QUL-26-13M	2014 08 11	50.3	7.74	7.92	9.5	0.7	102	66	< 3	2.15	-	-	-	0.179	< 5	106	< 1	-	< 0.5	34	5.85	45.9	-	< 0.001	< 0.002 ^a	
	QUL-26-24M	2014 08 11	53.2	7.56	7.92	5.0	0.89	109	69	< 3	1.94	-	-	-	0.189	< 5	137	< 1	-	< 0.5	36	6.19	48.2	-	< 0.001	< 0.002 ^a	
	QUL-26	2014 08 12	47.8	7.87	7.93	20.2	0.4	96.1	66	< 3	2.21	-	-	-	0.141	< 5	45.3	< 1	-	< 0.5	36	5.68	44.7	-	< 0.001	< 0.002 ^a	
	QUL-26	2014 08 13	48.5	-	7.87	20.5	0.77	101	66	< 3	3.22	-	-	-	0.138	< 5	< 5	< 1	-	< 0.5	35	5.55	46.2	-	< 0.001	< 0.002 ^a	
	QUL-26-0M	2014 08 14	49.3	7.85	7.95	20.7	0.34	97.7	64	< 3	2.25	-	-	-	0.116	< 5	32.1	1	-	< 0.5	36	5.61	43.9	-	< 0.001	0.0021	
	QUL-26-12M	2014 08 14	52.3	7.83	7.97	12.1	7.07	103	73	12.5	1.9	-	-	-	0.134	< 5	93.3	< 1	-	< 0.5	37	6.19	46.2	-	< 0.001	< 0.002 ^a	
	QUL-26-27M	2014 08 14	56	7.66	7.98	4.7	4.14	110	74	5.7	2.02	-	-	-	0.174	< 5	143	< 1	-	< 0.5	38	6.48	49.6	-	< 0.001	0.0022	
	QUL-26	2014 08 15	49.1	7.97	7.97	22.0	0.34	97	62	< 3	1.95	-	-	-	0.109	< 5	39.5	< 1	-	< 0.5	36	5.63	43.2	-	< 0.001	< 0.002 ^a	
	QUL-26	2014 08 16	48.8	8.06	7.96	20.4	0.25	95	58	< 3	2.13	-	-	-	0.114	< 5	42.2	< 1	-	< 0.5	36	5.62	43.8	-	< 0.001	0.0023	
	QUL-26-0M	2014 08 17	47.9	6.75	7.9	20.3	0.43	96.6	70	< 3	2.47	-	-	-	0.146	< 5	29.9	< 1	-	< 0.5	35	5.61	44.2	-	< 0.001	< 0.002 ^a	
	QUL-26-12M	2014 08 17	51.6	7.65	7.95	8.8	4.85	103	60	9.7	2.1	-	-	-	0.179	< 5	111	< 1	-	< 0.5	35	5.96	46.4	-	< 0.001	< 0.002 ^a	
QUL-26-26M	2014 08 17	54.4	7.40	7.94	4.7	3.31	108	67	4.6	2.09	-	-	-	0.2	< 5	146	< 1	-	< 0.5	37	6.38	49.2	-	< 0.001	< 0.002 ^a		
QUL-26-0M	2014 08 19	48.8	7.78	7.93	19.9	0.33	96.5	69	< 3	2	-	-	-	0.118	< 5	42.7	< 1	-	< 0.5	32	5.55	43.9	-	< 0.001	< 0.002 ^a		
QUL-26-10M	2014 08 19	50.4	7.77	7.92	14.4	8.47	100	69	6.5	1.93	-	-	-	0.15	5.7	75.2	< 1	-	< 0.5	33	5.97	45.6	-	< 0.001	< 0.002 ^a		
QUL-26-20M	2014 08 19	52.5	-	7.93	-	6.66	107	69	9.2	1.92	-	-	-	0.179	< 5	131	< 1	-	< 0.5	34	6.08	48.7	-	< 0.001	< 0.002 ^a		
QUL-28	QUL-26-0M	2014 08 21	49.2	8.27	7.87	18.9	1.07	95.1	62	< 3	2.16	-	-	-	0.114	< 5	48.9	< 1	-	< 0.5	36	5.71	44.3	-	< 0.001	< 0.002 ^a	
	QUL-28-OM	2014 08 11	49.3	7.52	7.82	17.5	0.53	101	69	< 3	2.32	-	-	-	0.134	< 5	34.5	< 1	-	< 0.5	35	5.71	45.5	-	< 0.001	0.0029	
	QUL-28	2014 08 12	48.1	7.73	7.93	20.9	0.77	96.6	62	< 3	2.06	-	-	-	0.121	< 5	45.9	< 1	-	< 0.5	37	5.68	44.6	-	< 0.001	< 0.002 ^a	
QUL-28	2014 08 13	47.6	-	7.93	21.1	0.45	98.7	62	< 3	2.61	-	-	-	0.125	< 5	33.2	1	-	< 0.5	34	5.63	44.8	-	< 0.001	< 0.002 ^a		
QUL-30	QUL-30	2014 08 07	49	7.24	7.99	20.4	1.07	98.4	63	< 3	1.85	201	< 1	0.086	0.141	< 5	54.9	< 1	-	< 0.5	33	5.62	46.7	-	< 0.001	< 0.002 ^a	
QUL-31	QUL-31	2014 08 07	47.5	8.20	7.97	21.0	0.6	95.8	55	< 3	2.08	130	<u>1</u>	0.117	0.144	< 5	67.3	< 1	-	< 0.5	33	5.61	44.9	-	< 0.001	< 0.002 ^a	
QUL-32	QUL-32	2014 08 06	48.7	-	7.96	-	0.38	101	81	< 3	1.89	-	-	-	0.162	< 5	77.9	1.5	79.4	< 0.5	34	5.6	46	-	< 0.001	< 0.002 ^a	
QUL-33	QUL-33	2014 08 06	49	-	7.95	20.0	0.32	99	63	< 3	1.9	-	-	-	0.129	< 5	63.8	< 1	63.8	< 0.5	34	5.63	45.6	-	< 0.001	< 0.002 ^a	
QUL-34	QUL-34-6M	2014 08 13	47.2	-	7.97	20.2	0.31	97.8	62	< 3	2.03	-	-	-	0.118	< 5	50.5	< 1	-	< 0.5	32	5.62	44.1	-	< 0.001	< 0.002 ^a	
QUL-35	QUL-35-3M	2014 08 14	48.8	8.16	7.9	21.1	0.34	97.5	63	< 3	2.1	-	-	-	0.102	< 5	40.6	< 1	-	< 0.5	36	5.62	43.7	-	< 0.001	< 0.002 ^a	
QUL-36	QUL-36-8M	2014 08 14	48.4	8.08	7.95	18.0	0.29	97.3	66	< 3	2.05	-	-	-	0.12	< 5	52.1	< 1	-	< 0.5	36	5.62	43.7	-	< 0.001	< 0.002 ^a	
QUL-37	QUL-37-0M	2014 08 15	49.1	8.13	7.98	20.1	0.27	96.9	66	< 3	1.77	-	-	-	0.103	< 5	48.7	< 1	-	< 0.5	35	5.66	44.3	-	0.0011	0.0027	
	QUL-37-7M	2014 08 15	49	8.13	7.97	18.6	0.28	97	63	< 3	1.72	-	-	-	0.113	< 5	58.9	< 1	-	< 0.5	36	5.64	43.6	-	< 0.001	0.0021	
	QUL-37-TAP	2014 08 15	49.4	-	-	-	0.32	-	63	3.9	1.68	-	-	-	0.111	< 5	50.6	< 1	-	< 0.5	35	5.67	43.7	-	< 0.001	0.0021	
QUL-38	QUL-38	2014 08 18	48.4	7.11	7.97	18.3	0.35	97.5	59	< 3	2.44	48	< 1	-	0.155	5.3	48.9	< 1	-	< 0.5	34	5.64	43.9	-	< 0.001	< 0.002 ^a	
	QUL-38-2M	2014 08 26	50.2	7.93	7.98	17.6	0.71	100	62	< 3	2.1	-	-	-	0.128	< 5	55	< 1	-	< 0.5	35	5.78	45.1	-	< 0.001	< 0.002 ^a	
QUL-39	QUL-39	2014 08 18	49.8	7.64	7.9	16.1	0.46	98	71	< 3	2.3	24	< 1	-	0.163	5.9	86.3	< 1	-	< 0.5	34	5.75	44	-	< 0.001	< 0.002 ^a	
QUL-60	QUL-60	2014 08 18	49.4	7.70	7.97	15.3	0.64	97.8	69	< 3	2.43	27	< 1	-	0.149	5.6	72.4	< 1	-	< 0.5	34	5.71	44.2	-	< 0.001	< 0.002 ^a	
	QUL-60-3M	2014 08 26	49.8	7.91	7.94	17.4	0.78	100	69	< 3	2.23	-	-	-	0.131	< 5	56.5	< 1	-	< 0.5	34	5.79	45	-	< 0.001	< 0.002 ^a	
QUL-61	QUL-61	2014 08 18	49.2	7.76	7.97	13.9	0.54	97.9	66	< 3	2.2.																

Associated ALS files: L1498519, L1498533, L1499166, L1499203, L1499703, L1499707

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Metals																											
			Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																														
BCWQG Aquatic Life (AW) ^{b,c}			100 ^d	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			50 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
BCWQG Drinking Water (DW) ^{b,c}			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
Canadian Drinking Water Quality (DW) ^e			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
QUL-26	QUL-26-0M	2014 08 11	11.3	16.5	< 30	1.89	4.79	0.541	0.846	< 0.1	0.12	6.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.54	< 0.05	1.02	-	0.303	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.12	< 1	< 3
	QUL-26-13M	2014 08 11	9.6	17	< 30	1.93	0.228	0.486	0.856	< 0.1	< 0.1	5.18	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	1.01	-	0.262	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.131	< 1	< 3
	QUL-26-24M	2014 08 11	5.7	17.9	< 30	2.03	0.677	0.481	0.911	< 0.1	0.11	5.19	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	1.08	-	0.264	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.143	< 1	< 3
	QUL-26	2014 08 12	10.6	16.1	< 30	1.87	0.554	0.499	0.856	< 0.1	0.11	5.42	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.51	< 0.05	0.71	-	0.309	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.132	< 1	< 3
	QUL-26	2014 08 13	11	16.3	< 30	1.92	10.4	0.598	0.842	< 0.1	0.15	7.06	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.6	< 0.05	1.07	-	0.33	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.12	< 1	< 3
	QUL-26-0M	2014 08 14	11.2	16.6	< 30	1.91	2.64	0.509	0.837	< 0.1	0.1	5.61	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.67	-	0.294	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.133	< 1	< 3
	QUL-26-12M	2014 08 14	11.7	17.8	< 30	1.93	5.07	0.483	0.878	< 0.1	0.11	8.11	< 0.1	< 10	< 0.01	< 0.5	< 0.1	2.62	< 0.05	0.71	-	0.404	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.145	< 1	< 3
	QUL-26-27M	2014 08 14	5.3	19	< 30	2.1	8.77	0.476	0.952	< 0.1	0.13	6.14	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.03	< 0.05	0.86	-	0.375	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.158	< 1	< 3
	QUL-26	2014 08 15	10.2	16.5	< 30	1.92	1	0.476	0.824	< 0.1	0.12	5.94	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	-	0.294	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.125	< 1	< 3
	QUL-26	2014 08 16	10.2	16.4	< 30	1.9	0.643	0.476	0.816	< 0.1	0.12	5.48	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.51	< 0.05	0.72	-	0.339	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.135	< 1	< 3
	QUL-26-0M	2014 08 17	9.6	16.1	< 30	1.88	3.09	0.518	0.828	< 0.1	0.11	5.83	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.52	< 0.05	0.55	-	0.286	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.118	< 1	< 3
	QUL-26-12M	2014 08 17	8.7	17.4	< 30	1.96	1.5	0.459	0.84	< 0.1	< 0.1	6.02	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.33	< 0.05	0.72	-	0.28	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.139	< 1	< 3
	QUL-26-26M	2014 08 17	5.1	18.3	< 30	2.09	4.49	0.482	0.939	< 0.1	0.11	5.72	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.01	< 0.05	0.75	-	0.348	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.161	< 1	< 3
	QUL-26-0M	2014 08 19	10.3	16.4	< 30	1.89	0.417	0.464	0.818	< 0.1	< 0.1	5.16	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.71	-	0.291	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.135	< 1	< 3
QUL-28	QUL-26-10M	2014 08 19	10.9	17.1	< 30	1.9	3.66	0.475	0.879	< 0.1	0.11	7.32	< 0.1	< 10	< 0.01	< 0.5	< 0.1	2.21	< 0.05	0.85	-	0.402	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.143	< 1	< 3
	QUL-26-20M	2014 08 19	5.6	17.6	< 30	2.04	3.03	0.488	0.923	< 0.1	0.1	6.14	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.27	< 0.05	0.86	-	0.324	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.142	< 1	< 3
	QUL-26-0M	2014 08 21	10.7	16.6	< 30	1.91	1.47	0.467	0.83	< 0.1	0.12	5.59	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.79	< 0.05	0.81	-	0.312	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.138	< 1	< 3
	QUL-28-OM	2014 08 11	11.4	16.6	< 30	1.91	7.17	0.531	0.843	< 0.1	0.11	6.08	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.56	< 0.05	< 0.5	-	0.286	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.129	< 1	< 3
QUL-28	QUL-28	2014 08 12	11.1	16.2	< 30	1.86	2.58	0.485	0.86	< 0.1	0.11	5.73	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.56	< 0.05	0.78	-	0.312	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.137	< 1	< 3
	QUL-28	2014 08 13	11.2	15.9	< 30	1.9	2.4	0.508	0.846	< 0.1	0.14	5.83	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.52	< 0.05	0.97	-	0.306	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.123	< 1	< 3
QUL-30	QUL-30	2014 08 07	11.5	16.6	< 30	1.84	0.412	0.46	0.781	< 0.1	< 0.1	4.74	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.74	< 0.05	0.252	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.147	< 1	< 3
QUL-31	QUL-31	2014 08 07	11.4	15.9	< 30	1.89	0.789	0.485	0.837	< 0.1	0.12	5.19	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.56	< 0.05	0.311	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.133	< 1	< 3
QUL-32	QUL-32	2014 08 06	10.9	16.4	< 30	1.85	0.355	0.454	0.853	< 0.1	< 0.1	4.86	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.7	< 0.05	0.253	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.142	< 1	< 3
QUL-33	QUL-33	2014 08 06	10.9	16.6	< 30	1.84	0.237	0.434	0.767	< 0.1	< 0.1	4.61	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.83	< 0.05	0.225	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.14	< 1	< 3
QUL-34	QUL-34-6M	2014 08 13	10.8	15.9	< 30	1.84	0.13	0.456	0.826	< 0.1	< 0.1	5.23	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.74	-	0.31	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.141	< 1	< 3
QUL-35	QUL-35-3M	2014 08 14	11.1	16.4	< 30	1.91	0.547	0.488	0.858	< 0.1	0.11	5.37	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.54	< 0.05	0.71	-	0.314	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.124	< 1	< 3
QUL-36	QUL-36-8M	2014 08 14	11.4	16.3	< 30	1.86	0.203	0.472	0.818	< 0.1	0.11	5.2	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.66	-	0.288	< 0.5	<						

