Mount Polley Mining Corporation

an Imperial Metals company

Box 12 • Likely, BC V0L 1N0 • T 250.790.2215 • F 250.790.2613

October 24, 2014

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

WEEKLY TSF BREACH MONITORING REPORT – WEEK OF OCTOBER 15 – 21, 2014

Water Management

Polley Lake Dewatering	Polley Lake level elevation = 921.71 m Pumping rates from Polley Lake to Hazeltine Creek have decreased to maintenance rates because the lake level is within its natural range. Pumping rates may be decreased or stopped on occasion to accommodate downstream restoration works. Pumping has been temporarily stopped since 8:00 am on October 20, 2014.
Breaches	No breaches of the water management system containing water flow from the Tailings Storage Facility (TSF) occurred this week.
Water Management Structures	Work to establish a road out towards the Polley Lake plug continued. This road will provide access for completing the geotechnical investigation of the plug. Construction of the contingency overflow sump below the Breach Sump continued.

Sediment and Erosion Control Measures

Silt Curtain	The silt curtain attached to the log boom at the mouth of Hazeltine Creek continues to remove sediment from the water column. The curtain is in good condition.
Sediment Control Works	Implementation of the Lower Hazeltine Creek Sediment and Erosion Control Plan is underway. This includes construction of sediment control ponds, ongoing wood debris clean up, chipping of wood debris for future reclamation works, and construction of access roads for future restoration work. All work is being supervised by qualified environmental monitors.

Routine Water Quality Monitoring Program

The maps on pages 1 – 8 of Figure 5 (attached) show locations that have been sampled as part of the water quality monitoring program. The following table is a summary of the routine water quality monitoring program from October 15 – 21, 2014.

Deviations from the program due to poor weather and time constraints:

- POL-5 was sampled October 22, 2014, not on October 21, 2014 as scheduled.
- QUL-112 was sampled in lieu of QUL-112a, which is in a more exposed location.
- QUR-1 was not sampled on October 21, 2014.
- Due to unsafe boating conditions preventing regular lake sampling on October 19, 2014 four samples were collected from Quesnel Lake residential water quality monitoring sites. Samples were collected from the lake shore or private docks.

Monitoring Program	Frequency	Area	Sample Locations
Routine Water Quality Monitoring	Daily	Quesnel River	QUR-1
		Hazeltine Creek	HAC-01a
	Weekly	Quesnel Lake	QUL-2a, QUL-18, QUL-21a, QUL-22, QUL-40a, QUL-66, QUL-66a, QUL-112/QUL-112a, QUL-112/112a, 120/QUL-120a, QUL-zoo-8/QUL-zoo-8
		Hazeltine Creek	HAD-01, HAD-02 (field parameters), HAC-05
		Polley Lake	P1, P2, POL-5, POL-6
	2x/week	Quesnel Lake	QUL-20, QUL-79
	Time permitting	Quesnel Lake	QUL-2, QUL-21, QUL-31a, QUL-87, QUL-119

Event Based Water Quality Monitoring Program

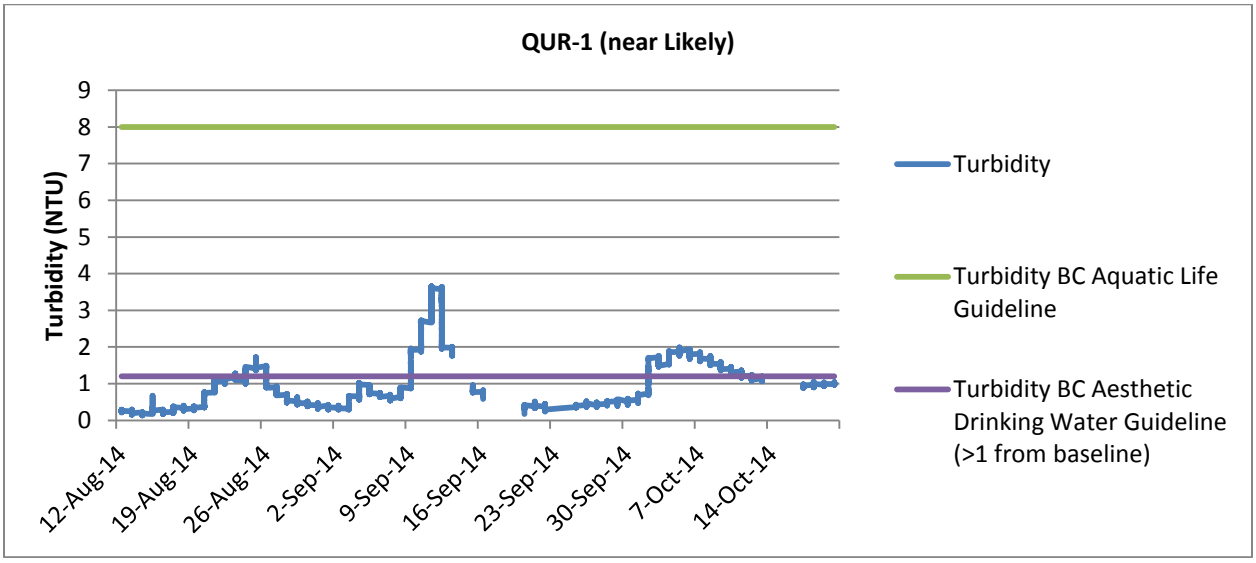
Additional event-based samples in response to significant physical changes in Quesnel Lake (turbidity, conductivity, colour, etc) due to weather and/or mixing events were not completed this week. No significant changes triggered additional sampling needs.

Water Chemistry Results

Water chemistry results received in the last two weeks from Quesnel Lake (Tables 1a, 1b, 1e and 1f), Polley Lake (Tables 3a and 3b), and Hazeltine Creek (Table 4a) are attached. Summary tables showing exceedances of drinking water and aquatic life guidelines have also been attached for Quesnel Lake, Polley Lake, and Hazeltine Creek in Tables 5, 6, and 7, respectively.

Turbidity data at key monitoring locations in Quesnel Lake collected during the week of October 15 – 21, 2014 are presented on plots shown on Drawing 621717-001 (attached). Turbidity data collected since late August have been presented for key locations in Quesnel Lake on plots shown on Drawing 617212-002 (attached).

Turbidity results from sample location QUR-1 accessed at the Quesnel River Research Centre are summarized as a time series in the figure below.



Water Toxicity Testing Results

The following table summarizes final results for water samples submitted for lethal and sublethal toxicity testing to date. New results are shown in blue.

Sample ID	Sample Date	Test Type	LC25 (% v/v)	LC50 (% v/v)	IC25 (% v/v)	IC50 (% v/v)
QUR-1	2014 08 06	96-h rainbow trout LC50	>100	>100	n/a	n/a
		48-h D. magna LC50	>100	>100	n/a	n/a
		7-d C. dubia survival and reproduction	>100	>100	>100	>100
POL-2	2014 08 09	96-h rainbow trout LC50	>100	>100	n/a	n/a
		48-h D. magna LC50	>100	>100	n/a	n/a
		7-d C. dubia survival and reproduction	>100	>100	>100	>100
HAD-1	2014 08 13	96-h rainbow trout LC50	>100	>100	n/a	n/a
		48-h D. magna LC50	>100	>100	n/a	n/a
		7-d C. dubia survival and reproduction	>100	>100	>100	>100
		7-d fathead minnow survival and growth	>100	>100	>100	>100
		72-h P. subcapitata growth inhibition	n/a	n/a	>95.2	>95.2
HAD-1	2014 08 20	96-h rainbow trout LC50	>100	>100	n/a	n/a
		48-h D. magna LC50	>100	>100	n/a	n/a
		7-d C. dubia survival and reproduction	>100	>100	>100	>100
		7-d fathead minnow survival and growth	>100	>100	>100	>100
		72-h P. subcapitata growth inhibition	n/a	n/a	>95.2	>95.2
		7-d L. minor growth inhibition	n/a	n/a	>97	>97
QUL66-40m	2014 08 21	96-h rainbow trout LC50	>100	>100	n/a	n/a
		48-h D. magna LC50	>100	>100	n/a	n/a
		7-d C. dubia survival and reproduction	>100	>100	3.9	9.8
		7-d fathead minnow survival and growth	>100	>100	>100	>100
		72-h P. subcapitata growth inhibition	n/a	n/a	>95.2	>95.2
		7-d L. minor growth inhibition	n/a	n/a	>97	>97
QUR-1	2014 08 22	96-h rainbow trout LC50	>100	>100	n/a	n/a
		48-h D. magna LC50	>100	>100	n/a	n/a
		7-d C. dubia survival and reproduction	>100	>100	>100	>100
		7-d fathead minnow survival and growth	80.4	>100	75.9	>100
		72-h P. subcapitata growth inhibition	n/a	n/a	>95.2	>95.2
		7-d L. minor growth inhibition	n/a	n/a	>97	>97
HAD-1	2014 08 27	7-d C. dubia survival and reproduction	>100	>100	>100	>100
		7-d fathead minnow survival and growth	42.4	>100	71.6	>100
QUL-66-40m	2014 08 28	96-h rainbow trout LC50	>100	>100	n/a	n/a
		48-h D. magna LC50	>100	>100	n/a	n/a
		7-d C. dubia survival and reproduction	>100	>100	3	5.3
		7-d fathead minnow survival and growth	>100	>100	>100	>100
		72-h P. subcapitata growth inhibition	n/a	n/a	>95.2	>95.2
		7-d L. minor growth inhibition	n/a	n/a	>97	>97
POL-6-14M	2014 09 16	48-h D. magna LC50	>100	>100	>100	>100
POL-6-12M	2014 09 30	96-h rainbow trout LC50	>100	>100	n/a	n/a

QA/QC

A flow chart has been provided as Appendix A which shows how data is being managed and processed to maintain quality control.

Summary of Modifications to the Monitoring Program

General

- Due to safety risks associated with deteriorating weather conditions as winter approaches, the monitoring program is being continually adapted to focus on key sample locations, while supplemental monitoring is carried out when weather conditions permit.
- Speciated chromium sampling was initiated at: QUL-2, QUL-2a, QUL-21, QUL-21a, and QUL-66 at 40 m; at QUL-18 and QUL-66a at 40 m and 80 m; and HAC-05. All speciated chromium samples are submitted to the laboratory, and analyses will only be requested if the associated total chromium results exceed the regulatory guideline.

Polley Lake

- Sampling at historic monitoring locations P1 and P2 will continue on a weekly basis.
- Sampling at locations POL-5, and POL-6 will be discontinued because results are comparable those from P1 and P2.

Hazeltine Creek

- No changes to the monitoring program this week.

Quesnel Lake

- New sampling deep locations QUL-112a and QUL-120a are being sampled once per week.
- The frequency of sampling at location QUL-112/QUL-112a and QUL-120/QUL-120a has been reduced from bi-weekly to weekly.
- Existing sites QUL-zoo-8a, QUL-112 and QUL-120 will only be sampled if lake conditions do not allow the more exposed QUL-zoo-8, QUL-112a and QUL-120a to be safely accessed.
- The frequency of sampling at locations QUL-2, QUL-21, QUL-31a, QUL-87, and QUL-119 has been reduced from weekly to when time constraints and weather conditions permit.
- Sampling of locations QUL-23 and QUL-40 has been discontinued.
- Additional sampling depths of 120 m and a depth near lake-bottom have been added to locations QUL-zoo-8/QUL-zoo-8a, QUL-112a, and QUL-120a.

Quesnel River

- No changes to the monitoring program this week.

ATTACHMENTS

Tables:

Tables 1a, 1b, 1e, 1f, 3a, 3b and 4a: Summary of Analytical Results for Quesnel Lake, Polley Lake, and Hazeltine Creek (since September 29, 2014)

Tables 5, 6, and 7: Summary of Exceedances for Quesnel Lake, Polley Lake, and Hazeltine Creek (since September 29, 2014)

Drawings:

612717-005-P1 through 612717-005-P8: Current Monitoring Locations (Figure 5)

621717-001: Turbidity Profiles – October 15 – 21, 2014

621717-002: Complete Turbidity Profiles – QUL-21, 66, 79, 112 & 120

Appendices:

Appendix A: QA/QC Data Management Flow Chart

N

POL-1
POL-4
POL-5
POL-3
P1
P2
QUL-22

Quesnel Lake
Polley Lake
Bootjack Lake
Morehead Creek
Mart Creek
Dow Creek
Cub Creek

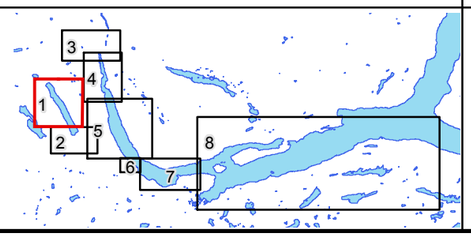
Mount Polley
Mine

DRAFT

LEGEND

Surface Water Sampling Locations

- Hazeltine Creek
- Polley Lake
- Quesnel Lake
- Other Areas



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.

* Note: Shoreline has been modified from the Fresh Water Atlas source data in the area of Hazeltine Creek Mouth to reflect post-release conditions.

REFERENCES

0 125 250 500 750 1,000 Meters

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

SNC·LAVALIN

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

Figure 5: Current Monitoring Locations
Page 1 of 8

BY: CJW	SCALE: 1:24,600	DATE: 2014/10/23	REF No: 621717-005-P1 REV: 6
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N

POL-6
Polley Lake
POL-2

Booljack Creek

LDA

Hazeltine Creek

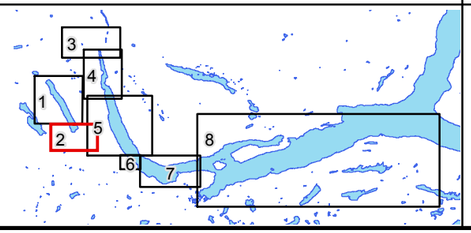
HAC03
HAC02
Breach-01
HAD-1
HAD-2
HAC04
Hazeltine Creek
HAC07
HAC05

TAILINGS
STORAGE
FACILITY AREA

LEGEND

Surface Water Sampling Locations

- Hazeltine Creek
- Polley Lake
- Quesnel Lake
- Other Areas
- New Hazeltine Creek Channel (Approximate)



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REFERENCES

0 70 140 280 420 560 Meters

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

SNC·LAVALIN

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

Figure 5: Current Monitoring Locations
Page 2 of 8

BY: CJW	SCALE: 1:13,800	DATE: 2014/10/23	REF No: REV: 6
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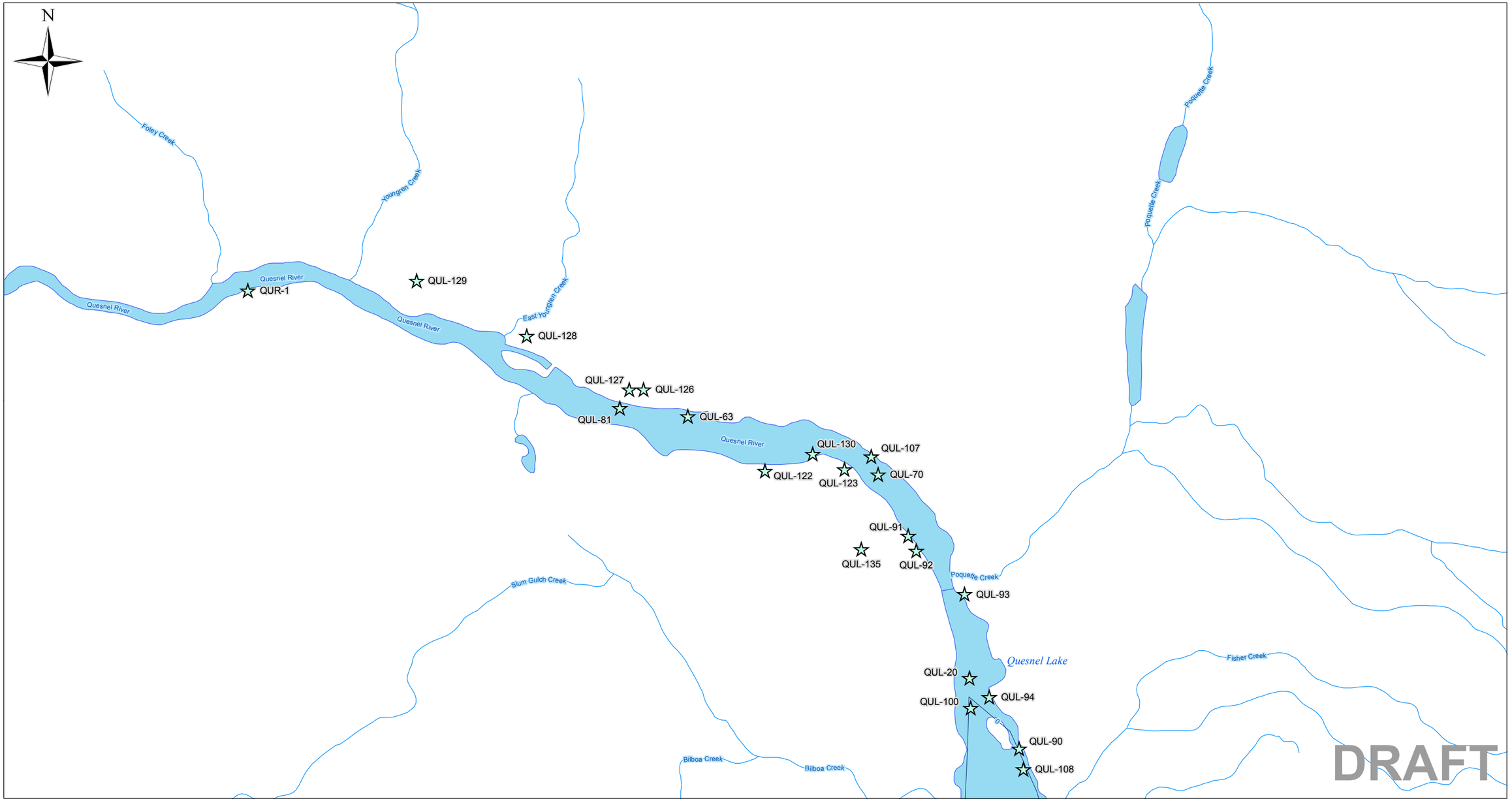
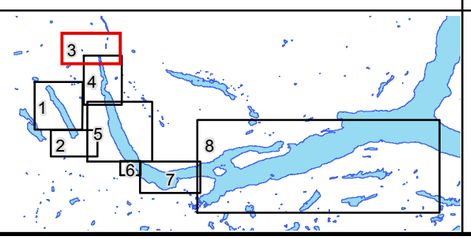


LEGEND

Surface Water Sampling Locations

- Hazeltine Creek
- Polley Lake
- Quesnel Lake
- Other Areas



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REFERENCES

0 80 160 320 480 640 Meters

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

SNC·LAVALIN

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

Figure 5: Current Monitoring Locations
Page 3 of 8

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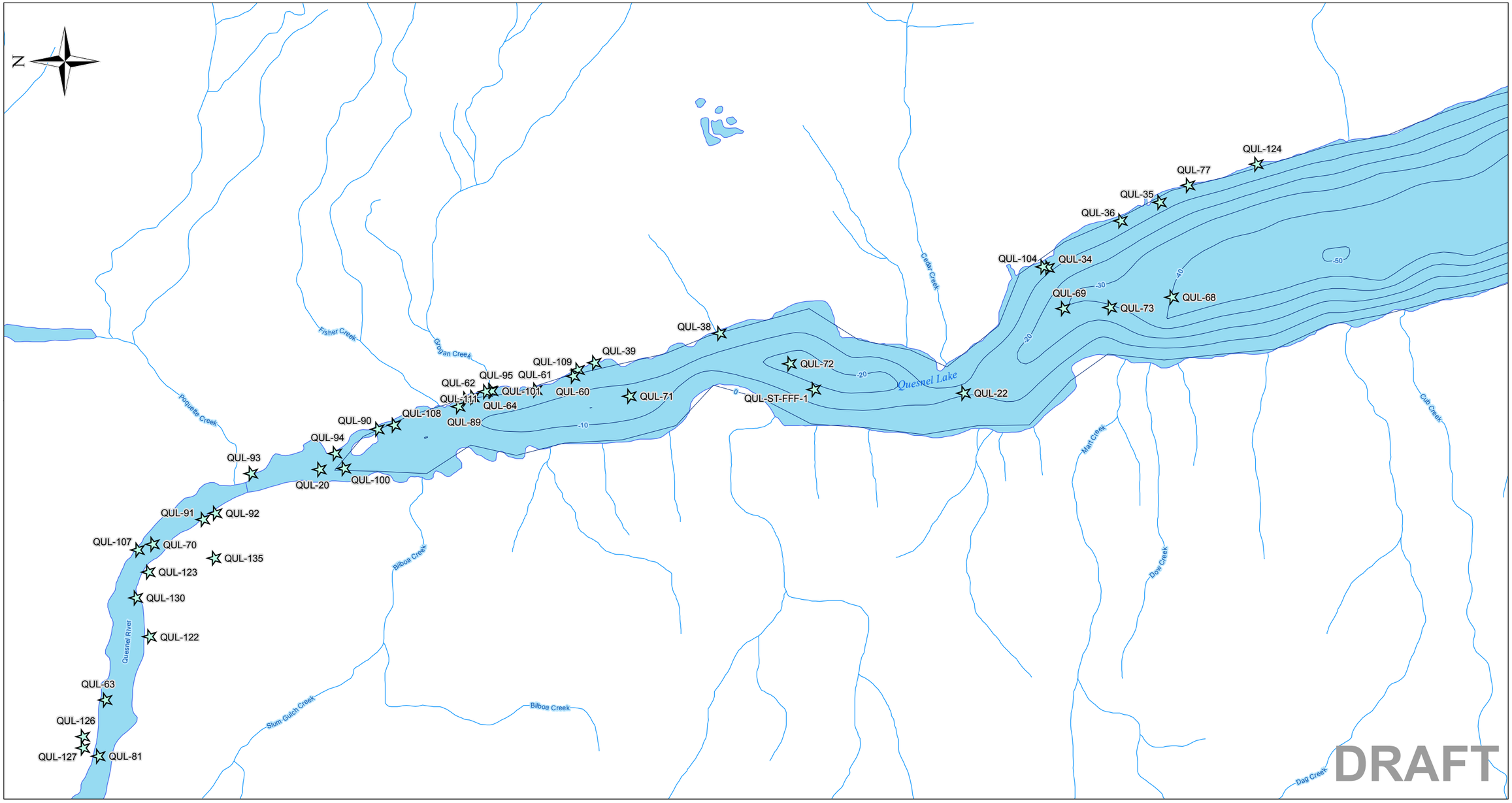
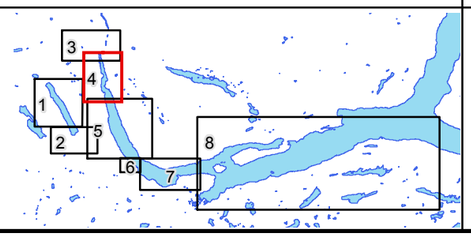


LEGEND

Surface Water Sampling Locations

- Hazeltine Creek
- Polley Lake
- Quesnel Lake
- Other Areas



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REFERENCES

0 100 200 400 600 800 Meters

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

SNC·LAVALIN

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

Figure 5: Current Monitoring Locations
Page 4 of 8

BY: CJW	SCALE: 1:19,800	DATE: 2014/10/23	REF No: 621717-005-P4 REV: 6
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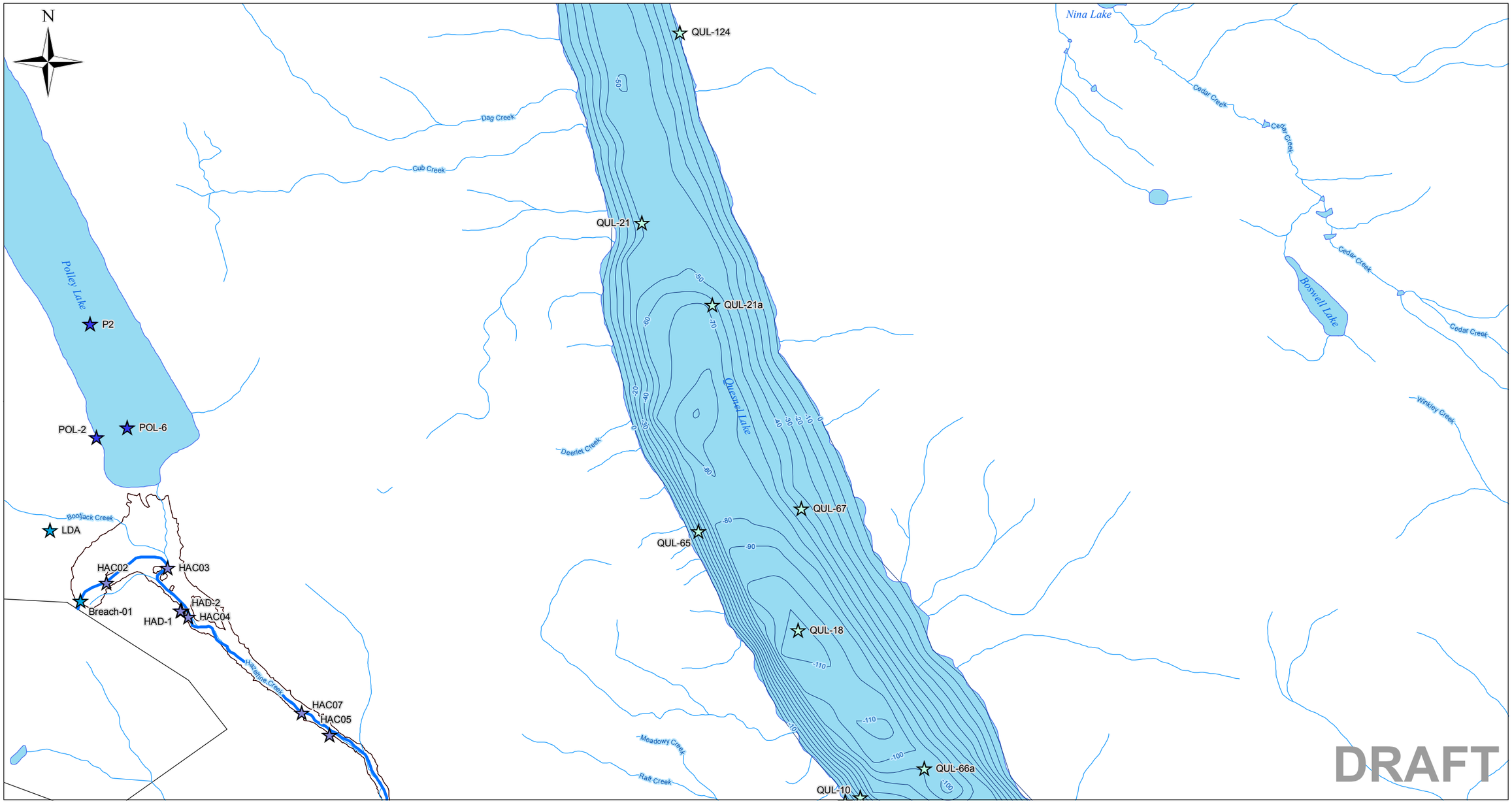
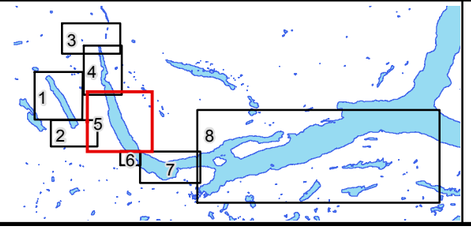


LEGEND

Surface Water Sampling Locations

- Hazeltine Creek
- Polley Lake
- Quesnel Lake
- Other Areas
- New Hazeltine Creek Channel (Approximate)