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																															
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silicon (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Tin (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)	
BC Guidelines																																		
BCWQG Aquatic Life (AW) ^{b,c}			n/a	20	5	5,000	n/a	n/a	1,200	0.016-0.055 ^d	n/a	1 (Cr(+6))	110	6.0-19.3 ^d	1,000	27.3-177.4 ^d	870	n/a	1001-2568 ^d	Methyl mercury analysis in progress	2,000	25-150 ^d	373,000-432,000	2	n/a	0.1-3.0 ^d	n/a	0.3	n/a	2,000	300	6	33-103.5 ^d	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a	1,000	5.3 ⁱ	n/a	n/a	n/a	n/a	4	2-7.4 ^d	n/a	4.4-10.2 ^d	14 ⁱ	n/a	791.1-1415 ^d	1,000		n/a	n/a	n/a	n/a	0.05-1.5 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.5-78 ^d	
BCWQG Drinking Water (DW) ^{b,c}			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	5,000
Canadian Drinking Water Quality (DW) ^e			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	n/a	1,000	300	10	n/a	n/a	50	1	n/a	n/a	n/a	10	n/a	n/a	n/a	200,000	n/a	n/a	n/a	20	n/a	5,000
QUL-26	QUL-26-0M	2014 08 11	29.1	< 0.1	0.14	5.87	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	1	< 30	< 0.05	0.91	1,910	4.27	< 0.05	0.332	< 0.5	536	< 0.5	1,570	< 0.01	861	< 0.01	< 0.1	< 10	0.132	< 1	< 3	
	QUL-26-13M	2014 08 11	30.9	< 0.1	0.11	5.48	< 0.1	< 0.5	< 10	< 0.01	17,600	< 0.5	< 0.1	1	< 30	< 0.05	0.89	2,000	1.41	< 0.05	0.301	< 0.5	492	< 0.5	1,670	< 0.01	871	0.014	< 0.1	< 10	0.151	< 1	< 3	
	QUL-26-24M	2014 08 11	41.7	< 0.1	0.14	5.7	< 0.1	< 0.5	< 10	< 0.01	18,100	< 0.5	< 0.1	1.2	38	< 0.05	0.97	2,080	2.31	< 0.05	0.286	< 0.5	502	< 0.5	1,740	< 0.01	923	< 0.01	< 0.1	< 10	0.154	< 1	< 3	
	QUL-26	2014 08 12	20.4	< 0.1	0.14	5.63	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	0.89	< 30	< 0.05	0.76	1,930	2.32	< 0.05	0.339	< 0.5	515	< 0.5	1,620	< 0.01	886	< 0.01	< 0.1	< 10	0.139	< 1	< 3	
	QUL-26	2014 08 13	20.2	< 0.1	0.17	7.19	< 0.1	< 0.5	< 10	< 0.01	16,600	< 0.5	< 0.1	0.95	46	< 0.05	0.94	1,980	11.1	< 0.05	0.349	< 0.5	616	< 0.5	1,650	< 0.01	888	< 0.01	< 0.1	< 10	0.123	< 1	< 3	
	QUL-26-0M	2014 08 14	16.9	< 0.1	0.12	5.72	< 0.1	< 0.5	< 10	< 0.01	16,200	< 0.5	< 0.1	0.67	< 30	< 0.05	0.75	1,900	3.2	< 0.05	0.329	< 0.5	509	< 0.5	1,610	< 0.01	854	< 0.01	< 0.1	< 10	0.132	< 1	< 3	
	QUL-26-12M	2014 08 14	653	< 0.1	0.37	16.6	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	0.42	21.9	530	0.349	1.16	2,250	21.5	< 0.05	0.462	0.68	697	< 0.5	3,170	< 0.01	989	< 0.01	< 0.1	43	0.171	1.9	3.6	
	QUL-26-27M	2014 08 14	342	< 0.1	0.24	11.2	< 0.1	< 0.5	< 10	< 0.01	18,800	< 0.5	0.19	7.7	288	0.148	0.98	2,220	17.1	< 0.05	0.406	0.51	601	< 0.5	2,470	< 0.01	1,030	< 0.01	< 0.1	18	0.181	< 1	< 3	
	QUL-26	2014 08 15	19.8	< 0.1	0.13	6.42	< 0.1	< 0.5	< 10	< 0.01	16,100	< 0.5	< 0.1	0.75	< 30	< 0.05	< 0.5	1,900	2.02	-	0.325	< 0.5	489	< 0.5	1,610	< 0.01	852	< 0.01	< 0.1	< 10	0.136	< 1	< 3	
	QUL-26	2014 08 16	16.3	< 0.1	0.12	5.52	< 0.1	< 0.5	< 10	< 0.01	16,100	< 0.5	< 0.1	0.64	< 30	< 0.05	< 0.5	1,880	1.56	< 0.05	0.313	< 0.5	470	< 0.5	1,540	< 0.01	811	< 0.01	< 0.1	< 10	0.137	< 1	< 3	
	QUL-26-0M	2014 08 17	20.1	< 0.1	0.13	5.79	< 0.1	< 0.5	< 10	< 0.01	15,900	< 0.5	< 0.1	< 1	< 30	< 0.05	0.73	1,860	3.46	< 0.05	0.303	< 0.5	518	< 0.5	1,540	< 0.01	830	< 0.01	< 0.1	< 10	0.131	< 1	< 3	
	QUL-26-12M	2014 08 17	317	< 0.1	0.25	10.4	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	0.18	9.16	252	0.142	1	2,090	9.72	< 0.05	0.304	0.54	574	< 0.5	2,280	< 0.01	899	< 0.01	< 0.1	20	0.16	1.1	< 3	
	QUL-26-26M	2014 08 17	211	< 0.1	0.2	8.49	< 0.1	< 0.5	< 10	< 0.01	18,300	< 0.5	0.12	5.2	170	0.084	1.01	2,180	9.41	< 0.05	0.355	< 0.5	562	< 0.5	2,160	< 0.01	985	< 0.01	< 0.1	13	0.173	< 1	< 3	
	QUL-26-0M	2014 08 19	15	< 0.1	0.13	5.47	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	0.58	< 30	< 0.05	0.86	1,900	1.07	-	0.318	< 0.5	483	< 0.5	1,540	< 0.01	860	< 0.01	< 0.1	< 10	0.133	< 1	< 3	
QUL-28	QUL-26-10M	2014 08 19	245	< 0.1	0.23	10.3	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	0.17	10	213	0.161	1.05	2,010	9.39	-	0.394	0.53	565	< 0.5	2,040	< 0.01	935	< 0.01	< 0.1	14	0.155	< 1	< 3	
	QUL-26-20M	2014 08 19	365	< 0.1	0.29	11.5	< 0.1	< 0.5	< 10	< 0.01	18,300	< 0.5	0.25	10.7	339	0.179	1.23	2,240	12.5	< 0.05	0.325	0.6	600	< 0.5	2,470	< 0.01	982	< 0.01	< 0.1	26	0.162	1.2	< 3	
	QUL-26-0M	2014 08 21	79.7	< 0.1	0.17	6.44	< 0.1	< 0.5	< 10	< 0.01	16,600	< 0.5	< 0.1	2.41	65	< 0.05	0.77	1,970	3.69	-	0.327	1.01	495	< 0.5	1,700	< 0.01	865	< 0.01	< 0.1	< 10	0.143	< 1	< 3	
	QUL-28-0M	2014 08 11	28.2	< 0.1	0.15	6.41	< 0.1	< 0.5	< 10	< 0.01	16,200	< 0.5	< 0.1	1.03	< 30	< 0.05	0.58	1,910	9.7	< 0.05	0.305	0.52	542	< 0.5	1,560	< 0.01	863	< 0.01	< 0.1	< 10	0.131	< 1	< 3	
QUL-28	QUL-28	2014 08 12	51.3	< 0.1	0.14	6.32	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	1.68	44	< 0.05	0.84	1,900	4.5	< 0.05	0.33	< 0.5	507	< 0.5	1,660	< 0.01	874	< 0.01	< 0.1	< 10	0.139	< 1	< 3	
	QUL-28	2014 08 13	22.2	< 0.1	0.15	6.18	< 0.1	< 0.5	< 10	0.013	16,400	< 0.5	< 0.1	0.86	< 30	< 0.05	0.88	1,950	4.82	< 0.05	0.358	< 0.5	536	< 0.5	1,640	< 0.01	888	< 0.01	< 0.1	< 10	0.132	< 1	< 3	
QUL-30	QUL-30	2014 08 07	45.4	< 0.1	0.12	5.08	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	< 0.5	65	< 0.05	0.77	1,940	2.32	< 0.05	0.246	< 0.5	476	< 0.5	1,550	< 0.01	807	< 0.01	< 0.1	< 10	0.15	< 1	< 3	
QUL-31	QUL-31	2014 08 07	28.8	< 0.1	0.14	5.52	< 0.1	< 0.5	< 10	< 0.01	16,200	< 0.5	< 0.1	0.66	40	< 0.05	0.61	1,970	2.77	< 0.05	0.326	< 0.5	491	< 0.5	1,660	< 0.01	867	< 0.01	< 0.1	< 10	0.135	< 1	< 3	
QUL-32	QUL-32	2014 08 06	61	< 0.1	0.12	5.57	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	0.68	87	< 0.05	0.83	2,010	2.8	< 0.05	0.256	< 0.5	51											

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Physical Parameters									Microbiological Tests		Total Inorganics													
			Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Coliform (MPN/0.1L)	E. Coli (MPN/0.1L)	Total Kjeldahl Nitrogen (N) (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Bromide (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus ^g (mg/L)	
BC Guidelines																											
BCWQG Aquatic Life (AW) ^{b,c}			n/a	6.5-9.0	6.5-9.0	+/-1 Degree change from ambient	Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	n/a	5,680-18,400 ^d	32,800	60-120 ^d	32,800 ^f	600	988.2-1579 ^d	n/a	n/a	n/a	n/a	n/a	n/a	0.005-0.015
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a		Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	n/a	n/a	1,090-1,770 ^d	3,000	20-40 ^d	3,000 ^f	150	n/a	128-429 ^d	n/a	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW) ^{b,c}			n/a	6.5-8.5	6.5-8.5	n/a ^j	Change of 1	n/a	n/a	n/a	n/a	n/a	0/100ml	n/a	n/a	n/a	10,000	1,000	10,000 ^f	250	1,000	500	n/a	n/a	n/a	0.01	
Canadian Drinking Water Quality (DW) ^e			n/a	6.5-8.5	6.5-8.5	n/a ^j	n/a ^j	n/a	500	n/a	n/a	n/a ^j	0/100ml	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a	
QUL-66	QUL66-40M	2014 08 19	72.5	7.81	8	6.8	122	159	113	32.9	1.9	-	-	-	0.375	46.9	232	1.7	-	0.63	73	18.2	60.8	-	< 0.001	< 0.002 ^a	
	QUL66-40MX	2014 08 19	72.9	7.81	7.99	6.8	127	159	117	40.9	1.93	-	-	-	0.375	50.6	230	1.6	-	0.61	72	18.1	60.4	-	< 0.001	< 0.002 ^a	
	QA/QC RPD %		< 1	0	< 1	0	4	0	3	22	*	-	-	-	0	*	< 1	*	-	*	*	< 1	< 1	-	*	*	
	QUL66-40M	2014 08 21	69.4	8.09	7.9	6.8	111	146	106	20.9	1.86	-	-	-	0.339	40.1	209	1.4	-	0.56	69	16.5	58.5	-	< 0.001	< 0.002 ^a	
	QUL-66-0M	2014 08 26	50.5	7.70	7.97	18.6	1.85	98.5	69	< 3	2.26	-	-	-	0.132	< 5	49.1	< 1	-	< 0.5	35	5.88	44.4	-	< 0.001	0.002	
	QUL-66-10M	2014 08 26	53	7.70	8	13.0	6.63	105	73	4.8	2.14	-	-	-	0.184	5.4	83.2	< 1	-	< 0.5	36	6.73	51.6	-	< 0.001	0.0025	
	QUL-66-58M	2014 08 26	74.6	7.78	8.04	6.5	71.3	160	123	39.2	2.18	-	-	-	0.427	56	250	2.3	-	0.62	71	18.8	61.5	-	0.0016	0.0052	
	QUL-66-0M	2014 08 28	49.3	8.10	7.97	18.9	0.4	97	63	6.5	2.71	-	-	-	0.118	5.2	< 50	< 10	-	< 5	220	5.3	45.5	-	< 0.001	< 0.002 ^a	
	QUL-66-18M	2014 08 28	54	8.02	7.98	9.4	17.3	107	66	29.6	2.17	-	-	-	0.185	7.5	115	< 1	-	< 0.5	36	6.36	50	-	< 0.001	< 0.002 ^a	
	QUL-66-40M	2014 08 28	67.5	7.92	8	6.3	73.4	149	102	20.8	2.19	-	-	-	0.409	50.3	214	1.4	-	0.52	69	16.2	59.8	-	0.0011	0.004	
	QUL-66X-40M	2014 08 28	64.4	7.92	7.98	6.3	71.8	137	93	56.7	2.11	-	-	-	0.319	37.8	197	1.1	-	< 0.5	63	13.9	58.3	-	< 0.001	0.0032	
	QA/QC RPD %		5	0	< 1	0	2	8	9	93	*	-	-	-	25	28	8	*	-	*	*	15	3	-	*	*	
	QUL-66-0M	2014 08 30	49.1	8.04	7.97	18.2	0.6	96.8	61	3.8	1.97	-	-	-	0.123	< 5	44.4	< 1	-	< 0.5	34	5.69	44.7	-	< 0.001	< 0.002 ^a	
	QUL-66-16M	2014 08 30	53.4	7.65	7.98	10.5	7.06	105	65	7.6	1.92	-	-	-	0.177	6.8	108	< 1	-	< 0.5	36	6.17	48.6	-	< 0.001	< 0.002 ^a	
	QUL-66-39M	2014 08 30	69.9	7.86	8.02	6.6	83.1	157	104	31.6	2.03	-	-	-	0.369	64.3	211	2.8	-	0.62	88	18.2	59.5	-	0.0017	0.0041	
	QUL-66-0M	2014 09 03	49.5	7.79	7.96	18.5	2.37	97.9	66	< 3	2.09	-	-	-	0.108	< 5	38.9	< 1	-	< 0.5	33	5.76	45.5	-	< 0.001	< 0.002 ^a	
	QUL-66-14M	2014 09 03	53.3	-	7.95	5.6	6.79	106	72	16.4	1.99	-	-	-	0.177	< 5	130	< 1	-	< 0.5	35	6.19	49.3	-	< 0.001	< 0.002 ^a	
	QUL-66-45M	2014 09 03	67.8	-	8.06	6.8	107	152	108	40.6	2.18	-	-	-	0.428	46.3	180	2.5	-	0.57	77	17.8	60.1	-	0.0031	0.0049	
QUL-67	QUL-67-34M	2014 08 20	64.6	7.74	7.9	5.8	49.5	136	91	10	1.91	-	-	-	0.324	32.1	195	< 1	-	< 0.5	52	12.4	55.5	-	< 0.001	< 0.002 ^a	
QUL-68	QUL-68-40M	2014 08 21	68.9	7.85	7.85	5.5	70.6	146	100	28.7	2	-	-	-	0.384	42.2	225	1.5	-	< 0.5	65	15.3	57.2	-	0.008	0.0108	
QUL-69	QUL-69-32M	2014 08 21	58.8	7.72	7.84	5.1	26.5	119	77	13.9	2.03	-	-	-	0.254	14.3	169	< 1	-	< 0.5	48	8.97	51.9	-	0.0093	0.0143	
QUL-74	QUL-74-46M	2014 08 21	60.9	7.90	7.85	4.9	37.5	124	83	7.9	1.79	-	-	-	0.286	23	183	< 1	-	< 0.5	50	10.5	52.4	-	0.0188	0.0413	
QUL-75	QUL-75-40M	2014 08 21	62	7.97	7.85	5.4	42.3	127	90	4.7	1.84	-	-	-	0.301	27.2	191	< 1	-	< 0.5	53	11.3	53.9	-	0.017	0.0276	
QUL-77	QUL-77	2014 08 22	50.4	7.66	7.95	16.9	0.67	98.4	68	< 3	2.2	-	-	-	0.154	< 5	65.2	< 1	-	< 0.5	34	5.77	45	-	< 0.001	< 0.002 ^a	
QUL-79	QUL-79-0M	2014 08 25	42.3	7.99	7.89	18.3	0.26	97.2	68	< 3	1.91	-	-	-	0.127	< 5	44.4	< 1	-	< 0.5	35	5.76	43.6	-	< 0.001	< 0.002 ^a	
	QUL-79-27M	2014 08 25	54.7	7.19	7.9	5.3	4.87	110	63	3.5	1.64	-	-	-	0.213	< 5	147	< 1	-	< 0.5	38	6.85	49.6	-	0.0223	0.134	
	QUL-79-79M	2014 08 25	56	7.35	7.9	4.8	10.4	113	76	3.7	1.64	-	-	-	0.217	5.5	153	< 1	-	< 0.5	40	7.56	50.4	-	0.0158	0.138	
	QUL-79-0M	2014 08 27	49.4	7.95	7.99	19.0	0.23	98.5	62	< 3	1.99	-	-	-	0.112	< 5	43.6	< 1	-	< 0.5	34	5.75	44	-	< 0.001	< 0.002 ^a	
	QUL-79-55M	2014 08 27	54.7	-	7.93	-	0.69	108	66	< 3	1.9	-	-	-	0.195	< 5	145	< 1	-	< 0.5	36	6.35	48.9	-	0.0019	0.0027	
	QUL-79-0M	2014 08 29	49.7	-	7.96	-	0.22	96.5	60	< 3	2.18	-	-	-	0.12	< 5	42.1	< 1	-	< 0.5	35	5.68	44.4	-	< 0.001	< 0.002 ^a	
	QUL-79-32M	2014 08 29	54.3	-	7.85	-	5.89	107	66	3	1.83	-	-	-	0.202	< 5	144	< 1	-	< 0.5	39	6.83	48.9	-	< 0.001	< 0.002 ^a	
	QUL-79-0M	2014 09 02	50.7	8.11	7.98	18	0.28	97.3	59	< 3	2.11	-	-	-	0.131	6.1	43.1	< 1	-	< 0.5	32	5.8	50.9	-	0.0018	0.0022	
	QUL-79-30M	2014 09 02	54.8	7.42	7.92	5.1	2.86	107	72	< 3	2.06	-	-	-	0.192	< 5	141	< 1	-	< 0.5	35	6.55	47.9	-	< 0.001	0.0036	
	QUL-79-60M	2014 09 02	55.7	-	7.93	-	1.19	107	76	< 3	1.78	-	-	-	0.206	< 5	145	< 1	-	< 0.5	34	6.43	48.8	-	< 0.001	0.0026	
QUL-82	QUL-82-2M	2014 08 25	49.7	8.11	7.95	18.1	0.33	99.4	70	< 3	2.27	-	-	-	0.133	< 5	47.8	< 1	-	< 0.5	34	5.73	44.4	-	0.0213	0.0254	
	QUL-82-TAP	2014 08 25	49.6	-	7.94	-	0.24	99.5	67	< 3	2.27	-	-	-	0.141	< 5	62.1	< 1	-	< 0.5	34	5.78	44.6	-	< 0.001	< 0.002 ^a	
QUL-83	QUL-83-2M	2014 08 25	49.6	7.94	7.94	18.3	0.25	98.8	65	< 3	2.33	-	-	-	0.122	< 5	46.9	< 1	-	< 0.5	34	5.71	44.1	-	< 0.001	< 0.002 ^a	
QUL-84	QUL-84-1M	2014 08 25	50.2	7.91	7.93	18.3	0.3	98.3	66	<																	

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Metals																												
			Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)	
BC Guidelines																															
BCWQG Aquatic Life (AW) ^{b,c}			100 ^d	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			50 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
BCWQG Drinking Water (DW) ^{b,c}			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
Canadian Drinking Water Quality (DW) ^e			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
QUL-66	QUL66-40M	2014 08 19	15.9	24.5	< 30	2.73	100	1.12	3.83	0.29	0.84	19.7	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.58	< 0.05	1.2	-	6.36	< 0.5	0.62	< 0.01	< 0.01	< 10	0.728	1	< 3	
	QUL66-40MX	2014 08 19	16.8	24.7	< 30	2.75	100	1.12	3.87	0.29	0.85	19.8	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.46	< 0.05	1.11	-	6.31	< 0.5	0.64	< 0.01	< 0.01	< 10	0.723	1	< 3	
	QA/QC RPD %		6	< 1	*	< 1	0	0	1	*	1	< 1	*	*	*	*	*	2	*	*	-	< 1	*	*	*	*	*	< 1	*	*	
	QUL66-40M	2014 08 21	13.7	23.5	< 30	2.59	77.3	1.05	3.51	0.25	0.7	18.9	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.52	< 0.05	0.55	< 0.05	5.66	< 0.5	0.55	< 0.01	< 0.01	< 10	0.656	< 1	< 3	
	QUL-66-0M	2014 08 26	9.9	17.1	< 30	1.93	2.31	0.46	0.819	< 0.1	< 0.1	5.74	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.96	< 0.05	0.61	-	0.298	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.132	< 1	< 3	
	QUL-66-10M	2014 08 26	9.9	17.9	< 30	2.01	6.44	0.49	0.974	< 0.1	0.14	7.36	< 0.1	< 10	< 0.01	< 0.5	< 0.1	2.93	< 0.05	0.6	-	0.448	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.147	< 1	< 3	
	QUL-66-58M	2014 08 26	15.3	25.3	< 30	2.77	108	1.02	3.56	0.28	0.81	19.1	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.26	< 0.05	0.94	-	5.83	< 0.5	0.66	< 0.01	< 0.01	< 10	0.673	< 1	< 3	
	QUL-66-0M	2014 08 28	10.1	16.6	< 30	1.93	0.447	0.471	0.822	< 0.1	0.14	5.28	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.54	< 0.05	0.79	-	0.294	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.138	< 1	< 3	
	QUL-66-18M	2014 08 28	10.6	18.3	< 30	2.01	9.34	0.48	0.904	< 0.1	0.12	8.62	< 0.1	< 10	< 0.01	< 0.5	< 0.1	3.43	< 0.05	< 0.5	-	0.367	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.152	< 1	< 3	
	QUL-66-40M	2014 08 28	35.3	22.8	< 30	2.54	69.3	0.981	3.3	0.24	0.7	17.1	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.71	< 0.05	0.64	-	4.96	< 0.5	0.52	< 0.01	< 0.01	< 10	0.595	< 1	< 3	
	QUL-66X-40M	2014 08 28	12.7	21.8	< 30	2.44	54.5	0.859	2.73	0.34	0.73	14.7	0.29	< 10	0.023	< 0.5	< 0.1	5.01	0.156	0.65	-	3.94	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.552	< 1	< 3	
	QA/QC RPD %		*	5	*	4	24	13	19	*	4	15	*	*	*	*	*	13	*	*	-	23	*	*	*	*	*	*	8	*	*
	QUL-66-0M	2014 08 30	9.8	16.5	< 30	1.93	0.607	0.469	0.818	< 0.1	0.11	5.41	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.58	< 0.05	0.56	-	0.269	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.139	< 1	< 3	
	QUL-66-16M	2014 08 30	9.3	18.1	< 30	1.99	7.68	0.488	0.911	< 0.1	0.12	8.36	< 0.1	< 10	< 0.01	< 0.5	< 0.1	3.97	< 0.05	0.62	-	0.353	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.155	< 1	< 3	
	QUL-66-39M	2014 08 30	16.2	23.7	< 30	2.62	74.9	1.15	4.09	0.3	0.83	18.4	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.01	< 0.05	0.81	-	6.86	< 0.5	0.58	< 0.01	< 0.01	< 10	0.693	< 1	< 3	
	QUL-66-0M	2014 09 03	9.8	16.6	< 30	1.93	1.33	0.478	0.897	< 0.1	0.12	5.68	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.74	< 0.05	0.51	-	0.315	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.131	< 1	< 3	
	QUL-66-14M	2014 09 03	7.1	18	< 30	2.03	2.73	0.486	0.905	< 0.1	0.11	6.11	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.67	< 0.05	0.81	-	0.328	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.149	< 1	< 3	
	QUL-66-45M	2014 09 03	14.4	23	< 30	2.54	56.2	1.19	4.03	0.34	0.81	17.6	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.2	< 0.05	0.84	-	7.05	< 0.5	0.52	< 0.01	< 0.01	< 10	0.657	1.1	< 3	
QUL-67	QUL-67-34M	2014 08 20	11.9	21.8	< 30	2.47	79.9	0.78	2.37	0.15	0.52	15.6	< 0.1	< 10	< 0.01	< 0.5	< 0.1	3.97	< 0.05	0.53	-	3.14	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.466	< 1	< 3	
QUL-68	QUL-68-40M	2014 08 21	11.7	23.3	< 30	2.62	106	0.889	3.46	0.2	0.67	17.3	< 0.1	< 10	< 0.01	< 0.5	< 0.1	4.2	< 0.05	1.08	-	4.45	< 0.5	0.51	< 0.01	< 0.01	< 10	0.593	< 1	< 3	
QUL-69	QUL-69-32M	2014 08 21	10.1	19.8	< 30	2.26	47.4	0.597	1.72	< 0.1	0.31	10.3	< 0.1	< 10	< 0.01	< 0.5	< 0.1	2.53	< 0.05	0.99	-	1.49	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.287	< 1	< 3	
QUL-74	QUL-74-46M	2014 08 21	11.4	20.6	< 30	2.29	42.8	0.652	2.11	0.11	0.38	11.4	< 0.1	< 10	< 0.01	< 0.5	< 0.1	3.33	< 0.05	0.95	-	2.09	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.362	< 1	< 3	
QUL-75	QUL-75-40M	2014 08 21	10.5	21	< 30	2.35	46.1	0.685	2.08	0.12	0.42	12	< 0.1	< 10	< 0.01	< 0.5	< 0.1	3.29	< 0.05	1	-	2.51	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.408	< 1	< 3	
QUL-77	QUL-77	2014 08 22	10.2	17	< 30	1.93	0.945	0.458	0.829	< 0.1	< 0.1	5.56	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.06	< 0.05	0.85	-	0.272	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.137	< 1	< 3	
QUL-79	QUL-79-0M	2014 08 25	8.1	14.2	< 30	1.66	0.269	0.382	0.689	< 0.1	< 0.1	4.43	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	-	0.229	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.111	< 1	< 3	
	QUL-79-27M	2014 08 25	6.8	18.5	< 30	2.08	5.6	0.491	1.74	< 0.1	0.12	6.1	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.62	< 0.05	0.5	-	0.528	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.177	< 1	< 3	
	QUL-79-79M	2014 08 25	6.3	19	< 30	2.11	8.68	0.517	1.32	< 0.1	0.17	6.65	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.4	< 0.05	0.59	-	0.741	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.203	< 1	< 3	
	QUL-79-0M	2014 08 27	10.2	16.7	< 30	1.91	0.304	0.44	0.818	< 0.1	< 0.1	4.91	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.74	-	0.254	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.136	< 1	< 3	
	QUL-79-55M	2014 08 27	4																												

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																															
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silicon (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Tin (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)	
BC Guidelines																																		
BCWQG Aquatic Life (AW) ^{b,c}			n/a	20	5	5,000	n/a	n/a	1,200	0.016-0.055 ^d	n/a	1 (Cr(+6))	110	6.0-19.3 ^d	1,000	27.3-177.4 ^d	870	n/a	1001-2568 ^d	Methyl mercury analysis in progress	2,000	25-150 ^d	373,000-432,000	2	n/a	0.1-3.0 ^d	n/a	0.3	n/a	2,000	300	6	33-103.5 ^d	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a	1,000	5.3 ⁱ	n/a	n/a	n/a	n/a	4	2-7.4 ^d	n/a	4.4-10.2 ^d	14 ⁱ	n/a	791.1-1415 ^d	1,000		n/a	n/a	n/a	n/a	0.05-1.5 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.5-78 ^d	
BCWQG Drinking Water (DW) ^{b,c}			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a	5,000
Canadian Drinking Water Quality (DW) ^e			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	n/a	1,000	300	10	n/a	n/a	50	1	n/a	n/a	n/a	10	n/a	n/a	200,000	n/a	n/a	n/a	20	n/a	5,000	
QUL-66	QUL66-40M	2014 08 19	5,490	0.34	2.41	126	0.14	< 0.5	10	0.03	25,500	2.4	2.21	111	3,090	2.03	3.72	4,340	192	-	6.29	2.54	3,360	0.64	13,300	0.042	4,640	0.018	< 0.1	229	0.849	10.4	11.2	
	QUL66-40MX	2014 08 19	5,590	0.34	2.41	129	0.14	< 0.5	10	0.029	25,500	2.51	2.17	114	3,090	2.03	3.62	4,370	193	-	6.18	2.54	3,420	0.64	13,500	0.041	4,770	0.019	< 0.1	230	0.857	10.4	11.4	
	QA/QC RPD %		2	*	0	2	*	*	*	*	0	*	2	*	0	*	3	< 1	*	-	2	0	2	*	1	*	3	*	*	< 1	< 1	0	*	
	QUL66-40M	2014 08 21	4,940	0.34	2.27	119	0.13	< 0.5	< 10	0.032	24,800	2.46	2.06	106	2,880	1.8	3.04	4,110	168	< 0.05	5.89	2.53	3,090	0.63	12,900	0.043	4,500	0.016	0.15	216	0.821	9.8	9.8	
	QUL-66-0M	2014 08 26	128	< 0.1	0.17	7.29	< 0.1	< 0.5	< 10	< 0.01	16,600	< 0.5	< 0.1	3.32	138	0.068	0.62	1,940	6.19	< 0.01	0.314	< 0.5	495	< 0.5	1,710	< 0.01	849	< 0.01	< 0.1	< 10	0.142	< 1	< 3	
	QUL-66-10M	2014 08 26	257	< 0.1	0.21	9.62	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	0.2	8.49	288	0.171	0.64	2,020	11.7	< 0.01	0.438	0.71	518	< 0.5	2,020	< 0.01	929	< 0.01	< 0.1	15	0.155	< 1	< 3	
	QUL-66-58M	2014 08 26	3,690	0.32	1.84	92.4	< 0.1	< 0.5	< 10	0.021	25,100	1.97	1.51	76.5	2,150	1.25	2.53	3,670	176	< 0.01	5.89	1.95	2,500	0.71	9,850	0.026	4,160	0.013	0.12	145	0.762	7.3	7.1	
	QUL-66-0M	2014 08 28	22.8	< 0.1	0.12	5.68	< 0.1	< 0.5	< 10	< 0.01	16,600	< 0.5	< 0.1	0.98	< 30	< 0.05	< 0.5	1,960	1.52	< 0.01	0.315	< 0.5	469	< 0.5	1,560	< 0.01	876	< 0.01	< 0.1	< 10	0.142	< 1	< 3	
	QUL-66-18M	2014 08 28	960	< 0.1	0.57	21.1	< 0.1	< 0.5	< 10	< 0.05 ^a	18,200	0.99	0.67	24	953	0.429	0.99	2,420	32.7	< 0.01	0.426	1.33	737	< 0.5	3,430	0.015	999	< 0.01	< 0.1	58	0.192	2.7	3.8	
	QUL-66-40M	2014 08 28	4,050	0.3	1.86	101	< 0.1	< 0.5	< 10	< 0.05 ^a	23,900	1.92	1.52	75.2	2,200	1.3	2.23	3,610	140	< 0.01	5.34	2.02	2,740	0.6	11,000	0.034	4,070	0.014	0.14	165	0.701	7.6	7.9	
	QUL-66X-40M	2014 08 28	4,860	0.27	2.26	105	0.11	< 0.5	< 10	< 0.05 ^a	23,200	3.03	2.22	88.6	3,390	1.67	3.14	4,000	153	< 0.01	4.35	3.17	2,760	0.52	12,100	0.043	3,730	0.018	0.17	224	0.653	10.6	10.6	
	QA/QC RPD %		18	*	19	4	*	*	*	*	3	*	37	*	43	*	*	10	*	*	20	*	< 1	*	10	*	9	*	*	30	7	33	*	
	QUL-66-0M	2014 08 30	35.7	< 0.1	0.14	5.76	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	1.86	32	0.058	< 0.5	1,940	2.05	< 0.01	0.294	< 0.5	484	< 0.5	1,550	< 0.01	841	< 0.01	< 0.1	< 10	0.138	< 1	< 3	
	QUL-66-16M	2014 08 30	434	< 0.1	0.31	14	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	0.32	15.9	415	0.233	0.76	2,160	18.6	< 0.01	0.387	0.71	595	< 0.5	2,450	< 0.01	941	< 0.01	< 0.1	26	0.167	1.4	< 3	
	QUL-66-39M	2014 08 30	4,240	0.37	1.96	108	0.1	< 0.5	10	0.029	24,400	1.89	1.56	86.8	2,160	1.46	2.46	3,650	143	< 0.01	7.02	1.94	3,030	0.63	11,100	0.033	4,770	0.013	0.14	159	0.798	8	7.8	
	QUL-66-0M	2014 09 03	59.5	< 0.1	0.14	6.26	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	2.04	53	< 0.05	0.67	1,930	3.05	< 0.01	0.382	< 0.5	498	< 0.5	1,590	< 0.01	857	< 0.01	< 0.1	< 10	0.147	< 1	< 3	
	QUL-66-14M	2014 09 03	598	< 0.1	0.39	15.7	< 0.1	< 0.5	< 10	< 0.01	17,900	0.62	0.35	12.6	545	0.233	1.24	2,250	18.7	< 0.01	0.425	0.83	673	< 0.5	2,830	< 0.01	976	< 0.01	< 0.1	44	0.188	1.9	< 3	
	QUL-66-45M	2014 09 03	5,260	0.4	2.18	130	0.12	< 0.5	10	0.025	24,000	2.36	1.86	102	2,570	1.68	3.13	3,790	138	< 0.01	7.23	2.37	3,600	0.55	13,900	0.038	4,810	0.018	0.16	196	0.797	9.6	9.2	
QUL-67	QUL-67-34M	2014 08 20	2,510	0.21	1.44	60.8	< 0.1	< 0.5	< 10	0.019	22,100	1.69	1.29	59.1	1,820	1.03	1.89	3,320	143	-	3.68	1.85	1,690	< 0.5	6,780	0.025	2,900	< 0.01	< 0.1	108	0.56	5.6	6.4	
QUL-68	QUL-68-40M	2014 08 21	4,060	0.27	1.9	86.9	0.11	< 0.5	< 10	0.024	23,700	2.51	1.81	75.9	2,650	1.55	3.04	3,800	187	-	4.67	2.51	2,370	0.57	10,500	0.038	3,540	0.018	0.13	164	0.706	8.1	9.2	
QUL-69	QUL-69-32M	2014 08 21	1,940	0.11	0.87	39.4	< 0.1	< 0.5	< 10	0.013	20,400	1.4	0.81	31.1	1,290	0.653	1.91	2,930	89.1	-	1.71	1.34	1,270	< 0.5	6,580	0.015	1,880	< 0.01	< 0.1	84	0.362	3.9	4.6	
QUL-74	QUL-74-46M	2014 08 21	2,080	0.15	1.03	45.7	< 0.1	< 0.5	< 10	0.015	20,500	1.38	0.98	40.3	1,480	0.78	2.13	2,930	89	-	2.32	1.51	1,360	< 0.5	6,000	0.018	2,110	< 0.01	< 0.1	90	0.421	4.4	5.4	
QUL-75	QUL-75-40M	2014 08 21	2,570	0.16	1.16	56.1	< 0.1	< 0.5	< 10	0.021	21,400	1.56	1.14	49.8	1,690	1.01	2.2	3,170	102	-	2.92	1.58	1,640	< 0.5	7,160	0.021	2,580	0.011	< 0.1	108	0.504	5.1	7.3	
QUL-77	QUL-77	2014 08 22	84.3	< 0.1	0.14	6.08	< 0.1	< 0.5	< 10	< 0.01	16,200	< 0.5	< 0.1	2.48	98	< 0.05	0.87	1,900	3.67	-	0.3	0.51	466	< 0.5	1,600	< 0.01	838	< 0.01	< 0.1	< 10	0.146	< 1	< 3	
QUL-79	QUL-79-0M	2014 08 25	12.9	<																														