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REFERENCES

0 160 320 640 960 1,280 Meters

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

SNC·LAVALIN

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

Figure 5: Current Monitoring Locations
Page 5 of 8

BY: CJW	SCALE: 1:31,000	DATE: 2014/10/23	REF No:	REV: 6
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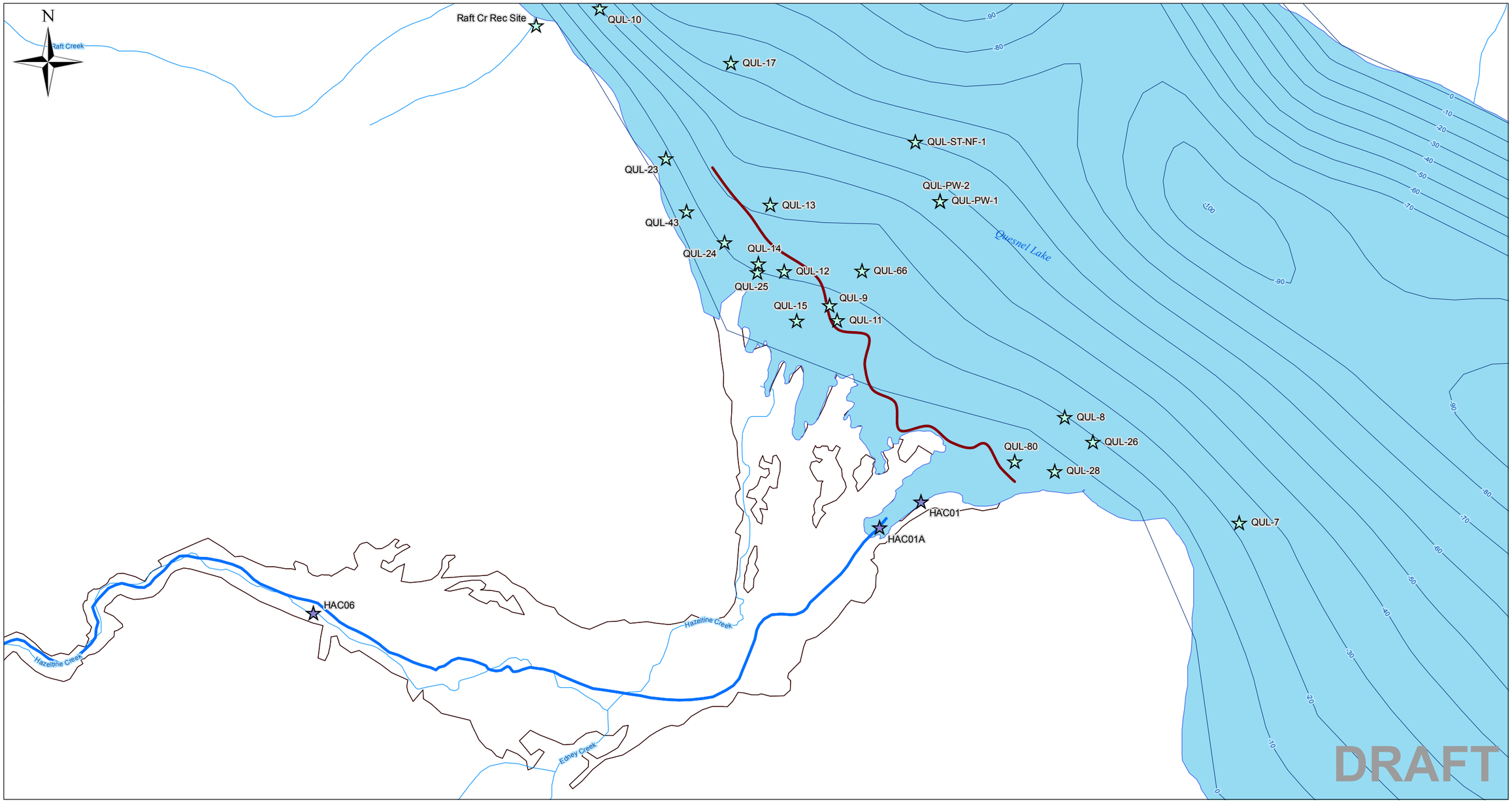


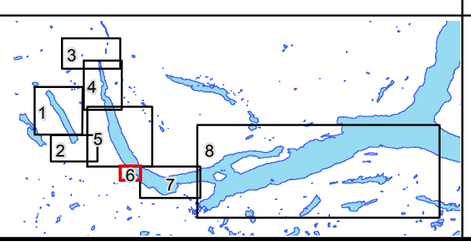
LEGEND

Surface Water Sampling Locations

- Hazeltine Creek
- Polley Lake
- Quesnel Lake
- Other Areas

Silt Curtain/Log Boom

New Hazeltine Creek Channel (Approximate)



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REFERENCES

0 37.5 75 150 225 300 Meters

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

SNC·LAVALIN

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

Figure 5: Current Monitoring Locations
Page 6 of 8

BY: CJW	SCALE: 1:7,400	DATE: 2014/10/23	REF No:	REV: 6
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Winkley Creek

Quesnel Lake

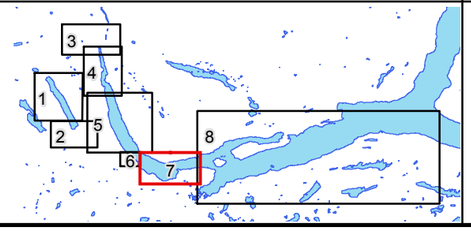
QUL-125
QUL-116
QUL-114
QUL-86
QUL-115
QUL-113
QUL-118
QUL-117
QUL-88
QUL-85
QUL-83
QUL-84
QUL-37
QUL-82
QUL-121
QUL-75
QUL-74
QUL-1
QUL-2a
QUL-5
QUL-96
QUL-2
QUL-4
QUL-102
QUL-3
QUL-103

DRAFT

LEGEND

Surface Water Sampling Locations

- Hazeltine Creek
- Polley Lake
- Quesnel Lake
- Other Areas



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REFERENCES

0 85 170 340 510 680 Meters

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

SNC·LAVALIN

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

Figure 5: Current Monitoring Locations
Page 7 of 8

BY: CJW	SCALE: 1:16,600	DATE: 2014/10/23	REF No:	REV: 6
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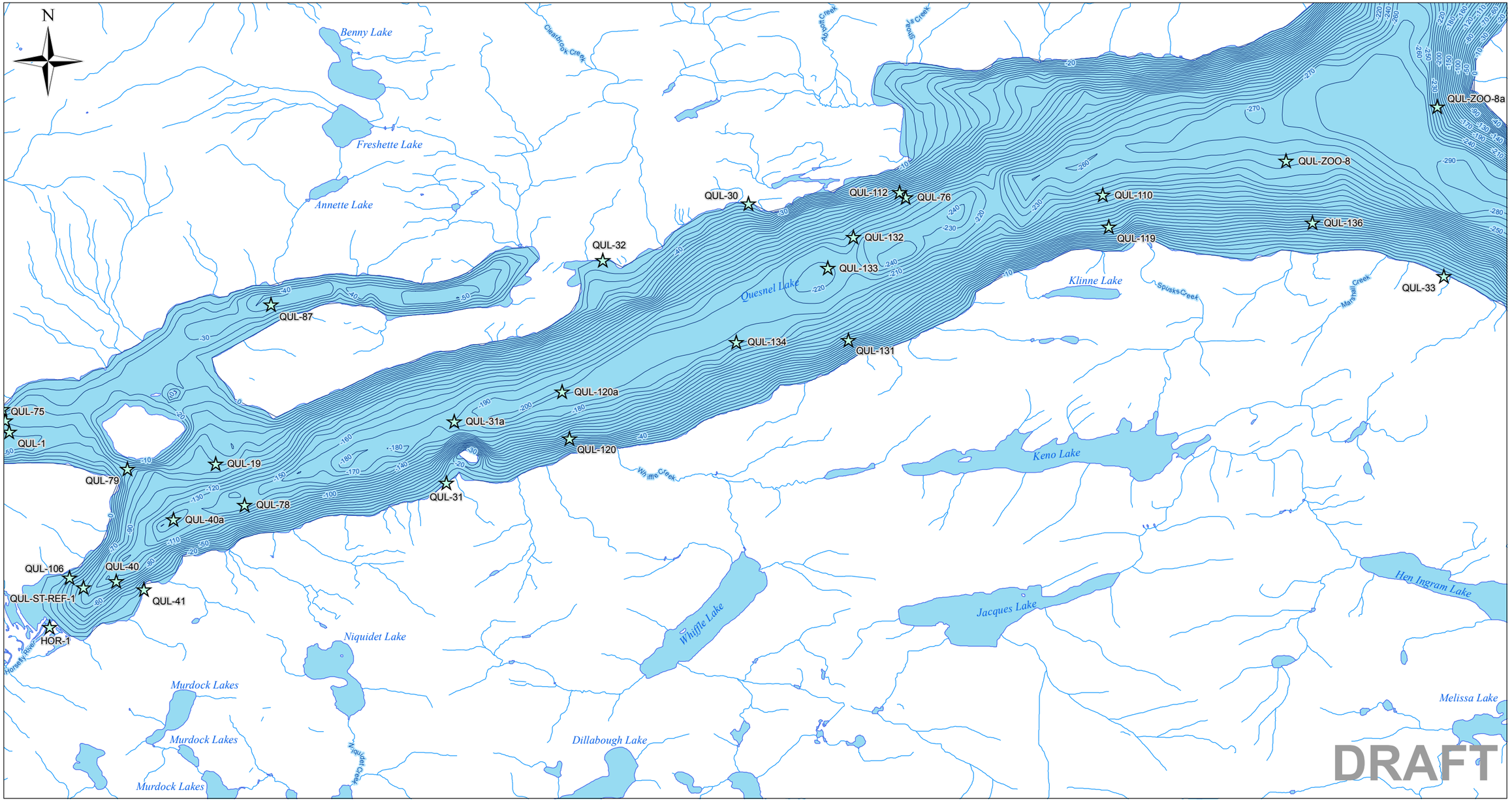

LEGEND

Surface Water Sampling Locations

- Hazeltine Creek
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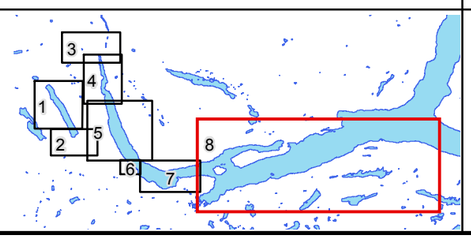
- Other Areas



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REFERENCES

0 340 680 1,360 2,040 2,720 Meters

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

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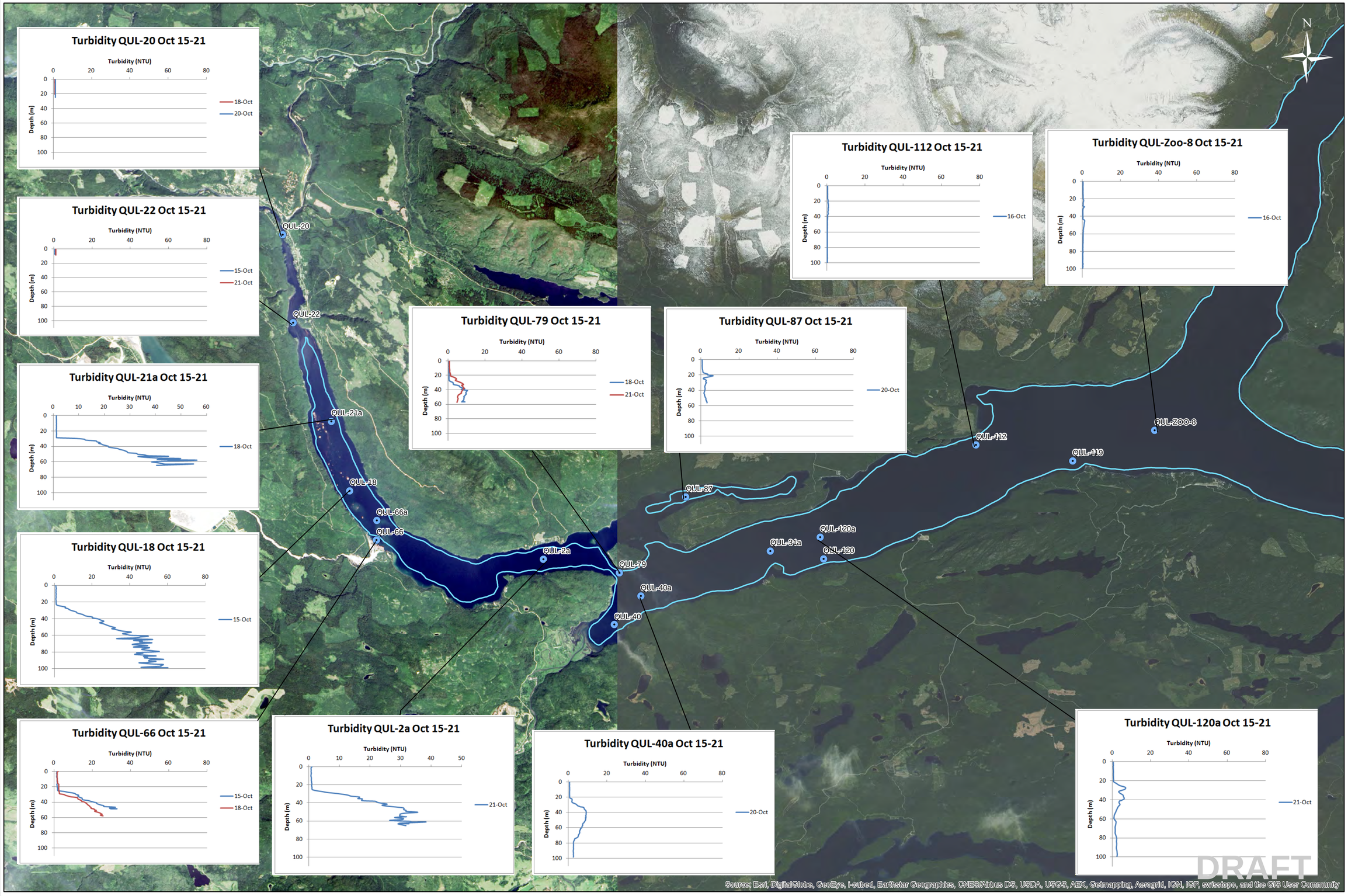
CLIENT NAME: MPMC	PROJECT LOCATION: Mount Polley Mine, British Columbia

Figure 5: Current Monitoring Locations
Page 8 of 8

BY: CJW	SCALE: 1:66,800	DATE: 2014/10/23	REF No: 621717-005-P8 REV: 6
CHK'D: JL	PROJ COORD SYS: NAD 1983 UTM Zone 10N		

Project Path: P:\Current Projects\Mount Polley\621717\

MXD Path: P:\LOB\EIAM-BC\Current Projects\Mount Polley Mining Corporation\621717_Mount Polley Mine\4.0 Execution\4.5 GIS and Drawings\GIS\621717-005_SampleLocPlanSeries.mxd



LEGEND

- Sampling Locations
- 30m Depth

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

0 950 1,900 3,800 5,700 7,600 Meters

1.Imagery from DigiGlobe World Imagery via ArcGIS Online

2. Bathymetry from MPMC

SNC·LAVALIN

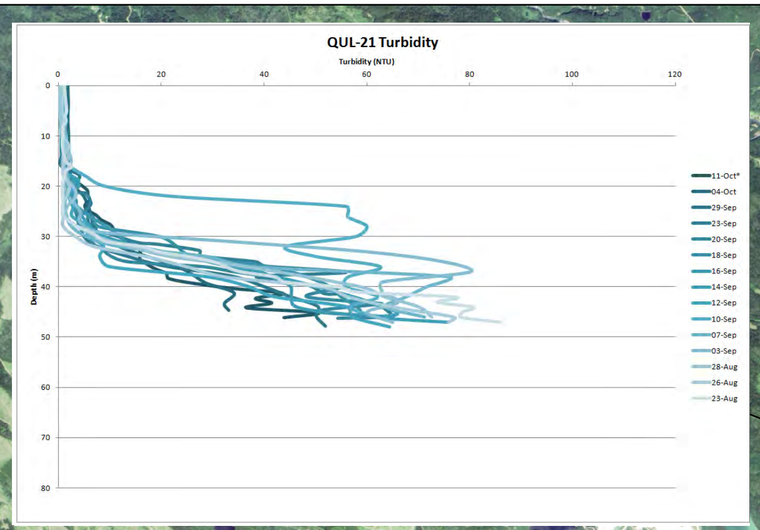
CLIENT NAME: MPMC	PROJECT LOCATION: Mount Polley Mine, British Columbia

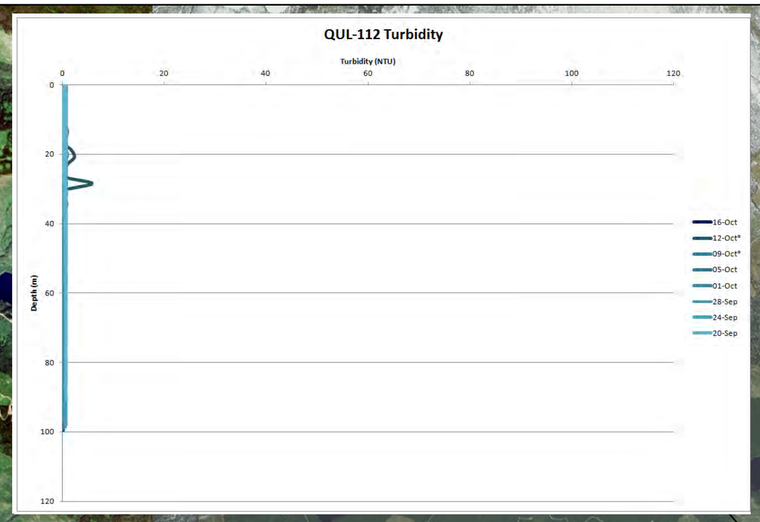
Turbidity Profiles - Oct 15-21, 2014

BY: LH	SCALE: 1:100,000	DATE: 2014/10/23	REF No: 621717-001 REV: 0
CHKD: CLKR	PROJ COORD SYS: NAD 1983 UTM Zone 10N		

MXD Path: P:\LOB\EIAM-BC\Current Projects\Mount Polley Mining Corporation\621717_Mount Polley Mine\4.0 Execution\4.5 GIS and Drawings\GIS\Water Quality - Profile Graph Maps\621717-WQ-TurbProfileGraphs_Oct15-21.mxd

Project Path:





LEGEND

- Sampling Locations
- 30m Depth

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.
4. Turbidity profiles marked with an asterisk (*) area based on Sonde turbidity values that have been calibrated against Lamotte turbidity readings.

REFERENCES

0 950 1,900 3,800 5,700 7,600 Meters

1.Imagery from DigiGlobe World Imagery via ArcGIS Online

2. Bathymetry from MPMC

SNC·LAVALIN

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

Complete Turbidity Profiles - QUL-21, 66, 79, 112 & 120

BY: LH	SCALE: 1:100,000	DATE: 2014/10/22	REF No: 621717-002 REV: 2
CHK'D: CLKR	PROJ COORD SYS: WGS 1984 UTM zone 10N		

Project Path:

MXD Path: P:\LLOB\EIAM-BC\Current Projects\Mount Polley Mining Corporation\621717_Mount Polley Mine\4.0 Execution\4.5 GIS and Drawings\GIS\Water Quality - Profile Graph Maps\621717-WQ-TurbProfileGraphs_141022_QUL21-66-79-112-120.mxd

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - 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 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		Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	5,680-18,400[d]	32,800	60-600[d]	32,800[f]	600	988.2-1742[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	+/-1 Degree change from ambient	Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	1,090-1,770[d]	3,000	20-200[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	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	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 09 29	50.9	7.83	7.84	14.6	0.41	100	70	< 3	1.72	-	0.098	5.3	55.6	< 1	-	< 0.5	37	6.07	51.2	-	< 0.001	< 0.002[a]
	QUR-1-0:00	2014 09 29	51	-	7.77	-	0.44	99.9	-	< 3	-	-	-	-	55.7	< 1	-	< 0.5	34	6.06	-	-	-	-
	QUR-1-16:00	2014 09 28	51.6	-	7.68	-	0.61	101	-	< 3	-	-	-	-	55.4	< 1	-	< 0.5	35	6.09	-	-	-	-
	QUR-1-8:00	2014 09 29	51.3	-	7.81	-	0.55	99.3	-	< 3	-	-	-	-	57	< 1	-	< 0.5	34	6.07	-	-	-	-
	QUR-1-16:00	2014 09 29	50.1	-	7.71	-	0.48	100	-	< 3	-	-	-	-	55	< 1	-	< 0.5	30	6.08	-	-	-	-
	QUR-1	2014 09 30	52.4	7.83	7.84	14.67	0.41	99.2	64	< 3	2	-	0.136	5.1	55.7	< 1	55.7	< 0.5	32	6.1	48.5	-	< 0.001	< 0.002[a]
	QUR-1-0:00	2014 09 30	50.6	-	7.66	-	0.37	107	-	< 3	-	-	-	-	56.3	< 1	-	< 0.5	31	6.08	-	-	-	-
	QUR-1-8:00	2014 09 30	51.5	-	7.81	-	0.55	102	-	< 3	-	-	-	-	53.9	< 1	-	< 0.5	31	6.1	-	-	-	-
	QUR-1-16:00	2014 09 30	50.3	-	7.79	-	0.41	102	-	-	-	-	-	-	55.1	< 1	-	< 0.5	35	6.04	-	-	-	-
	QUR-1	2014 10 01	51.8	7.82	7.85	14.2	0.49	102	68	< 3	1.88	-	0.105	< 5	56.3	< 1	-	< 0.5	32	6.06	47.2	-	< 0.001	< 0.002[a]
	QUR-1-0:00	2014 10 01	50.6	-	7.89	-	0.53	102	-	-	-	-	-	-	56.5	< 1	-	< 0.5	36	6.04	-	-	-	-
	QUR-1-8:00	2014 10 01	50.5	-	7.89	-	0.37	102	-	-	-	-	-	-	55.9	< 1	-	< 0.5	34	6.03	-	-	-	-
	QUR-1	2014 10 02	51.8	-	7.69	-	1.17	103	62	< 3	1.87	-	0.139	5.8	63.1	< 1	-	< 0.5	34	6.11	49.2	-	< 0.001	< 0.002[a]
	QUR-1	2014 10 03	52.7	-	7.9	-	1.28	104	71	< 3	1.97	-	0.137	< 5	72.9	< 1	-	< 0.5	35	6.25	50.1	-	< 0.001	< 0.002[a]
	QUR-1	2014 10 04	52	-	7.9	-	1.4	104	64	< 3	1.78	-	0.134	< 5	62.8	< 1	-	< 0.5	36	6.19	50.1	-	< 0.001	< 0.002[a]
	QUR-1	2014 10 05	52	-	7.91	-	1.51	103	67	< 3	1.88	-	0.132	< 5	72.3	< 1	-	< 0.5	36	6.24	50.6	-	< 0.001	< 0.002[a]
	QUR-1	2014 10 06	53.3	-	7.8	-	1.57	105	64	< 3	2.15	-	0.128	< 5	60.9	< 1	-	< 0.5	36	6.36	43.7	-	< 0.001	< 0.002[a]
	QUR-1	2014 10 07	51.9	-	7.8	-	1.46	104	66	< 3	1.91	-	0.132	< 5	60.7	< 1	-	< 0.5	36	6.31	49.6	-	< 0.001	< 0.002[a]
	QUR-1	2014 10 08	52.2	-	7.91	-	1.41	105	68	< 3	1.96	-	0.129	< 5	63.3	< 1	-	< 0.5	36	6.33	48.1	-	< 0.001	< 0.002[a]
	QUR-1	2014 10 09	52.5	7.74	7.97	12.6	0.83	106	70	< 3	1.84	-	0.112	< 5	65.4	< 1	-	< 0.5	36	6.24	50.6	-	< 0.001	< 0.002[a]
	QUR-1	2014 10 10	52.7	7.8	7.92	12.6	0.88	106	75	< 3	1.63	-	0.128	< 5	63	< 1	-	< 0.5	32	6.29	50	-	< 0.001	< 0.002[a]
	QUR-1	2014 10 11	52.7	-	7.15	-	0.92	104	78	< 3	1.89	-	0.117	< 5	62.1	< 1	-	< 0.5	35	6.31	50.8	-	< 0.001	**0.0021**
	QUR-1	2014 10 12	52.6	7.86	7.14	12.6	0.89	103	70	< 3	1.74	-	0.113	< 5	61.4	< 1	-	< 0.5	35	6.31	51.2	-	< 0.001	< 0.002[a]
	QUR-1X	2014 10 12	53.7	7.86	7.15	12.6	0.8	104	83	< 3	1.68	-	0.127	< 5	61.1	< 1	-	< 0.5	33	6.31	51.3	-	< 0.001	< 0.002[a]
	QA/QC RPD %		2	0	< 1	0	11	< 1	17	*	*	-	*	*	< 1	*	-	*	*	0	< 1	-	*	*
	QUR-1	2014 10 13	52.8	7.82	7.42	12.6	0.74	107	64	3	1.83	-	0.128	< 5	61.5	< 1	-	< 0.5	35	6.22	51.4	-	< 0.001	< 0.002[a]
	QUR-1X	2014 10 13	52.9	7.82	7.43	12.6	0.95	107	65	< 3	1.79	-	0.142	< 5	61.2	< 1	-	< 0.5	35	6.22	54.7	-	< 0.001	< 0.002[a]
	QA/QC RPD %		< 1	0	< 1	0	25	0	2	*	*	-	*	*	< 1	*	-	*	*	0	6	-	*	*
	QUR-1	2014 10 14	52	7.79	7.43	12.3	1.14	106	73	< 3	1.87	-	0.137	< 5	62.6	< 1	-	< 0.5	35	6.21	49.7	-	< 0.001	< 0.002[a]
	QUR-1	2014 10 16	52.9	7.84	7.94	12.2	0.7	103	66	< 3	1.9	-	0.134	< 5	63.3	< 1	-	< 0.5	34	6.26	54.1	-	< 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 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 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)	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]			30-100[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]			50-1000[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	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	n/a
QUR-1	QUR-1	2014 09 29	7.8	17.2	< 30	1.92	0.211	0.443	0.801	< 0.1	0.1	4.74	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.53	< 0.05	0.91	-	0.261	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.152	< 1	< 3
	QUR-1-0:00	2014 09 29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1-16:00	2014 09 28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1-8:00	2014 09 29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1-16:00	2014 09 29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1	2014 09 30	9.4	17	< 30	1.86	0.085	0.466	0.845	< 0.1	0.1	5.27	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.58	< 0.05	< 0.5	-	0.284	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.16	< 1	< 3
	QUR-1-0:00	2014 09 30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1-8:00	2014 09 30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1-16:00	2014 09 30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1	2014 10 01	8	17.6	< 30	1.92	0.274	0.44	0.814	< 0.1	0.13	4.95	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.53	< 0.05	0.84	-	0.254	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.148	< 1	< 3
	QUR-1-0:00	2014 10 01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1-8:00	2014 10 01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1	2014 10 02	7.7	17.6	< 30	1.89	0.384	0.473	0.909	< 0.1	0.13	5.04	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.87	< 0.05	0.57	-	0.315	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.158	< 1	< 3
	QUR-1	2014 10 03	7.3	17.8	< 30	1.99	0.655	0.485	0.908	< 0.1	0.12	5.63	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.04	< 0.05	0.66	-	0.329	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.145	< 1	< 3
	QUR-1	2014 10 04	7.7	17.6	< 30	1.96	0.367	0.469	0.909	< 0.1	0.12	5.63	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.93	< 0.05	0.76	-	0.302	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.147	< 1	< 3
	QUR-1	2014 10 05	8	17.6	< 30	1.96	0.41	0.481	0.883	< 0.1	0.11	5.57	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.29	< 0.05	0.75	-	0.316	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.155	< 1	< 3
	QUR-1	2014 10 06	7.7	18.1	< 30	1.99	0.29	0.455	0.854	< 0.1	0.11	5.41	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.86	< 0.05	0.83	-	0.304	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.145	< 1	< 3
	QUR-1	2014 10 07	8	17.6	< 30	1.93	0.251	0.431	0.85	< 0.1	0.1	5.36	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.93	< 0.05	0.52	-	0.308	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.134	< 1	< 3
	QUR-1	2014 10 08	7.1	17.7	< 30	1.94	0.249	0.456	0.893	< 0.1	0.11	5.36	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.89	< 0.05	0.67	-	0.334	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.141	< 1	< 3
	QUR-1	2014 10 09	7.3	17.8	< 30	1.95	0.269	0.463	0.901	< 0.1	0.13	5.55	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.96	< 0.05	0.76	-	0.328	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.147	< 1	< 3
	QUR-1	2014 10 10	7.9	17.9	< 30	1.96	0.315	0.464	0.883	< 0.1	0.12	5.58	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.94	< 0.05	< 0.5	-	0.343	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.153	< 1	< 3
	QUR-1	2014 10 11	7.3	17.9	< 30	1.93	0.208	0.455	0.901	< 0.1	0.12	5.42	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.86	< 0.05	0.63	-	0.325	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.141	< 1	< 3
	QUR-1	2014 10 12	8.1	17.9	< 30	1.95	0.207	0.451	0.892	< 0.1	0.11	5.39	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.81	< 0.05	0.59	-	0.32	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.147	< 1	< 3
	QUR-1X	2014 10 12	7.8	18.2	< 30	1.98	0.219	0.46	0.911	< 0.1	0.12	5.5	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.82	< 0.05	0.68	-	0.344	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.147	< 1	< 3
	QA/QC RPD %		*	2	*	2	*	2	2	*	*	2	*	*	*	*	*	*	*	*	-	7	*	*	*	*	*	0	*	*
	QUR-1	2014 10 13	7.9	17.9	< 30	1.97	0.15	0.451	0.872	< 0.1	0.11	5.26	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.84	< 0.05	0.62	-	0.343	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.16	< 1	< 3
	QUR-1X	2014 10 13	7.3	17.9	< 30	1.99	0.131	0.458	0.866	< 0.1	0.12	5.29	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.86	< 0.05	< 0.5	-	0.336	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.149	< 1	< 3
	QA/QC RPD %		*	0	*	1	*	2	< 1	*	*	< 1	*	*	*	*	*	*	*	*	-	2	*	*	*	*	*	7	*	*
	QUR-1	2014 10 14	9	17.6	< 30	1.94	0.231	0.447	0.84	< 0.1	0.11	5.03	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.21	< 0.05	0.91	-	0.358	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.152	< 1	< 3
	QUR-1	2014 10 16	10.8	18	< 30	1.92	0.331	0.472	0.909	< 0.1	0.14	5.36	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.88	< 0.05	0.89	-	0.343	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.143	< 1	< 3