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Physical Parameters									Microbiological Tests		Total Inorganics													
			Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Coliform (MPN/0.1L)	E. Coli (MPN/0.1L)	Total Kjeldahl Nitrogen (N) (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Bromide (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus ^g (mg/L)	
BC Guidelines																											
BCWQG Aquatic Life (AW) ^{b,c}			n/a	6.5-9.0	6.5-9.0	+/-1 Degree change from ambient	Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	n/a	n/a	5,680-18,400 ^d	32,800	60-120 ^d	32,800 ^f	600	988.2-1579 ^d	n/a	n/a	n/a	n/a	0.005-0.015	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a		Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	n/a	n/a	1,090-1,770 ^d	3,000	20-40 ^d	3,000 ^f	150	n/a	128-429 ^d	n/a	n/a	n/a	n/a	
BCWQG Drinking Water (DW) ^{b,c}			n/a	6.5-8.5	6.5-8.5	n/a ^j	Change of 1	n/a	n/a	n/a	n/a	n/a	0/100ml	n/a	n/a	n/a	10,000	1,000	10,000 ^f	250	1,000	500	n/a	n/a	0.01		
Canadian Drinking Water Quality (DW) ^e			n/a	6.5-8.5	6.5-8.5	n/a ^j	n/a ^j	n/a	500	n/a	n/a	n/a ^j	0/100ml	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a		
QUL-88	QUL88-2M	2014 08 26	50.5	7.83	7.98	19.0	0.27	100	62	< 3	2.19	-	-	-	0.114	< 5	41	< 1	-	< 0.5	35	5.7	44.6	-	< 0.001	< 0.002 ^a	
QUL-89	QUL-89-1M	2014 08 27	49.5	8.00	7.9	17.8	0.85	98.2	67	< 3	2.21	-	-	-	0.12	< 5	52.8	< 1	-	< 0.5	34	5.79	44.5	-	0.0011	< 0.002 ^a	
QUL-90	QUL-90	2014 08 27	49.8	8.54	8.01	19.0	0.76	99.7	68	< 3	2.21	-	-	-	0.133	< 5	40.1	< 1	-	< 0.5	35	5.73	45.1	-	< 0.001	0.0023	
	QUL-90-TAP	2014 08 27	76.1	-	7.71	-	0.3	148	99	< 3	3.46	-	-	-	0.119	8.7	21.2	< 1	-	< 0.5	57	3.9	73.2	-	0.0017	0.0029	
QUL-91	QUL-91	2014 08 28	49.3	7.96	7.91	18.0	1.33	96.7	65	< 3	2.11	-	-	-	0.131	5.2	53.7	< 1	-	< 0.5	34	5.8	46.1	-	< 0.001	< 0.002 ^a	
QUL-92	QUL-92	2014 08 28	49.8	8.01	7.93	17.9	0.59	97.7	63	< 3	2.13	-	-	-	0.143	< 5	52.5	< 1	-	< 0.5	34	5.79	46	-	< 0.001	0.0021	
QUL-93	QUL-93-TAP	2014 08 28	157	7.71	8.06	8.0	< 0.1	282	168	44.4	1.18	-	-	-	0.133	< 5	124	< 1	-	2.87	50	9.94	147	-	< 0.001	0.0026	
QUL-94	QUL-94	2014 08 28	50.7	8.24	7.96	18.8	0.94	99.2	62	3.4	2.34	-	-	-	0.157	< 5	46.6	< 1	-	< 0.5	35	5.85	47.4	-	< 0.001	0.0023	
QUL-95	QUL-95-FB	2014 09 01	< 0.5	-	-	-	< 0.1	-	< 10	< 3	-	-	-	-	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	-	< 0.001	< 0.002 ^a	
	QUL-95-TAP	2014 09 01	147	-	7.5	-	0.41	261	161	< 3	4.54	-	-	-	0.169	< 5	7.6	< 1	-	2.58	48	4.65	133	-	0.0365	0.036	
	QUL-95-WELL	2014 09 01	125	-	7.44	-	0.78	225	142	< 3	4.45	-	-	-	0.191	5.8	< 5	< 1	-	2.05	45	3.97	116	-	0.0226	0.025	
QUL-96	QUL-96-0M	2014 09 03	49.4	7.93	7.92	17.7	1.65	98	66	< 3	2.08	-	-	-	0.122	5.4	42.2	< 1	-	< 0.5	33	5.76	45.4	-	< 0.001	< 0.002 ^a	
	QUL-96-77M	2014 09 03	69.7	-	8.08	7.25	153	164	115	24.9	2.13	-	-	-	0.31	53.4	167	5	-	0.73	97	21.9	61.6	-	0.0039	0.0058	
QUL-100	QUL-100-TAP	2014 09 01	177	-	7.54	-	0.14	320	188	< 3	2.28	-	-	-	0.114	< 5	61.1	< 1	-	3.16	45	10.4	161	-	0.0032	0.0032	
	QUL-100-WELL	2014 09 01	184	6.71	7.52	8.44	0.15	328	196	< 3	2.11	-	-	-	0.132	< 5	66.5	< 1	-	3.15	44	10.4	163	-	0.006	0.006	
QUL-101	QUL-101-3M	2014 09 01	49.9	7.93	7.86	17.89	0.45	97.3	65	< 3	1.95	-	-	-	0.12	< 5	43.6	< 1	-	< 0.5	34	5.75	44.9	-	< 0.001	< 0.002 ^a	

Associated ALS files: L1498519, L1498533, L1499166, L1499203, L1499703, L1499707, L1499710, L1499926, L1499947, L1500619, L1501501, L1501518, L1502349, L1502364, L1502370, L1502388, L1503057, L1503061, L1503079, L1503910, L1503913, L1503928, L1503932, L1503933, L1503934, L1504180, L1504213, L1504220, L1504251, L1504261, L1504997, L1505918, L1506551, L1506571, L1506577, L1506586, L1500164, L1502370, L1506989, L1506996, L1507001, L1507291, L1507298, L1506992, L1507259, L1507347, L1507948, L1507972, L1507977, L1508637, L1508673, L1509507, L1508649, L1509597, L1510231, L1510268, L1510289, L1510741, L1510746, L1511190, L1511225, L1511232, L1511817, L1511758, L1511787, L1511850, L1511886, L1511905, L1512681, L1512726, L1513326, L1513353.

All terms defined within the body of SNC-Lavalin's report (available upon request).

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED	Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

^a Laboratory detection limit out of range.

^b British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.

^c A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.

^d Guideline varies with pH, and/or either Temperature or Hardness or chloride

^e Health Canada Drinking Water Guidelines, 2012.

^f Guideline for Nitrate applied.

^g The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.

^h Calculated based on an individual sample basis, not average of 30 day results.

ⁱ Secondary chronic or chronic value, not 30 day mean.

^j Guideline not applicable for site situation.

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Metals																											
			Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																														
BCWQG Aquatic Life (AW) ^{b,c}			100 ^d	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			50 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW) ^{b,c}			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Canadian Drinking Water Quality (DW) ^e			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
QUL-88	QUL88-2M	2014 08 26	9.6	17	< 30	1.97	0.622	0.459	0.809	< 0.1	0.11	5.01	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5		0.286	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.13	< 1	< 3
QUL-89	QUL-89-1M	2014 08 27	10.3	16.7	< 30	1.91	0.781	0.474	0.871	< 0.1	0.12	5.56	< 0.1	< 10	0.013	< 0.5	< 0.1	1.02	< 0.05	0.5		0.295	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.134	< 1	< 3
QUL-90	QUL-90	2014 08 27	10	16.7	< 30	1.95	3.63	0.431	0.872	< 0.1	0.39	5.46	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.93	< 0.05	0.68		0.289	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.13	< 1	< 3
	QUL-90-TAP	2014 08 27	4.8	22.9	67	4.61	3.43	0.365	2.16	0.16	0.81	4.77	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.85	< 0.05	< 0.5		0.273	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.022	< 1	4.2
QUL-91	QUL-91	2014 08 28	10.3	16.6	< 30	1.93	0.586	0.466	0.836	< 0.1	0.12	5.43	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.86	< 0.05	0.67	-	0.296	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.135	< 1	< 3
QUL-92	QUL-92	2014 08 28	9.9	16.7	< 30	1.95	0.581	0.461	0.831	< 0.1	0.12	5.47	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.82	< 0.05	0.7	-	0.295	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.136	< 1	< 3
QUL-93	QUL-93-TAP	2014 08 28	< 3	43.6	< 30	11.7	1.02	0.539	3.24	0.16	0.83	7.8	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.6	0.127	0.56	-	0.517	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.16	< 1	25.3
QUL-94	QUL-94	2014 08 28	10.7	17	< 30	1.99	1.42	0.471	0.853	< 0.1	0.15	5.45	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.92	< 0.05	0.67	-	0.31	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.136	< 1	< 3
QUL-95	QUL-95-FB	2014 09 01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUL-95-TAP	2014 09 01	5.6	50.8	32	4.85	25	0.377	2.26	< 0.1	2.87	6.16	< 0.1	15	< 0.01	< 0.5	< 0.1	20.8	2.19	< 0.5	-	0.563	0.67	< 0.5	< 0.01	< 0.01	< 10	0.161	< 1	20.7
	QUL-95-WELL	2014 09 01	7.9	43.4	83	4.12	37.8	0.299	2.08	< 0.1	2.9	4.81	< 0.1	13	< 0.01	< 0.5	0.25	1.38	< 0.05	< 0.5	-	0.453	0.6	< 0.5	< 0.01	< 0.01	< 10	0.075	< 1	< 3
QUL-96	QUL-96-0M	2014 09 03	9.3	16.6	< 30	1.92	0.668	0.474	0.826	< 0.1	0.11	5.54	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.72	< 0.05	0.57	-	0.301	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.131	< 1	< 3
	QUL-96-77M	2014 09 03	17.9	23.6	< 30	2.61	47	1.56	5.68	0.48	1.12	18.7	< 0.1	< 10	< 0.01	< 0.5	< 0.1	7.56	< 0.05	1.18	-	10.7	< 0.5	0.54	< 0.01	< 0.01	< 10	0.838	1.5	< 3
QUL-100	QUL-100-TAP	2014 09 01	< 3	60.7	< 30	6.24	0.75	0.375	3.98	0.13	0.58	8.53	< 0.1	< 10	0.014	< 0.5	< 0.1	24.1	0.362	< 0.5	-	0.732	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.174	< 1	< 3
	QUL-100-WELL	2014 09 01	< 3	63.1	< 30	6.34	1.05	0.524	4.1	0.13	0.69	11.4	< 0.1	< 10	0.017	< 0.5	< 0.1	1.49	< 0.05	< 0.5	-	0.67	< 0.5	< 0.5	< 0.01	< 0.01	10	0.181	< 1	< 3
QUL-101	QUL-101-3M	2014 09 01	9.5	16.8	< 30	1.94	0.401	0.473	0.839	< 0.1	< 0.1	5.33	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.75	< 0.05	0.64	-	0.304	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.133	< 1	< 3

Associated ALS files: L1498519, L1498533, L1499166, L1499203, L1499703, L1499707, L1499710, L1499926, L1499947, L1500619, L1501501, L1501518, L1502349, L1502364, L1502370, L1502388, L1503057, L1503061, L1503079, L1503910, L1503913, L1503928, L1503932, L1503933, L1503934, L1504180, L1504213, L1504220, L1504251, L1504261, L1504997, L1505918, L1506551, L1506571, L1506577, L1506586, L1500164, L1502370, L1506989, L1506996, L1507001, L1507291, L1507298, L1506992, L1507259, L1507347, L1507948, L1507972, L1507977, L1508637, L1508673, L1509507, L1508649, L1509597, L1510231, L1510268, L1510289, L1510741, L1510746, L1511190, L1511225, L1511232, L1511817, L1511758, L1511787, L1511850, L1511886, L1511905, L1512681, L1512726, L1513326, L1513353.

All terms defined within the body of SNC-Lavalin's report (available upon request).

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED	Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

^a Laboratory detection limit out of range.

^b British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.

^c A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.

^d Guideline varies with pH, and/or either Temperature or Hardness or chloride

^e Health Canada Drinking Water Guidelines, 2012.

^f Guideline for Nitrate applied.

^g The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.

^h Calculated based on an individual sample basis, not average of 30 day results.

ⁱ Secondary chronic or chronic value, not 30 day mean.

^j Guideline not applicable for site situation.

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																														
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silicon (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Tin (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																																	
BCWQG Aquatic Life (AW) ^{b,c}			n/a	20	5	5,000	n/a	n/a	1,200	0.016-0.055 ^d	n/a	1 (Cr(+6))	110	6.0-19.3 ^d	1,000	27.3-177.4 ^d	870	n/a	1001-2568 ^d	Methyl mercury analysis in progress	2,000	25-150 ^d	373,000-432,000	2	n/a	0.1-3.0 ^d	n/a	0.3	n/a	2,000	300	6	33-103.5 ^d
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a	1,000	5.3 ⁱ	n/a	n/a	n/a	n/a	n/a	4	2-7.4 ^d	n/a	4.4-10.2 ^d	14 ⁱ	n/a	791.1-1415 ^d		1,000	n/a	n/a	n/a	n/a	0.05-1.5 ^d	n/a	n/a	n/a	n/a	n/a	n/a	7.5-78 ^d
BCWQG Drinking Water (DW) ^{b,c}			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	n/a	2	n/a	n/a	n/a	5,000	
Canadian Drinking Water Quality (DW) ^e			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	n/a	1,000	300	10	n/a	n/a	50	1	n/a	n/a	n/a	10	n/a	n/a	200,000	n/a	n/a	n/a	20	n/a	5,000
QUL-88	QUL88-2M	2014 08 26	16.5	< 0.1	0.13	5.24	< 0.1	< 0.5	< 10	< 0.01	16,700	< 0.5	< 0.1	0.53	< 30	< 0.05	0.52	1,950	1.45	< 0.01	0.308	< 0.5	461	< 0.5	1,560	< 0.01	834	< 0.01	< 0.1	< 10	0.139	< 1	< 3
QUL-89	QUL-89-1M	2014 08 27	36.4	< 0.1	0.13	5.72	< 0.1	< 0.5	< 10	< 0.01	16,000	< 0.5	< 0.1	1.73	31	< 0.05	0.52	1,860	1.99	< 0.01	0.298	< 0.5	457	< 0.5	1,510	< 0.01	849	< 0.01	< 0.1	< 10	0.142	< 1	< 3
QUL-90	QUL-90	2014 08 27	38.4	< 0.1	0.56	5.84	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	1.55	71	< 0.05	0.63	1,950	6.3	< 0.01	0.316	< 0.5	440	< 0.5	1,560	< 0.01	884	< 0.01	< 0.1	< 10	0.134	< 1	< 3
	QUL-90-TAP	2014 08 27	10.4	0.17	0.72	4.86	< 0.1	< 0.5	< 10	< 0.01	22,400	< 0.5	< 0.1	2.23	74	< 0.05	< 0.5	4,580	3.74	< 0.01	0.287	< 0.5	369	< 0.5	4,460	< 0.01	2,220	< 0.01	< 0.1	< 10	0.024	< 1	4.8
QUL-91	QUL-91	2014 08 28	37	< 0.1	0.15	5.85	< 0.1	< 0.5	< 10	< 0.01	16,600	< 0.5	< 0.1	1.43	< 30	< 0.05	0.67	1,940	1.89	< 0.01	0.322	< 0.5	496	< 0.5	1,550	< 0.01	862	< 0.01	< 0.1	< 10	0.144	< 1	< 3
QUL-92	QUL-92	2014 08 28	41.3	< 0.1	0.15	5.93	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	1.44	37	< 0.05	0.7	1,950	2.22	< 0.01	0.341	< 0.5	475	< 0.5	1,570	< 0.01	857	< 0.01	< 0.1	< 10	0.143	< 1	< 3
QUL-93	QUL-93-TAP	2014 08 28	< 3	0.17	0.86	7.75	< 0.1	< 0.5	< 10	< 0.01	43,300	< 0.5	< 0.1	10.6	58	0.303	0.5	11,500	2.06	< 0.01	0.543	< 0.5	537	< 0.5	3,340	< 0.01	3,310	< 0.01	< 0.1	< 10	0.154	< 1	39.9
QUL-94	QUL-94	2014 08 28	64.4	< 0.1	0.19	6.1	< 0.1	< 0.5	< 10	< 0.01	16,700	< 0.5	< 0.1	1.59	69	< 0.05	0.72	1,980	3.28	< 0.01	0.331	< 0.5	496	< 0.5	1,620	< 0.01	891	< 0.01	< 0.1	< 10	0.149	< 1	< 3
QUL-95	QUL-95-FB	2014 09 01	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	< 0.01	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	QUL-95-TAP	2014 09 01	11.5	< 0.1	3.45	6.24	< 0.1	< 0.5	17	< 0.01	50,100	< 0.5	0.11	22.2	185	5	< 0.5	4,800	26.1	< 0.01	0.609	0.66	377	< 0.5	6,050	< 0.01	2,280	< 0.01	< 0.1	< 10	0.169	< 1	18.4
	QUL-95-WELL	2014 09 01	18.9	< 0.1	3.56	4.91	< 0.1	< 0.5	15	< 0.01	42,700	< 0.5	0.27	2.34	301	0.057	< 0.5	4,080	40.5	< 0.01	0.478	0.63	297	< 0.5	5,970	< 0.01	2,090	< 0.01	< 0.1	< 10	0.079	< 1	< 3
QUL-96	QUL-96-0M	2014 09 03	72.8	< 0.1	0.13	6.46	< 0.1	< 0.5	< 10	< 0.01	16,700	< 0.5	< 0.1	2.3	64	< 0.05	0.82	1,970	3.07	< 0.01	0.337	< 0.5	509	< 0.5	1,640	< 0.01	865	< 0.01	< 0.1	< 10	0.144	< 1	< 3
	QUL-96-77M	2014 09 03	7,300	0.57	2.76	189	0.16	< 0.5	13	0.02	26,100	2.39	2.1	135	2,880	2.11	3.8	4,120	140	0.011	11.2	2.3	5,130	0.61	18,900	0.046	6,890	0.023	0.21	249	0.998	11.6	10.5
QUL-100	QUL-100-TAP	2014 09 01	< 3	0.14	0.56	8.54	< 0.1	< 0.5	< 10	0.016	59,800	< 0.5	< 0.1	26.7	< 30	0.444	< 0.5	6,200	0.821	< 0.01	0.793	< 0.5	376	< 0.5	5,020	< 0.01	4,090	< 0.01	< 0.1	< 10	0.177	< 1	6.1
	QUL-100-WELL	2014 09 01	6.7	0.15	0.66	11.5	< 0.1	< 0.5	< 10	0.018	62,200	< 0.5	< 0.1	1.58	< 30	< 0.05	< 0.5	6,290	1.28	< 0.01	0.75	< 0.5	528	< 0.5	5,200	< 0.01	4,070	< 0.01	< 0.1	10	0.191	< 1	3.4
QUL-101	QUL-101-3M	2014 09 01	20.2	< 0.1	0.13	5.31	< 0.1	< 0.5	< 10	< 0.01	16,600	< 0.5	< 0.1	0.86	< 30	< 0.05	0.75	1,930	1.4	< 0.01	0.317	< 0.5	475	< 0.5	1,500	< 0.01	852	< 0.01	< 0.1	< 10	0.132	< 1	< 3