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 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	0.016-0.079[d]	n/a	1 (Cr(+6))	110	6.0-27.9[d]	1,000	27.3-297.3[d]	870	n/a	1001-3582[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	33-172.5[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	2-11[d]	n/a	4.4-14.9[d]	14[i]	n/a	791.1-1819[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	7.5-147[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	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
QUR-1	QUR-1	2014 09 29	23.1	< 0.1	0.12	4.76	< 0.1	< 0.5	< 10	< 0.01	16,900	< 0.5	< 0.1	0.79	< 30	< 0.05	0.69	1,900	1.3	-	0.274	< 0.5	441	< 0.5	1,390	< 0.01	790	< 0.01	< 0.1	< 10	0.153	< 1	< 3
	QUR-1-0:00	2014 09 29	17	< 0.1	0.12	4.79	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	0.72	< 30	< 0.05	0.72	1,900	0.962	-	0.27	< 0.5	438	< 0.5	1,400	< 0.01	806	< 0.01	< 0.1	< 10	0.152	< 1	< 3
	QUR-1-16:00	2014 09 28	31.4	< 0.1	0.14	4.97	< 0.1	< 0.5	< 10	< 0.01	17,500	< 0.5	< 0.1	0.8	< 30	< 0.05	0.74	1,930	1.68	-	0.279	< 0.5	450	< 0.5	1,430	< 0.01	882	< 0.01	< 0.1	< 10	0.155	< 1	< 3
	QUR-1-8:00	2014 09 29	15.5	< 0.1	0.12	4.98	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	0.73	< 30	< 0.05	0.73	1,910	1.03	-	0.297	< 0.5	444	< 0.5	1,410	< 0.01	800	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUR-1-16:00	2014 09 29	17.8	< 0.1	0.12	5.07	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	0.71	< 30	< 0.05	0.73	1,980	1.07	-	0.274	< 0.5	464	< 0.5	1,460	< 0.01	858	< 0.01	< 0.1	< 10	0.159	< 1	< 3
	QUR-1	2014 09 30	22	< 0.1	0.12	5.08	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	0.8	< 30	< 0.05	0.65	1,970	1.33	-	0.271	< 0.5	458	< 0.5	1,460	< 0.01	852	< 0.01	< 0.1	< 10	0.156	< 1	< 3
	QUR-1-0:00	2014 09 30	16.6	< 0.1	0.11	4.93	< 0.1	< 0.5	< 10	< 0.01	17,100	< 0.5	< 0.1	0.69	< 30	< 0.05	0.56	1,900	0.96	-	0.265	< 0.5	449	< 0.5	1,420	< 0.01	838	< 0.01	< 0.1	< 10	0.147	< 1	< 3
	QUR-1-8:00	2014 09 30	20.1	< 0.1	0.12	5.12	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	0.73	< 30	< 0.05	0.65	1,940	1.11	-	0.272	< 0.5	456	< 0.5	1,450	< 0.01	843	< 0.01	< 0.1	< 10	0.155	< 1	< 3
	QUR-1-16:00	2014 09 30	29.8	< 0.1	0.17	5.06	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	1	< 30	< 0.05	0.83	1,890	1.7	-	0.285	< 0.5	462	< 0.5	1,470	< 0.01	830	< 0.01	< 0.1	< 10	0.153	< 1	< 3
	QUR-1	2014 10 01	28.2	< 0.1	0.15	5.12	< 0.1	< 0.5	< 10	< 0.01	18,200	< 0.5	< 0.1	0.91	32	< 0.05	0.78	2,020	1.51	-	0.29	< 0.5	450	< 0.5	1,540	< 0.01	826	< 0.01	< 0.1	< 10	0.155	< 1	< 3
	QUR-1-0:00	2014 10 01	33.4	< 0.1	0.15	5.31	< 0.1	< 0.5	< 10	< 0.01	17,100	< 0.5	< 0.1	0.93	32	< 0.05	0.88	1,900	1.91	-	0.271	< 0.5	453	< 0.5	1,480	< 0.01	837	< 0.01	< 0.1	< 10	0.152	< 1	< 3
	QUR-1-8:00	2014 10 01	32.4	< 0.1	0.14	5.17	< 0.1	< 0.5	< 10	< 0.01	17,100	< 0.5	< 0.1	0.92	33	< 0.05	0.93	1,890	1.95	-	0.263	< 0.5	457	< 0.5	1,480	< 0.01	836	< 0.01	< 0.1	< 10	0.148	< 1	< 3
	QUR-1	2014 10 02	51.8	< 0.1	0.15	5.53	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	1.4	50	< 0.05	< 0.5	1,910	2.55	-	0.339	< 0.5	471	< 0.5	1,540	< 0.01	893	< 0.01	< 0.1	< 10	0.172	< 1	< 3
	QUR-1	2014 10 03	61.6	< 0.1	0.17	6.42	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	2.07	61	< 0.05	0.61	2,010	3.59	-	0.37	< 0.5	503	< 0.5	1,580	< 0.01	902	< 0.01	< 0.1	< 10	0.159	< 1	< 3
	QUR-1	2014 10 04	63.2	< 0.1	0.15	6.35	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	1.68	58	< 0.05	0.96	1,980	2.97	-	0.354	< 0.5	482	< 0.5	1,530	< 0.01	959	< 0.01	< 0.1	< 10	0.155	< 1	< 3
	QUR-1	2014 10 05	77.1	< 0.1	0.16	6.27	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	1.75	86	< 0.05	0.63	2,010	3.59	-	0.316	< 0.5	482	< 0.5	1,580	< 0.01	865	< 0.01	< 0.1	< 10	0.152	< 1	< 3
	QUR-1	2014 10 06	63.8	< 0.1	0.13	6.28	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	1.62	69	< 0.05	0.81	1,920	3.16	-	0.323	< 0.5	459	< 0.5	1,510	< 0.01	860	< 0.01	< 0.1	< 10	0.156	< 1	< 3
	QUR-1	2014 10 07	58.8	< 0.1	0.15	5.9	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	1.76	67	< 0.05	< 0.5	1,980	3.03	-	0.352	< 0.5	467	< 0.5	1,510	< 0.01	894	< 0.01	< 0.1	< 10	0.149	< 1	< 3
	QUR-1	2014 10 08	60.1	< 0.1	0.13	6.06	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	1.74	61	< 0.05	0.73	1,980	2.99	-	0.374	< 0.5	460	< 0.5	1,510	< 0.01	897	< 0.01	< 0.1	< 10	0.157	< 1	< 3
	QUR-1	2014 10 09	60	< 0.1	0.18	6.52	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	1.65	74	< 0.05	0.77	1,950	2.7	-	0.372	< 0.5	470	< 0.5	1,550	< 0.01	913	< 0.01	< 0.1	< 10	0.162	< 1	< 3
	QUR-1	2014 10 10	69.1	< 0.1	0.18	7.37	< 0.1	< 0.5	< 10	< 0.01	17,600	< 0.5	< 0.1	2.03	54	< 0.05	< 0.5	1,970	2.9	-	0.37	< 0.5	570	< 0.5	1,530	< 0.01	1,020	< 0.01	< 0.1	< 10	0.157	< 1	< 3
	QUR-1	2014 10 11	44.3	< 0.1	0.17	6.21	< 0.1	< 0.5	< 10	< 0.01	18,000	< 0.5	< 0.1	1.52	40	< 0.05	0.64	1,990	2.36	-	0.354	< 0.5	495	< 0.5	1,510	< 0.01	961	< 0.01	< 0.1	< 10	0.157	< 1	< 3
	QUR-1	2014 10 12	45.1	< 0.1	0.15	6.02	< 0.1	< 0.5	< 10	< 0.01	18,100	< 0.5	< 0.1	1.35	37	< 0.05	0.61	1,990	2.16	-	0.377	< 0.5	474	< 0.5	1,530	< 0.01	923	< 0.01	< 0.1	< 10	0.154	< 1	< 3
	QUR-1X	2014 10 12	47.8	< 0.1	0.16	5.99	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	< 0.1	1.38	41	< 0.05	0.63	1,980	2.46	-	0.372	< 0.5	470	< 0.5	1,520	< 0.01	909	< 0.01	< 0.1	< 10	0.162	< 1	< 3
	QA/QC RPD %		6	*	*	< 1	*	*	*	*	1	*	*	*	*	*	*	< 1	*	-	1	*	< 1	*	< 1	*	2	*	*	*	5	*	*
	QUR-1	2014 10 13	41.7	< 0.1	0.15	5.71	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	< 0.1	1.38	39	< 0.05	0.79	2,010	2.04	-	0.342	< 0.5	474	< 0.5	1,510	< 0.01	901	< 0.01	< 0.1	< 10	0.171	< 1	< 3
	QUR-1X	2014 10 13	38.1	< 0.1	0.15	5.65	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	1.7	38	< 0.05	0.54	2,000	1.86	-	0.352	< 0.5	460	< 0.5	1,510	< 0.01	879	< 0.01	< 0.1	< 10	0.159	< 1	< 3
	QA/QC RPD %		9	*	*	1	*	*	*	*	< 1	*	*	*	*	*	*	< 1	*	-	3	*	3	*	0	*	3	*	*	*	7	*	*
	QUR-1	2014 10 14	46.4	< 0.1	0.16	5.86	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	< 0.1	1.51	42	< 0.05	0.94	2,010	2.18	-	0.371	< 0.5	489	< 0.5	1,520	< 0.01	904	< 0.01	< 0.1	< 10	0.16	< 1	< 3
	QUR-1	2014 10 16	34	< 0.1	0.15	5.71	< 0.1	< 0.5	< 10	< 0.01	18,100	< 0.5	< 0.1	1.29	< 30	0.058	0.84	1,940	1.87	-	0.393	< 0.5	471	< 0.5	1,490	< 0.01	888	< 0.01	< 0.1	< 10	0.167	< 1	< 3

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 DRAFT

			Physical Parameters									Total Inorganics												
Sample Location	Sample ID	Sample Date (yyyy mm dd)	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 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		Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	5,680-18,400[d]	32,800	60-600[d]	32,800[f]	600	988.2-1742[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	+/-1 Degree change from ambient	Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	1,090-1,770[d]	3,000	20-200[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	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	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-2-0M	2014 09 30	51.8	8.33	7.04	14.6	0.83	104	66	< 3	1.93	-	0.146	< 5	56.3	< 1	-	< 0.5	35	6.1	49.8	-	< 0.001	< 0.002[a]
	QUL-2-40M	2014 09 30	65.7	7.99	7.13	6.2	48.6	146	100	21.3	1.89	-	0.296	39.7	190	6.6	-	0.52	71	15.6	61.7	-	< 0.001	**0.0032**
	QUL-2-0M	2014 10 07	50.7	8.02	7.89	-	0.73	103	68	< 3	2.05	-	0.164	< 5	61	< 1	-	< 0.5	35	6.18	50.3	-	< 0.001	< 0.002[a]
	QUL-2-40M	2014 10 07	62	7.74	7.91	-	38.6	138	97	4.8	1.9	-	0.275	33.8	178	3.4	-	< 0.5	66	13.7	59.1	-	< 0.001	**0.0026**
	QUL-2-0M	2014 10 14	50.5	-	7.45	-	0.86	104	69	< 3	2.04	-	0.133	< 5	64.6	< 1	-	< 0.5	35	6.08	49.5	-	< 0.001	< 0.002[a]
	QUL-2-40M	2014 10 14	63.1	-	7.48	-	32.2	141	98	5.8	2.12	-	0.298	27	190	5.8	-	0.61	60	14.2	58.3	-	< 0.001	< 0.002[a]
QUL-2a	QUL-2A-0M	2014 09 30	51.9	8.32	7.07	14.6	0.92	104	69	< 3	1.87	-	0.143	< 5	58.8	3.4	-	< 0.5	42	6.18	49.7	-	< 0.001	**0.0021**
	QUL-2A-40M	2014 09 30	56.1	7.86	7.07	5.2	11.6	118	78	5.6	1.89	-	0.242	9.6	157	2.9	-	< 0.5	47	8.58	54.2	-	< 0.001	**0.0022**
	QUL-2A-0M	2014 10 07	50.6	6.92	7.88	-	0.6	103	67	< 3	1.9	-	0.183	< 5	61.9	< 1	-	< 0.5	35	6.18	50.1	-	< 0.001	< 0.002[a]
	QUL-2A-40M	2014 10 07	58.9	7.64	7.89	-	25.1	129	86	4	1.8	-	0.23	23.1	167	1.5	-	< 0.5	61	11.3	57	-	< 0.001	**0.0021**
	QUL-2A-60M	2014 10 07	65.2	7.76	7.92	-	48.3	146	103	6.4	1.92	-	0.286	39.8	188	4.4	-	< 0.5	72	15.5	61	-	< 0.001	**0.0032**
	QUL-2A-0M	2014 10 14	50.6	-	7.44	-	0.82	103	65	< 3	1.84	-	0.154	< 5	64.5	< 1	-	< 0.5	35	6.11	49.1	-	< 0.001	< 0.002[a]
	QUL-2A-40M	2014 10 14	55.4	-	7.43	-	10	118	79	< 3	1.92	-	0.27	8.5	155	< 1	-	< 0.5	45	8.61	54.6	-	< 0.001	< 0.002[a]
	QUL-2X-40M	2014 10 14	63	-	7.49	-	33.7	141	100	< 3	1.94	-	0.289	25.9	190	5.6	-	0.54	60	14.2	57.8	-	< 0.001	**0.0021**
	QA/QC RPD %		13	-	< 1	-	109	18	24	*	*	-	7	*	20	*	-	*	*	49	6	-	*	*
	QUL-2A-60M	2014 10 14	64.5	-	7.51	-	36.6	143	99	5.6	1.97	-	0.29	27.4	193	6.2	-	0.62	63	14.7	56.9	-	< 0.001	**0.0024**
QUL-18	QUL-18-0M	2014 10 01	48.5	7.92	7.67	14.3	0.63	100	68	5.4	1.91	-	0.122	< 5	55	< 1	-	< 0.5	35	6	48.6	-	< 0.001	< 0.002[a]
	QUL-18-40M	2014 10 01	66.2	7.72	7.72	6.4	50.1	145	100	5.1	2.21	-	0.308	43.5	187	2	-	0.73	79	16	60.2	-	< 0.001	**0.0027**
	QUL-18-80M	2014 10 01	69.4	7.78	7.61	6.5	64.1	151	111	6.6	2	-	0.356	57.7	213	4	-	0.63	84	18	61.4	-	0.0026	**0.004**
	QUL-18-0M	2014 10 08	52.4	8.17	7.84	13.6	1.2	104	69	< 3	1.68	-	0.134	< 5	59.4	< 1	-	< 0.5	41	6.19	48.1	-	< 0.001	< 0.002[a]
	QUL-18-40M	2014 10 08	57.5	7.8	7.83	5.7	13.9	120	80	4.2	1.92	-	0.213	11.6	160	< 1	-	< 0.5	47	9	52.3	-	< 0.001	< 0.002[a]
	QUL-18-80M	2014 10 08	67.9	8.01	7.89	6.5	55.3	151	108	10.2	2.13	-	0.304	41.6	198	5.8	-	0.54	75	16.7	59.2	-	0.0014	**0.0023**
QUL-20	QUL-20	2014 09 29	50.9	8.06	7.74	14.65	0.57	100	61	< 3	1.6	-	0.124	< 5	53.2	< 1	-	< 0.5	32	6.08	50.6	-	< 0.001	< 0.002[a]
	QUL-20	2014 10 03	51.9	7.84	7.89	12.3	1.45	103	65	< 3	1.78	-	0.135	< 5	61.4	< 1	-	< 0.5	35	6.26	49.9	-	< 0.001	< 0.002[a]
	QUL-20-0M	2014 10 07	50.7	7.99	7.73	-	1.58	104	68	< 3	2.11	-	0.132	< 5	61.3	< 1	-	< 0.5	36	6.3	49	-	< 0.001	< 0.002[a]
	QUL-20	2014 10 11	52.5	8.22	7.16	12.6	1.05	105	69	< 3	1.92	-	0.147	< 5	60.5	< 1	-	< 0.5	36	6.27	50.2	-	< 0.001	< 0.002[a]
	QUL-20X	2014 10 11	51.9	8.22	7.16	12.6	1.02	104	73	< 3	2.1	-	0.124	< 5	60.3	< 1	-	< 0.5	35	6.26	52.1	-	< 0.001	**0.0023**
	QA/QC RPD %		1	0	0	0	3	< 1	6	*	*	-	*	*	< 1	*	-	*	*	< 1	4	-	*	*
	QUL-20	2014 10 14	51.8	-	7.3	-	0.77	104	71	< 3	1.94	-	0.139	< 5	59.1	< 1	-	< 0.5	35	6.05	48	-	< 0.001	< 0.002[a]
QUL-21	QUL-21-0M	2014 09 29	51.5	8.16	7.74	14.67	0.43	101	63	< 3	1.5	-	0.128	< 5	53.9	< 1	-	< 0.5	32	6.09	50.8	-	< 0.001	< 0.002[a]
	QUL-21-40M	2014 09 29	63.7	7.65	7.76	6.2	38.3	133	94	5	1.71	-	0.285	35.6	179	1.5	-	< 0.5	62	14.4	59.7	-	< 0.001	**0.0021**
	QUL-21X-40M	2014 09 29	62.6	7.65	7.76	6.2	35.7	134	94	6.6	1.6	-	0.284	35.6	179	1.5	-	< 0.5	61	14.3	59.7	-	< 0.001	**0.0021**
	QA/QC RPD %		2	0	0	0	7	< 1	0	*	*	-	< 1	0	0	*	-	*	*	< 1	0	-	*	*
	QUL-21-45M	2014 09 29	64.4	7.77	7.77	6.38	41.1	141	96	3.6	1.68	-	0.315	39.2	184	2.2	-	< 0.5	65	15.3	61.5	-	< 0.001	**0.0021**
	QUL-21-0M	2014 10 04	51.7	8.28	7.87	13	1.83	102	70	< 3	2.05	-	0.13	< 5	60.9	< 1	-	< 0.5	35	6.24	49.7	-	< 0.001	< 0.002[a]
	QUL-21-40M	2014 10 04	60.5	7.91	7.87	6	33.4	130	88	6.3	2.09	-	0.262	26.4	177	1.5	-	< 0.5	65	12.4	57.5	-	< 0.001	< 0.002[a]
	QUL-21-0M	2014 10 11	51.7	7.33	7.17	12.7	0.87	104	73	< 3	1.79	-	0.121	< 5	62.1	< 1	-	< 0.5	35	6.24	50.5	-	< 0.001	< 0.002[a]
	QUL-21-40M	2014 10 11	65.7	7.61	7.22	6.2	42.3	145	106	6.2	2	-	0.288	34.1	195	6.9	-	< 0.5	66	15.3	61.2	-	0.0011	**0.0031**
QUL-21a	QUL-21A-0M	2014 10 04	51.7	8.21	7.87	13	1.86	102	66	< 3	1.87	-	0.141	< 5	61.1	< 1	-	< 0.5	36	6.25	50	-	< 0.001	< 0.002[a]
	QUL-21A-40M	2014 10 04	57.2	7.95	7.88	5.7	20.1	121	83	< 3	2.02	-	0.224	15.1	162	< 1	-	< 0.5	47	9.9	55.2	-	< 0.001	< 0.002[a]
	QUL-21A-55M	2014 10 04	64.5	8.03	7.93	6.3	46.9	143	101	3.8	1.95	-	0.287	37.5	184	1.6	-	0.66	73	14.6	58.9	-	< 0.001	**0.0021**
	QUL-21AX-55M	2014 10 04	64.9	8.03	7.92	6.3	46.1	140	90	3.9	2.11	-	0.283	37.1	184	1.7	-	0.69	73	14.6	59.6	-	< 0.001	< 0.002[a]
	QA/QC RPD %		< 1	0	< 1	0	2	2	12	*	*	-	1	1	0	*	-	*	*	0	1	-	*	*
	QUL-21A-0M	2014 10 11	51.8	8.02	7.16	12.9	0.74	103	72	< 3	1.9	-	0.125	< 5	64.8	< 1	-	< 0.5	35	6.25	50	-	< 0.001	**0.0022**
	QUL-21A-40M	2014 10 11	60.3	7.72	7.17	5.8	23.6	128	98	3.6	1.88	-	0.702	18.7	172	1.6	-	< 0.5	52	11.2	56.4	-	< 0.001	**0.0022**
	QUL-21A-55	2014 10 11	65.7	7.85	7.2	6.2	37.9	142	97	10.3	1.96	-	0.304	33.1	193	6.3	-	< 0.5	69	15.3	60.3	-	0.0011	< 0.002[a]
QUL-22	QUL-22	2014 10 04	52.7	8.21	7.92	13.3	1.77	104	71	< 3	1.95	-	0.124	< 5	59.9	< 1	-	< 0.5	36	6.26	49.7	-	< 0.001	< 0.002[a]
	QUL-22	2014 10 08	51.6	***6.47***	7.86	13.9	1.01	105	70	< 3	1.91	-	0.112	< 5	57.4	< 1	-	< 0.5	35	6.18	47.8	-	< 0.001	< 0.002[a]
	QUL-22X	2014 10 08	52.2	***6.47***	7.85	13.9	0.88	104	70	< 3	1.98	-	0.115	< 5	57.4	< 1	-	< 0.5	37	6.19	47.9	-	< 0.001	< 0.002[a]
	QA/QC RPD %		1	0	< 1	0	14	< 1	0	*	*	-	*	*	0	*	-	*	*	< 1	< 1	-	*	*
	QUL-22	2014 10 11	51.9	8.21	7.18	12.9	0.92	105	73	< 3	1.86	-	0.129	< 5	59.4	< 1	-	< 0.5	38	6.24	49.9	-	< 0.001	**0.0029**