Associated ALS files: L1498519, L1498533, L1499166, L1499203, L1499703, L1499707, L1499710, L1499926, L1499947, L1500619, L1501501, L1501518, L1502349, L1502364, L1502370, L1502388, L1503057, L1503061, L1503079, L1503910, L1503913, L1503928, L1503932, L1503933, L1503934, L1504180, L1504213, L1504220, L1504251, L1504261, L1504997, L1505918, L1506551, L1506571, L1506577, L1506586, L1500164, L1502370, L1506989, L1506996, L1507001, L1507291, L1507298, L1506992, L1507259, L1507347, L1507948, L1507972, L1507977, L1508637, L1508673, L1509507, L1508649, L1509597, L1510231, L1510268, L1510289, L1510741, L1510746, L1511190, L1511225, L1511232, L1511817

All terms defined within the body of SNC-Lavalin's report (available upon request).

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- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED	Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

^a Laboratory detection limit out of range.

^b British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.

^c A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.

^d Guideline varies with pH, and/or either Temperature or Hardness or chloride

^e Health Canada Drinking Water Guidelines, 2012.

^f Guideline for Nitrate applied.

^g The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.

^h Calculated based on an individual sample basis, not average of 30 day results.

ⁱ Secondary chronic or chronic value, not 30 day mean.

^j Guideline not applicable for site situation.

TABLE 1b: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water (BLANKS) DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Physical Parameters							Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus ^g (mg/L)
			Hardness (mg/L)	pH (pH)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)											
BC Guidelines																				
BCWQG Aquatic Life (AW) ^{b,c}			n/a	6.5-9.0	Change of 8	n/a	n/a	Change of 25	n/a	n/a	5,680-18,400 ^d	32,800	60-120 ^d	32,800 ^f	600	988.2-1579 ^d	n/a	n/a	n/a	0.005-0.015
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	1,090-1,770 ^d	3,000	20-40 ^d	3,000 ^f	150	n/a	128-429 ^d	n/a	n/a	n/a
BCWQG Drinking Water (DW) ^{b,c}			n/a	6.5-8.5	Change of 1	n/a	n/a	n/a	n/a	n/a	n/a	10,000	1,000	10,000 ^f	250	1,000	500	n/a	n/a	0.01
Canadian Drinking Water Quality (DW) ^e			n/a	6.5-8.5	n/a ⁱ	n/a	500	n/a	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a
QUL-EQUIPMENT BLANK	QUL-EQUIPMENT BLANK	2014 08 12	< 0.5	5.51	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002
	QUL-EQUIPMENT BLANK	2014 08 14	< 0.5	-	< 0.1	-	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002
	QUL-EQUIPMENT BLANK	2014 08 15	< 0.5	-	< 0.1	-	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002
	QUL-EQUIPMENT BLANK	2014 08 16	< 0.5	-	< 0.1	-	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002 ^a
	EQUIPMENT BLANK	2014 08 19	< 0.5	5.85	0.26	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002 ^a
	QUL-EQUIPMENTBLANK	2014 08 19	< 0.5	5.42	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002 ^a
	EQUIPMENT BLANK	2014 08 21	< 0.5	6.13	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1		< 0.5	< 20	< 0.5	< 1	< 0.001	0.0223
	DI-BLANK	2014 08 28	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FILTER-BLANK	2014 08 28	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	KEM1B	2014 08 28	< 0.5	5.49	0.15	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1		< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002 ^a
	DI-BLANK	2014 09 01	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FILTER-BLANK	2014 09 01	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QUL-TRIP BLANK	KEM1B	2014 09 01	< 0.5	5.52	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002
	TRIP-BLANK	2014 09 01	< 0.5	-	< 0.1	-	< 10	< 3	-	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002
QUL-FIELD BLANK	FIELD BLANK	2014 08 06	-	5.58	< 0.1	< 2	< 10	< 3	-	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002 ^a
	FIELD BLANK DI	2014 08 08	< 0.5	5.48	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002 ^a
	FIELD BLANK	2014 08 10	-	5.87	< 0.1	< 2	< 10	< 3	-	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002 ^a
	QUL-FIELD BLANK	2014 08 15	-	-	< 0.1	-	< 10	< 3	-	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002 ^a
	FIELDBLANK	2014 08 12	< 0.5	5.49	< 0.1	< 2	< 10	< 3	-	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002 ^a
	FIELDBLANK	2014 08 17	< 0.5	5.64	< 0.1	< 2	< 10	< 3	-	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002 ^a
	ALS FIELD BLANK	2014 08 12	< 0.5	5.61	< 0.1	< 2	< 10	< 3	-	< 0.05	< 5	< 5	< 1	< 5.1	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002 ^a
	FIELD BLANK	2014 08 12	< 0.5	5.49	< 0.1	< 2	< 10	< 3	-	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002 ^a
	FIELD BLANK	2014 08 17	< 0.5	5.64	< 0.1	< 2	< 10	< 3	-	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002 ^a
	QUL-FIELDBLANK	2014 08 19	< 0.5	5.89	< 0.1	< 2	< 10	< 3	-	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002 ^a
	FIELD BLANK	2014 08 21	< 0.5	-	< 0.1	-	< 10	< 3	-	< 0.05	< 5	< 5	< 1		< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002 ^a
	QUL-19-FB	2014 08 27	< 0.5	-	0.15	-	< 10	< 3	-	< 0.05	< 5	< 5	< 1		< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002 ^a
QUL-ISCO-BLANK	ISCO-BLANK	2014 08 27	6.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	ISCO-BLANK	2014 09 01	5.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QUL-TRIP BLANK	TRIP-BLANK	2014 08 27	< 0.5	-	< 0.1	-	< 10	< 3	-	< 0.05	< 5	< 5	< 1		< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002 ^a

All terms defined within the body of SNC-Lavalin's report (available upon request).

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED	Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

^a Laboratory detection limit out of range.

^b British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.

^c A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2^o

^d Guideline varies with pH, and/or either Temperature or Hardness or chloride

^e Health Canada Drinking Water Guidelines, 2012.

^f Guideline for Nitrate applied.

^g The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.

ⁿ Calculated based on an individual sample basis, not average of 30 day results.

TABLE 1b: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water (BLANKS) DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Metals																											
			Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)	
BC Guidelines																														
BCWQG Aquatic Life (AW) ^{b,c}			100 ^d	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			50 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
BCWQG Drinking Water (DW) ^{b,c}			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Canadian Drinking Water Quality (DW) ^e			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
QUL-EQUIPMENT BLANK	QUL-EQUIPMENT BLANK	2014 08 12	< 3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3	
	QUL-EQUIPMENT BLANK	2014 08 14	< 3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3	
	QUL-EQUIPMENT BLANK	2014 08 15	< 3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3	
	QUL-EQUIPMENT BLANK	2014 08 16	< 3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3	
	EQUIPMENT BLANK	2014 08 19	< 3	0.129	< 30	< 0.1	0.449	< 0.05	< 0.05	< 0.1	< 0.1	0.114	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3	
	QUL-EQUIPMENTBLANK	2014 08 19	< 3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3	
	EQUIPMENT BLANK	2014 08 21	< 3	0.121	< 30	< 0.1	0.186	< 0.05	0.574	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	0.14	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3	
	DI-BLANK	2014 08 28	< 3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3	
	FILTER-BLANK	2014 08 28	< 3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3	
	KEM1B	2014 08 28	< 3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3	
	DI-BLANK	2014 09 01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	FILTER-BLANK	2014 09 01	< 3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3	
KEM1B	2014 09 01	< 3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3		
QUL-TRIP BLANK	TRIP-BLANK	2014 09 01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
QUL-FIELD BLANK	FIELD BLANK	2014 08 06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	FIELD BLANK DI	2014 08 08	< 3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3	
	FIELD BLANK	2014 08 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	QUL-FIELD BLANK	2014 08 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	FIELDBLANK	2014 08 12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	FIELDBLANK	2014 08 17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	ALS FIELD BLANK	2014 08 12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	FIELD BLANK	2014 08 12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	FIELD BLANK	2014 08 17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	QUL-FIELDBLANK	2014 08 19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	FIELD BLANK	2014 08 21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	QUL-19-FB	2014 08 27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
QUL-ISCO-BLANK	ISCO-BLANK	2014 08 27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	ISCO-BLANK	2014 09 01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
QUL-TRIP BLANK	TRIP-BLANK	2014 08 27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

All terms defined within the body of SNC-Lavalin's report (available upon request).

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED	Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

^a Laboratory detection limit out of range.

^b British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.

^c A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.

^d Guideline varies with pH, and/or either Temperature or Hardness or chloride

^e Health Canada Drinking Water Guidelines, 2012.

^f Guideline for Nitrate applied.

^g The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.

^h Calculated based on an individual sample basis, not average of 30 day results.

ⁱ Secondary chronic or chronic value, not 30 day mean.

^j Guideline not applicable for site situation.

TABLE 1b: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water (BLANKS) DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																														
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silicon (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Tin (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																																	
BCWQG Aquatic Life (AW) ^{b,c}			n/a	20	5	5,000	n/a	n/a	1,200	0.016-0.055 ^d	n/a	1 (Cr(+6))	110	6.0-19.3 ^d	1,000	27.3-177.4 ^d	870	n/a	1001-2568 ^d	Methyl mercury analysis in progress	2,000	25-150 ^d	373,000-432,000	2	n/a	0.1-3.0 ^d	n/a	0.3	n/a	2,000	300	6	33-103.5 ^d
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a	1,000	5.3 ⁱ	n/a	n/a	n/a	n/a	4	2-7.4 ^d	n/a	4.4-10.2 ^d	14 ⁱ	n/a	791.1-1415 ^d	1,000		n/a	n/a	n/a	n/a	0.05-1.5 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.5-78 ^d
BCWQG Drinking Water (DW) ^{b,c}			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a	5,000
Canadian Drinking Water Quality (DW) ^e			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	n/a	1,000	300	10	n/a	n/a	50	1	n/a	n/a	10	n/a	n/a	200,000	n/a	n/a	n/a	20	n/a	5,000	
QUL-EQUIPMENT BLANK	QUL-EQUIPMENT BLANK	2014 08 12	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01 ^a	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	< 0.05	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	QUL-EQUIPMENT BLANK	2014 08 14	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01 ^a	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	QUL-EQUIPMENT BLANK	2014 08 15	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01 ^a	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	QUL-EQUIPMENT BLANK	2014 08 16	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01 ^a	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	EQUIPMENT BLANK	2014 08 19	11.4	< 0.1	< 0.1	0.272	< 0.1	< 0.5	< 10	< 0.01 ^a	84	< 0.5	< 0.1	< 0.5	< 30	0.11	< 0.5	< 100	0.314	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	QUL-EQUIPMENT BLANK	2014 08 19	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01 ^a	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	EQUIPMENT BLANK	2014 08 21	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01 ^a	108	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	0.09	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	428	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	DI-BLANK	2014 08 28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FILTER-BLANK	2014 08 28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	KEM1B	2014 08 28	462	< 0.1	0.21	7.73	< 0.1	< 0.5	< 10	< 0.01 ^a	364	< 0.5	0.24	8.57	371	0.158	< 0.5	200	10.6	< 0.01	< 0.05	< 0.5	174	< 0.5	1,000	< 0.01	82	< 0.01	< 0.1	< 0.1	27	0.017	1.2
DI-BLANK	2014 09 01	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3	
FILTER-BLANK	2014 09 01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KEM1B	2014 09 01	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	< 0.01	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3	
QUL-TRIP BLANK	TRIP-BLANK	2014 09 01	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	< 0.01	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
QUL-FIELD BLANK	FIELD BLANK	2014 08 06	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01 ^a	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	< 0.05	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	FIELD BLANK DI	2014 08 08	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01 ^a	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	< 0.05	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	FIELD BLANK	2014 08 10	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01 ^a	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	< 0.05	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	QUL-FIELD BLANK	2014 08 15	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01 ^a	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	FIELDBLANK	2014 08 12	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01 ^a	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	FIELDBLANK	2014 08 17	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01 ^a	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	ALS FIELD BLANK	2014 08 12	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01 ^a	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	< 0.05	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	FIELD BLANK	2014 08 12	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01 ^a	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	FIELD BLANK	2014 08 17	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01 ^a	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	QUL-FIELDBLANK	2014 08 19	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01 ^a	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50								

TABLE 4a: Summary of Analytical Results for Mount Polley, Hazeltine Creek - Surface Water DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Physical Parameters									Total Inorganics											
			Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus (mg/L)	
BC Standards																							
BCWQG Aquatic Life (AW) ^{b,c}			n/a	6.5-9.0	6.5-9.0	+/-1 Degree change from ambient ^g	Change of 8	n/a	n/a	Change of 25	n/a	n/a	700-24,500 ^d	32,800	60-600 ^d	32,800 ^f	600	1324-1982 ^d	n/a	n/a	n/a	n/a	
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a		Change of 2 ^k	n/a	n/a	Change of 5 ^k	+20% of median background	n/a	135-17,700 ^d	3,000	20-200 ^d	3,000 ^f	150	n/a	128-429 ^d	n/a	n/a	n/a	
BCWQG Drinking Water (DW) ^{b,c}			n/a	6.5-8.5	6.5-8.5	n/a ⁱ	Change of 1	n/a	n/a	n/a	n/a	n/a	n/a	10,000	1,000	10,000 ^f	250	1,000	500	n/a	n/a	0.01	
Canadian Drinking Water Quality (DW) ^e			n/a	6.5-8.5	6.5-8.5	n/a ⁱ	n/a ⁱ	n/a	500	n/a	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	
HAD-1	HAD-1	2014 08 10	99	8.96	8.68	19.8	5.24	198	140	10.7	6.82	0.378	< 5	< 5	< 1	-	< 0.5	64	27.5	71.8	< 0.001	0.0056	
	HAD-1	2014 08 10	100	9.08	8.86	21.3	2.75	193	138	< 3	6.58	0.361	< 5	< 5	< 1	-	< 0.5	65	27.4	74.7	< 0.001	0.0075	
	HAD-1	2014 08 11	102	8.94	8.50	21.1	2.16	199	139	< 3	6.77	0.366	< 5	< 5	< 1	-	< 0.5	62	27.4	74.4	< 0.001	0.0056	
	HAD-1	2014 08 12	99.9	8.99	8.65	20.5	2.64	198	148	< 3	6.12	0.348	< 5	< 5	< 1	-	< 0.5	63	27.2	74.7	< 0.001	0.0061	
	HAD-1	2014 08 13	97.4	9.11	8.80	21.2	1.5	194	135	< 3	6.32	0.386	6.7	< 5	< 1	-	< 0.5	65	27.3	73.9	0.0011	0.0053	
	HAD-1	2014 08 14	99	9.00	8.59	21.5	1.24	200	131	< 3	6.45	0.341	< 5	< 5	< 1	-	< 0.5	63	27.4	76.2	< 0.001	0.0048	
	HAD-1	2014 08 15	99.1	8.79	8.43	22.3	1.25	201	136	< 3	6.39	0.37	< 5	< 5	< 1	< 5.1	< 0.5	81	27.3	75	< 0.001	0.0057	
	HAD-1	2014 08 16	101	8.67	8.26	20.4	3.21	203	141	4.5	6.71	0.363	< 5	< 5	< 1	< 5.1	< 0.5	67	27.6	75.2	< 0.001	0.0058	
	HAD-1X	2014 08 16	102	8.67	8.21	20.4	3.04	203	138	3.4	6.73	0.371	< 5	< 5	< 1	< 5.1	< 0.5	69	27.5	74.8	< 0.001	0.0061	
	QA/QC RPD %		< 1	0	< 1	0	5	0	2	*	< 1	2	*	*	*	*	*	*	*	< 1	< 1	*	*
	HAD-1	2014 08 17	97.9	8.79	8.21	20.5	2.95	201	141	< 3	6.57	0.352	< 5	< 5	< 1	-	< 0.5	69	27.5	75	< 0.001	0.0068	
	HAD-1	2014 08 18	100	8.65	8.37	21.0	1.51	201	135	< 3	7.37	0.425	5.7	< 5	< 1	-	< 0.5	67	27.4	76.1	< 0.001	0.0064	
	HAD-1	2014 08 19	98	8.72	8.28	20.7	1.52	200	105	< 3	7.02	0.372	< 5	< 5	< 1	-	< 0.5	75	26.8	76.3	< 0.001	0.0059	
	HAD-1	2014 08 20	102	8.72	8.21	20.7	7.79	201	139	8.5	6.45	0.364	< 5	< 5	< 1	-	< 0.5	63	26.8	76	< 0.001	0.0062	
	HAD-1	2014 08 21	101	-	8.32	-	5.14	200	141	4	6.29	0.34	< 5	< 5	< 1	-	< 0.5	65	27.5	74.8	< 0.001	0.0046	
	HAD-1	2014 08 22	103	8.58	8.29	-	4.33	200	131	4.2	6.61	0.349	< 5	< 5	< 1	-	< 0.5	66	27.5	75.2	< 0.001	0.0069	
	HAD-1	2014 08 24	104	8.22	8.11	18.2	7.44	207	140	7.8	6.95	0.354	< 5	< 5	< 1	-	< 0.5	69	27.2	77.7	0.0012	0.0036	
	HAD-1	2014 08 26	106	8.66	8.47	17.6	1.14	204	130	< 3	6.2	0.364	7.6	10.4	< 1	-	< 0.5	67	29.5	77	< 0.001	0.0044	
	HAD-1	2014 08 28	108	8.78	8.33	18.2	1.08	209	132	< 3	6.88	0.335	5	< 5	< 1	-	< 0.5	67	28.9	76.8	0.001	0.0075	
	HAD-1	2014 08 30	103	8.25	8.16	17.3	4.03	210	130	5.4	7.06	0.362	< 5	< 5	< 1	-	< 0.5	72	29.5	77.3	< 0.001	0.0058	
	HAD-1	2014 08 31	104	8.57	8.29	16.9	1.3	209	137	3.3	6.52	0.35	9	6.6	< 1	-	< 0.5	69	29.5	77.3	0.0011	0.0047	
	HAD-1	2014 09 01	105	8.28	8.14	16.6	2.36	208	131	4.3	6.52	0.37	5.6	5.9	< 1	-	< 0.5	66	29.5	77	< 0.001	0.0045	
	HAD-1	2014 09 02	106	8.57	8.1	16.6	1.24	212	142	< 3	6.64	0.347	< 5	< 5	< 1	-	< 0.5	65	29.5	78.1	< 0.001	0.004	
	HAD-2	HAD-2	2014 08 30	104	8.14	8.15	17.3	4.41	211	137	3.9	6.73	0.359	< 5	< 5	< 1	-	< 0.5	71	29.4	78.8	< 0.001	0.0049
		HAD-2	2014 08 31	104	8.67	8.34	17.0	1.5	208	137	3.6	6.53	0.357	7.4	6.4	< 1	-	< 0.5	71	29.7	78.4	< 0.001	0.0046
		HAD-2	2014 09 01	106	8.37	8.25	16.2	2.56	208	136	< 3	6.62	0.348	5.1	< 5	< 1	-	< 0.5	66	29.4	77.6	< 0.001	0.0045
		HAD-2	2014 09 02	105	8.57	8.21	16.6	1.63	212	140	3.1	6.21	0.346	< 5	< 5	< 1	-	< 0.5	65	29.5	78.9	< 0.001	0.0041
		HAD-2	2014 09 03	107	8.2	8.38	21.6	1.91	208	144	< 3	6.79	0.345	< 5	< 5	< 1	-	< 0.5	65	29.8	77.9	< 0.001	0.0061
HAC01	HAC01	2014 08 24	161	8.22	8.17	18.2	> 4000	343	243	3,350	6.04	0.902	62.2	453	6.1	-	1.56	120	75.9	93.4	0.0056	0.009	
	HAC01-24HRS	2014 08 24	159	-	8.24	-	52.1	345	255	38.7	5.71	0.691	72.9	461	6.4	-	1.58	119	77.7	95.5	0.0061	0.0077	
	HAC01	2014 08 25	155	8.62	8.23	18.6	4,090	320	140	4,040	5.73	1.81	63.2	408	4.4	-	1.3	111	69	92.1	0.0032	0.0082	
	HAC01	2014 08 26	151	8.76	8.3	18.0	> 4000	317	219	3,930	6.16	0.73	67.3	418	4.8	-	1.01	120	65.1	94.7	0.0066	0.0099	
	HAC01	2014 08 27	166	8.83	8.17	18.8	> 4000	396	280	35,000	5.43	2.7	183	356	20.9	-	3.45	226	101	90.6	0.0024	0.0068	
	HAC01- 24HRS SETTLING	2014 08 26	153	-	8.21	-	31.4	319	216	3.8	5.51	0.643	77.1	416	5	-	1	103	65.2	96.1	0.0067	0.0118	
	HAC1	2014 08 28	166	8.29	8.18	17.6	> 4000	411	282	26,900	5.59	2.3	174	403	16.7	-	3.96	248	114	91.4	0.0028	0.0081	
	HAC1- 24HRS SETTLING	2014 08 28	168	-	8.14	-	68.3	420	312	41.6	5.13	0.925	159	397	16.2	-	3.95	247	116	89.8	0.0027	0.0081	
	HAC01	2014 08 29	189	8.3	8.17	14.6	> 4000	501	341	62,800	4.16	4.55	300	432	38.5	-	6.36	348	162	78.3	0.0024	0.009	
	HAC01- 24HRS SETTLING	2014 08 29	190	-	8.13	-	50.6	502	367	31.4	4.23	1.06	308	437	36.1	-	6.4	328	166	78.2	0.0029	0.008	
	HAC-1	2014 08 31	164	-	8.23	-	100,000	394	266	46,400	5.54	3.26	201	365	17.7	-	3.35	222	99.9	92.4	0.0063	0.0136	
	HAC-1	2014 09 03	137	-	8.34	-	> 4000	317	217	20,800	6.02	2.57	125	80	13.1	-	2.49	166	64.9	97.4	0.0088	0.027	
	HAC-1	2014 09 02	175	-	8.24	-	> 4000	413	292	45,200	5.39	4.26	233	520	19.4	-	3.8	256	111	89.4	0.0092	0.0153	
	HAC-1	2014 09 04	131	-	8.19	-	1,510	291	187	18,900	6.11	1.87	102	63.2	9.2	-	1.9	131	54.3	92.5	0.005	0.0089	

Associated ALS files: L1500203, L1500608, L1501501, L1501554, L1502400, L1503098, L1503928, L1503934, L1503943, L1504261, L1504997, L1505933, L1506592, L1506998, L1507958, L1507977, L1508649, L1509589, L1509671, L1510294, L1510298, L1510307, L1510744, L1511205, L1511213, L1511248, L1511774, L1511886, L1511905, L1512696, L1513375, L1509636, L1512755, L1513819.

All terms defined within the body of SNC-Lavalin's report (available upon request).

- < Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.

BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.

SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.

BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

^a Laboratory detection limit out of range.

^b British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.

^c A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.

^d Guideline varies with pH, and or Temperature or Hardness or Chloride

^e Health Canada Drinking Water Guidelines, 2012.

^f Guideline for Nitrate applied.

^g Stream criteria applies to deviation from optimum fish species temperature range. In this case, a reference to ambient is made since the background range (Minnow, 2014) is ~0-20.8°C (upper Hazeltine Creek).

^h Calculated based on an individual sample basis, not average result basis.

ⁱ Secondary chronic or chronic value, not 30 day mean.

^j Guideline not applicable for site situation.

^k Based on a change from background at any one time. Prebreach range (Minnow, 2014) 0.34-6.99 NTU and <3-18 mg/L TSS.

TABLE 4a: Summary of Analytical Results for Mount Polley, Hazeltine Creek - Surface Water DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Metals																											
			Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)	
BC Standards																														
BCWQG Aquatic Life (AW) ^{b,c}			100 ^d	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			50 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW) ^{b,c}			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Canadian Drinking Water Quality (DW) ^e			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
HAD-1	HAD-1	2014 08 10	14.8	31.6	< 30	4.85	5.48	0.458	4.4	< 0.1	0.61	10.9	< 0.1	19	< 0.01	< 0.5	< 0.1	3.4	< 0.05	< 0.5	2.84	< 0.5	0.56	< 0.01	< 0.01	< 10	0.11	1.1	< 3	
	HAD-1	2014 08 10	13.9	32.3	< 30	4.81	4.56	0.444	4.52	< 0.1	0.6	11	< 0.1	19	< 0.01	< 0.5	< 0.1	3.19	< 0.05	< 0.5	2.77	< 0.5	0.55	< 0.01	< 0.01	< 10	0.099	1.2	< 3	
	HAD-1	2014 08 11	10.4	32.5	< 30	4.97	2.44	0.407	4.25	< 0.1	0.53	8.45	< 0.1	21	< 0.01	< 0.5	< 0.1	2.49	< 0.05	< 0.5	2.68	< 0.5	0.58	< 0.01	< 0.01	< 10	0.106	1.1	< 3	
	HAD-1	2014 08 12	9.5	32	< 30	4.85	1.4	0.356	4.14	< 0.1	0.53	7.48	< 0.1	22	< 0.01	< 0.5	< 0.1	2.15	< 0.05	< 0.5	2.62	< 0.5	0.59	< 0.01	< 0.01	< 10	0.107	1.1	< 3	
	HAD-1	2014 08 13	10	31.2	< 30	4.73	0.282	0.397	4.43	< 0.1	0.58	7.67	< 0.1	20	< 0.01	< 0.5	< 0.1	2.41	< 0.05	< 0.5	2.41	< 0.5	0.53	< 0.01	< 0.01	< 10	0.098	1.2	< 3	
	HAD-1	2014 08 14	8.9	31.9	< 30	4.67	0.224	0.388	4.48	< 0.1	0.6	7.51	< 0.1	22	< 0.01	< 0.5	< 0.1	2.19	< 0.05	< 0.5	2.63	< 0.5	0.57	< 0.01	< 0.01	< 10	0.113	1.1	< 3	
	HAD-1	2014 08 15	10.1	31.7	< 30	4.86	3.31	0.434	4.59	< 0.1	0.61	7.72	< 0.1	19	< 0.01	< 0.5	< 0.1	2.51	< 0.05	< 0.5	2.51	< 0.5	0.58	< 0.01	< 0.01	< 10	0.118	1.1	< 3	
	HAD-1	2014 08 16	11.1	32.4	< 30	4.9	7.12	0.463	4.43	< 0.1	0.62	8.52	< 0.1	18	< 0.01	< 0.5	< 0.1	2.77	< 0.05	< 0.5	2.59	< 0.5	0.59	< 0.01	< 0.01	< 10	0.101	1.1	< 3	
	HAD-1X	2014 08 16	10.9	32.6	< 30	4.92	7.97	0.477	4.47	< 0.1	0.6	8.45	< 0.1	18	< 0.01	< 0.5	< 0.1	2.67	< 0.05	< 0.5	2.52	< 0.5	0.57	< 0.01	< 0.01	< 10	0.102	1.1	< 3	
	QA/QC RPD %		*	< 1	*	< 1	11	3	< 1	*	3	< 1	*	*	*	*	*	4	*	*	3	*	*	*	*	*	< 1	*	*	*
	HAD-1	2014 08 17	10.4	31.5	< 30	4.7	0.578	0.467	4.56	< 0.1	0.57	8.05	< 0.1	21	< 0.01	< 0.5	< 0.1	2.65	< 0.05	< 0.5	2.66	< 0.5	0.54	< 0.01	< 0.01	< 10	0.106	1.1	< 3	
	HAD-1	2014 08 18	10	32.2	< 30	4.78	4.26	0.463	4.43	< 0.1	0.57	8.29	< 0.1	20	< 0.01	< 0.5	< 0.1	2.41	< 0.05	< 0.5	2.62	< 0.5	0.52	< 0.01	< 0.01	< 10	0.108	1.1	< 3	
	HAD-1	2014 08 19	10.8	31.5	< 30	4.71	7.21	0.465	4.44	< 0.1	0.61	8.15	< 0.1	20	< 0.01	< 0.5	< 0.1	2.44	< 0.05	< 0.5	2.6	< 0.5	0.57	< 0.01	< 0.01	< 10	0.1	1.2	< 3	
	HAD-1	2014 08 20	15.1	32.7	< 30	4.85	4.9	0.478	4.52	< 0.1	0.61	9.04	< 0.1	19	< 0.01	< 0.5	< 0.1	3.31	< 0.05	< 0.5	2.62	< 0.5	0.58	< 0.01	< 0.01	< 10	0.105	1.1	< 3	
	HAD-1	2014 08 21	13.5	32.3	< 30	4.9	0.453	0.467	4.57	< 0.1	0.59	8.23	< 0.1	20	< 0.01	< 0.5	< 0.1	2.99	< 0.05	< 0.5	2.61	< 0.5	0.55	< 0.01	< 0.01	< 10	0.103	1	< 3	
	HAD-1	2014 08 22	10.7	33.1	< 30	4.91	3.02	0.48	4.66	< 0.1	0.63	8.69	< 0.1	20	< 0.01	< 0.5	< 0.1	2.92	< 0.05	< 0.5	2.66	< 0.5	0.57	< 0.01	< 0.01	< 10	0.104	1.1	< 3	
	HAD-1	2014 08 24	15.1	33.5	< 30	4.92	3.04	0.532	4.69	< 0.1	0.67	9.76	< 0.1	18	< 0.01	< 0.5	< 0.1	3.71	< 0.05	< 0.5	2.79	< 0.5	0.56	< 0.01	< 0.01	< 10	0.107	1.1	< 3	
	HAD-1	2014 08 26	31.5	34.4	< 30	4.98	4.05	0.675	5	< 0.1	0.63	9.06	< 0.1	19	0.014	< 0.5	< 0.1	3.59	0.078	< 0.5	4.53	< 0.5	0.63	< 0.01	< 0.01	< 10	0.117	1.1	56.5	
	HAD-1	2014 08 28	10.9	34.7	< 30	5.07	2.33	0.495	4.96	< 0.1	0.65	8.74	< 0.1	21	< 0.01	< 0.5	< 0.1	2.82	< 0.05	< 0.5	2.98	< 0.5	0.69	< 0.01	< 0.01	< 10	0.116	1.1	< 3	
	HAD-1	2014 08 30	15.1	32.9	< 30	4.96	4.24	0.61	5.23	< 0.1	0.73	10.3	< 0.1	19	0.015	< 0.5	< 0.1	4.25	< 0.05	< 0.5	3.61	< 0.5	0.65	< 0.01	< 0.01	< 10	0.132	1.1	< 3	
	HAD-1	2014 08 31	10.5	33.4	< 30	4.97	1.97	0.551	4.83	< 0.1	0.66	9.34	< 0.1	20	< 0.01	< 0.5	< 0.1	2.82	< 0.05	< 0.5	3.52	< 0.5	0.71	< 0.01	< 0.01	< 10	0.119	1.1	< 3	
	HAD-1	2014 09 01	10	34	< 30	5.02	3.07	0.56	4.86	< 0.1	0.65	9.35	< 0.1	20	< 0.01	< 0.5	< 0.1	3.01	< 0.05	< 0.5	3.39	< 0.5	0.69	< 0.01	< 0.01	< 10	0.119	1.1	< 3	
	HAD-1	2014 09 02	11.3	34	< 30	5.02	2.68	0.543	5.02	< 0.1	0.68	9.06	< 0.1	19	< 0.01	< 0.5	< 0.1	2.89	< 0.05	< 0.5	3.41	< 0.5	0.77	< 0.01	< 0.01	< 10	0.126	1.1	< 3	
	HAD-2	HAD-2	2014 08 30	12.4	33.4	< 30	4.96	3.96	0.593	5.2	< 0.1	0.69	10.1	< 0.1	19	< 0.01	< 0.5	< 0.1	3.85	< 0.05	< 0.5	3.53	< 0.5	0.63	< 0.01	< 0.01	< 10	0.121	1.1	< 3
		HAD-2	2014 08 31	10.9	33.5	< 30	5.02	2.71	0.553	4.9	< 0.1	0.67	9.4	< 0.1	20	< 0.01	< 0.5	< 0.1	2.93	< 0.05	< 0.5	3.5	< 0.5	0.7	< 0.01	< 0.01	< 10	0.117	1.1	< 3
		HAD-2	2014 09 01	11	34	< 30	5.04	3.42	0.558	4.97	< 0.1	0.68	9.45	< 0.1	20	< 0.01	< 0.5	< 0.1	3.05	< 0.05	< 0.5	3.42	< 0.5	0.7	< 0.01	< 0.01	< 10	0.119	1.1	< 3
		HAD-2	2014 09 02	10.5	34	< 30	4.99	3.28	0.554	4.98	< 0.1	0.68	9.15	< 0.1	19	< 0.01	< 0.5	< 0.1	2.93	< 0.05	< 0.5	3.43	< 0.5	0.76	< 0.01	< 0.01	< 10	0.118	1.1	< 3
		HAD-2	2014 09 03	11.6	34.6	< 30	4.96	2.37	0.533	4.82	< 0.1	0.65	9.49	< 0.1	20	< 0.01	< 0.5	< 0.1	3.08	< 0.05	< 0.5	3.56	< 0.5	0.7	< 0.01	< 0.01	< 10	0.133	1.1	< 3
HAC01	HAC01	2014 08 24	11.6	50	< 30	8.79	52.7	2.08	9.63	< 0.5	1.72	35.2	< 0.5	< 50	< 0.05	< 0.5	< 0.5	17.5	< 0.25	3.2	12.3	< 2.5	3.44	< 0.05	< 0.05	< 10	0.986	< 5	< 5	
	HAC01-24HRS	2014 08 24	10.3	49.2	< 30	8.83	53.9	2.16	9.82	0.27	1.93	37.9	< 0.1	29	0.013	< 0.5	0.12	17.8	< 0.05	1.11	12.									