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 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)	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]			30-100[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	n/a
BCWQG Aquatic Life (30day) (AW)[b,c,h]			50-1000[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	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	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	n/a
QUL-2	QUL-2-0M	2014 09 30	8.2	17.6	< 30	1.92	0.167	0.448	0.825	< 0.1	< 0.1	4.96	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.73	< 0.05	1.02	-	0.298	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.159	< 1	< 3
	QUL-2-40M	2014 09 30	13.6	22.3	< 30	2.43	37.5	1.01	3.32	0.25	0.65	14.2	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.86	< 0.05	1.19	-	5.45	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.577	< 1	< 3
	QUL-2-0M	2014 10 07	8.1	17.3	< 30	1.85	0.27	0.461	0.837	< 0.1	< 0.1	4.87	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.54	< 0.05	0.51	-	0.259	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.145	< 1	< 3
	QUL-2-40M	2014 10 07	15	21.1	< 30	2.25	31.9	0.929	2.83	0.2	0.52	12.6	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.08	< 0.05	0.96	-	4.27	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.468	< 1	< 3
	QUL-2-0M	2014 10 14	10.4	17.1	< 30	1.89	0.378	0.545	0.931	< 0.1	0.1	5.21	< 0.1	< 10	0.015	< 0.5	< 0.1	1.22	0.057	0.93	-	0.438	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.153	< 1	< 3
	QUL-2-40M	2014 10 14	14.2	21.4	< 30	2.35	26.8	0.971	3.09	0.23	0.57	13.2	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.21	< 0.05	1.22	-	4.94	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.528	< 1	< 3
QUL-2a	QUL-2A-0M	2014 09 30	8.1	17.6	< 30	1.92	0.176	0.437	0.808	< 0.1	< 0.1	5.01	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.66	< 0.05	1	-	0.275	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.156	< 1	< 3
	QUL-2A-40M	2014 09 30	6.9	19	< 30	2.11	7.28	0.583	1.43	< 0.1	0.22	7.28	< 0.1	< 10	< 0.01	< 0.5	< 0.1	2.45	< 0.05	1	-	1.38	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.256	< 1	< 3
	QUL-2A-0M	2014 10 07	8.5	17.2	< 30	1.84	0.198	0.459	0.83	< 0.1	< 0.1	5.15	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.53	< 0.05	0.6	-	0.26	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.146	< 1	< 3
	QUL-2A-40M	2014 10 07	10.4	20.1	< 30	2.15	19.8	0.776	2.22	0.13	0.4	10.3	< 0.1	< 10	< 0.01	< 0.5	< 0.1	3.76	< 0.05	0.94	-	3	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.376	< 1	< 3
	QUL-2A-60M	2014 10 07	16.4	22.2	< 30	2.37	40	1.03	3.31	0.27	0.64	14	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.45	< 0.05	1.01	-	5.29	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.566	< 1	< 3
	QUL-2A-0M	2014 10 14	12.8	17.2	< 30	1.89	0.481	0.641	0.94	< 0.1	< 0.1	4.8	< 0.1	< 10	0.02	< 0.5	< 0.1	1.55	0.138	0.96	-	0.505	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.153	< 1	5.4
	QUL-2A-40M	2014 10 14	8.4	18.8	< 30	2.07	5.94	0.642	1.62	< 0.1	0.24	7.91	< 0.1	< 10	< 0.01	< 0.5	< 0.1	3.12	< 0.05	1.08	-	1.73	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.273	< 1	< 3
	QUL-2X-40M	2014 10 14	14.3	21.3	< 30	2.34	27.1	0.987	3.06	0.24	0.57	13.2	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.25	< 0.05	1.2	-	4.97	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.526	< 1	< 3
	QA/QC RPD %		*	13	*	12	128	42	62	*	*	50	*	*	*	*	*	51	*	*	-	97	*	*	*	*	*	63	*	*
	QUL-2A-60M	2014 10 14	13.7	21.9	< 30	2.4	30.1	0.982	3.11	0.24	0.58	13.4	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.4	< 0.05	1.21	-	5.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.531	< 1	< 3
QUL-18	QUL-18-0M	2014 10 01	8.7	16.5	< 30	1.79	0.06	0.453	0.85	< 0.1	0.1	4.9	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.6	< 0.05	0.71	-	0.292	< 0.5	< 0.5	< 0.01	0.014	< 10	0.161	< 1	< 3
	QUL-18-40M	2014 10 01	40.6	22.5	< 30	2.44	44.9	1.11	3.67	0.25	0.67	15	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.54	< 0.05	0.93	-	5.98	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.625	< 1	< 3
	QUL-18-80M	2014 10 01	**77**	23.6	< 30	2.55	66	1.2	4.03	0.27	0.86	18.2	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.77	< 0.05	0.84	-	6.19	< 0.5	0.52	< 0.01	< 0.01	< 10	0.667	1.1	< 3
	QUL-18-0M	2014 10 08	9.1	17.8	< 30	1.92	0.324	0.476	0.898	< 0.1	0.13	5.48	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.12	< 0.05	0.61	-	0.333	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3
	QUL-18-40M	2014 10 08	7.9	19.5	< 30	2.14	7.09	0.63	1.65	< 0.1	0.25	8.23	< 0.1	< 10	< 0.01	< 0.5	< 0.1	3.02	< 0.05	0.75	-	1.77	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.274	< 1	< 3
	QUL-18-80M	2014 10 08	14.5	23.1	< 30	2.48	46.3	1.09	3.64	0.29	0.73	15.6	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.63	< 0.05	0.96	-	6.28	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.622	< 1	< 3
QUL-20	QUL-20	2014 09 29	8.2	17.3	< 30	1.89	0.137	0.448	0.811	< 0.1	0.12	5.02	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.5	< 0.05	0.83	-	0.24	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.14	< 1	< 3
	QUL-20	2014 10 03	7.9	17.6	< 30	1.94	0.592	0.505	0.931	< 0.1	0.12	5.89	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.09	< 0.05	0.72	-	0.34	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.157	< 1	< 3
	QUL-20-0M	2014 10 07	7.5	17.3	< 30	1.85	0.238	0.459	0.84	< 0.1	0.11	5.44	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.95	< 0.05	0.74	-	0.296	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.147	< 1	< 3
	QUL-20	2014 10 11	8	17.8	< 30	1.95	0.162	0.461	0.873	< 0.1	0.11	5.49	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.88	< 0.05	1.11	-	0.36	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.16	< 1	< 3
	QUL-20X	2014 10 11	7.1	17.6	< 30	1.94	0.138	0.461	0.865	< 0.1	0.1	5.49	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.86	< 0.05	1.15	-	0.349	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.165	< 1	< 3
	QA/QC RPD %		*	1	*	< 1	*	0	< 1	*	*	0	*	*	*	*	*	*	*	*	-	3	*	*	*	*	*	3	*	*
	QUL-20	2014 10 14	9	17.5	< 30	1.94	0.438	0.585	0.967	< 0.1	0.11	5.48	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.57	0.068	0.96	-	0.653	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.155	< 1	3.7
QUL-21	QUL-21-0M	2014 09 29	8.3	17.5	< 30	1.91	0.093	0.418	0.766	< 0.1	< 0.1	4.58	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.56	< 0.05	0.86	-	0.261	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.149	< 1	< 3
	QUL-21-40M	2014 09 29	12.3	21.6	< 30	2.39	31.4	0.913	2.9	0.19	0.54	13.3	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.4	< 0.05	1.19	-	4.42	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.488	< 1	< 3
	QUL-21X-40M	2014 09 29	12.6	21.2	< 30	2.35	30.9	0.89	2.82	0.18	0.55	12.8	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.25	< 0.05	1.14	-	4.16	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.477	< 1	< 3
	QA/QC RPD %		*	2	*	2	2	3	3	*	2	4	*	*	*	*	*	3	*	*	-	6	*	*	*	*	*	2	*	*
	QUL-21-45M	2014 09 29	14.1	21.8	< 30	2.41	37.1	0.978	3.21	0.22	0.63	14.3	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.95	< 0.05	1.14	-	4.99	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.53	< 1	< 3
	QUL-21-0M	2014 10 04	9	17.5	< 30	1.94	0.51	0.467	0.894	< 0.1	0.11	5.64	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.2	< 0.05	0.91	-	0.311	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.144	< 1	< 3
	QUL-21-40M	2014 10 04	11.2	20.5	< 30	2.28	23.5	0.797	2.48	0.16	0.43	11.4	< 0.1	< 10	< 0.01	< 0.5	< 0.1	4.39	< 0.05	1.12	-	3.51	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.402	< 1	< 3
	QUL-21-0M	2014 10 11	9.3	17.5	< 30	1.93	0.091	0.457	0.853	< 0.1	< 0.1	5.44	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.81	< 0.05	1.05	-	0.319	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.154	< 1	< 3
	QUL-21-40M	2014 10 11	12.5	22.3	< 30	2.45	34.8	1.01	3.32	0.26	0.63	14.6	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.23	< 0.05	1.23	-	5.42	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.567	< 1	< 3
QUL-21a	QUL-21A-0M	2014 10 04	7.9	17.5	< 30	1.94	0.414	0.464	0.878	< 0.1	0.11	5.59	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.01	< 0.05	1.11	-	0.312	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.147	< 1	< 3
	QUL-21A-40M	2014 10 04	10	19.3	< 30	2.16	12.3	0.677	1.84	0.11	0.32	8.8	< 0.1	< 10	< 0.01	< 0.5	< 0.1	3.24	< 0.05	1	-	2.22	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.296	< 1	< 3
	QUL-21A-55M	2014 10 04	12.6	21.8	< 30	2.42	37.2	0.977	3.2	0.22	0.57	13.9	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.21	0.068	1.25	-	4.97	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.524	< 1	< 3
	QUL-21AX-55M	2014 10 04	12.7	22	< 30	2.43	36.1	0.975	3.14	0.22	0.59	13.3	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.19	< 0.05	1.09	-	4.88	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.501	< 1	< 3
	QA/QC RPD %		*	< 1	*	< 1	3	< 1	2	*	3	4	*	*	*	*	*	< 1	*	*	-	2	*	*	*	*	*	5	*	*
	QUL-21A-0M	2014 10 11	7.1	17.6	< 30	1.93	0.14	0.461	0.862	< 0.1	0.1	5.19	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.76	< 0.05	1.02	-	0.343	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.156	< 1	< 3
	QUL-21A-40M	2014 10 11	9.5	20.4	< 30	2.27	10.4	0.766	2.25	0.15	0.39	10.5	< 0.1	< 10	< 0.01	< 0.5	< 0.1	3.59	< 0.05	1.21	-	3.26	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.402	< 1	< 3
	QUL-21A-55	2014 10 11	13.3	22.3	< 30	2.44	33	1	3.27	0.27	0.63	14	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.25	< 0.05	1.35	-	5.76	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.594	< 1	< 3
QUL-22	QUL-22	2014 10 04	7.1	17.8	< 30	1.98	0.351	0.449	0.845	< 0.1	0.11	5.46	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1	< 0.05	1.04	-	0.324	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.144	< 1	< 3
	QUL-22	2014 10 08	7.8	17.6	< 30	1.89	0.326	0.45	0.872	< 0.1	0.11	5.52	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.03	< 0.05	0.6	-	0.312	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.149	< 1	< 3
	QUL-22X	2014 10 08	7.7	17.7	< 30	1.92	0.33	0.444	0.872	< 0.1	0.12	5.51	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1	< 0.05	0.63	-	0.319	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3
	QA/QC RPD %		*	< 1	*	2	1	1	0	*	*	< 1	*	*	*	*	*	*	*	*	-	2	*	*	*	*	*	1	*	*
	QUL-22	2014 10 11	7.6	17.6	< 30	1.94	0.118	0.458	0.857	< 0.1	< 0.1	5.43	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1	< 0.05	1.12	-	0.322	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.16	< 1	< 3

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 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	0.016-0.079[d]	n/a	1 (Cr(+6))	110	6.0-27.9[d]	1,000	27.3-297.3[d]	870	n/a	1001-3582[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	33-172.5[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	2-11[d]	n/a	4.4-14.9[d]	14[i]	n/a	791.1-1819[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	7.5-147[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	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-2	QUL-2-0M	2014 09 30	45.1	< 0.1	0.13	5.35	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	1.29	43	< 0.05	0.9	1,920	1.81	-	0.423	< 0.5	453	< 0.5	1,470	< 0.01	827	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUL-2-40M	2014 09 30	***3,000***	0.3	1.29	89.3	< 0.1	< 0.5	< 10	0.018	23,500	**1.23**	0.79	**51.2**	***1,180***	0.983	2.05	3,040	***76.5***	-	5.86	1.18	2,630	< 0.5	10,400	0.018	3,940	0.014	0.11	100	0.656	4.7	5.1
	QUL-2-0M	2014 10 07	19.2	< 0.1	< 0.1	5.05	< 0.1	< 0.5	< 10	< 0.01	16,700	< 0.5	< 0.1	0.85	< 30	< 0.05	< 0.5	1,810	1.21	-	0.304	< 0.5	438	< 0.5	1,370	< 0.01	799	< 0.01	< 0.1	< 10	0.157	< 1	< 3
	QUL-2-40M	2014 10 07	***1,880***	0.21	0.93	58.4	< 0.1	< 0.5	< 10	0.012	20,400	0.75	0.5	**35**	***736***	0.602	1.34	2,460	***59.3***	-	4.47	0.94	1,840	< 0.5	6,220	< 0.01	3,020	< 0.01	< 0.1	63	0.507	3.1	4.1
	QUL-2-0M	2014 10 14	42.2	< 0.1	0.12	5.73	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	1.27	30	< 0.05	0.96	1,930	1.79	-	0.39	< 0.5	492	< 0.5	1,450	< 0.01	889	< 0.01	< 0.1	< 10	0.166	< 1	< 3
	QUL-2-40M	2014 10 14	***1,900***	0.32	0.93	59.4	< 0.1	< 0.5	< 10	0.013	21,500	0.65	0.41	**33**	***655***	0.62	1.64	2,600	***54.4***	-	4.85	0.79	1,900	< 0.5	6,570	0.014	3,290	< 0.01	< 0.1	60	0.559	3	< 3
QUL-2a	QUL-2A-0M	2014 09 30	45.7	< 0.1	0.13	5.22	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	1.29	45	< 0.05	0.73	1,910	1.9	-	0.298	< 0.5	451	< 0.5	1,470	< 0.01	826	< 0.01	< 0.1	< 10	0.169	< 1	< 3
	QUL-2A-40M	2014 09 30	***643***	< 0.1	0.38	22.4	< 0.1	< 0.5	< 10	< 0.01	19,500	< 0.5	0.19	**12.3**	271	0.216	1.13	2,270	17.9	-	1.5	0.53	910	< 0.5	3,440	< 0.01	1,560	< 0.01	< 0.1	26	0.279	1.2	< 3
	QUL-2A-0M	2014 10 07	21.8	< 0.1	0.11	5.08	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	0.8	< 30	< 0.05	< 0.5	1,770	1.28	-	0.283	< 0.5	444	< 0.5	1,340	< 0.01	792	< 0.01	< 0.1	< 10	0.15	< 1	< 3
	QUL-2A-40M	2014 10 07	***1,110***	0.14	0.65	37.9	< 0.1	< 0.5	< 10	< 0.01	19,100	< 0.5	0.3	**22.8**	***445***	0.405	1.06	2,220	37.1	-	3.08	0.64	1,290	< 0.5	4,290	< 0.01	2,330	< 0.01	< 0.1	38	0.405	2	< 3
	QUL-2A-60M	2014 10 07	***2,190***	0.27	1.2	68.7	< 0.1	< 0.5	< 10	0.015	22,000	0.83	0.61	**44.5**	***911***	0.755	1.58	2,690	***73.1***	-	5.61	0.97	2,100	< 0.5	7,050	0.014	3,660	< 0.01	< 0.1	78	0.619	3.8	3.6
	QUL-2A-0M	2014 10 14	29.6	< 0.1	0.13	5.12	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	1.12	< 30	< 0.05	0.96	1,930	1.36	-	0.333	< 0.5	455	< 0.5	1,420	< 0.01	815	< 0.01	< 0.1	< 10	0.162	< 1	< 3
	QUL-2A-40M	2014 10 14	***673***	0.18	0.39	22.9	< 0.1	< 0.5	< 10	< 0.01	19,000	< 0.5	0.16	**12.2**	259	1.1	1.26	2,210	19.4	-	1.76	0.6	970	< 0.5	3,180	< 0.01	1,710	< 0.01	< 0.1	24	0.283	1.2	< 3
	QUL-2X-40M	2014 10 14	***1,910***	0.3	0.98	60.1	< 0.1	< 0.5	< 10	0.013	21,600	0.69	0.41	**33.7**	***652***	0.624	1.64	2,620	***55.1***	-	5	0.81	1,950	< 0.5	6,560	0.014	3,280	< 0.01	< 0.1	59	0.563	3	3.2
	QA/QC RPD %		96	*	*	90	*	*	*	*	13	*	*	*	86	*	*	17	*	-	96	*	67	*	69	*	63	*	*	*	66	*	*
	QUL-2A-60M	2014 10 14	***1,980***	0.33	1.09	61	< 0.1	< 0.5	< 10	0.012	22,100	0.75	0.47	**36**	***726***	0.67	1.79	2,690	***62.7***	-	5.25	0.89	1,960	< 0.5	6,640	0.016	3,520	< 0.01	< 0.1	69	0.597	3.3	3.3
QUL-18	QUL-18-0M	2014 10 01	29.3	< 0.1	0.12	5.01	< 0.1	< 0.5	< 10	< 0.01	16,900	< 0.5	< 0.1	0.99	< 30	0.201	0.98	1,840	1.47	-	0.28	< 0.5	455	< 0.5	1,410	< 0.01	805	< 0.01	< 0.1	< 10	0.151	< 1	< 3
	QUL-18-40M	2014 10 01	***2,780***	0.27	1.32	77.3	< 0.1	< 0.5	< 10	0.012	21,900	**1.07**	0.76	**50.2**	***1,150***	0.863	1.65	2,810	***83.7***	-	5.79	1.17	2,400	< 0.5	8,510	0.017	3,980	0.011	< 0.1	93	0.652	4.5	4.3
	QUL-18-80M	2014 10 01	***3,190***	0.31	1.55	88.3	< 0.1	< 0.5	10	0.018	23,700	**1.27**	0.94	**60.4**	***1,420***	1.01	1.84	3,090	***112***	-	6.4	1.36	2,640	0.58	8,860	0.02	4,450	0.011	< 0.1	113	0.731	5.3	5.3
	QUL-18-0M	2014 10 08	55.5	< 0.1	0.16	6.07	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	1.71	56	0.062	0.57	1,880	2.45	-	0.405	< 0.5	475	< 0.5	1,520	< 0.01	911	< 0.01	< 0.1	< 10	0.168	< 1	< 3
	QUL-18-40M	2014 10 08	***642***	0.11	0.44	22.1	< 0.1	< 0.5	< 10	< 0.01	18,500	< 0.5	0.21	**13.3**	***320***	0.244	0.91	2,140	20.2	-	1.81	0.62	895	< 0.5	3,150	< 0.01	1,680	< 0.01	< 0.1	24	0.29	1.3	< 3
	QUL-18-80M	2014 10 08	***2,600***	0.3	1.43	77.8	< 0.1	< 0.5	11	0.016	22,600	**1.1**	0.77	**53.9**	***1,120***	0.921	1.72	2,840	***87.8***	-	6.51	1.24	2,300	< 0.5	7,770	0.019	4,180	< 0.01	< 0.1	92	0.7	4.7	4.5
QUL-20	QUL-20	2014 09 29	21.3	< 0.1	0.12	5.04	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	0.77	< 30	< 0.05	0.89	1,890	1.31	-	0.28	< 0.5	443	< 0.5	1,410	< 0.01	803	< 0.01	< 0.1	< 10	0.158	< 1	< 3
	QUL-20	2014 10 03	58.3	< 0.1	0.16	6.58	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	1.99	58	0.127	0.63	1,950	3.31	-	0.343	< 0.5	495	< 0.5	1,550	< 0.01	905	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUL-20-0M	2014 10 07	77.2	< 0.1	0.16	6.01	< 0.1	< 0.5	< 10	< 0.01	16,800	< 0.5	< 0.1	1.89	84	0.058	0.58	1,840	4.19	-	0.319	< 0.5	452	< 0.5	1,530	< 0.01	815	< 0.01	< 0.1	< 10	0.149	< 1	< 3
	QUL-20	2014 10 11	50.1	< 0.1	0.13	6.18	< 0.1	< 0.5	< 10	< 0.01	17,600	< 0.5	< 0.1	1.65	47	0.06	1.01	1,960	2.34	-	0.402	< 0.5	470	< 0.5	1,490	< 0.01	886	< 0.01	< 0.1	< 10	0.169	< 1	< 3
	QUL-20X	2014 10 11	39	< 0.1	0.15	5.84	< 0.1	< 0.5	< 10	< 0.01	17,600	< 0.5	< 0.1	1.61	32	< 0.05	0.67	1,970	1.99	-	0.375	< 0.5	473	< 0.5	1,460	< 0.01	915	< 0.01	< 0.1	< 10	0.169	< 1	< 3
	QA/QC RPD %		25	*	*	6	*	*	*	*	0	*	*	*	*	*	*	< 1	*	-	7	*	< 1	*	2	*	3	*	*	*	0	*	*
	QUL-20	2014 10 14	39.4	< 0.1	0.15	5.91	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	1.44	32	< 0.05	0.98	1,970	1.89	-	0.382	< 0.5	484	< 0.5	1,480	< 0.01	900	< 0.01	< 0.1	< 10	0.163	< 1	< 3
QUL-21	QUL-21-0M	2014 09 29	28	< 0.1	0.14	4.8	< 0.1	< 0.5	< 10	< 0.01	16,700	< 0.5	< 0.1	0.92	< 30	< 0.05	0.81	1,840	1.09	-	0.29	< 0.5	432	< 0.5	1,390	< 0.01	765	< 0.01	< 0.1	< 10	0.151	< 1	< 3
	QUL-21-40M	2014 09 29	***2,010***	0.23	1.03	61.6	< 0.1	< 0.5	< 10	0.013	21,500	0.81	0.6	**39.7**	***819***	0.682	1.78	2,710	***64.3***	-	4.66	0.96	1,880	< 0.5	6,320	0.015	3,240	< 0.01	< 0.1	70	0.531	3.5	4
	QUL-21X-40M	2014 09 29	***2,390***	0.23	1.1	69.5	< 0.1	< 0.5	< 10	0.017	22,200	0.95	0.63	**41.9**	***869***	0.698	1.88	2,830	***67.9***	-	4.76	1.02	2,130	< 0.5	7,310	0.014	3,470	< 0.01	< 0.1	78	0.537	3.8	4.2
	QA/QC RPD %		17	*	7	12	*	*	*	*	3	*	5	*	6	*	*	4	*	-	2	*	13	*	15	*	7	*	*	11	1	*	*
	QUL-21-45M	2014 09 29	***2,220***	0.26	1.2	65.8	< 0.1	< 0.5	< 10	0.016	22,100	0.95	0.68	**47.2**	***953***	0.802	1.92	2,850	***75***	-	5.28	1.12	1,990	< 0.5	6,570	0.016	3,590	< 0.01	< 0.1	82	0.598	4	4.6
	QUL-21-0M	2014 10 04	***104***	< 0.1	0.13	6.55	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	1.99	105	0.06	0.71	1,940	3.89	-	0.351	< 0.5	471	< 0.5	1,590	< 0.01	877	< 0.01	< 0.1	< 10	0.156	< 1	< 3
	QUL-21-40M	2014 10 04	***1,570***	0.18	0.85	48.6	< 0.1	< 0.5	< 10	0.01	20,300	0.69	0.45	**30.6**	***696***	0.517	1.41	2,530	48.8	-	3.78	0.78	1,560	< 0.5	5,380	0.015	2,750	< 0.01	< 0.1	58	0.442	2.7	3
	QUL-21-0M	2014 10 11	34.8	< 0.1	0.11	5.91	< 0.1	< 0.5	< 10	< 0.01	17,500	< 0.5	< 0.1	1.42	< 30	< 0.05	0.94	1,940	1.75	-	0.352	< 0.5	472	< 0.5	1,450	< 0.01	880	< 0.01	< 0.1	< 10	0.161	< 1	< 3
	QUL-21-40M	2014 10 11	***2,050***	0.3	1.12	69.1	< 0.1	< 0.5	< 10	0.014	22,200	0.8	0.53	**39.8**	***825***	0.74	1.7	2,740	***69.7***	-	5.74	0.92	2,070	< 0.5	6,980	0.016	3,630	< 0.01	< 0.1	71	0.635	3.5	3.7
QUL-21a	QUL-21A-0M	2014 10 04	81.6	< 0.1	0.14	6.32	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	1.92	95	< 0.05	0.91	1,970	3.63	-	0.373	< 0.5	465	< 0.5	1,570	< 0.01	867	< 0.01	< 0.1	< 10	0.16	< 1	< 3
	QUL-21A-40M	2014 10 04	***895***	0.12	0.52	29	< 0.1	< 0.5	< 10	< 0.01	18,800	< 0.5	0.29	**18.5**	***426***	0.307	1.02	2,260	28.2	-	2.29	0.66	1,070	< 0.5	3,600	0.03	1,950	< 0.01	< 0.1	34	0.317	1.7	< 3
	QUL-21A-55M	2014 10 04	***2,400***	0.25	1.15	70.9	< 0.1	< 0.5	< 10	0.015	22,400	0.98	0.64	**42.4**	***997***	0.77	1.83	2,860	***69***	-	5.24	1.02	2,140	< 0.5	7,760	0.018	3,620	< 0.01	< 0.1	84	0.596	3.8	4.1
	QUL-21AX-55M	2014 10 04	***2,340***	0.25	1.13	71.4	< 0.1	< 0.5	< 10	0.014	22,300	0.89	0.63	**41.7**	***966***	0.762	1.72	2,810	***68.4***	-	5.38	1.06	2,080	< 0.5	7,400	0.02	3,550	< 0.01	< 0.1	81	0.593	3.8	4
	QA/QC RPD %		3	*	2	< 1	*	*	*	*	< 1	*	2	*	3	*	*	2	*	-	3	*	3	*	5	*	2	*	*	4	< 1	*	*
	QUL-21A-0M	2014 10 11	41.6	< 0.1	0.12	5.62	< 0.1	< 0.5	< 10	< 0.01	16,700	< 0.5	< 0.1	1.37	32	< 0.05	0.86	1,870	1.75	-	0.399	< 0.5	445	< 0.5	1,400	< 0.01	830	< 0.01	< 0.1	< 10	0.161	< 1	< 3
	QUL-21A-40M	2014 10 11	***1,160***	0.18	0.65	40	< 0.1	< 0.5	< 10	0.011	19,900	< 0.5	0.31	**22.5**	***491***	0.424	1.41	2,390	35.1	-	3.38	0.68	1,340	< 0.5	4,540	< 0.01	2,380	< 0.01	< 0.1	41	0.434	2.1	< 3
	QUL-21A-55	2014 10 11	***2,070***	0.3	1.14	67.3	< 0.1	< 0.5	< 10	0.015	21,900	0.88	0.58	**41**	***902***	0.761	1.83	2,740	***70.2***	-	5.96	0.95	2,000	< 0.5	7,140	0.016	3,560	< 0.01	< 0.1	79	0.642	3.7	3.7
QUL-22	QUL-22	2014 10 04	70	< 0.1	0.13	6.25	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	2.01	75	< 0.05	0.78	1,950	3.39	-	0.406	< 0.5	467	< 0.5	1,500	< 0.01	878	< 0.01	< 0.1	< 10	0.161	< 1	< 3
	QUL-22	2014 10 08	66.8	< 0.1	0.16	6.42	< 0.1	< 0.5	< 10	< 0.01	17,500	< 0.5	< 0.1	**2.44**	66	0.062	0.58	1,910	2.85	-	0.521	< 0.5	463	< 0.5	1,540	< 0.01	899	< 0.01	< 0.1	< 10	0.167	< 1	< 3
	QUL-22X	2014 10 08	53.3	< 0.1	0.15	6.18	< 0.1	< 0.5	< 10	< 0.01	17,600	< 0.5	< 0.1	1.58	53	< 0.05	0.62	1,920	2.51	-	0.353	< 0.5	461	< 0.5	1,510	< 0.01	900	< 0.01	< 0.1	< 10	0.166	< 1	< 3
	QA/QC RPD %		23	*	*	4	*	*	*	*	< 1	*	*	*	*	*	*	< 1	*	-	38	*	< 1	*	2	*	< 1	*	*	*	< 1	*	*
	QUL-22	2014 10 11	55.1	< 0.1	0.13	6.22	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	1.88	43	< 0.05	0.98	1,940	2.15	-	0.407	< 0.5	471	< 0.5	1,480	< 0.01	864	< 0.01	< 0.1	< 10	0.17	< 1	< 3

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 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 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		Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	5,680-18,400[d]	32,800	60-600[d]	32,800[f]	600	988.2-1742[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	+/-1 Degree change from ambient	Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	1,090-1,770[d]	3,000	20-200[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	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	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a
QUL-23	QUL-23	2014 10 01	48.5	8	7.17	14.7	0.67	99.9	65	< 3	1.91	-	0.126	< 5	53	< 1	-	< 0.5	35	6	43.9	-	< 0.001	< 0.002[a]
	QUL-23	2014 10 07	51.1	8.04	7.88	-	4	105	70	3.9	2.04	-	0.187	< 5	60.4	< 1	-	< 0.5	42	6.3	51	-	< 0.001	< 0.002[a]
QUL-31a	QUL-31A-0M	2014 10 07	51	7.98	7.86	-	0.43	103	69	< 3	1.93	-	0.141	< 5	63.3	< 1	-	< 0.5	35	6.15	50	-	< 0.001	< 0.002[a]
	QUL-31A-40M	2014 10 07	54	7.61	7.84	-	5.7	111	73	< 3	1.67	-	0.194	< 5	147	< 1	-	< 0.5	40	7.25	53	-	< 0.001	< 0.002[a]
	QUL-31A-80M	2014 10 07	53.9	7.56	7.83	-	2.79	110	71	< 3	1.75	-	0.218	< 5	148	< 1	-	< 0.5	40	6.74	53.1	-	< 0.001	< 0.002[a]
	QUL-31AX-80M	2014 10 07	54.7	7.56	7.84	-	3.24	109	73	< 3	1.79	-	0.242	< 5	148	< 1	-	< 0.5	39	6.73	52.7	-	< 0.001	< 0.002[a]
	QA/QC RPD %		2	0	< 1	-	15	< 1	3	*	*	-	*	*	0	*	-	*	*	< 1	< 1	-	*	*
	QUL-31A-0M	2014 10 13	52.2	8.04	7.9	12.1	0.54	101	74	< 3	1.85	-	0.143	< 5	69.9	< 1	-	< 0.5	31	6.22	52.1	-	< 0.001	< 0.002[a]
	QUL-31A-40M	2014 10 13	55	7.78	7.33	5.2	6.63	110	77	< 3	1.8	-	0.212	< 5	148	< 1	-	< 0.5	38	7.5	52.5	-	< 0.001	< 0.002[a]
	QUL-31A-80M	2014 10 13	54.6	7.69	7.36	4.1	1.6	108	78	< 3	1.74	-	0.18	< 5	147	< 1	-	< 0.5	34	6.59	52.7	-	< 0.001	< 0.002[a]
QUL-36	QUL-36-3M	2014 10 10	52.3	8.12	7.17	13	0.9	103	68	< 3	1.89	-	0.118	< 5	59.7	< 1	-	< 0.5	35	6.24	54.2	-	< 0.001	**0.0023**
QUL-38	QUL-38	2014 10 03	52.6	-	7.86	-	1.39	102	68	< 3	1.87	-	0.127	< 5	60.2	< 1	-	< 0.5	35	6.17	49.4	-	< 0.001	< 0.002[a]
QUL-40	QUL-40-0M	2014 09 29	51.1	8.06	7.76	14.59	0.69	107	62	< 3	1.6	-	0.143	5.3	57	< 1	-	< 0.5	31	6.12	52.1	-	< 0.001	< 0.002[a]
	QUL-40-40M	2014 09 29	51.2	7.63	7.69	5.2	5.64	109	68	3.3	1.46	-	0.214	17.9	147	< 1	-	< 0.5	38	7.48	53.5	-	< 0.001	< 0.002[a]
	QUL-40-80M	2014 09 29	55	7.62	7.69	7.34	2.61	107	67	< 3	1.56	-	0.208	< 5	148	< 1	-	< 0.5	36	6.86	53.8	-	< 0.001	< 0.002[a]
	QUL-40-0M	2014 10 06	52.2	7.81	7.86	-	0.71	102	68	< 3	1.88	-	0.155	< 5	61.4	< 1	-	< 0.5	35	6.13	49.6	-	< 0.001	< 0.002[a]
	QUL-40-40M	2014 10 06	55.1	7.7	7.81	-	5.38	111	72	3.4	1.76	-	0.183	5	140	< 1	-	< 0.5	40	7.25	52.4	-	< 0.001	< 0.002[a]
	QUL-40-80M	2014 10 06	54.6	7.64	7.8	-	3.14	110	73	< 3	1.74	-	0.187	< 5	147	< 1	-	< 0.5	38	6.76	52.5	-	< 0.001	< 0.002[a]
	QUL-40-0M	2014 10 13	52.4	-	7.35	-	0.84	102	84	< 3	1.85	-	0.132	< 5	63.2	< 1	-	< 0.5	31	6.22	49	-	< 0.001	< 0.002[a]
	QUL-40-40M	2014 10 13	57.6	7.84	7.34	5.5	11.2	115	82	3.3	1.83	-	0.211	8.6	152	< 1	-	< 0.5	42	8.56	56.4	-	< 0.001	< 0.002[a]
	QUL-40-80M	2014 10 13	55.1	7.76	7.35	4.4	3.32	110	75	< 3	1.69	-	0.193	< 5	148	< 1	-	< 0.5	35	6.87	56.1	-	< 0.001	< 0.002[a]
QUL-40A	QUL-40A-0M	2014 10 06	50.9	7.7	7.86	-	0.54	103	66	< 3	1.9	-	0.139	< 5	61.7	< 1	-	< 0.5	35	6.19	49.5	-	< 0.001	< 0.002[a]
	QUL-40A-40M	2014 10 06	58.5	7.74	7.85	-	18.2	121	82	4.7	1.85	-	0.223	14.4	154	1.1	-	< 0.5	55	9.77	54.5	-	< 0.001	< 0.002[a]
	QUL-40A-80M	2014 10 06	55.3	7.67	7.82	-	4.14	110	74	< 3	1.77	-	0.197	< 5	147	< 1	-	< 0.5	39	6.95	53	-	< 0.001	< 0.002[a]
	QUL-40A-0M	2014 10 11	51.7	8	7.22	12.7	0.5	102	67	< 3	1.79	-	0.117	< 5	62.6	< 1	-	< 0.5	34	6.14	49.7	-	< 0.001	**0.0022**
	QUL-40A-120M	2014 10 11	55.1	7.54	7.11	7.3	3.4	110	74	< 3	1.67	-	0.168	< 5	151	< 1	-	< 0.5	38	6.8	52.9	-	< 0.001	< 0.002[a]
	QUL-40A-40M	2014 10 11	56.4	7.61	7.1	5.3	10.1	114	76	< 3	1.67	-	0.204	8.1	154	< 1	-	< 0.5	44	8.26	54.9	-	< 0.001	< 0.002[a]
	QUL-40A-80M	2014 10 11	55.1	7.54	7.11	4.3	3.37	109	73	3.2	1.6	-	0.175	< 5	150	< 1	-	< 0.5	39	6.83	52.9	-	< 0.001	< 0.002[a]
QUL-66	QUL-66-0M	2014 09 29	51.9	8.15	7.76	14.4	0.94	100	64	< 3	1.51	-	0.132	< 5	54.1	< 1	-	< 0.5	32	6.13	50.6	-	< 0.001	**0.0032**
	QUL-66-40M	2014 09 29	64.6	7.75	7.66	6.3	38.8	137	96	8.2	1.51	-	0.361	39	182	2.1	-	< 0.5	62	14.7	59.6	-	0.001	**0.0026**
	QUL-66-50M	2014 09 29	67.3	7.85	7.79	6.5	54.5	149	104	6.8	1.62	-	0.332	47.5	188	2.9	-	0.53	69	16.7	63.3	-	0.0017	**0.0033**
	QUL-66-0M	2014 10 01	50.1	7.91	7.68	14.4	0.76	99.7	74	< 3	1.87	-	0.126	< 5	53.8	< 1	-	< 0.5	35	6	49.3	-	< 0.001	< 0.002[a]
	QUL-66-40M	2014 10 01	66.1	7.76	7.69	6.6	56.5	147	103	7.6	2.19	-	0.411	49	193	2.6	-	0.85	72	16.7	61.1	-	< 0.001	**0.0025**
	QUL-66X-40M	2014 10 01	66.1	7.66	7.72	6.2	57.5	148	108	6.5	2.24	-	0.391	48.1	192	2.6	-	0.75	82	16.7	61.6	-	0.0013	**0.0032**
	QA/QC RPD %		0	1	< 1	6	2	< 1	5	*	*	-	5	2	< 1	*	-	*	*	0	< 1	-	*	*
	QUL-66-50M	2014 10 01	67	7.79	7.73	6.6	59.2	151	109	7.8	2.09	-	0.328	48.6	195	3	-	0.74	84	17.1	60.9	-	0.0016	**0.0034**
	QUL-66-0M	2014 10 08	52.3	8.12	7.86	13	1.39	104	70	< 3	2.01	-	0.118	< 5	62.1	< 1	-	< 0.5	36	6.18	48.3	-	< 0.001	< 0.002[a]
	QUL-66-40M	2014 10 08	57.8	7.8	7.84	5.78	16.1	120	82	4.2	1.98	-	0.216	14.4	164	< 1	-	< 0.5	47	9.09	52.2	-	< 0.001	< 0.002[a]
	QUL-66-45M	2014 10 08	58.8	7.82	7.84	5.89	18.7	123	85	9.2	2.17	-	0.281	15.1	164	< 1	-	< 0.5	49	9.74	54.1	-	< 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 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 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)	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]			30-100[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]			50-1000[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	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	n/a
QUL-23	QUL-23	2014 10 01	13.2	16.5	< 30	1.8	1.13	0.448	0.841	< 0.1	< 0.1	4.93	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.95	< 0.05	0.85	-	0.263	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.149	< 1	< 3
	QUL-23	2014 10 07	9.2	17.4	< 30	1.86	0.644	0.489	0.886	< 0.1	0.13	5.54	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1	< 0.05	0.67	-	0.316	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.153	< 1	< 3
QUL-31a	QUL-31A-0M	2014 10 07	8	17.4	< 30	1.86	0.136	0.45	0.799	< 0.1	< 0.1	4.82	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.67	-	0.242	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.149	< 1	< 3
	QUL-31A-40M	2014 10 07	7.9	18.3	< 30	2	2.3	0.532	1.14	< 0.1	0.14	6.29	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.65	< 0.05	0.75	-	0.769	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.192	< 1	< 3
	QUL-31A-80M	2014 10 07	6	18.3	< 30	1.98	0.611	0.497	1	< 0.1	0.1	5.39	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.02	< 0.05	0.78	-	0.467	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.167	< 1	< 3
	QUL-31AX-80M	2014 10 07	6.3	18.5	< 30	2.05	0.685	0.466	0.949	< 0.1	0.13	5.27	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.07	< 0.05	0.55	-	0.481	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.175	< 1	< 3
	QA/QC RPD %		*	1	*	4	11	6	5	*	*	2	*	*	*	*	*	*	*	*	-	3	*	*	*	*	*	5	*	*
	QUL-31A-0M	2014 10 13	6.9	17.7	< 30	1.94	0.08	0.448	0.814	< 0.1	< 0.1	4.88	< 0.1	< 10	0.014	< 0.5	< 0.1	0.53	< 0.05	0.6	-	0.301	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.15	< 1	< 3
	QUL-31A-40M	2014 10 13	6.9	18.6	< 30	2.08	1.36	0.553	1.24	< 0.1	0.17	6.84	< 0.1	< 10	0.013	< 0.5	< 0.1	2.57	0.077	0.65	-	1.01	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.205	< 1	< 3
	QUL-31A-80M	2014 10 13	4.4	18.5	< 30	2.06	0.31	0.473	0.949	< 0.1	0.11	5.49	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.14	0.052	0.6	-	0.433	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.159	< 1	< 3
QUL-36	QUL-36-3M	2014 10 10	7.6	17.8	< 30	1.94	0.154	0.458	0.85	< 0.1	< 0.1	5.28	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.01	< 0.05	0.87	-	0.34	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.157	< 1	< 3
QUL-38	QUL-38	2014 10 03	9.3	17.8	< 30	1.97	0.556	0.487	0.881	< 0.1	0.12	5.71	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1	< 0.05	0.63	-	0.282	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.142	< 1	< 3
QUL-40	QUL-40-0M	2014 09 29	8.3	17.3	< 30	1.9	0.152	0.434	0.78	< 0.1	0.1	4.78	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.53	< 0.05	0.83	-	0.268	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3
	QUL-40-40M	2014 09 29	7.6	17.4	< 30	1.9	4.11	0.532	1.2	< 0.1	0.17	6.47	< 0.1	< 10	< 0.01	< 0.5	< 0.1	2.1	< 0.05	0.98	-	0.965	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.206	< 1	< 3
	QUL-40-80M	2014 09 29	11.7	18.6	< 30	2.07	2.46	0.497	1.02	< 0.1	0.12	5.66	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.92	< 0.05	0.96	-	0.563	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.177	< 1	< 3
	QUL-40-0M	2014 10 06	7.7	17.8	< 30	1.88	0.234	0.429	0.828	< 0.1	< 0.1	4.85	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.58	-	0.245	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.142	< 1	< 3
	QUL-40-40M	2014 10 06	7.4	18.8	< 30	2.02	2.56	0.519	1.18	< 0.1	0.14	6.28	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.53	< 0.05	0.75	-	0.805	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.182	< 1	< 3
	QUL-40-80M	2014 10 06	4.6	18.5	< 30	2	1.35	0.484	1.03	< 0.1	0.11	5.55	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.07	< 0.05	0.76	-	0.521	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.167	< 1	< 3
	QUL-40-0M	2014 10 13	7.8	17.8	< 30	1.96	0.141	0.45	0.857	< 0.1	0.11	5.14	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.62	< 0.05	0.63	-	0.315	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.147	< 1	< 3
	QUL-40-40M	2014 10 13	8.8	19.5	< 30	2.16	4.69	0.605	1.46	< 0.1	0.24	10.1	< 0.1	< 10	< 0.01	< 0.5	< 0.1	2.35	0.144	< 0.5	-	1.58	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.274	< 1	< 3
	QUL-40-80M	2014 10 13	5.7	18.6	< 30	2.07	1.17	0.512	1.08	< 0.1	0.12	5.86	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.19	< 0.05	0.54	-	0.649	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.201	< 1	< 3
QUL-40A	QUL-40A-0M	2014 10 06	7.4	17.3	< 30	1.84	0.118	0.439	0.823	< 0.1	< 0.1	4.81	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.5	< 0.05	0.57	-	0.242	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.139	< 1	< 3
	QUL-40A-40M	2014 10 06	10.7	19.9	< 30	2.14	13.8	0.671	1.87	0.11	0.3	8.72	< 0.1	< 10	< 0.01	< 0.5	< 0.1	3.42	< 0.05	0.8	-	2.24	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.304	< 1	< 3
	QUL-40A-80M	2014 10 06	6.3	18.8	< 30	2.03	2.38	0.502	1.13	< 0.1	0.13	5.77	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.41	< 0.05	0.79	-	0.68	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.179	< 1	< 3
	QUL-40A-0M	2014 10 11	9.5	17.5	< 30	1.92	0.109	0.447	0.813	< 0.1	< 0.1	4.94	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.5	< 0.05	1	-	0.282	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.156	< 1	< 3
	QUL-40A-120M	2014 10 11	5.1	18.6	< 30	2.07	0.532	0.498	1.02	< 0.1	0.11	5.72	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.07	0.078	1.07	-	0.575	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.18	< 1	< 3
	QUL-40A-40M	2014 10 11	7.9	19.1	< 30	2.12	5.07	0.591	1.43	< 0.1	0.2	7.28	< 0.1	< 10	< 0.01	< 0.5	< 0.1	2.11	< 0.05	1.16	-	1.44	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.245	< 1	< 3
	QUL-40A-80M	2014 10 11	5.8	18.6	< 30	2.07	0.74	0.508	1.06	< 0.1	0.12	5.74	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.17	< 0.05	1.1	-	0.584	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.188	< 1	< 3
QUL-66	QUL-66-0M	2014 09 29	8.3	17.6	< 30	1.92	0.374	0.447	0.806	< 0.1	0.11	5.13	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.77	< 0.05	0.89	-	0.285	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.15	< 1	< 3
	QUL-66-40M	2014 09 29	12.1	21.9	< 30	2.4	35.9	0.924	2.96	0.21	0.54	13.2	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.7	< 0.05	1.14	-	4.66	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.497	< 1	< 3
	QUL-66-50M	2014 09 29	15.6	22.8	< 30	2.51	47.9	1.1	3.71	0.28	0.73	15.4	< 0.1	< 10	0.012	< 0.5	< 0.1	6.62	< 0.05	1.21	-	6.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.62	< 1	< 3
	QUL-66-0M	2014 10 01	8.5	17	< 30	1.84	0.071	0.453	0.838	< 0.1	< 0.1	4.82	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.59	< 0.05	0.64	-	0.259	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.153	< 1	< 3
	QUL-66-40M	2014 10 01	**64.5**	22.5	< 30	2.41	51.1	1.15	3.81	0.26	0.73	16.4	< 0.1	< 10	< 0.01	< 0.5	< 0.1	7.26	< 0.05	0.87	-	6.27	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.648	< 1	< 3
	QUL-66X-40M	2014 10 01	36.6	22.5	< 30	2.43	49.8	1.15	3.8	0.25	0.72	15.6	< 0.1	< 10	0.014	< 0.5	< 0.1	7.41	< 0.05	0.88	-	6.14	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.633	< 1	< 3
	QA/QC RPD %		55	0	*	< 1	3	0	< 1	*	1	5	*	*	*	*	*	2	*	*	-	2	*	*	*	*	*	2	*	*
	QUL-66-50M	2014 10 01	***233***	22.8	78	2.47	55.6	1.29	4.04	0.25	0.82	20.5	< 0.1	< 10	< 0.01	< 0.5	< 0.1	9.08	0.073	0.9	-	6.28	< 0.5	< 0.5	< 0.01	< 0.01	10	0.642	1.3	< 3
	QUL-66-0M	2014 10 08	7.8	17.8	< 30	1.93	0.326	0.447	0.868	< 0.1	0.11	5.52	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1	< 0.05	0.6	-	0.333	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.158	< 1	< 3
	QUL-66-40M	2014 10 08	9.5	19.6	< 30	2.16	10.1	0.658	1.74	< 0.1	0.3	8.86	< 0.1	< 10	< 0.01	< 0.5	< 0.1	2.93	< 0.05	0.76	-	1.9	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.284	< 1	< 3
	QUL-66-45M	2014 10 08	8.8	19.9	< 30	2.19	11.5	0.684	1.86	0.1	0.31	9.13	< 0.1	< 10	< 0.01	< 0.5	< 0.1	3.2	< 0.05	0.82	-	2.18	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.308	< 1	< 3

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[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.

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

[j] Guideline not applicable for site situation.

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			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	0.016-0.079[d]	n/a	1 (Cr(+6))	110	6.0-27.9[d]	1,000	27.3-297.3[d]	870	n/a	1001-3582[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	33-172.5[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	2-11[d]	n/a	4.4-14.9[d]	14[i]	n/a	791.1-1819[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	7.5-147[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	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-23	QUL-23	2014 10 01	30.1	< 0.1	0.12	4.9	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	1.08	60	< 0.05	0.71	1,810	1.72	-	0.277	< 0.5	458	< 0.5	1,370	< 0.01	841	< 0.01	< 0.1	< 10	0.153	< 1	< 3
	QUL-23	2014 10 07	86	< 0.1	0.15	6.53	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	**2.35**	78	0.056	0.53	1,890	3.6	-	0.393	< 0.5	486	< 0.5	1,550	< 0.01	871	< 0.01	< 0.1	< 10	0.159	< 1	< 3
QUL-31a	QUL-31A-0M	2014 10 07	16	< 0.1	0.1	4.67	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	0.63	< 30	< 0.05	0.55	1,760	0.991	-	0.239	< 0.5	413	< 0.5	1,330	< 0.01	744	< 0.01	< 0.1	< 10	0.148	< 1	< 3
	QUL-31A-40M	2014 10 07	***246***	< 0.1	0.22	11.8	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	**5.92**	110	0.095	0.69	1,990	8.41	-	0.852	< 0.5	621	< 0.5	2,190	< 0.01	1,170	< 0.01	< 0.1	12	0.212	< 1	< 3
	QUL-31A-80M	2014 10 07	***135***	< 0.1	0.17	8.27	< 0.1	< 0.5	< 10	< 0.01	18,000	< 0.5	< 0.1	**3.33**	67	0.053	0.71	1,990	5.19	-	0.517	< 0.5	545	< 0.5	1,950	< 0.01	1,010	< 0.01	< 0.1	< 10	0.182	< 1	< 3
	QUL-31AX-80M	2014 10 07	***160***	< 0.1	0.15	9.24	< 0.1	< 0.5	< 10	< 0.01	18,300	< 0.5	< 0.1	**3.48**	83	0.07	1.38	2,070	5.44	-	0.53	< 0.5	591	< 0.5	2,040	< 0.01	1,050	< 0.01	< 0.1	< 10	0.187	< 1	< 3
	QA/QC RPD %		17	*	*	11	*	*	*	*	2	*	*	*	*	*	*	4	*	-	3	*	8	*	5	*	4	*	*	*	3	*	*
	QUL-31A-0M	2014 10 13	24.2	< 0.1	0.11	5.28	< 0.1	< 0.5	< 10	< 0.01	17,600	< 0.5	< 0.1	0.93	< 30	< 0.05	< 0.5	1,950	1.06	-	0.307	< 0.5	470	< 0.5	1,420	< 0.01	835	< 0.01	< 0.1	< 10	0.161	< 1	< 3
	QUL-31A-40M	2014 10 13	***346***	< 0.1	0.26	14.8	< 0.1	< 0.5	< 10	< 0.01	18,500	< 0.5	< 0.1	**7.26**	151	0.154	< 0.5	2,140	10.2	-	1.04	< 0.5	714	< 0.5	2,520	< 0.01	1,280	< 0.01	< 0.1	15	0.219	< 1	< 3
	QUL-31A-80M	2014 10 13	***113***	< 0.1	0.12	7.71	< 0.1	< 0.5	< 10	< 0.01	18,600	< 0.5	< 0.1	**2.44**	55	0.06	< 0.5	2,100	3.6	-	0.464	< 0.5	536	< 0.5	1,950	< 0.01	993	< 0.01	< 0.1	< 10	0.173	< 1	< 3
QUL-36	QUL-36-3M	2014 10 10	45.1	< 0.1	0.12	5.99	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	1.56	40	0.058	0.79	1,960	1.99	-	0.357	< 0.5	471	< 0.5	1,500	< 0.01	862	< 0.01	< 0.1	< 10	0.164	< 1	< 3
QUL-38	QUL-38	2014 10 03	53.2	< 0.1	0.14	5.91	< 0.1	< 0.5	< 10	< 0.01	17,600	< 0.5	< 0.1	1.62	54	< 0.05	0.61	1,980	3.1	-	0.308	< 0.5	486	< 0.5	1,490	< 0.01	862	< 0.01	< 0.1	< 10	0.153	< 1	< 3
QUL-40	QUL-40-0M	2014 09 29	18.5	< 0.1	0.12	4.85	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	0.68	< 30	< 0.05	0.9	1,870	1.28	-	0.267	< 0.5	444	< 0.5	1,370	< 0.01	771	< 0.01	< 0.1	< 10	0.156	< 1	< 3
	QUL-40-40M	2014 09 29	***364***	< 0.1	0.27	14.7	< 0.1	< 0.5	< 10	< 0.01	19,200	< 0.5	0.12	**8.01**	159	0.138	1.14	2,200	12	-	1.04	< 0.5	728	< 0.5	2,570	< 0.01	1,320	< 0.01	< 0.1	15	0.23	< 1	< 3
	QUL-40-80M	2014 09 29	***162***	< 0.1	0.17	9.31	< 0.1	< 0.5	< 10	< 0.01	18,300	< 0.5	< 0.1	**4.09**	83	0.076	1.02	2,080	6.77	-	0.562	< 0.5	557	< 0.5	2,030	< 0.01	1,030	< 0.01	< 0.1	11	0.189	< 1	< 3
	QUL-40-0M	2014 10 06	16.1	< 0.1	< 0.1	4.73	< 0.1	< 0.5	< 10	< 0.01	16,900	< 0.5	< 0.1	0.67	< 30	< 0.05	< 0.5	1,810	1.29	-	0.259	< 0.5	407	< 0.5	1,340	< 0.01	785	< 0.01	< 0.1	< 10	0.143	< 1	< 3
	QUL-40-40M	2014 10 06	***183***	< 0.1	0.2	10.3	< 0.1	< 0.5	< 10	< 0.01	18,500	< 0.5	< 0.1	**5.44**	90	0.09	0.57	2,020	7.81	-	0.896	< 0.5	584	< 0.5	2,080	< 0.01	1,190	< 0.01	< 0.1	< 10	0.209	< 1	< 3
	QUL-40-80M	2014 10 06	***137***	< 0.1	0.18	8.53	< 0.1	< 0.5	< 10	< 0.01	18,200	< 0.5	< 0.1	**3.52**	71	0.056	0.61	2,010	5.31	-	0.557	< 0.5	528	< 0.5	1,960	< 0.01	1,050	< 0.01	< 0.1	< 10	0.18	< 1	< 3
	QUL-40-0M	2014 10 13	34	< 0.1	0.12	5.57	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	1.03	< 30	< 0.05	< 0.5	1,940	1.57	-	0.341	< 0.5	473	< 0.5	1,410	< 0.01	854	< 0.01	< 0.1	< 10	0.173	< 1	< 3
	QUL-40-40M	2014 10 13	***605***	< 0.1	0.39	22.2	< 0.1	< 0.5	< 10	< 0.01	19,300	< 0.5	0.16	**11.4**	237	0.226	< 0.5	2,240	17.3	-	1.68	< 0.5	920	< 0.5	3,170	< 0.01	1,610	< 0.01	< 0.1	23	0.301	1	< 3
	QUL-40-80M	2014 10 13	***162***	< 0.1	0.17	9.73	< 0.1	< 0.5	< 10	< 0.01	18,700	< 0.5	< 0.1	**4.01**	78	0.098	< 0.5	2,130	5.77	-	0.632	< 0.5	579	< 0.5	2,060	< 0.01	1,100	< 0.01	< 0.1	< 10	0.196	< 1	< 3
QUL-40A	QUL-40A-0M	2014 10 06	18.9	< 0.1	0.11	4.94	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	0.93	< 30	< 0.05	< 0.5	1,840	1.29	-	0.249	< 0.5	429	< 0.5	1,380	< 0.01	822	< 0.01	< 0.1	< 10	0.145	< 1	3.2
	QUL-40A-40M	2014 10 06	***634***	0.12	0.48	25	< 0.1	< 0.5	< 10	< 0.01	19,500	< 0.5	0.19	**17**	288	0.267	0.92	2,200	25.8	-	2.38	< 0.5	930	< 0.5	3,220	< 0.01	1,930	0.011	< 0.1	25	0.329	1.2	< 3
	QUL-40A-80M	2014 10 06	***196***	< 0.1	0.19	10.3	< 0.1	< 0.5	< 10	< 0.01	18,700	< 0.5	< 0.1	**4.71**	98	0.086	0.7	2,060	7.03	-	0.73	< 0.5	587	< 0.5	2,170	< 0.01	1,140	< 0.01	< 0.1	10	0.189	< 1	< 3
	QUL-40A-0M	2014 10 11	18.9	< 0.1	0.11	5.09	< 0.1	< 0.5	< 10	< 0.01	17,100	< 0.5	< 0.1	0.77	< 30	< 0.05	0.93	1,900	1.04	-	0.325	< 0.5	460	< 0.5	1,370	< 0.01	815	< 0.01	< 0.1	< 10	0.166	< 1	< 3
	QUL-40A-120M	2014 10 11	***154***	< 0.1	0.16	9.19	< 0.1	< 0.5	< 10	< 0.01	18,400	< 0.5	< 0.1	**3.88**	80	0.066	0.98	2,090	5.84	-	0.637	< 0.5	553	< 0.5	2,050	< 0.01	1,030	< 0.01	< 0.1	< 10	0.198	< 1	< 3
	QUL-40A-40M	2014 10 11	***476***	< 0.1	0.33	19.8	< 0.1	< 0.5	< 10	< 0.01	19,100	< 0.5	0.13	**10.4**	219	0.185	1.14	2,220	15.7	-	1.55	< 0.5	828	< 0.5	3,000	< 0.01	1,510	< 0.01	< 0.1	19	0.28	< 1	< 3
	QUL-40A-80M	2014 10 11	***143***	< 0.1	0.16	9.07	< 0.1	< 0.5	< 10	< 0.01	18,600	< 0.5	< 0.1	**3.96**	75	0.065	0.98	2,110	5.89	-	0.66	< 0.5	568	< 0.5	2,020	< 0.01	1,090	< 0.01	< 0.1	< 10	0.205	< 1	< 3
QUL-66	QUL-66-0M	2014 09 29	49.9	< 0.1	0.14	5.35	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	1.34	52	< 0.05	0.95	1,910	2.13	-	0.396	< 0.5	458	< 0.5	1,460	< 0.01	805	< 0.01	< 0.1	< 10	0.164	< 1	< 3
	QUL-66-40M	2014 09 29	***2,260***	0.27	1.12	66	< 0.1	< 0.5	< 10	0.015	22,100	0.97	0.65	**42**	***967***	0.811	2.01	2,800	***71.3***	-	5.07	1.12	2,020	< 0.5	7,090	0.017	3,370	< 0.01	< 0.1	81	0.596	3.9	4
	QUL-66-50M	2014 09 29	***2,960***	0.29	1.4	84.9	< 0.1	< 0.5	< 10	0.019	22,800	**1.19**	0.85	**55**	***1,230***	0.954	2.17	2,990	***89.1***	-	6.03	1.31	2,470	< 0.5	8,480	0.02	4,060	< 0.01	< 0.1	103	0.657	5.1	5.4
	QUL-66-0M	2014 10 01	26.1	< 0.1	0.11	5.01	< 0.1	< 0.5	< 10	< 0.01	16,800	< 0.5	< 0.1	1.02	< 30	< 0.05	0.54	1,840	1.47	-	0.273	< 0.5	456	< 0.5	1,380	< 0.01	840	< 0.01	< 0.1	< 10	0.152	< 1	< 3
	QUL-66-40M	2014 10 01	***2,720***	0.3	1.33	77.8	< 0.1	< 0.5	< 10	**0.033**	22,100	**1.16**	0.79	**52.9**	***1,190***	0.943	1.68	2,820	***89.2***	-	5.95	1.25	2,380	< 0.5	7,800	0.018	4,060	0.01	0.11	91	0.658	4.6	5.3
	QUL-66X-40M	2014 10 01	***2,720***	0.3	1.43	77.8	< 0.1	< 0.5	< 10	0.022	22,800	**1.14**	0.81	**53.7**	***1,230***	0.961	1.67	2,910	***89.5***	-	6.15	1.29	2,410	< 0.5	8,040	0.018	4,130	0.011	0.11	94	0.673	4.6	5.6
	QA/QC RPD %		0	*	7	0	*	*	*	*	3	*	3	2	3	2	*	3	< 1	-	3	*	1	*	3	*	2	*	*	3	2	*	*
	QUL-66-50M	2014 10 01	***3,150***	0.29	1.55	85.6	< 0.1	< 0.5	< 10	0.018	22,700	**1.27**	0.92	**58.7**	***1,320***	0.993	1.79	2,950	***98.2***	-	6.38	1.36	2,720	0.5	9,040	0.018	4,450	0.013	< 0.1	104	0.71	5.3	4.8
	QUL-66-0M	2014 10 08	60.2	< 0.1	0.15	6.44	< 0.1	< 0.5	< 10	< 0.01	17,500	< 0.5	< 0.1	2.09	62	0.069	0.77	1,910	3.08	-	0.347	< 0.5	479	< 0.5	1,530	< 0.01	912	< 0.01	< 0.1	< 10	0.16	< 1	< 3
	QUL-66-40M	2014 10 08	***757***	0.12	0.47	24	< 0.1	< 0.5	< 10	< 0.01	18,500	0.56	0.28	**14.2**	***446***	0.27	0.99	2,200	24.9	-	1.96	0.76	968	< 0.5	3,310	< 0.01	1,800	< 0.01	< 0.1	27	0.303	1.6	< 3
	QUL-66-45M	2014 10 08	***883***	0.13	0.53	28.5	< 0.1	< 0.5	< 10	< 0.01	18,800	0.62	0.31	**16.5**	***511***	0.332	1.08	2,220	28.3	-	2.3	0.89	1,050	< 0.5	3,720	< 0.01	1,940	< 0.01	< 0.1	32	0.335	1.8	< 3