TABLE 4a: Summary of Analytical Results for Mount Polley, Hazeltine Creek - Surface Water DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																												
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Standards																															
BCWQG Aquatic Life (AW) ^{b,c}			n/a	20	5	5,000	n/a	n/a	1,200	0.0325-0.13 ^d	n/a	1 (Cr(+6))	110	11.2-49.1 ^d	1,000	79.5-635.1 ^d	870	n/a	1619-6061 ^d	Methyl mercury analysis in progress	2,000	25-150 ^d	373,000-432,000	2	0.1-3.0 ^d	n/a	0.3	2,000	300	6	38.9-341 ^d
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a	1,000	5.3 ⁱ	n/a	n/a	n/a	n/a	4	3.9-20 ^d	n/a	6.4-28.1 ^d	14 ⁱ	n/a	1036-2809 ^d	1,000		n/a	n/a	n/a	0.05-1.5 ^d	n/a	n/a	n/a	n/a	n/a	13.1-316 ^d	
BCWQG Drinking Water (DW) ^{b,c}			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	2	n/a	n/a	n/a	5,000	
Canadian Drinking Water Quality (DW) ^e			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	n/a	1,000	300	10	n/a	n/a	50	1	n/a	n/a	10	n/a	200,000	n/a	n/a	20	n/a	5,000	
HAD-1	HAD-1	2014 08 10	<u>356</u>	< 0.1	1.07	17	< 0.1	< 0.5	20	< 0.01	31,900	< 0.5	0.24	<u>21.5</u>	247	0.162	< 0.5	5,030	28.9	< 0.05	3.01	< 0.5	559	0.59	< 0.01	4,690	< 0.01	19	0.131	2.1	< 3
	HAD-1	2014 08 10	<u>121</u>	< 0.1	0.68	12.9	< 0.1	< 0.5	20	< 0.01	31,700	< 0.5	< 0.1	<u>6.69</u>	86	0.061	< 0.5	4,860	13.1	< 0.05	2.94	< 0.5	489	0.61	< 0.01	4,720	< 0.01	< 10	0.106	1.6	< 3
	HAD-1	2014 08 11	76.8	< 0.1	0.56	8.68	< 0.1	< 0.5	23	< 0.01	32,300	< 0.5	< 0.1	<u>4.11</u>	49	< 0.05	< 0.5	4,960	9.59	< 0.05	2.93	< 0.5	401	0.66	< 0.01	4,100	< 0.01	< 10	0.122	1.2	< 3
	HAD-1	2014 08 12	36.8	< 0.1	0.54	7.25	< 0.1	< 0.5	22	< 0.01	31,400	< 0.5	< 0.1	2.82	< 30	< 0.05	< 0.5	4,950	5.57	< 0.05	2.72	< 0.5	346	0.62	< 0.01	3,970	< 0.01	< 10	0.122	1.1	< 3
	HAD-1	2014 08 13	26.7	0.1	0.66	7.91	< 0.1	< 0.5	22	< 0.01	31,400	< 0.5	< 0.1	3.21	< 30	< 0.05	< 0.5	4,800	4.8	< 0.05	2.51	< 0.5	420	0.57	< 0.01	4,630	< 0.01	< 10	0.103	1.2	< 3
	HAD-1	2014 08 14	30.9	< 0.1	0.68	8.08	< 0.1	< 0.5	23	< 0.01	32,800	< 0.5	< 0.1	3.29	< 30	< 0.05	< 0.5	4,840	6.54	< 0.05	2.76	< 0.5	418	0.58	< 0.01	4,620	< 0.01	< 10	0.115	1.3	< 3
	HAD-1	2014 08 15	44.2	< 0.1	0.64	8.34	< 0.1	< 0.5	20	< 0.01	31,800	< 0.5	< 0.1	3.51	< 30	< 0.05	< 0.5	4,790	8.96	< 0.05	2.6	< 0.5	439	0.6	< 0.01	4,530	< 0.01	< 10	0.107	1.2	< 3
	HAD-1	2014 08 16	<u>164</u>	< 0.1	0.64	10.6	< 0.1	< 0.5	21	< 0.01	32,000	< 0.5	0.14	<u>6.79</u>	110	0.051	< 0.5	4,910	16.8	< 0.05	2.71	< 0.5	511	0.58	< 0.01	4,530	< 0.01	< 10	0.112	1.4	< 3
	HAD-1X	2014 08 16	<u>128</u>	< 0.1	0.63	9.87	< 0.1	< 0.5	21	< 0.01	32,300	< 0.5	0.11	<u>6.15</u>	99	< 0.05	< 0.5	4,900	16.7	< 0.05	2.68	< 0.5	516	0.57	< 0.01	4,450	< 0.01	< 10	0.108	1.4	< 3
	QA/QC RPD %		25	*	2	7	*	*	*	*	< 1	*	*	*	*	*	*	< 1	*	*	1	*	< 1	*	*	2	*	*	4	*	*
	HAD-1	2014 08 17	<u>121</u>	< 0.1	0.64	9.62	< 0.1	< 0.5	21	< 0.01	32,800	< 0.5	0.11	<u>6.51</u>	93	< 0.05	< 0.5	4,910	12.5	< 0.05	2.67	< 0.5	510	0.57	< 0.01	4,750	< 0.01	< 10	0.107	1.4	< 3
	HAD-1	2014 08 18	64.7	< 0.1	0.65	9.22	< 0.1	< 0.5	22	< 0.01	32,100	< 0.5	< 0.1	<u>4.34</u>	59	< 0.05	< 0.5	4,800	14.2	< 0.01	2.63	< 0.5	495	0.58	< 0.01	4,500	< 0.01	< 10	0.107	1.3	< 3
	HAD-1	2014 08 19	52.8	< 0.1	0.65	9.03	< 0.1	< 0.5	23	< 0.01	32,300	< 0.5	< 0.1	3.8	49	< 0.05	< 0.5	4,910	10.9	< 0.05	2.78	< 0.5	482	0.6	< 0.01	4,680	< 0.01	< 10	0.108	1.2	< 3
	HAD-1	2014 08 20	<u>382</u>	< 0.1	0.75	13.8	< 0.1	< 0.5	22	< 0.01	32,500	< 0.5	0.28	<u>13.9</u>	273	0.103	0.57	4,990	19.2	< 0.05	2.87	< 0.5	596	< 0.5	< 0.01	4,710	< 0.01	19	0.118	2	< 3
	HAD-1	2014 08 21	<u>288</u>	< 0.1	0.72	12.3	< 0.1	< 0.5	21	< 0.01	33,600	< 0.5	0.21	<u>11.8</u>	206	0.069	0.51	5,290	13.7	< 0.05	2.75	< 0.5	572	0.59	< 0.01	4,860	< 0.01	17	0.119	1.8	< 3
	HAD-1	2014 08 22	<u>227</u>	< 0.1	0.72	11.9	< 0.1	< 0.5	21	< 0.01	33,500	< 0.5	0.17	<u>9.07</u>	159	0.058	< 0.5	5,040	12.5	< 0.05	2.92	< 0.5	566	0.61	< 0.01	4,700	< 0.01	13	0.121	1.8	< 3
	HAD-1	2014 08 24	<u>392</u>	< 0.1	0.79	15.3	< 0.1	< 0.5	21	< 0.01	34,400	< 0.5	0.3	<u>15.1</u>	285	0.107	0.6	5,260	15.8	< 0.05	3	< 0.5	652	0.6	< 0.01	4,820	< 0.01	16	0.124	2	< 3
	HAD-1	2014 08 26	62.3	< 0.1	0.66	9.05	< 0.1	< 0.5	19	< 0.01	32,700	< 0.5	< 0.1	4.1	40	< 0.05	< 0.5	4,950	7.67	< 0.05	3.34	< 0.5	511	0.65	< 0.01	4,880	< 0.01	< 10	0.123	1.2	< 3
	HAD-1	2014 08 28	46.9	< 0.1	0.63	9	< 0.1	< 0.5	23	< 0.01	33,100	< 0.5	< 0.1	3.87	< 30	< 0.05	< 0.5	4,890	5.53	< 0.01	3.13	< 0.5	504	0.65	< 0.01	4,940	< 0.01	< 10	0.12	1.3	< 3
	HAD-1	2014 08 30	<u>245</u>	< 0.1	0.74	13.3	< 0.1	< 0.5	20	< 0.01	33,500	< 0.5	0.18	<u>11.2</u>	171	0.088	< 0.5	5,080	14.5	< 0.01	3.64	< 0.5	683	0.64	< 0.01	5,240	< 0.01	13	0.135	1.7	< 3
	HAD-1	2014 08 31	62	< 0.1	0.69	10.2	< 0.1	< 0.5	25	< 0.01	33,600	< 0.5	< 0.1	<u>4.45</u>	37	< 0.05	< 0.5	5,040	7.61	< 0.01	3.78	< 0.5	581	0.72	< 0.01	5,130	< 0.01	< 10	0.135	1.3	< 3
	HAD-1	2014 09 01	<u>121</u>	< 0.1	0.73	11.5	< 0.1	< 0.5	23	< 0.01	34,500	< 0.5	0.11	<u>6.17</u>	87	< 0.05	< 0.5	5,190	12.4	< 0.01	3.68	< 0.5	603	0.68	< 0.01	4,990	< 0.01	10	0.128	1.4	< 3
	HAD-1	2014 09 02	64.7	< 0.1	0.69	9.87	< 0.1	< 0.5	21	< 0.01	33,900	< 0.5	< 0.1	<u>4.27</u>	46	< 0.05	< 0.5	5,040	8.45	< 0.01	3.63	< 0.5	563	0.85	< 0.01	4,980	< 0.01	< 10	0.135	1.3	< 3
HAD-2	HAD-2	2014 08 30	<u>252</u>	< 0.1	0.77	13.6	< 0.1	< 0.5	23	< 0.01	33,000	< 0.5	0.19	<u>11.6</u>	182	0.074	< 0.5	5,020	14.6	< 0.01	3.66	< 0.5	681	0.63	< 0.01	5,290	< 0.01	14	0.136	1.7	< 3
	HAD-2	2014 08 31	74.3	< 0.1	0.7	10.4	< 0.1	< 0.5	24	< 0.01	33,500	< 0.5	< 0.1	<u>4.87</u>	56	< 0.05	< 0.5	5,080	8.31	< 0.01	3.76	< 0.5	587	0.74	< 0.01	5,380	< 0.01	< 10	0.138	1.3	< 3
	HAD-2	2014 09 01	<u>140</u>	< 0.1	0.73	11.4	< 0.1	< 0.5	23	< 0.01	34,500	< 0.5	0.11	<u>6.58</u>	105	< 0.05	< 0.5	5,210	11.2	< 0.01	3.69										

TABLE 4a: Summary of Analytical Results for Mount Polley, Hazeltine Creek - Surface Water DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Physical Parameters									Total Inorganics										
			Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus (mg/L)
BC Standards																						
BCWQG Aquatic Life (AW) ^{b,c}			n/a	6.5-9.0	6.5-9.0	+/-1 Degree change from ambient ^g	Change of 8	n/a	n/a	Change of 25	n/a	n/a	700-24,500 ^d	32,800	60-600 ^d	32,800 ^f	600	1324-1982 ^d	n/a	n/a	n/a	n/a
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a		Change of 2 ^k	n/a	n/a	Change of 5 ^k	+20% of median background	n/a	135-17,700 ^d	3,000	20-200 ^d	3,000 ^f	150	n/a	128-429 ^d	n/a	n/a	n/a
BCWQG Drinking Water (DW) ^{b,c}			n/a	6.5-8.5	6.5-8.5	n/a ⁱ	Change of 1	n/a	n/a	n/a	n/a	n/a	n/a	10,000	1,000	10,000 ^f	250	1,000	500	n/a	n/a	0.01
Canadian Drinking Water Quality (DW) ^e			n/a	6.5-8.5	6.5-8.5	n/a ⁱ	n/a ^j	n/a	500	n/a	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a
HAC02	HAC-02	2014 08 27	498	8.09	8.02	15.6	> 4000	1,140	813	91,800	9.13	15.5	252	13,000	104	-	15.6	890	473	99.1	0.0031	0.013
	HAC-02-24HRS SETTLING	2014 08 27	501	-	8.09	-	21.9	1,180	857	40.5	7.87	13.8	447	12,600	119	-	15.1	660	465	97.8	0.0014	0.0133
HAC03	HAC-03	2014 08 27	491	8.12	8.1	18	> 4000	1,160	841	86,400	7.65	13.3	295	10,900	111	-	17.6	940	481	93.8	0.0029	0.014
	HAC-03-24HRS SETTLING	2014 08 27	478	-	8.09	-	8.75	1,190	826	6.4	7.05	12.1	488	10,900	144	-	17.5	680	483	90.8	0.0011	0.0142
HAC04	HAC-04	2014 08 27	134	8.52	8.42	19.1	3,480	293	200	4,320	6.7	1.41	30	903	6.1	-	1.35	121	68.1	92.3	0.002	0.0057
	HAC-04-24HRS SETTLING	2014 08 27	136	-	8.21	-	69.5	309	176	8	6.29	1.26	39.1	904	6.7	-	1.35	113	68.3	83.1	0.0012	0.0075
HAC05	HAC-05	2014 08 28	162	8.39	8.24	18.2	> 4000	375	212	27,900	5.51	1.27	141	412	14.8	-	3.17	207	99.3	79.8	0.0027	0.0074
	HAC-05- 24HRS SETTLING	2014 08 28	169	-	8.12	-	51.2	361	264	4.7	5.04	0.916	160	409	15	-	3.16	208	101	82.2	0.002	0.0074
HAC06	HAC-06	2014 08 28	165	8.25	8.22	17.5	> 4000	402	282	41,500	5.22	1.78	155	383	15.9	-	3.69	242	108	84.8	0.0035	0.0088
	HAC-06- 24HRS SETTLING	2014 08 28	162	-	8.19	-	57.7	396	225	46.9	5.29	0.88	180	384	16.3	-	3.7	247	111	84.7	0.0026	0.0084

Associated ALS files: L1500203, L1500608, L1501501, L1501554, L1502400, L1503098, L1503928, L1503934, L1503943, L1504261, L1504997, L1505933, L1506592, L1506998, L1507958, L1507977, L1508649, L1509589, L1509671, L1510294, L1510298, L1510307, L1510744, L1511205, L1511213, L1511248, L1511774, L1511886, L1511905, L1512696, L1513375, L1509636, L1512755, L1513819.