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 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 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		Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	5,680-18,400[d]	32,800	60-600[d]	32,800[f]	600	988.2-1742[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	+/-1 Degree change from ambient	Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	1,090-1,770[d]	3,000	20-200[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	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	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a
QUL-66A	QUL-66A-0M	2014 10 01	50.2	7.9	7.67	14.4	0.86	100	67	< 3	1.83	-	0.118	< 5	54.2	< 1	-	< 0.5	35	6.02	49	-	< 0.001	< 0.002[a]
	QUL-66A-40M	2014 10 01	62.1	7.66	7.61	6.2	38	136	99	12.6	1.9	-	0.283	34.6	180	1.2	-	0.62	60	13.6	57.6	-	< 0.001	**0.0023**
	QUL-66A-80M	2014 10 01	67.2	7.81	7.73	6.6	65.8	152	106	10.6	1.99	-	0.333	53.4	200	3.3	-	0.8	86	17.7	62.3	-	0.0017	**0.004**
	QUL-66A-0M	2014 10 08	51.8	8.1	7.87	13.5	1.04	104	69	< 3	1.86	-	0.116	< 5	64.4	< 1	-	< 0.5	35	6.17	48.4	-	< 0.001	< 0.002[a]
	QUL-66A-40M	2014 10 08	58.2	7.8	7.69	5.8	11.3	120	82	5.7	1.72	-	0.204	13.2	158	< 1	-	< 0.5	48	9.45	51.1	-	< 0.001	< 0.002[a]
	QUL-66A-80M	2014 10 08	69	8	7.88	6.5	59.4	154	117	8	2.03	-	0.306	47.2	205	5.5	-	0.58	77	17.6	60.3	-	0.0018	**0.003**
QUL-79	QUL-79-0M	2014 09 30	51.4	8.23	7.03	14.6	0.53	104	60	< 3	1.86	-	0.125	< 5	57.6	< 1	-	< 0.5	34	6.07	53.2	-	< 0.001	**0.0024**
	QUL-79-20M	2014 09 30	56	7.9	6.91	5.7	6.82	130	66	3	1.9	-	0.216	6.2	158	4.5	-	< 0.5	44	7.73	54.5	-	< 0.001	< 0.002[a]
	QUL-79-40M	2014 09 30	54.3	7.82	7.03	4	0.86	111	66	< 3	1.82	-	0.196	< 5	156	4.2	-	< 0.5	41	6.47	52.2	-	< 0.001	< 0.002[a]
	QUL-79-50M	2014 09 30	54.3	7.81	7.04	4	1.99	111	72	< 3	1.81	-	0.204	< 5	149	< 1	-	< 0.5	37	6.57	52.1	-	< 0.001	< 0.002[a]
	QUL-79-0M	2014 10 04	51.7	8.18	7.86	13.2	0.55	101	65	< 3	1.73	-	0.134	< 5	62.3	< 1	-	< 0.5	35	6.1	48.5	-	< 0.001	< 0.002[a]
	QUL-79-40M	2014 10 04	49.5	7.86	7.85	9.1	6.46	110	71	< 3	2	-	0.173	5.6	107	< 1	-	< 0.5	40	7.37	51.9	-	< 0.001	< 0.002[a]
	QUL-79-0M	2014 10 07	49.8	7.99	7.86	-	0.7	102	68	< 3	1.82	-	0.13	< 5	62.2	< 1	-	< 0.5	35	6.15	50.1	-	< 0.001	< 0.002[a]
	QUL-79-40M	2014 10 07	54.4	7.64	7.84	-	5.94	112	76	< 3	1.67	-	0.2	5.6	148	< 1	-	< 0.5	41	7.38	53.8	-	< 0.001	< 0.002[a]
	QUL-79-55M	2014 10 07	53.8	7.6	7.84	-	3.59	110	74	< 3	1.73	-	0.193	< 5	147	< 1	-	< 0.5	39	6.9	52.9	-	< 0.001	< 0.002[a]
	QUL-79-0M	2014 10 09	51.8	8.13	7.88	14	0.41	104	74	25.2	1.96	-	0.118	< 5	61.4	< 1	-	< 0.5	35	6.04	48.1	-	< 0.001	< 0.002[a]
	QUL-79-40M	2014 10 09	57.5	7.77	7.85	5.5	10.2	118	86	5.1	1.8	-	0.208	12.2	154	< 1	-	< 0.5	46	8.77	51.9	-	< 0.001	< 0.002[a]
	QUL-79-55M	2014 10 09	55	7.73	7.82	4.4	3.1	111	77	< 3	1.75	-	0.173	< 5	148	< 1	-	< 0.5	39	6.84	50	-	< 0.001	< 0.002[a]
	QUL-79-0M	2014 10 14	50	-	7.32	-	0.47	104	68	< 3	1.7	-	0.135	< 5	69.2	< 1	-	< 0.5	34	6.04	48.3	-	< 0.001	< 0.002[a]
	QUL-79-40M	2014 10 14	55.2	-	7.42	-	8.08	116	80	< 3	1.76	-	0.214	6.8	148	< 1	-	< 0.5	43	8.08	53.1	-	< 0.001	< 0.002[a]
	QUL-79-55M	2014 10 14	54.8	-	7.44	-	8.61	113	74	6.5	1.75	-	0.243	< 5	150	< 1	-	< 0.5	40	7.25	52.8	-	< 0.001	< 0.002[a]
QUL-81	QUL-81	2014 10 10	52.7	8.06	7.15	12.6	1.11	104	68	< 3	1.83	-	0.114	< 5	62.5	< 1	-	< 0.5	33	6.29	50.4	-	< 0.001	**0.0021**
QUL-87	QUL-87-0M	2014 09 30	51.6	8.21	7.03	14.7	0.35	103	61	< 3	2.05	-	0.143	< 5	57.1	< 1	-	< 0.5	35	6.03	49.5	-	< 0.001	< 0.002[a]
	QUL-87-40M	2014 09 30	54.1	7.71	7.03	5.4	0.73	107	65	< 3	1.96	-	0.201	< 5	150	< 1	-	< 0.5	36	6.14	51.6	-	< 0.001	< 0.002[a]
	QUL-87-50M	2014 09 30	53.2	7.7	7.06	5.3	0.58	108	62	< 3	1.93	-	0.211	< 5	154	< 1	-	< 0.5	36	6.11	51.8	-	< 0.001	< 0.002[a]
	QUL-87-0M	2014 10 06	51.5	7.98	7.87	-	0.58	102	67	< 3	1.91	-	0.126	< 5	57.9	< 1	-	< 0.5	35	6.09	49.9	-	< 0.001	< 0.002[a]
	QUL-87-40M	2014 10 06	53.9	7.57	7.79	-	1.56	107	68	< 3	1.92	-	0.313	< 5	153	< 1	-	< 0.5	38	6.38	51.4	-	< 0.001	< 0.002[a]
	QUL-87X-40M	2014 10 06	54.1	7.57	7.8	-	1.79	107	70	< 3	2.04	-	0.196	< 5	152	< 1	-	< 0.5	38	6.38	51	-	< 0.001	< 0.002[a]
	QA/QC RPD %		< 1	0	< 1	-	14	0	3	*	*	-	*	*	< 1	*	-	*	*	0	< 1	-	*	*
	QUL-87-50M	2014 10 06	53.9	7.5	7.8	-	2.03	108	72	< 3	1.96	-	0.205	< 5	158	< 1	-	< 0.5	37	6.49	51.8	-	< 0.001	< 0.002[a]
	QUL-87-0M	2014 10 13	51.7	8.24	7.37	12.7	0.42	102	69	< 3	1.87	-	0.133	< 5	57.2	< 1	-	< 0.5	31	6.11	51.7	-	< 0.001	< 0.002[a]
	QUL-87-40M	2014 10 13	54.1	7.78	7.32	5.5	2.61	107	71	< 3	1.97	-	0.209	< 5	154	< 1	-	< 0.5	34	6.58	52.1	-	< 0.001	< 0.002[a]
	QUL-87-50M	2014 10 13	54.2	7.66	7.34	5.4	2.54	107	72	< 3	2.02	-	0.213	< 5	158	< 1	-	< 0.5	34	6.58	52	-	< 0.001	< 0.002[a]
QUL-94	QUL-94	2014 10 10	52.6	8.06	7.14	12.6	1.09	103	66	< 3	1.89	-	0.116	< 5	62.6	< 1	-	< 0.5	34	6.28	51.1	-	< 0.001	**0.0024**
	QUL-94-TAP	2014 10 10	434	-	7.62	-	< 0.1	781	***518***	< 3	1.01	-	3.97	< 5	**4,550**	< 10	-	29.5	< 200	36.2	351	-	0.0119	***0.0125***
QUL-103	QUL-103	2014 10 11	51.5	8.26	7.17	13.1	0.66	103	72	< 3	1.85	-	0.129	< 5	60.7	< 1	-	< 0.5	34	6.2	50.7	-	< 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.

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[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 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)	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]			30-100[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]			50-1000[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	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	n/a
QUL-66A	QUL-66A-0M	2014 10 01	9	17.1	< 30	1.84	0.125	0.462	0.85	< 0.1	< 0.1	4.89	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.61	< 0.05	0.63	-	0.273	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.148	< 1	< 3
	QUL-66A-40M	2014 10 01	**53**	21.1	< 30	2.3	33.8	0.977	3.03	0.19	0.56	13.9	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.31	< 0.05	0.82	-	4.62	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.493	< 1	< 3
	QUL-66A-80M	2014 10 01	**73.2**	22.8	< 30	2.48	58.4	1.21	4.09	0.29	0.87	16.8	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.91	< 0.05	0.9	-	6.85	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.689	1.1	< 3
	QUL-66A-0M	2014 10 08	8	17.6	< 30	1.89	0.202	0.449	0.864	< 0.1	0.11	5.18	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.81	< 0.05	0.66	-	0.327	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.152	< 1	< 3
	QUL-66A-40M	2014 10 08	8.8	19.7	< 30	2.16	10.4	0.656	1.77	< 0.1	0.3	8.62	< 0.1	< 10	< 0.01	< 0.5	< 0.1	3.09	< 0.05	0.8	-	1.97	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.283	< 1	< 3
	QUL-66A-80M	2014 10 08	15.4	23.5	< 30	2.53	55.9	1.14	3.93	0.3	0.77	16.4	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.51	< 0.05	0.97	-	6.59	< 0.5	0.51	< 0.01	< 0.01	< 10	0.672	< 1	< 3
QUL-79	QUL-79-0M	2014 09 30	8.3	17.5	< 30	1.9	0.114	0.453	0.814	< 0.1	< 0.1	4.95	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.57	< 0.05	0.73	-	0.266	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.148	< 1	< 3
	QUL-79-20M	2014 09 30	6.1	19	< 30	2.11	4.03	0.541	1.23	< 0.1	0.17	6.62	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.92	< 0.05	1	-	0.998	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.216	< 1	< 3
	QUL-79-40M	2014 09 30	4.5	18.3	< 30	2.05	0.275	0.482	0.922	< 0.1	< 0.1	5.02	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.65	< 0.05	0.92	-	0.322	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.164	< 1	< 3
	QUL-79-50M	2014 09 30	4.8	18.4	< 30	2.04	1.05	0.483	0.976	< 0.1	< 0.1	5.15	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.83	< 0.05	1.04	-	0.423	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.17	< 1	< 3
	QUL-79-0M	2014 10 04	6.9	17.5	< 30	1.94	0.107	0.435	0.785	< 0.1	< 0.1	4.71	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.8	-	0.262	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.146	< 1	< 3
	QUL-79-40M	2014 10 04	6.1	16.7	< 30	1.88	4.39	0.599	1.32	< 0.1	0.17	7.04	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.21	< 0.05	0.82	-	1.08	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.138	< 1	< 3
	QUL-79-0M	2014 10 07	8.1	16.9	< 30	1.8	0.143	0.455	0.824	< 0.1	< 0.1	4.86	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.71	-	0.261	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.148	< 1	< 3
	QUL-79-40M	2014 10 07	6.4	18.5	< 30	2.01	3.51	0.545	1.19	< 0.1	0.17	6.29	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.41	< 0.05	0.97	-	0.848	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.205	< 1	< 3
	QUL-79-55M	2014 10 07	6	18.3	< 30	1.99	1.78	0.526	1.07	< 0.1	0.12	5.68	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.2	< 0.05	0.7	-	0.554	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.178	< 1	< 3
	QUL-79-0M	2014 10 09	9.2	17.5	< 30	1.94	0.206	0.491	0.85	< 0.1	< 0.1	4.84	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.58	< 0.05	< 0.5	-	0.277	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.148	< 1	< 3
	QUL-79-40M	2014 10 09	9.2	19.4	< 30	2.17	8.62	0.651	1.67	< 0.1	0.25	7.84	< 0.1	< 10	0.012	< 0.5	< 0.1	2.7	< 0.05	< 0.5	-	1.71	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.274	< 1	< 3
	QUL-79-55M	2014 10 09	6.5	18.6	< 30	2.09	1.84	0.539	1.12	< 0.1	0.13	5.75	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.44	< 0.05	< 0.5	-	0.647	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.181	< 1	< 3
	QUL-79-0M	2014 10 14	7.7	17	< 30	1.86	0.074	0.45	0.839	< 0.1	< 0.1	4.87	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.55	< 0.05	0.78	-	0.291	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.147	< 1	< 3
	QUL-79-40M	2014 10 14	8	18.7	< 30	2.07	5.05	0.612	1.53	< 0.1	0.22	7.92	< 0.1	< 10	< 0.01	< 0.5	< 0.1	2.65	< 0.05	1.09	-	1.38	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.233	< 1	< 3
	QUL-79-55M	2014 10 14	7.6	18.5	< 30	2.06	2.38	0.544	1.24	< 0.1	0.16	6.69	< 0.1	< 10	0.011	< 0.5	< 0.1	1.82	0.071	1.03	-	0.871	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.201	< 1	< 3
QUL-81	QUL-81	2014 10 10	37.6	17.8	< 30	1.97	2.05	0.476	0.873	< 0.1	0.12	5.96	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.45	< 0.05	0.78	-	0.305	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.143	< 1	< 3
QUL-87	QUL-87-0M	2014 09 30	8	17.5	< 30	1.91	0.112	0.447	0.807	< 0.1	< 0.1	4.71	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	1	-	0.3	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.156	< 1	< 3
	QUL-87-40M	2014 09 30	5.2	18.3	< 30	2.06	0.218	0.482	0.927	< 0.1	< 0.1	4.97	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.63	< 0.05	1.07	-	0.299	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.153	< 1	< 3
	QUL-87-50M	2014 09 30	5	17.9	< 30	2.04	0.181	0.476	0.918	< 0.1	< 0.1	4.82	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.57	< 0.05	0.97	-	0.3	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3
	QUL-87-0M	2014 10 06	7.9	17.6	< 30	1.87	0.147	0.432	0.858	< 0.1	< 0.1	4.78	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.51	< 0.05	0.68	-	0.249	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.14	< 1	< 3
	QUL-87-40M	2014 10 06	5.7	18.3	< 30	2.02	0.644	0.468	0.986	< 0.1	0.1	5.18	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.76	< 0.05	0.72	-	0.376	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.146	< 1	< 3
	QUL-87X-40M	2014 10 06	6	18.3	< 30	2.01	0.784	0.477	0.99	< 0.1	< 0.1	5.28	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.86	< 0.05	0.69	-	0.366	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.148	< 1	< 3
	QA/QC RPD %		*	0	*	< 1	20	2	< 1	*	*	2	*	*	*	*	*	*	*	*	-	3	*	*	*	*	*	1	*	*
	QUL-87-50M	2014 10 06	5.3	18.3	< 30	2.01	0.894	0.477	1.01	< 0.1	0.12	5.4	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.94	< 0.05	0.73	-	0.43	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.144	< 1	< 3
	QUL-87-0M	2014 10 13	7.6	17.5	< 30	1.93	0.113	0.45	0.806	< 0.1	< 0.1	5.08	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.6	< 0.05	< 0.5	-	0.293	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.15	< 1	< 3
	QUL-87-40M	2014 10 13	6.1	18.3	< 30	2.06	0.734	0.506	1.02	< 0.1	0.13	5.63	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.04	< 0.05	< 0.5	-	0.515	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.165	< 1	< 3
	QUL-87-50M	2014 10 13	6	18.3	< 30	2.08	0.664	0.49	0.994	< 0.1	0.1	5.55	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.9	< 0.05	< 0.5	-	0.498	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.166	< 1	< 3
QUL-94	QUL-94	2014 10 10	7.1	17.9	< 30	1.94	0.193	0.454	0.859	< 0.1	0.16	5.49	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.93	< 0.05	0.9	-	0.36	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.158	< 1	< 3
	QUL-94-TAP	2014 10 10	< 3	145	< 30	17.3	0.53	1.65	12	0.23	0.62	34.5	< 0.1	30	0.032	< 0.5	< 0.1	43.4	1.91	1.89	-	0.627	2.22	3.33	< 0.01	< 0.01	17	0.687	< 1	125
QUL-103	QUL-103	2014 10 11	8.1	17.5	< 30	1.92	0.207	0.454	0.83	< 0.1	0.18	5.09	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.58	< 0.05	1.05	-	0.303	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.162	< 1	< 3

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

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

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[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 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	0.016-0.079[d]	n/a	1 (Cr(+6))	110	6.0-27.9[d]	1,000	27.3-297.3[d]	870	n/a	1001-3582[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	33-172.5[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	2-11[d]	n/a	4.4-14.9[d]	14[i]	n/a	791.1-1819[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	7.5-147[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	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-66A	QUL-66A-0M	2014 10 01	38.9	< 0.1	0.12	5.34	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	1.21	31	< 0.05	0.51	1,900	1.7	-	0.254	< 0.5	465	< 0.5	1,450	< 0.01	858	< 0.01	< 0.1	< 10	0.145	< 1	< 3
	QUL-66A-40M	2014 10 01	***1,670***	0.25	1.02	50.8	< 0.1	< 0.5	< 10	0.013	21,500	0.78	0.54	**37.9**	***781***	0.664	1.45	2,640	***63.1***	-	4.58	0.92	1,690	< 0.5	5,310	0.015	3,250	0.011	< 0.1	60	0.538	3.1	3.6
	QUL-66A-80M	2014 10 01	***2,660***	0.32	1.55	78.5	< 0.1	< 0.5	10	0.02	23,900	**1.12**	0.87	**62.1**	***1,300***	1.03	1.81	3,080	***105***	-	6.84	1.36	2,400	0.55	7,820	0.017	4,510	0.011	0.12	99	0.756	5	4.9
	QUL-66A-0M	2014 10 08	49.5	< 0.1	0.14	6.15	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	1.45	37	< 0.05	0.66	1,960	2.04	-	0.375	< 0.5	470	< 0.5	1,560	< 0.01	894	< 0.01	< 0.1	< 10	0.171	< 1	< 3
	QUL-66A-40M	2014 10 08	***946***	0.12	0.54	30.8	< 0.1	< 0.5	< 10	< 0.01	20,000	0.52	0.29	**16.7**	***471***	0.329	1.13	2,360	26.9	-	2.3	0.71	1,130	< 0.5	4,050	< 0.01	1,980	< 0.01	< 0.1	33	0.342	1.8	< 3
	QUL-66A-80M	2014 10 08	***2,890***	0.32	1.49	86.1	< 0.1	< 0.5	12	0.018	22,900	**1.16**	0.76	**53.7**	***1,210***	0.952	1.82	2,900	***96.5***	-	6.78	1.19	2,520	0.5	8,670	0.02	4,320	0.012	< 0.1	100	0.749	5	4.5
QUL-79	QUL-79-0M	2014 09 30	25.5	< 0.1	0.12	5.12	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	0.85	< 30	< 0.05	0.77	1,900	1.35	-	0.273	< 0.5	447	< 0.5	1,410	< 0.01	817	< 0.01	< 0.1	< 10	0.155	< 1	< 3
	QUL-79-20M	2014 09 30	***376***	< 0.1	0.27	15.4	< 0.1	< 0.5	< 10	< 0.01	18,800	< 0.5	0.11	**7.85**	178	0.132	0.95	2,180	12.1	-	1.08	< 0.5	732	< 0.5	2,640	< 0.01	1,300	< 0.01	< 0.1	16	0.235	< 1	< 3
	QUL-79-40M	2014 09 30	41.2	< 0.1	0.1	5.54	< 0.1	< 0.5	< 10	< 0.01	18,400	< 0.5	< 0.1	1.12	< 30	< 0.05	0.91	2,060	1.86	-	0.305	< 0.5	480	< 0.5	1,720	< 0.01	915	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUL-79-50M	2014 09 30	***106***	< 0.1	0.14	7.32	< 0.1	< 0.5	< 10	< 0.01	18,200	< 0.5	< 0.1	**2.42**	55	< 0.05	0.85	2,070	3.58	-	0.423	< 0.5	535	< 0.5	1,900	< 0.01	993	< 0.01	< 0.1	< 10	0.174	< 1	< 3
	QUL-79-0M	2014 10 04	19.2	< 0.1	0.11	5.08	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	0.73	< 30	< 0.05	0.63	1,930	1.2	-	0.336	< 0.5	451	< 0.5	1,390	< 0.01	848	< 0.01	< 0.1	< 10	0.151	< 1	< 3
	QUL-79-40M	2014 10 04	***385***	< 0.1	0.25	14.8	< 0.1	< 0.5	< 10	< 0.01	18,500	< 0.5	< 0.1	**6.1**	150	0.094	0.87	2,110	10	-	1.03	< 0.5	710	< 0.5	2,520	< 0.01	1,290	< 0.01	< 0.1	15	0.212	< 1	< 3
	QUL-79-0M	2014 10 07	19	< 0.1	0.11	5	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	0.73	< 30	< 0.05	0.52	1,830	1.14	-	0.278	< 0.5	455	< 0.5	1,380	< 0.01	825	< 0.01	< 0.1	< 10	0.156	< 1	< 3
	QUL-79-40M	2014 10 07	***213***	< 0.1	0.22	11.3	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	< 0.1	**6.01**	96	0.098	0.63	1,980	9.15	-	0.892	< 0.5	620	< 0.5	2,100	< 0.01	1,170	< 0.01	< 0.1	10	0.218	< 1	< 3
	QUL-79-55M	2014 10 07	***170***	< 0.1	0.18	9.7	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	< 0.1	**4.06**	75	0.147	0.68	1,990	6.11	-	0.633	< 0.5	586	< 0.5	2,010	< 0.01	1,090	< 0.01	< 0.1	< 10	0.194	< 1	< 3
	QUL-79-0M	2014 10 09	18.2	< 0.1	0.11	5.1	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	0.84	< 30	< 0.05	< 0.5	1,940	0.943	-	0.281	< 0.5	504	< 0.5	1,370	< 0.01	861	< 0.01	< 0.1	< 10	0.155	< 1	< 3
	QUL-79-40M	2014 10 09	***851***	< 0.1	0.43	26.9	< 0.1	< 0.5	< 10	< 0.01	19,800	< 0.5	0.22	**14.1**	***335***	0.245	< 0.5	2,360	22.7	-	1.86	0.59	1,060	< 0.5	3,670	< 0.01	1,840	< 0.01	< 0.1	30	0.304	1.5	< 3
	QUL-79-55M	2014 10 09	***249***	0.13	0.2	11.2	< 0.1	< 0.5	< 10	< 0.01	18,400	< 0.5	< 0.1	**5.09**	108	0.117	< 0.5	2,120	7.64	-	0.732	< 0.5	662	< 0.5	2,180	< 0.01	1,190	0.014	< 0.1	11	0.184	< 1	< 3
	QUL-79-0M	2014 10 14	23.4	< 0.1	0.12	5.41	< 0.1	< 0.5	< 10	< 0.01	16,900	< 0.5	< 0.1	1.01	< 30	< 0.05	0.96	1,860	1.17	-	0.291	< 0.5	461	< 0.5	1,360	< 0.01	847	< 0.01	< 0.1	< 10	0.153	< 1	< 3
	QUL-79-40M	2014 10 14	***561***	0.16	0.39	21.4	< 0.1	< 0.5	< 10	< 0.01	19,300	< 0.5	0.15	**10.6**	208	0.226	1.23	2,220	16.9	-	1.48	0.58	908	< 0.5	3,010	< 0.01	1,660	< 0.01	< 0.1	19	0.268	1.2	< 3
	QUL-79-55M	2014 10 14	***493***	0.14	0.32	16.3	< 0.1	< 0.5	< 10	< 0.01	18,800	< 0.5	0.21	**8.01**	***325***	0.422	1.28	2,200	20.6	-	0.972	0.77	726	< 0.5	2,870	< 0.01	1,270	< 0.01	< 0.1	21	0.235	1.2	< 3
QUL-81	QUL-81	2014 10 10	7.9	< 0.1	0.12	5.51	< 0.1	< 0.5	< 10	0.018	17,600	< 0.5	< 0.1	1.1	< 30	< 0.05	0.72	1,940	0.2	-	0.369	< 0.5	453	< 0.5	1,420	< 0.01	864	< 0.01	< 0.1	< 10	0.161	< 1	< 3
QUL-87	QUL-87-0M	2014 09 30	13.6	< 0.1	0.11	4.84	< 0.1	< 0.5	< 10	< 0.01	17,100	< 0.5	< 0.1	0.55	< 30	< 0.05	0.84	1,880	0.88	-	0.259	< 0.5	450	< 0.5	1,360	< 0.01	821	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUL-87-40M	2014 09 30	42.8	< 0.1	0.12	5.74	< 0.1	< 0.5	< 10	< 0.01	18,100	< 0.5	< 0.1	1.16	< 30	< 0.05	0.88	2,070	2	-	0.31	< 0.5	492	< 0.5	1,840	< 0.01	940	< 0.01	< 0.1	< 10	0.16	< 1	< 3
	QUL-87-50M	2014 09 30	35.1	< 0.1	0.12	5.55	< 0.1	< 0.5	< 10	< 0.01	18,000	< 0.5	< 0.1	1.01	< 30	< 0.05	0.91	2,050	1.76	-	0.304	< 0.5	492	< 0.5	1,850	< 0.01	933	< 0.01	< 0.1	< 10	0.154	< 1	3.4
	QUL-87-0M	2014 10 06	15.2	< 0.1	0.11	4.89	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	0.71	< 30	< 0.05	< 0.5	1,860	1.04	-	0.28	< 0.5	430	< 0.5	1,380	< 0.01	812	< 0.01	< 0.1	< 10	0.148	< 1	< 3
	QUL-87-40M	2014 10 06	79.2	< 0.1	0.13	6.85	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	< 0.1	2.04	43	< 0.05	< 0.5	2,000	3.19	-	0.413	< 0.5	488	< 0.5	1,920	< 0.01	972	< 0.01	< 0.1	< 10	0.154	< 1	< 3
	QUL-87X-40M	2014 10 06	76	< 0.1	0.13	6.39	< 0.1	< 0.5	< 10	< 0.01	16,800	< 0.5	< 0.1	2.03	43	< 0.05	< 0.5	1,870	3.14	-	0.396	< 0.5	454	< 0.5	1,790	< 0.01	921	< 0.01	< 0.1	< 10	0.145	< 1	< 3
	QA/QC RPD %		4	*	*	7	*	*	*	*	6	*	*	*	*	*	*	7	*	-	4	*	7	*	7	*	5	*	*	*	6	*	*
	QUL-87-50M	2014 10 06	92.9	< 0.1	0.15	7.12	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	**2.38**	52	< 0.05	0.54	1,930	3.6	-	0.454	< 0.5	472	< 0.5	1,920	< 0.01	970	< 0.01	< 0.1	< 10	0.16	< 1	< 3
	QUL-87-0M	2014 10 13	20	< 0.1	0.1	5.26	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	0.87	< 30	< 0.05	< 0.5	1,920	1.13	-	0.297	< 0.5	466	< 0.5	1,380	< 0.01	844	< 0.01	< 0.1	< 10	0.165	< 1	< 3
	QUL-87-40M	2014 10 13	***149***	< 0.1	0.16	8.92	< 0.1	< 0.5	< 10	< 0.01	18,000	< 0.5	< 0.1	**3.1**	66	0.113	< 0.5	2,070	4.3	-	0.531	< 0.5	571	< 0.5	2,070	< 0.01	1,060	< 0.01	< 0.1	< 10	0.179	< 1	< 3
	QUL-87-50M	2014 10 13	***137***	< 0.1	0.15	8.7	< 0.1	< 0.5	< 10	< 0.01	18,000	< 0.5	< 0.1	**2.89**	64	0.101	< 0.5	2,090	4.04	-	0.534	< 0.5	552	< 0.5	2,090	< 0.01	1,040	< 0.01	< 0.1	< 10	0.174	< 1	< 3
QUL-94	QUL-94	2014 10 10	50.4	< 0.1	0.14	6.06	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	1.62	50	< 0.05	0.84	1,970	2.43	-	0.401	< 0.5	473	< 0.5	1,520	< 0.01	879	< 0.01	< 0.1	< 10	0.173	< 1	< 3
	QUL-94-TAP	2014 10 10	< 3	0.23	0.59	33.1	< 0.1	< 0.5	32	0.023	144,000	< 0.5	< 0.1	**26.1**	< 30	1.38	1.72	17,300	0.568	-	0.703	1.26	1,640	**2.87**	8,480	< 0.01	12,100	< 0.01	< 0.1	17	0.731	< 1	77.7
QUL-103	QUL-103	2014 10 11	30.8	< 0.1	0.15	5.47	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	1.09	< 30	0.09	0.86	1,910	1.41	-	0.369	< 0.5	479	< 0.5	1,390	< 0.01	859	< 0.01	< 0.1	< 10	0.17	< 1	< 3