All terms defined within the body of SNC-Lavalin's report (available upon request).

- < Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED	Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

^a Laboratory detection limit out of range.

^b British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.

^c A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.

^d Guideline varies with pH, and or Temperature or Hardness or Chloride

^e Health Canada Drinking Water Guidelines, 2012.

^f Guideline for Nitrate applied.

^g Stream criteria applies to deviation from optimum fish species temperature range. In this case, a reference to ambient is made since the background range (Minnow, 2014) is ~0-20.8°C (upper Hazeltine Creek).

^h Calculated based on an individual sample basis, not average result basis.

ⁱ Secondary chronic or chronic value, not 30 day mean.

^j Guideline not applicable for site situation.

^k Based on a change from background at any one time. Prebreach range (Minnow, 2014) 0.34-6.99 NTU and <3-18 mg/L TSS.

TABLE 4a: Summary of Analytical Results for Mount Polley, Hazeltine Creek - Surface Water DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Metals																										
			Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Standards																													
BCWQG Aquatic Life (AW) ^{b,c}			100 ^d	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			50 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW) ^{b,c}			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Canadian Drinking Water Quality (DW) ^e			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
HAC02	HAC-02	2014 08 27	61	161	< 150	23.3	162	12.9	55.5	< 5	< 5	59.5	< 5	< 500	< 0.5	< 5	< 5	25	< 2.5	< 25	155	< 25	32.6	< 0.5	< 0.5	< 50	3.04	< 50	< 50
	HAC-02-24HRS SETTLING	2014 08 27	39.9	162	< 90	23.7	229	13.2	57.5	1.77	3.42	51.4	< 0.1	116	0.043	< 0.5	0.7	53.9	< 0.05	10	180	1.4	33.3	< 0.01	< 0.01	< 30	3.99	3.7	< 3
HAC03	HAC-03	2014 08 27	199	161	< 150	21.4	154	14.3	63.1	< 5	< 5	58.6	< 5	< 500	< 0.5	< 5	< 5	24	< 2.5	< 25	168	< 25	26.9	< 0.5	< 0.5	< 50	3.24	< 50	< 50
	HAC-03-24HRS SETTLING	2014 08 27	11	156	< 90	21.4	229	14.8	67.5	2.01	3.48	52	< 0.1	123	< 0.1	< 0.5	0.67	47	< 0.05	11	193	1.22	28.7	< 0.01	< 0.01	< 30	4.18	3.7	< 3
HAC04	HAC-04	2014 08 27	52	42.9	< 30	6.42	29.4	1.85	8.51	< 0.5	1.38	35	< 0.5	< 50	< 0.05	< 0.5	< 0.5	36.4	< 0.25	< 2.5	14.8	< 2.5	3.79	< 0.05	< 0.05	< 10	0.365	< 5	< 5
	HAC-04-24HRS SETTLING	2014 08 27	34.5	43.7	< 30	6.42	29.2	1.97	8.83	0.23	1.84	41.3	< 0.1	32	< 0.01	< 0.5	0.15	51.2	< 0.05	1.23	15.9	< 0.5	3.99	< 0.01	< 0.01	< 10	0.424	2.3	< 3
HAC05	HAC-05	2014 08 28	66	53.1	< 30	7.14	43.4	4.4	17.8	< 2	2.7	35.7	< 2	< 200	< 0.2	< 2	< 2	25.8	< 1	< 10	41.2	< 10	3.7	< 0.2	< 0.2	< 10	0.92	< 20	< 20
	HAC-05- 24HRS SETTLING	2014 08 28	22	55.6	< 30	7.44	58.6	4.92	19	0.85	2.96	39.3	< 0.2	48	0.035	< 0.5	0.21	40.8	< 0.1	3.9	49.7	< 1	4.41	< 0.02	< 0.02	< 10	1.3	3.9	< 3
HAC06	HAC-06	2014 08 28	1,650	52.3	1,660	8.38	99.1	5.9	20.8	< 2	3.5	63	< 2	< 200	< 0.2	< 2	< 2	86.2	1.1	< 10	38.6	< 10	3.4	< 0.2	< 0.2	135	1.7	< 20	< 20
	HAC-06- 24HRS SETTLING	2014 08 28	19.8	52.9	< 30	7.38	66.9	5.55	20.8	0.95	2.85	40	< 0.5	< 50	< 0.05	< 0.5	< 0.5	37.7	< 0.25	3.8	46.8	< 2.5	3.64	< 0.05	< 0.05	< 10	2.08	< 5	< 5

Associated ALS files: L1500203, L1500608, L1501501, L1501554, L1502400, L1503098, L1503928, L1503934, L1503943, L1504261, L1504997, L1505933, L1506592, L1506998, L1507958, L1507977, L1508649, L1509589, L1509671, L1510294, L1510298, L1510307, L1510744, L1511205, L1511213, L1511248, L1511774, L1511886, L1511905, L1512696, L1513375, L1509636, L1512755, L1513819.

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- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED	Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

^a Laboratory detection limit out of range.

^b British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.

^c A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.

^d Guideline varies with pH, and or Temperature or Hardness or Chloride

^e Health Canada Drinking Water Guidelines, 2012.

^f Guideline for Nitrate applied.

^g Stream criteria applies to deviation from optimum fish species temperature range. In this case, a reference to ambient is made since the background range (Minnow, 2014) is ~0-20.8°C (upper Hazeltine Creek).

^h Calculated based on an individual sample basis, not average result basis.

ⁱ Secondary chronic or chronic value, not 30 day mean.

^j Guideline not applicable for site situation.

^k Based on a change from background at any one time. Prebreach range (Minnow, 2014) 0.34-6.99 NTU and <3-18 mg/L TSS.

TABLE 4a: Summary of Analytical Results for Mount Polley, Hazeltine Creek - Surface Water DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																												
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Standards																															
BCWQG Aquatic Life (AW) ^{b,c}			n/a	20	5	5,000	n/a	n/a	1,200	0.0325-0.13 ^d	n/a	1 (Cr(+6))	110	11.2-49.1 ^d	1,000	79.5-635.1 ^d	870	n/a	1619-6061 ^d	Methyl mercury analysis in progress	2,000	25-150 ^d	373,000-432,000	2	0.1-3.0 ^d	n/a	0.3	2,000	300	6	38.9-341 ^d
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a	1,000	5.3 ⁱ	n/a	n/a	n/a	n/a	4	3.9-20 ^d	n/a	6.4-28.1 ^d	14 ⁱ	n/a	1036-2809 ^d	1,000		n/a	n/a	n/a	0.05-1.5 ^d	n/a	n/a	n/a	n/a	n/a	13.1-316 ^d	
BCWQG Drinking Water (DW) ^{b,c}			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	2	n/a	n/a	n/a	5,000	
Canadian Drinking Water Quality (DW) ^e			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	n/a	1,000	300	10	n/a	n/a	50	1	n/a	n/a	10	n/a	200,000	n/a	n/a	20	n/a	5,000	
HAC02	HAC-02	2014 08 27	952,000	< 5	844	14,700	46.9	< 25	900	14.6	#####	528	984	77,500	1,000,000	776	1,030	751,000	49,600	15	139	557	120,000	79.8	33.1	140,000	1.45	11,400	56.4	2,730	4,000
	HAC-02-24HRS SETTLING	2014 08 27	1,740	1.59	4.52	77.1	< 0.1	< 0.5	109	0.043	155,000	0.69	1.7	119	1,600	0.808	9.64	24,500	250	4.06	169	2.41	11,500	34.4	0.04	56,800	0.011	154	3.71	9.9	7.9
HAC03	HAC-03	2014 08 27	917,000	< 5	829	14,200	45.2	< 25	850	13.4	#####	514	967	75,800	997,000	764	1,010	727,000	46,700	6.7	141	548	119,000	72.6	32.8	147,000	1.5	11,400	56.4	2,720	3,910
	HAC-03-24HRS SETTLING	2014 08 27	472	1.61	3.7	55.3	< 0.1	< 0.5	120	< 0.1	150,000	< 0.5	0.76	64.4	322	0.307	9.43	21,900	201	1.1	190	1.83	13,000	29.6	0.015	66,300	< 0.01	43	3.81	4.7	3.4
HAC04	HAC-04	2014 08 27	68,000	0.55	54.4	961	2.6	< 2.5	65	0.613	161,000	32	61.4	3,380	84,400	37.2	68.8	57,400	2,680	< 0.5	22.9	32.9	11,200	6.29	1.35	14,000	0.105	5,740	4	322	243
	HAC-04-24HRS SETTLING	2014 08 27	3,410	0.24	2.66	85.9	< 0.1	< 0.5	35	0.032	44,700	1.37	2.13	198	2,240	2.17	3.37	7,970	118	0.43	16.1	1.76	2,990	3.9	0.068	9,100	0.01	151	0.486	10.4	11.1
HAC05	HAC-05	2014 08 28	318,000	< 2	278	4,850	15	< 10	290	4.42	767,000	156	335	21,200	345,000	229	380	208,000	15,100	2.9	61.4	177	38,000	20.6	9.26	41,000	0.51	9,340	17.8	1,170	1,310
	HAC-05- 24HRS SETTLING	2014 08 28	8,990	0.51	39.7	469	2.02	< 1	67	1.83	577,000	7.59	17.9	4,210	13,700	8.2	7.9	17,500	5,010	0.444	15.1	19	9,600	4.72	< 0.02	23,300	< 0.02	42	2.16	32.8	69.7
HAC06	HAC-06	2014 08 28	374,000	< 2	333	6,580	18.2	< 10	360	6.87	#####	233	399	28,600	440,000	316	436	299,000	18,100	2.5	54.6	264	50,700	22.4	12.7	54,500	0.78	6,040	24.5	1,130	1,540
	HAC-06- 24HRS SETTLING	2014 08 28	1,660	0.59	2.7	391	0.8	< 2.5	57	2.02	659,000	1.14	17.6	1,860	7,750	0.47	8.1	18,300	5,840	0.407	21	23	10,200	4.19	< 0.05	23,600	< 0.05	58	1.13	8	48

Associated ALS files: L1500203, L1500608, L1501501, L1501554, L1502400, L1503098, L1503928, L1503934, L1503943, L1504261, L1504997, L1505933, L1506592, L1506998, L1507958, L1507977, L1508649, L1509589, L1509671, L1510294, L1510298, L1510307, L1510744, L1511205, L1511213, L1511248, L1511774, L1511886, L1511905, L1512696, L1513375, L1509636, L1512755, L1513819.

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- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED	Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

^a Laboratory detection limit out of range.

^b British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.

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^d Guideline varies with pH, and or Temperature or Hardness or Chloride

^e Health Canada Drinking Water Guidelines, 2012.

^f Guideline for Nitrate applied.

^g Stream criteria applies to deviation from optimum fish species temperature range. In this case, a reference to ambient is made since the background range (Minnow, 2014) is ~0-20.8°C (upper Hazeltine Creek).

^h Calculated based on an individual sample basis, not average result basis.

ⁱ Secondary chronic or chronic value, not 30 day mean.

^j Guideline not applicable for site situation.

^k Based on a change from background at any one time. Prebreach range (Minnow, 2014) 0.34-6.99 NTU and <3-18 mg/L TSS.

TABLE 4b: Summary of Analytical Results for Mount Polley, Hazeltine Creek - Blanks DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Physical Parameters									Total Inorganics										
			Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus (mg/L)
BC Standards																						
BCWQG Aquatic Life (AW) ^{b,c}			n/a	6.5-9.0	6.5-9.0	+/-1 Degree change from ambient ^g	Change of 8	n/a	n/a	Change of 25	n/a	n/a	700-24,500 ^d	32,800	60 (Cl<2)	32,800 ^f	600	1324-1592 ^d	n/a	n/a	n/a	n/a
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a		Change of 2 ^k	n/a	n/a	Change of 5 ^k	+20% of median background	n/a	135-17,700 ^d	3,000	20 (Cl<2)	3,000 ^f	150	n/a	128-309 ^d	n/a	n/a	n/a
BCWQG Drinking Water (DW) ^{b,c}			n/a	6.5-8.5	6.5-8.5	n/a ⁱ	Change of 1	n/a	n/a	n/a	n/a	n/a	n/a	10,000	1,000	10,000 ^f	250	1,000	500	n/a	n/a	0.01
Canadian Drinking Water Quality (DW) ^e			n/a	6.5-8.5	6.5-8.5	n/a ⁱ	n/a ^j	n/a	500	n/a	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a
HAD-FIELD BLANK	FIELD BLANK	2014 08 22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	HAC01-FB	2014 08 27	< 0.5	-	5.99	-	< 0.1	< 2	< 10	< 3	-	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002 ^a
HAD-TRAVEL BLANK	TRIP BLANK	2014 08 27	< 0.5	-	5.65	-	< 0.1	< 2	< 10	< 3	-	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002 ^a

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- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.

BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.

SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.

BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

Concentration greater than 5xDL

^a Laboratory detection limit out of range.

^b British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.

^c A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.

^d Guideline varies with pH, and or Temperature or Hardness.

^e Health Canada Drinking Water Guidelines, 2012.

^f Guideline for Nitrate applied.

^g Stream criteria applies to deviation from optimum fish species temperature range. In this case, a reference to ambient is made since the background range (Minnow, 2014) is ~0-20.8°C (upper Hazeltine Creek).

^h Calculated based on an individual sample basis, not average result basis.

ⁱ Secondary chronic or chronic value, not 30 day mean.

^j Guideline not applicable for site situation.

^k Based on a change from background at any one time. Prebreach range (Minnow, 2014) 0.34-6.99 NTU and <3-18 mg/L TSS.

TABLE 4b: Summary of Analytical Results for Mount Polley, Hazeltine Creek - Blanks DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Metals																										
			Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Standards																													
BCWQG Aquatic Life (AW) ^{b,c}			100 ^d	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			50 ^d	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW) ^{b,c}			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Canadian Drinking Water Quality (DW) ^e			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
HAD-FIELD BLANK	FIELD BLANK	2014 08 22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	HAC01-FB	2014 08 27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAD-TRAVEL BLANK	TRIP BLANK	2014 08 27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.

SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.

BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

Concentration greater than 5xDL

^a Laboratory detection limit out of range.

^b British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.

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^d Guideline varies with pH, and or Temperature or Hardness.

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^g Stream criteria applies to deviation from optimum fish species temperature range. In this case, a reference to ambient is made since the background range (Minnow, 2014) is ~0-20.8°C (upper Hazeltine Creek).

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^j Guideline not applicable for site situation.

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TABLE 4b: Summary of Analytical Results for Mount Polley, Hazeltine Creek - Blanks DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																												
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Standards																															
BCWQG Aquatic Life (AW) ^{b,c}			n/a	20	5	5,000	n/a	n/a	1,200	0.0325-0.0575 ^d	n/a	1 (Cr(+6))	110	11.2-19.9 ^d	1,000	79.5-184.8 ^d	870	n/a	1619-2634 ^d	Methyl mercury analysis in progress	2,000	25-150 ^d	373,000-432,000	2	0.1-3.0 ^d	n/a	0.3	2,000	300	6	38.9-108 ^d
BCWQG Aquatic Life (30day) (AW) ^{b,c,h}			n/a	n/a	n/a	1,000	5.3 ⁱ	n/a	n/a	n/a	n/a	4	3.9-7.6 ^d	n/a	6.4-10.5 ^d	14 ⁱ	n/a	1036-1441 ^d	1,000		n/a	n/a	n/a	0.05-1.5 ^d	n/a	n/a	n/a	n/a	n/a	13.1-82.5 ^d	
BCWQG Drinking Water (DW) ^{b,c}			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	2	n/a	n/a	n/a	5,000	
Canadian Drinking Water Quality (DW) ^e			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	n/a	1,000	300	10	n/a	n/a	50	1	n/a	n/a	n/a	10	n/a	200,000	n/a	n/a	20	n/a	5,000
HAD-FIELD BLANK	FIELD BLANK	2014 08 22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.05	-	-	-	-	-	-	-	-	-	-	-	
	HAC01-FB	2014 08 27	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01 ^a	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	< 0.01	< 0.05	< 0.5	< 50	< 0.5	< 0.01	< 50	< 0.01	< 10	< 0.01	< 1	< 3
HAD-TRAVEL BLANK	TRIP BLANK	2014 08 27	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01 ^a	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	< 0.01	< 0.05	< 0.5	< 50	< 0.5	< 0.01	< 50	< 0.01	< 10	< 0.01	< 1	< 3

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Concentration greater than BCWQG Aquatic Life (AW) guideline.

BOLD

Concentration greater than BCWQG Drinking Water (DW) guideline.

SHADED

Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.

BOLD

Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

Concentration greater than 5xDL

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