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 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 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		Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	5,680-18,400[d]	32,800	60-600[d]	32,800[f]	600	988.2-1742[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	+/-1 Degree change from ambient	Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	1,090-1,770[d]	3,000	20-200[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	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	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a
QUL-107	QUL-107-2M	2014 10 10	52.5	8.05	7.13	12.7	1.01	104	71	< 3	1.79	-	0.126	< 5	62.4	< 1	-	< 0.5	33	6.28	50.4	-	< 0.001	< 0.002[a]
QUL-112	QUL-112-0M	2014 10 01	49.4	7.92	7.68	14	0.49	101	64	< 3	1.97	-	0.132	< 5	60.9	< 1	-	< 0.5	35	6.04	49.2	-	< 0.001	< 0.002[a]
	QUL-112-40M	2014 10 01	51.4	7.5	7.63	4	0.29	106	68	< 3	1.67	-	0.189	< 5	148	< 1	-	< 0.5	38	6.2	51.6	-	< 0.001	**0.0021**
	QUL-112-80M	2014 10 01	51.5	7.46	7.66	3.7	0.2	108	69	< 3	1.67	-	0.189	< 5	148	< 1	-	< 0.5	37	6.25	52.4	-	< 0.001	< 0.002[a]
	QUL-112-0M	2014 10 05	51.9	7.93	7.8	-	0.41	101	65	< 3	2.17	-	0.138	< 5	68.4	< 1	-	< 0.5	35	6.21	42.4	-	< 0.001	< 0.002[a]
	QUL-112-40M	2014 10 05	53	7.6	7.85	-	0.57	106	64	< 3	2.01	-	0.191	< 5	147	< 1	-	< 0.5	37	6.21	47.3	-	< 0.001	< 0.002[a]
	QUL-112-80M	2014 10 05	54.4	7.57	7.87	-	0.3	108	67	< 3	1.94	-	0.18	< 5	148	< 1	-	< 0.5	38	6.38	45.4	-	< 0.001	< 0.002[a]
	QUL-112-0M	2014 10 09	51.9	8.1	7.84	12.8	0.31	104	76	< 3	1.98	-	0.119	< 5	67.7	< 1	-	< 0.5	38	6.06	47.5	-	< 0.001	< 0.002[a]
	QUL-112-40M	2014 10 09	54.1	7.69	7.81	4.2	0.22	109	78	< 3	1.71	-	0.179	< 5	148	< 1	-	< 0.5	38	6.14	49.9	-	< 0.001	< 0.002[a]
	QUL-112-80M	2014 10 09	54.1	7.72	7.83	3.8	0.2	110	77	< 3	1.73	-	0.167	< 5	147	< 1	-	< 0.5	38	6.21	50.3	-	< 0.001	< 0.002[a]
	QUL-112-0M	2014 10 12	52.2	8.08	7.37	13.3	0.42	105	67	< 3	1.84	-	0.13	< 5	70.1	< 1	-	< 0.5	30	6.14	55.6	-	< 0.001	< 0.002[a]
	QUL-112-40M	2014 10 12	54.1	7.71	7.37	4.5	0.36	109	65	< 3	1.95	-	0.192	< 5	148	< 1	-	< 0.5	32	6.21	52.2	-	< 0.001	< 0.002[a]
	QUL-112-80M	2014 10 12	54.3	7.66	7.4	3.86	0.21	110	65	< 3	1.85	-	0.183	< 5	145	< 1	-	< 0.5	33	6.32	51.1	-	< 0.001	< 0.002[a]
	QUL-112X-80M	2014 10 12	54.8	7.71	7.42	4.5	0.23	110	65	< 3	1.61	-	0.199	< 5	145	< 1	-	< 0.5	33	6.3	52.8	-	< 0.001	< 0.002[a]
	QA/QC RPD %		< 1	< 1	< 1	15	*	0	0	*	*	-	*	*	0	*	-	*	*	< 1	3	-	*	*
QUL-113	QUL-113-2M	2014 10 10	51.8	8.16	7.14	13.2	0.5	102	64	< 3	1.86	-	0.114	< 5	58.8	< 1	-	< 0.5	34	6.15	50.3	-	< 0.001	**0.0025**
QUL-119	QUL-119-0M	2014 10 05	51.1	7.92	7.87	-	0.52	102	65	< 3	2.07	-	0.126	< 5	68.5	< 1	-	< 0.5	36	6.21	44.3	-	< 0.001	< 0.002[a]
	QUL-119X-0M	2014 10 05	51.6	7.92	7.9	-	0.44	103	67	< 3	2.06	-	0.126	< 5	69.9	< 1	-	< 0.5	37	6.21	44.2	-	< 0.001	< 0.002[a]
	QA/QC RPD %		< 1	0	< 1	-	*	< 1	3	*	*	-	*	*	2	*	-	*	*	0	< 1	-	*	*
	QUL-119-40M	2014 10 05	53.9	7.6	7.86	-	1.69	108	65	< 3	2.19	-	0.192	< 5	150	< 1	-	< 0.5	36	6.46	46.2	-	< 0.001	< 0.002[a]
	QUL-119-80M	2014 10 05	54.9	7.56	7.85	-	0.53	108	67	< 3	1.99	-	0.181	< 5	149	< 1	-	< 0.5	37	6.41	49.2	-	< 0.001	< 0.002[a]
	QUL-119-0M	2014 10 12	51.9	7.99	7.39	12.3	0.4	105	65	< 3	1.77	-	0.133	< 5	67.9	< 1	-	< 0.5	30	6.17	50.3	-	< 0.001	< 0.002[a]
	QUL-119-40M	2014 10 12	54.1	7.71	7.4	4.7	1.52	109	68	< 3	1.99	-	0.189	< 5	148	< 1	-	< 0.5	33	6.35	51.7	-	< 0.001	< 0.002[a]
	QUL-119-80M	2014 10 12	54	7.63	7.4	3.8	0.23	111	65	< 3	1.68	-	0.174	< 5	146	< 1	-	< 0.5	33	6.33	55.4	-	< 0.001	< 0.002[a]
QUL-120	QUL-120-0M	2014 09 30	51.3	7.64	6.88	14.4	0.44	104	57	< 3	1.9	-	0.16	< 5	59.3	< 1	-	< 0.5	34	6.08	53.5	-	< 0.001	**0.0023**
	QUL-120-40M	2014 09 30	54.3	7.4	7	4.3	0.71	108	66	< 3	2.04	-	0.25	< 5	148	< 1	-	< 0.5	36	6.23	52	-	< 0.001	< 0.002[a]
	QUL-120-80M	2014 09 30	54.9	7.5	7.04	4.3	2.52	111	65	< 3	1.88	-	0.225	9.4	154	< 1	-	< 0.5	38	6.69	53.6	-	< 0.001	< 0.002[a]
	QUL-120-0M	2014 10 06	52	7.33	7.73	-	0.55	102	67	< 3	1.8	-	0.126	< 5	67.3	< 1	-	< 0.5	35	6.14	47.4	-	< 0.001	< 0.002[a]
	QUL-120-40M	2014 10 06	55.1	7.65	7.81	-	7.63	112	78	3.3	1.79	-	0.193	5.2	148	< 1	-	< 0.5	41	7.65	52.5	-	< 0.001	< 0.002[a]
	QUL-120-80M	2014 10 06	54.1	7.63	7.81	-	3.3	109	70	< 3	1.78	-	0.185	< 5	148	< 1	-	< 0.5	38	6.71	52.2	-	0.0011	< 0.002[a]
QUL-120a	QUL-120A-0M	2014 10 11	51.4	8.29	7.15	12.5	0.43	103	67	< 3	1.82	-	0.122	< 5	65.1	< 1	-	< 0.5	34	6.14	51.5	-	< 0.001	**0.0026**
	QUL-120A-40M	2014 10 11	55	7.8	6.87	4.7	6.17	111	76	< 3	1.85	-	0.18	< 5	150	< 1	-	< 0.5	40	7.28	51.8	-	< 0.001	< 0.002[a]
	QUL-120A-80M	2014 10 11	54.7	7.74	7.07	3.8	1.29	108	78	< 3	1.89	-	0.17	< 5	148	< 1	-	< 0.5	37	6.48	53	-	< 0.001	< 0.002[a]
	QUL-120A-120M	2014 10 11	54.6	-	7.1	-	1.39	108	75	< 3	1.79	-	0.172	< 5	150	< 1	-	< 0.5	37	6.55	52.3	-	< 0.001	< 0.002[a]
	QUL-120A-160M	2014 10 11	54.9	-	7.1	-	2.06	108	73	< 3	1.76	-	0.176	< 5	150	< 1	-	< 0.5	38	6.64	54.1	-	< 0.001	< 0.002[a]
	QUL-120AX-160M	2014 10 11	55.1	-	7.11	-	1.93	109	76	< 3	1.68	-	0.172	< 5	151	< 1	-	< 0.5	35	6.63	52.6	-	< 0.001	**0.0022**
	QA/QC RPD %		< 1	-	< 1	-	7	< 1	4	*	*	-	*	*	< 1	*	-	*	*	< 1	3	-	*	*
QUL-131	QUL-131-0M	2014 10 09	55.8	8.04	7.84	13.2	0.31	104	70	< 3	1.86	-	0.116	< 5	66.6	< 1	-	< 0.5	36	6.06	47.8	-	< 0.001	< 0.002[a]
	QUL-131-40M	2014 10 09	51.9	7.77	7.82	6.5	6.3	113	82	3.4	1.82	-	0.186	5.1	149	< 1	-	< 0.5	41	7.43	50.5	-	< 0.001	< 0.002[a]
	QUL-131-80M	2014 10 09	55	7.7	7.82	4.15	0.42	109	79	< 3	1.67	-	0.17	< 5	147	< 1	-	< 0.5	40	6.25	50.2	-	< 0.001	< 0.002[a]
	QUL-131X-80M	2014 10 09	54.9	7.7	7.82	4.15	0.48	109	78	< 3	1.84	-	0.164	< 5	147	< 1	-	< 0.5	38	6.25	50.2	-	< 0.001	< 0.002[a]
	QA/QC RPD %		< 1	0	0	0	*	0	1	*	*	-	*	*	0	*	-	*	*	0	0	-	*	*
QUL-135	QUL-135-TAP	2014 10 11	52.8	-	7.1	-	0.34	104	71	< 3	1.13	-	0.145	< 5	117	< 1	-	< 0.5	36	6.39	49.8	-	0.0023	**0.0046**
QUL-136	QUL-136-0M	2014 10 12	51.9	7.6	7.39	12.3	0.4	105	69	< 3	1.82	-	0.132	< 5	74.4	< 1	-	< 0.5	30	6.17	50.5	-	< 0.001	**0.0021**
	QUL-136-40M	2014 10 12	53.7	7.55	7.27	4.4	0.6	108	72	< 3	1.73	-	0.19	< 5	147	< 1	-	< 0.5	33	6.26	50.7	-	< 0.001	< 0.002[a]
	QUL-136-80M	2014 10 12	55.2	7.48	7.37	3.8	0.29	110	70	< 3	1.64	-	0.19	< 5	147	< 1	-	< 0.5	33	6.32	52.8	-	< 0.001	< 0.002[a]
HOR-1	HOR-1	2014 10 11	48.2	8.35	7.16	9.21	0.55	99.8	74	< 3	2.69	-	0.222	49.3	37.4	7.2	-	< 0.5	37	6.39	52.1	-	0.0014	0.0059
QUL-ZOO-8	QUL-ZOO-8-0M	2014 10 05	51.7	7.9	7.88	-	0.34	102	63	< 3	2.31	-	0.128	< 5	69.7	< 1	-	< 0.5	35	6.21	44.4	-	< 0.001	< 0.002[a]
	QUL-ZOO-8-40M	2014 10 05	53.1	7.53	7.83	-	0.26	107	63	< 3	2.04	-	0.178	< 5	151	< 1	-	< 0.5	38	6.34	46.3	-	< 0.001	< 0.002[a]
	QUL-ZOO-8-80M	2014 10 05	53.5	7.58	7.87	-	0.27	108	64	< 3	1.94	-	0.179	< 5	147	< 1	-	< 0.5	35	6.39	46.6	-	< 0.001	< 0.002[a]
QUL-ZOO-8a	QUL-ZOO-8A-0M	2014 10 09	52.1	7.97	7.69	11.9	0.31	103	75	3	1.91	-	0.125	< 5	79.8	< 1	-	< 0.5	38	6.07	47.1	-	< 0.001	< 0.002[a]
	QUL-ZOO-8A-40M	2014 10 09	53.8	7.73	7.83	5.3	0.16	108	76	< 3	1.67	-	0.176	< 5	148	< 1	-	< 0.5	39	6.19	50.1	-	< 0.001	< 0.002[a]
	QUL-ZOO-8A-80M	2014 10 09	55	7.66	7.86	3.9	0.18	110	82	< 3	1.65	-	0.16	< 5	146	< 1	-	< 0.5	40	6.22	50.3	-	< 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 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 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)	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]			30-100[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]			50-1000[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	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	n/a
QUL-107	QUL-107-2M	2014 10 10	8.1	17.8	< 30	1.93	0.193	0.47	0.889	< 0.1	0.11	5.51	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.12	< 0.05	0.82	-	0.332	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.154	< 1	< 3
QUL-112	QUL-112-0M	2014 10 01	9.1	16.8	< 30	1.8	0.071	0.457	0.824	< 0.1	< 0.1	4.47	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.69	-	0.241	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.155	< 1	< 3
	QUL-112-40M	2014 10 01	5.9	17.4	< 30	1.92	0.08	0.483	0.921	< 0.1	< 0.1	4.7	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.85	-	0.246	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.166	< 1	< 3
	QUL-112-80M	2014 10 01	4.4	17.5	< 30	1.91	0.108	0.482	0.938	< 0.1	< 0.1	4.65	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.91	-	0.263	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.165	< 1	< 3
	QUL-112-0M	2014 10 05	8.2	17.7	< 30	1.91	0.14	0.44	0.799	< 0.1	< 0.1	4.7	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.74	-	0.207	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.152	< 1	< 3
	QUL-112-40M	2014 10 05	6.1	17.9	< 30	2	0.116	0.475	0.89	< 0.1	< 0.1	4.97	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.79	-	0.229	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.154	< 1	< 3
	QUL-112-80M	2014 10 05	4.6	18.4	< 30	2.04	0.082	0.472	0.898	< 0.1	< 0.1	4.86	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.84	-	0.21	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.16	< 1	< 3
	QUL-112-0M	2014 10 09	9.4	17.6	< 30	1.93	0.247	0.48	0.804	< 0.1	0.1	4.84	< 0.1	< 10	0.014	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	-	0.248	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.154	< 1	< 3
	QUL-112-40M	2014 10 09	4.8	18.3	< 30	2.06	0.132	0.506	0.893	< 0.1	< 0.1	4.89	< 0.1	< 10	0.05	< 0.5	< 0.1	0.95	< 0.05	< 0.5	-	0.237	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3
	QUL-112-80M	2014 10 09	4.7	18.3	< 30	2.05	0.114	0.518	0.893	< 0.1	< 0.1	5.08	< 0.1	< 10	0.033	< 0.5	< 0.1	0.88	< 0.05	< 0.5	-	0.246	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3
	QUL-112-0M	2014 10 12	7.4	17.7	< 30	1.91	0.117	0.437	0.795	< 0.1	< 0.1	4.7	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.66	-	0.238	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.152	< 1	< 3
	QUL-112-40M	2014 10 12	5	18.3	< 30	2.04	0.09	0.465	0.89	< 0.1	< 0.1	5.01	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.78	-	0.247	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3
	QUL-112-80M	2014 10 12	4.4	18.4	< 30	2.03	0.095	0.464	0.903	< 0.1	< 0.1	4.83	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.8	-	0.252	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.156	< 1	< 3
	QUL-112X-80M	2014 10 12	3.9	18.5	< 30	2.05	0.088	0.459	0.884	< 0.1	< 0.1	4.85	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.78	-	0.255	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.161	< 1	< 3
	QA/QC RPD %		*	< 1	*	< 1	*	1	2	*	*	< 1	*	*	*	*	*	*	*	*	-	1	*	*	*	*	*	3	*	*
QUL-113	QUL-113-2M	2014 10 10	7.8	17.6	< 30	1.91	0.153	0.461	0.834	< 0.1	< 0.1	5	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.55	< 0.05	0.86	-	0.283	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.155	< 1	< 3
QUL-119	QUL-119-0M	2014 10 05	8.3	17.4	< 30	1.89	0.121	0.445	0.804	< 0.1	< 0.1	4.72	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.71	-	0.202	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.158	< 1	< 3
	QUL-119X-0M	2014 10 05	8.3	17.5	< 30	1.91	0.136	0.441	0.801	< 0.1	< 0.1	4.67	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.51	< 0.05	0.72	-	0.21	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.156	< 1	< 3
	QA/QC RPD %		*	< 1	*	1	*	< 1	< 1	*	*	1	*	*	*	*	*	*	*	*	-	*	*	*	*	*	*	1	*	*
	QUL-119-40M	2014 10 05	6.2	18.2	< 30	2.05	0.406	0.484	0.949	< 0.1	0.1	5.4	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.88	< 0.05	0.77	-	0.334	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.165	< 1	< 3
	QUL-119-80M	2014 10 05	4.3	18.6	< 30	2.06	0.13	0.475	0.898	< 0.1	< 0.1	5	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.82	-	0.221	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.159	< 1	< 3
	QUL-119-0M	2014 10 12	7.9	17.6	< 30	1.91	0.099	0.437	0.777	< 0.1	< 0.1	4.71	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.68	-	0.243	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.153	< 1	< 3
	QUL-119-40M	2014 10 12	5.5	18.3	< 30	2.05	0.31	0.476	0.919	< 0.1	< 0.1	5.34	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.73	< 0.05	0.74	-	0.339	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.158	< 1	< 3
	QUL-119-80M	2014 10 12	3.2	18.3	< 30	2.03	0.138	0.477	0.913	< 0.1	< 0.1	4.93	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.83	-	0.265	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.154	< 1	< 3
QUL-120	QUL-120-0M	2014 09 30	7.8	17.4	< 30	1.9	0.096	0.438	0.789	< 0.1	< 0.1	4.76	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	1.1	-	0.265	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.166	< 1	< 3
	QUL-120-40M	2014 09 30	4.9	18.4	< 30	2.05	0.205	0.504	0.921	< 0.1	< 0.1	5.25	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.86	< 0.05	0.82	-	0.283	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.16	< 1	24.8
	QUL-120-80M	2014 09 30	5.3	18.6	< 30	2.07	1	0.511	1.02	< 0.1	0.11	5.56	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.27	< 0.05	1.09	-	0.517	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.186	< 1	6.9
	QUL-120-0M	2014 10 06	7.5	17.8	< 30	1.86	0.118	0.432	0.805	< 0.1	< 0.1	4.68	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.54	-	0.226	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.14	< 1	< 3
	QUL-120-40M	2014 10 06	7.1	18.7	< 30	2.01	4.02	0.543	1.28	< 0.1	0.18	6.73	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.96	< 0.05	0.7	-	0.997	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.204	< 1	< 3
	QUL-120-80M	2014 10 06	5.5	18.4	< 30	1.98	0.979	0.487	1.02	< 0.1	0.12	5.5	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.28	< 0.05	0.65	-	0.508	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.164	< 1	< 3
QUL-120a	QUL-120A-0M	2014 10 11	8	17.4	< 30	1.89	0.113	0.44	0.798	< 0.1	< 0.1	4.85	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	1.02	-	0.265	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.155	< 1	< 3
	QUL-120A-40M	2014 10 11	7.1	18.6	< 30	2.08	1.74	0.533	1.19	< 0.1	0.14	6.35	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.63	< 0.05	1.09	-	0.881	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.208	< 1	< 3
	QUL-120A-80M	2014 10 11	4.7	18.5	< 30	2.04	0.456	0.488	0.961	< 0.1	< 0.1	5.21	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.69	< 0.05	1.14	-	0.355	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.166	< 1	< 3
	QUL-120A-120M	2014 10 11	4.8	18.5	< 30	2.05	0.202	0.481	0.968	< 0.1	< 0.1	5.28	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.76	< 0.05	1.14	-	0.39	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.167	< 1	< 3
	QUL-120A-160M	2014 10 11	5.2	18.6	< 30	2.05	0.194	0.489	0.985	< 0.1	< 0.1	5.56	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.96	< 0.05	1.11	-	0.451	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.174	< 1	< 3
	QUL-120AX-160M	2014 10 11	5.3	18.7	< 30	2.06	0.177	0.478	0.977	< 0.1	0.1	5.39	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.98	< 0.05	1.13	-	0.452	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.167	< 1	< 3
	QA/QC RPD %		*	< 1	*	< 1	*	2	< 1	*	*	3	*	*	*	*	*	*	*	*	-	< 1	*	*	*	*	*	4	*	*
QUL-131	QUL-131-0M	2014 10 09	6.8	18.8	< 30	2.13	2.91	0.556	1.24	< 0.1	0.17	6.59	< 0.1	< 10	0.033	< 0.5	< 0.1	2.28	< 0.05	0.86	-	0.957	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.205	< 1	< 3
	QUL-131-40M	2014 10 09	8.2	17.6	< 30	1.93	0.196	0.484	0.82	< 0.1	< 0.1	4.7	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	-	0.245	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.15	< 1	< 3
	QUL-131-80M	2014 10 09	4.5	18.6	< 30	2.09	0.261	0.507	0.918	< 0.1	< 0.1	4.97	< 0.1	< 10	0.016	< 0.5	< 0.1	0.87	< 0.05	< 0.5	-	0.3	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.161	< 1	< 3
	QUL-131X-80M	2014 10 09	5	18.5	< 30	2.08	0.255	0.523	0.944	< 0.1	0.11	5.15	< 0.1	< 10	0.02	< 0.5	< 0.1	0.91	< 0.05	< 0.5	-	0.297	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.157	< 1	< 3
	QA/QC RPD %		*	< 1	*	< 1	2	3	3	*	*	4	*	*	*	*	*	*	*	*	-	1	*	*	*	*	*	3	*	*
QUL-135	QUL-135-TAP	2014 10 11	5.5	17.9	< 30	1.96	0.27	0.466	0.853	< 0.1	0.11	8.8	< 0.1	< 10	0.018	< 0.5	< 0.1	92.2	1.37	1.03	-	0.406	0.8	< 0.5	< 0.01	< 0.01	< 10	0.121	< 1	47.2
QUL-136	QUL-136-0M	2014 10 12	7.2	17.7	< 30	1.9	0.118	0.436	0.777	< 0.1	< 0.1	4.71	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.67	-	0.242	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.161	< 1	< 3
	QUL-136-40M	2014 10 12	4.4	18.2	< 30	2.03	0.121	0.467	0.881	< 0.1	< 0.1	4.94	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.53	< 0.05	0.75	-	0.26	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.153	< 1	< 3
	QUL-136-80M	2014 10 12	5.7	18.7	< 30	2.07	0.121	0.478	0.896	< 0.1	< 0.1	5.04	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.5	< 0.05	0.82	-	0.277	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.156	< 1	< 3
HOR-1	HOR-1	2014 10 11	4.2	14.8	50	2.7	8.49	0.719	1.31	< 0.1	0.2	9.42	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.55	-	0.663	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.07	< 1	< 3
QUL-ZOO-8	QUL-ZOO-8-0M	2014 10 05	8	17.6	< 30	1.89	0.112	0.44	0.803	< 0.1	< 0.1	4.75	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.68	-	0.208	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.153	< 1	< 3
	QUL-ZOO-8-40M	2014 10 05	4.5	18	< 30	2	0.115	0.47	0.892	< 0.1	< 0.1	4.99	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.74	-	0.216	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.157	< 1	< 3
	QUL-ZOO-8-80M	2014 10 05	4	18.1	< 30	2.01	0.09	0.464	0.892	< 0.1	< 0.1	4.81	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.8	-	0.221	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.155	< 1	< 3
QUL-ZOO-8a	QUL-ZOO-8A-0M	2014 10 09	8.4	17.7	< 30	1.92	0.148	0.485	0.785	< 0.1	< 0.1	4.65	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	-	0.227	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.156	< 1	< 3
	QUL-ZOO-8A-40M	2014 10 09	4.7	18.2	< 30	2.03	0.099	0.513	0.9	< 0.1	< 0.1	4.86	< 0.1	< 10	0.086	< 0.5	< 0.1	0.62	< 0.05	< 0.5	-	0.281	0.52	< 0.5	< 0.01	< 0.01	< 10	0.149	< 1	< 3
	QUL-ZOO-8A-80M	2014 10 09	4	18.6	< 30	2.08	0.113	0.501	0.89	< 0.1	< 0.1	4.98	< 0.1	< 10	0.032	< 0.5	< 0.1	0.72	< 0.05	< 0.5	-	0.244	0.51	< 0.5	< 0.01	< 0.01	< 10	0.15	< 1	< 3

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 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	0.016-0.079[d]	n/a	1 (Cr(+6))	110	6.0-27.9[d]	1,000	27.3-297.3[d]	870	n/a	1001-3582[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	33-172.5[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	2-11[d]	n/a	4.4-14.9[d]	14[i]	n/a	791.1-1819[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	7.5-147[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	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-107	QUL-107-2M	2014 10 10	48	< 0.1	0.14	6.11	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	< 0.1	1.77	47	< 0.05	0.69	2,000	2.39	-	0.402	< 0.5	464	< 0.5	1,520	< 0.01	885	< 0.01	< 0.1	< 10	0.168	< 1	< 3
QUL-112	QUL-112-0M	2014 10 01	15.4	< 0.1	0.11	4.73	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	0.55	< 30	< 0.05	0.61	1,860	0.834	-	0.263	< 0.5	462	< 0.5	1,370	0.016	849	0.018	< 0.1	< 10	0.17	< 1	< 3
	QUL-112-40M	2014 10 01	10.6	< 0.1	< 0.1	4.85	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	< 0.5	< 30	< 0.05	0.76	1,950	0.577	-	0.264	< 0.5	483	< 0.5	1,580	< 0.01	932	< 0.01	< 0.1	< 10	0.164	< 1	< 3
	QUL-112-80M	2014 10 01	8.2	< 0.1	< 0.1	4.68	< 0.1	< 0.5	< 10	< 0.01	17,500	< 0.5	< 0.1	< 0.5	< 30	< 0.05	0.78	1,930	0.515	-	0.253	< 0.5	469	< 0.5	1,560	< 0.01	910	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUL-112-0M	2014 10 05	14.2	< 0.1	0.12	4.69	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	0.57	< 30	< 0.05	0.69	1,850	0.686	-	0.231	< 0.5	437	< 0.5	1,330	< 0.01	795	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUL-112-40M	2014 10 05	18.3	< 0.1	0.12	5.16	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	0.67	< 30	< 0.05	0.76	1,990	1.01	-	0.248	< 0.5	478	< 0.5	1,610	< 0.01	899	< 0.01	< 0.1	< 10	0.159	< 1	< 3
	QUL-112-80M	2014 10 05	9.9	< 0.1	0.13	5.08	< 0.1	< 0.5	< 10	< 0.01	18,300	< 0.5	< 0.1	< 0.5	< 30	< 0.05	0.83	2,040	0.56	-	0.238	< 0.5	488	< 0.5	1,600	< 0.01	931	< 0.01	< 0.1	< 10	0.17	< 1	< 3
	QUL-112-0M	2014 10 09	14.1	< 0.1	< 0.1	4.91	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	0.52	< 30	< 0.05	< 0.5	1,960	0.632	-	0.259	< 0.5	483	< 0.5	1,390	< 0.01	800	< 0.01	< 0.1	< 10	0.158	< 1	< 3
	QUL-112-40M	2014 10 09	12.6	< 0.1	0.11	5.02	< 0.1	< 0.5	< 10	**0.03**	18,300	< 0.5	< 0.1	0.83	< 30	0.055	< 0.5	2,070	0.655	-	0.26	< 0.5	514	< 0.5	1,620	< 0.01	895	< 0.01	< 0.1	< 10	0.167	< 1	< 3
	QUL-112-80M	2014 10 09	10.5	< 0.1	< 0.1	4.72	< 0.1	< 0.5	< 10	0.017	18,500	< 0.5	< 0.1	0.65	< 30	< 0.05	< 0.5	2,090	0.425	-	0.262	< 0.5	479	< 0.5	1,610	< 0.01	843	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUL-112-0M	2014 10 12	17.1	< 0.1	< 0.1	4.86	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	0.56	< 30	< 0.05	< 0.5	1,890	0.689	-	0.254	< 0.5	445	< 0.5	1,350	< 0.01	797	< 0.01	< 0.1	< 10	0.155	< 1	< 3
	QUL-112-40M	2014 10 12	14.8	< 0.1	< 0.1	5.18	< 0.1	< 0.5	< 10	< 0.01	18,000	< 0.5	< 0.1	0.57	< 30	< 0.05	0.52	2,010	0.847	-	0.257	< 0.5	478	< 0.5	1,640	< 0.01	896	< 0.01	< 0.1	< 10	0.161	< 1	< 3
	QUL-112-80M	2014 10 12	7.7	< 0.1	< 0.1	4.88	< 0.1	< 0.5	< 10	< 0.01	18,100	< 0.5	< 0.1	< 0.5	< 30	< 0.05	0.72	2,010	0.547	-	0.272	< 0.5	464	< 0.5	1,600	< 0.01	896	< 0.01	< 0.1	< 10	0.164	< 1	< 3
	QUL-112X-80M	2014 10 12	9.4	< 0.1	< 0.1	4.99	< 0.1	< 0.5	< 10	< 0.01	18,300	< 0.5	< 0.1	< 0.5	< 30	< 0.05	0.55	2,040	0.554	-	0.261	< 0.5	476	< 0.5	1,600	< 0.01	908	< 0.01	< 0.1	< 10	0.17	< 1	< 3
	QA/QC RPD %		*	*	*	2	*	*	*	*	1	*	*	*	*	*	*	2	*	-	4	*	3	*	0	*	1	*	*	*	4	*	*
QUL-113	QUL-113-2M	2014 10 10	21.2	< 0.1	0.11	5.25	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	0.8	< 30	< 0.05	0.82	1,940	1.2	-	0.314	< 0.5	462	< 0.5	1,410	< 0.01	828	< 0.01	< 0.1	< 10	0.165	< 1	< 3
QUL-119	QUL-119-0M	2014 10 05	19.5	< 0.1	0.13	5.29	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	0.93	< 30	0.081	0.72	1,870	1	-	1.02	< 0.5	448	< 0.5	1,360	< 0.01	819	< 0.01	< 0.1	< 10	0.16	< 1	< 3
	QUL-119X-0M	2014 10 05	20.2	< 0.1	0.13	4.98	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	0.94	< 30	< 0.05	0.78	1,930	0.83	-	0.227	< 0.5	458	< 0.5	1,390	< 0.01	834	< 0.01	< 0.1	< 10	0.169	< 1	< 3
	QA/QC RPD %		4	*	*	6	*	*	*	*	3	*	*	*	*	*	*	3	*	-	*	*	2	*	2	*	2	*	*	*	6	*	*
	QUL-119-40M	2014 10 05	83	< 0.1	0.17	6.94	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	2.04	41	< 0.05	0.75	2,040	3.42	-	0.328	< 0.5	521	< 0.5	1,810	< 0.01	969	< 0.01	< 0.1	< 10	0.162	< 1	< 3
	QUL-119-80M	2014 10 05	14.1	< 0.1	0.12	5.42	< 0.1	< 0.5	< 10	< 0.01	18,500	< 0.5	< 0.1	0.54	< 30	< 0.05	0.82	2,060	0.829	-	0.247	< 0.5	480	< 0.5	1,650	< 0.01	927	< 0.01	< 0.1	< 10	0.165	< 1	< 3
	QUL-119-0M	2014 10 12	15.6	< 0.1	< 0.1	4.86	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	0.59	< 30	< 0.05	< 0.5	1,910	0.631	-	0.25	< 0.5	436	< 0.5	1,370	< 0.01	780	< 0.01	< 0.1	< 10	0.155	< 1	< 3
	QUL-119-40M	2014 10 12	81.8	< 0.1	0.12	6.85	< 0.1	< 0.5	< 10	< 0.01	18,200	< 0.5	< 0.1	2.07	52	< 0.05	< 0.5	2,070	3.7	-	0.355	< 0.5	507	< 0.5	1,840	< 0.01	946	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUL-119-80M	2014 10 12	10.8	< 0.1	< 0.1	5	< 0.1	< 0.5	< 10	< 0.01	18,200	< 0.5	< 0.1	0.51	< 30	< 0.05	0.54	2,040	0.62	-	0.249	< 0.5	459	< 0.5	1,620	< 0.01	887	< 0.01	< 0.1	< 10	0.164	< 1	< 3
QUL-120	QUL-120-0M	2014 09 30	17.2	< 0.1	0.11	4.84	< 0.1	< 0.5	< 10	< 0.01	17,600	< 0.5	< 0.1	0.66	< 30	< 0.05	0.93	2,030	0.939	-	0.427	< 0.5	448	< 0.5	1,400	< 0.01	813	< 0.01	< 0.1	< 10	0.17	< 1	< 3
	QUL-120-40M	2014 09 30	35.9	< 0.1	0.12	5.45	< 0.1	< 0.5	< 10	< 0.01	18,100	< 0.5	< 0.1	1.01	< 30	< 0.05	0.97	2,050	1.72	-	0.308	< 0.5	488	< 0.5	1,740	< 0.01	909	< 0.01	< 0.1	< 10	0.172	< 1	3.6
	QUL-120-80M	2014 09 30	***140***	< 0.1	0.17	8.05	< 0.1	< 0.5	< 10	< 0.01	18,500	< 0.5	< 0.1	**3.48**	92	0.072	1	2,100	5.06	-	0.538	< 0.5	561	< 0.5	1,990	< 0.01	1,040	< 0.01	< 0.1	< 10	0.192	< 1	6.8
	QUL-120-0M	2014 10 06	15.5	< 0.1	0.1	4.85	< 0.1	< 0.5	< 10	< 0.01	17,500	< 0.5	< 0.1	0.81	< 30	< 0.05	< 0.5	1,850	0.896	-	0.252	0.52	421	< 0.5	1,390	< 0.01	814	< 0.01	< 0.1	< 10	0.144	< 1	6
	QUL-120-40M	2014 10 06	***323***	< 0.1	0.27	14.1	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	0.1	**7.63**	161	0.144	0.59	1,990	11.5	-	1.07	< 0.5	659	< 0.5	2,400	< 0.01	1,280	< 0.01	< 0.1	15	0.217	< 1	< 3
	QUL-120-80M	2014 10 06	***139***	< 0.1	0.15	8.44	< 0.1	< 0.5	< 10	< 0.01	18,100	< 0.5	< 0.1	**3.44**	75	< 0.05	< 0.5	1,990	5.24	-	0.545	< 0.5	521	< 0.5	1,980	< 0.01	1,030	< 0.01	< 0.1	< 10	0.177	< 1	< 3
QUL-120a	QUL-120A-0M	2014 10 11	17.7	< 0.1	< 0.1	5.19	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	0.73	< 30	< 0.05	0.81	1,910	0.871	-	0.3	< 0.5	450	< 0.5	1,380	< 0.01	813	< 0.01	< 0.1	< 10	0.165	< 1	< 3
	QUL-120A-40M	2014 10 11	***280***	< 0.1	0.23	13.2	< 0.1	< 0.5	< 10	< 0.01	18,500	< 0.5	< 0.1	**6.36**	129	0.116	1.02	2,120	9.1	-	0.921	< 0.5	648	< 0.5	2,360	< 0.01	1,220	< 0.01	< 0.1	12	0.218	< 1	< 3
	QUL-120A-80M	2014 10 11	69.6	< 0.1	0.12	6.67	< 0.1	< 0.5	< 10	< 0.01	18,300	< 0.5	< 0.1	1.93	37	< 0.05	0.97	2,060	2.68	-	0.401	< 0.5	503	< 0.5	1,820	< 0.01	962	< 0.01	< 0.1	< 10	0.176	< 1	< 3
	QUL-120A-120M	2014 10 11	87.4	< 0.1	0.12	7.19	< 0.1	< 0.5	< 10	< 0.01	18,300	< 0.5	< 0.1	2.12	50	< 0.05	0.95	2,070	2.66	-	0.419	< 0.5	514	< 0.5	1,850	< 0.01	971	< 0.01	< 0.1	< 10	0.172	< 1	< 3
	QUL-120A-160M	2014 10 11	***126***	< 0.1	0.13	8.23	< 0.1	< 0.5	< 10	< 0.01	18,700	< 0.5	< 0.1	**2.81**	64	0.063	1.02	2,110	3.69	-	0.51	< 0.5	539	< 0.5	2,020	< 0.01	1,010	< 0.01	< 0.1	< 10	0.182	< 1	< 3
	QUL-120AX-160M	2014 10 11	***120***	< 0.1	0.15	7.94	< 0.1	< 0.5	< 10	< 0.01	18,500	< 0.5	< 0.1	**2.93**	61	0.068	1.01	2,090	3.8	-	0.5	< 0.5	544	< 0.5	1,950	< 0.01	1,010	< 0.01	< 0.1	< 10	0.186	< 1	< 3
	QA/QC RPD %		5	*	*	4	*	*	*	*	1	*	*	*	*	*	*	< 1	*	-	2	*	< 1	*	4	*	0	*	*	*	2	*	*
QUL-131	QUL-131-0M	2014 10 09	19.2	< 0.1	0.1	5.11	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	**12.8**	< 30	0.293	0.72	1,970	0.71	-	0.275	< 0.5	465	< 0.5	1,400	< 0.01	851	< 0.01	< 0.1	< 10	0.16	< 1	**8**
	QUL-131-40M	2014 10 09	***411***	< 0.1	0.25	15.9	< 0.1	< 0.5	< 10	0.015	18,800	< 0.5	0.11	**7.85**	190	0.146	< 0.5	2,200	11.6	-	1.09	0.5	748	< 0.5	2,690	< 0.01	1,310	< 0.01	< 0.1	17	0.228	< 1	< 3
	QUL-131-80M	2014 10 09	30.4	< 0.1	0.11	5.71	< 0.1	< 0.5	< 10	< 0.01	18,400	< 0.5	< 0.1	0.97	< 30	< 0.05	< 0.5	2,080	1.34	-	0.294	< 0.5	515	< 0.5	1,680	< 0.01	910	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUL-131X-80M	2014 10 09	35.4	< 0.1	< 0.1	5.56	< 0.1	< 0.5	< 10	0.011	18,400	< 0.5	< 0.1	1.11	< 30	< 0.05	< 0.5	2,070	1.39	-	0.313	< 0.5	521	< 0.5	1,700	< 0.01	911	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QA/QC RPD %		15	*	*	3	*	*	*	*	0	*	*	*	*	*	*	< 1	*	-	6	*	1	*	1	*	< 1	*	*	*	0	*	*
QUL-135	QUL-135-TAP	2014 10 11	15	< 0.1	0.13	10.1	< 0.1	< 0.5	< 10	0.013	17,300	< 0.5	< 0.1	**96.4**	< 30	0.728	1.05	1,920	0.446	-	0.413	0.77	477	< 0.5	1,560	< 0.01	875	< 0.01	< 0.1	< 10	0.129	< 1	**27.7**
QUL-136	QUL-136-0M	2014 10 12	14.3	< 0.1	< 0.1	4.61	< 0.1	< 0.5	< 10	< 0.01	17,500	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	1,900	0.571	-	0.252	< 0.5	440	< 0.5	1,350	< 0.01	774	< 0.01	< 0.1	< 10	0.157	< 1	< 3
	QUL-136-40M	2014 10 12	33.9	< 0.1	< 0.1	5.46	< 0.1	< 0.5	< 10	< 0.01	18,000	< 0.5	< 0.1	0.89	< 30	< 0.05	0.53	2,030	1.71	-	0.272	< 0.5	480	< 0.5	1,680	< 0.01	901	< 0.01	< 0.1	< 10	0.153	< 1	< 3
	QUL-136-80M	2014 10 12	18.4	< 0.1	< 0.1	5.09	< 0.1	< 0.5	< 10	< 0.01	18,300	< 0.5	< 0.1	0.62	< 30	< 0.05	< 0.5	2,050	0.85	-	0.262	< 0.5	471	< 0.5	1,660	< 0.01	893	< 0.01	< 0.1	< 10	0.162	< 1	< 3
HOR-1	HOR-1	2014 10 11	13.2	< 0.1	0.25	9.34	< 0.1	< 0.5	< 10	< 0.01	14,700	< 0.5	< 0.1	0.65	80	0.151	< 0.5	2,710	10	-	0.68	< 0.5	729	< 0.5	1,810	< 0.01	1,320	< 0.01	< 0.1	< 10	0.072	< 1	< 3
QUL-ZOO-8	QUL-ZOO-8-0M	2014 10 05	15.7	< 0.1	0.12	4.73	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	0.62	< 30	< 0.05	0.7	1,840	0.666	-	0.221	< 0.5	443	< 0.5	1,330	< 0.01	808	< 0.01	< 0.1	< 10	0.157	< 1	< 3
	QUL-ZOO-8-40M	2014 10 05	11.4	< 0.1	0.11	5.01	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	< 0.1	< 0.5	< 30	< 0.05	0.76	1,990	0.624	-	0.225	< 0.5	470	< 0.5	1,590	< 0.01	901	< 0.01	< 0.1	< 10	0.165	< 1	< 3
	QUL-ZOO-8-80M	2014 10 05	8.7	< 0.1	0.13	5.04	< 0.1	< 0.5	< 10	< 0.01	18,400	< 0.5	< 0.1	< 0.5	< 30	< 0.05	0.76	2,050	0.432	-	0.241	< 0.5	481	< 0.5	1,600	< 0.01	934	< 0.01	< 0.1	< 10	0.164	< 1	< 3
QUL-ZOO-8a	QUL-ZOO-8A-0M	2014 10 09	16.8	< 0.1	0.11	4.75	< 0.1	< 0.5	< 10	**0.021**	17,700	< 0.5	< 0.1	0.62	< 30	< 0.05	< 0.5	1,950	0.715	-	0.29	< 0.5	488	< 0.5	1,380	< 0.01	806	< 0.01	< 0.1	< 10	0.16	< 1	< 3
	QUL-ZOO-8A-40M	2014 10 09	15.3	< 0.1	0.18	9.01	< 0.1	< 0.5	< 10	< 0.01	18,000	< 0.5	< 0.1	**4.21**	< 30	< 0.05	< 0.5	2,000	0.846	-	0.268	0.91	934	< 0.5	1,560	< 0.01	1,520	< 0.01	< 0.1	< 10	0.166	< 1	3.7
	QUL-ZOO-8A-80M	2014 10 09	8.5	< 0.1	< 0.1	4.95	< 0.1	< 0.5	< 10	< 0.01	18,100	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	2,030	0.418	-	0.265	< 0.5	499	< 0.5	1,580	< 0.01	895	< 0.01	< 0.1	< 10	0.163	< 1	< 3

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	60-600[d]	32,800[f]	600	988.2-1742[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	20-200[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	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	DI-BLANK	2014 09 29	< 0.5	***5.68***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
	FILTER BLANK	2014 09 29	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	KEM1B-BLANK	2014 09 29	< 0.5	***5.36***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
	DI-BLANK	2014 10 06	-	***5.71***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
	FILTER-BLANK	2014 10 06	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	KEM1B	2014 10 06	-	***5.33***	0.29	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
	FILTER-BLANK	2014 10 13	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	KEM1B	2014 10 13	< 0.5	***5.53***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
QUL-FIELD BLANK	QUL-2-FB	2014 09 30	< 0.5	***5.57***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
	QUL-23-FB	2014 10 01	< 0.5	***5.41***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
	QUL-ZOO-8-FB	2014 10 05	< 0.5	***5.47***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
	QUL-22-FB	2014 10 08	< 0.5	***5.47***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
	QUL-20-FB	2014 10 11	< 0.5	***5.54***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
	QUR-FB	2014 10 13	-	***5.52***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	1.4	< 0.001	< 0.002[a]
QUL-TRIP BLANK	TRIP-BLANK	2014 10 06	-	***5.34***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	11.1	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
	TRIP-BLANK	2014 10 13	< 0.5	***5.62***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]

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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 5x laboratory detection limit

[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

[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)	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]			30-100[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]			50-1000[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	DI-BLANK	2014 09 29	< 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 09 29	< 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-BLANK	2014 09 29	< 3	< 0.05	< 30	< 0.1	0.054	< 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 10 06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FILTER-BLANK	2014 10 06	< 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 10 06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FILTER-BLANK	2014 10 13	< 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 10 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QUL-FIELD BLANK	QUL-2-FB	2014 09 30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUL-23-FB	2014 10 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-ZOO-8-FB	2014 10 05	< 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-22-FB	2014 10 08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUL-20-FB	2014 10 11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-FB	2014 10 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QUL-TRIP BLANK	TRIP-BLANK	2014 10 06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TRIP-BLANK	2014 10 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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.

Concentration greater than 5x laboratory detection limit

[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	0.016-0.079[d]	n/a	1 (Cr(+6))	110	6.0-27.9[d]	1,000	27.3-297.3[d]	870	n/a	1001-3582[d]		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	33-172.5[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	2-11[d]	n/a	4.4-14.9[d]	14[i]	n/a	791.1-1819[d]	Methyl mercury analysis in progress	1,000	n/a	n/a	n/a	n/a	0.05-1.5	n/a	n/a	n/a	n/a	n/a	n/a	7.5-147[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	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-EQUIPMENT BLANK	DI-BLANK	2014 09 29	< 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
	FILTER BLANK	2014 09 29	< 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
	KEM1B-BLANK	2014 09 29	< 3	< 0.1	< 0.1	0.054	< 0.1	< 0.5	< 10	< 0.01[a]	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	0.104	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	DI-BLANK	2014 10 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	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	FILTER-BLANK	2014 10 06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	KEM1B	2014 10 06	< 3	< 0.1	< 0.1	0.102	< 0.1	< 0.5	< 10	< 0.01[a]	< 50	< 0.5	< 0.1	0.68	< 30	< 0.05	< 0.5	< 100	0.194	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	FILTER-BLANK	2014 10 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	KEM1B	2014 10 13	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01[a]	< 50	< 0.5	< 0.1	< 0.5	< 30	0.091	< 0.5	< 100	0.087	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
QUL-FIELD BLANK	QUL-2-FB	2014 09 30	< 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-23-FB	2014 10 01	< 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-ZOO-8-FB	2014 10 05	< 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-22-FB	2014 10 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	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	QUL-20-FB	2014 10 11	< 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
	QUR-FB	2014 10 13	< 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-TRIP BLANK	TRIP-BLANK	2014 10 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	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	TRIP-BLANK	2014 10 13	< 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

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.

Concentration greater than 5x laboratory detection limit

[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 1e: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water (Chlorophyll A) DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Misc. Organic Substances Chlorophyll A (ug/L)
BC Standards			
BCWQG Aquatic Life (AW)[a,b]			$50mg/m^2/100mg/m^2$
QUL-2	QUL-2-0M	2014 09 30	0.736
	QUL-2-40M	2014 09 30	0.059
QUL-2a	QUL-2A-0M	2014 09 30	0.835
	QUL-2A-40M	2014 09 30	0.194
QUL-21	QUL-21-0M	2014 09 29	0.42
	QUL-21-40M	2014 09 29	0.089
	QUL-21X-40M	2014 09 29	0.127
	QA/QC RPD %		35
	QUL-21-45M	2014 09 29	< 0.01
QUL-40	QUL-40-0M	2014 09 29	0.922
	QUL-40-40M	2014 09 29	0.054
	QUL-40-80M	2014 09 29	< 0.01
QUL-66	QUL-66-0M	2014 09 29	0.931
	QUL-66-40M	2014 09 29	< 0.01
	QUL-66-50M	2014 09 29	< 0.01
QUL-79	QUL-79-0M	2014 09 30	0.453
	QUL-79-20M	2014 09 30	0.156
	QUL-79-40M	2014 09 30	0.092
	QUL-79-50M	2014 09 30	0.079
QUL-87	QUL-87-0M	2014 09 30	0.722
	QUL-87-40M	2014 09 30	0.176
	QUL-87-50M	2014 09 30	0.094
QUL-120	QUL-120-0M	2014 09 30	0.688
	QUL-120-40M	2014 09 30	0.127
	QUL-120-80M	2014 09 30	0.098

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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.

[a] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.

[b] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.

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

			VOCs								Glycols		
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Acetone (mg/L)	Carbon disulphide (µg/L)	2-Hexanone (µg/L)	Methyl ethyl ketone (µg/L)	Methyl isobutyl carbino (µg/L)	Methyl isobutyl ketone (µg/L)	n-Pentane (µg/L)	1,2,3-Trimethylbenzene (µg/L)	Diethylene glycol (mg/L)	Ethylene glycol (mg/L)	Propylene glycol (mg/L)
BC Guidelines													
BCWQG Aquatic Life (AW)[a,b]			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	192 (max)	500 (max)
QUL-66	QUL-66-0M	2014 10 08	< 0.01	< 5	< 1	< 10	< 10	< 1	< 10	< 1	< 5	< 5	< 5

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.

[a] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.

[b] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.

TABLE 3a: Summary of Analytical Results for Mount Polley, Polley Lake - Surface Water 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 (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)											
BC Standards																						
BCWQG Aquatic Life (AW)[b,c]			n/a	6.5-9.0	6.5-9.0		Change of 8[k]	n/a	n/a	Change of 25	n/a	n/a	700-5,680[d]	32,800	60-120[d]	32,800[f]	600	1264-1510[d]	n/a	n/a	n/a	0.005-0.015
BCWQG Aquatic Life (30day) (AW)[b,c,h]			n/a	n/a	n/a	+/-1 Degree change from ambient	Change of 2[k]	n/a	n/a	Change of 5[k]	+20% of median background	n/a	135-1,090[d]	3,000	20-40[d]	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[j]	Change of 1	n/a	n/a	n/a	n/a	n/a	n/a	10,000	1,000	10,000[f]	250	1,500	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	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a
POL-5	POL-5-9M	2014 09 30	137	7.69	7.32	9.24	6.12	300	191	3.6	5.74	0.849	278	16.5	**109**	-	1.69	99	55	101	< 0.001	**0.0048**
	POL-5-0M	2014 10 04	114	***8.65***	8.25	11.8	2.74	242	157	4.7	6.5	0.419	34.9	5	7.2	-	0.82	88	38.6	88.4	< 0.001	**0.0047**
	POL-5-0M	2014 10 07	117	8.42	8.17	12.4	0.97	247	165	< 3	6.87	0.41	46.2	15.2	11.2	-	0.88	85	39.3	89	< 0.001	**0.0042**
	POL-5-11M	2014 10 07	137	7.53	8	8.7	8.13	305	200	6.6	5.65	0.742	344	11.7	**63.2**	-	1.7	110	57.6	99.5	0.0016	**0.0045**
	POL-5X-11M	2014 10 07	134	7.53	8.01	8.7	8.26	305	182	5.6	5.66	0.806	349	12.1	**62.8**	-	1.71	116	57.9	99.5	0.002	0.0052
	QA/QC RPD %		2	0	< 1	0	2	0	9	*	< 1	8	1	*	< 1	-	*	*	< 1	0	*	*
POL-6	POL-6-12M	2014 09 30	115	7.34	7.18	8.5	4.08	239	150	5.9	6.53	0.404	22.2	< 5	2	-	1.04	74	37	88	< 0.001	0.0054
	POL-6-0M	2014 10 04	116	***8.51***	8.2	11.7	1.69	247	167	4.3	6.42	0.442	62.5	10.2	17.5	-	0.92	86	40.8	89.8	< 0.001	**0.0045**
	POL-6-0M	2014 10 07	119	8.17	8.19	11.9	1.25	244	129	4	6.55	0.402	47.2	6.1	10.8	-	0.86	83	39.4	88.7	< 0.001	**0.0037**
	POL-6-13M	2014 10 07	135	7.51	7.94	8.6	8.8	306	202	5.5	5.92	0.736	359	44.3	**32.2**	-	1.78	110	57.4	99.7	0.004	0.008
P1	P1-0M	2014 10 04	114	***8.65***	8.28	11.9	2.16	242	163	4.8	6.48	0.436	37.6	6	8	-	0.83	83	38.8	88.5	< 0.001	**0.0047**
	P1-30M	2014 10 04	147	7.15	7.93	8.2	11.5	338	190	7	5.88	1.33	961	< 5	< 1	-	2.05	118	63.4	114	0.0856	***0.0915***
	P1-0M	2014 10 07	117	8.45	8.04	12.5	1.07	241	159	3.2	6.63	0.402	43.7	5.2	8	-	0.85	84	38.9	87	< 0.001	**0.004**
	P1-26M	2014 10 07	151	7.25	7.9	8.2	12.2	339	219	8.5	6.18	1.35	1,040	< 5	< 1	-	2.04	118	62.7	114	0.096	***0.132***
P2	P2-0M	2014 10 04	115	***8.57***	8.23	11.66	1.51	245	166	3.3	6.46	0.433	53.8	10.1	14.9	-	0.88	85	40.1	89.4	< 0.001	0.0052
	P2-25M	2014 10 04	146	7.43	7.89	8.2	11.8	336	225	8	5.91	1.28	918	15.3	< 1	-	2.08	118	63.7	113	0.0729	***0.0798***
	P2-0M	2014 10 07	118	8.5	8.21	12.4	1.09	246	161	4.2	6.64	0.673	47.6	8.8	10	-	0.86	87	39.3	88.6	< 0.001	**0.0038**
	P2-26M	2014 10 07	142	7.27	7.9	8.2	11.4	338	222	11.9	6.29	1.32	1,080	< 5	< 1	-	2.04	115	62.6	112	0.097	***0.0975***

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

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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] 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.

[k] Based on a change from background at any one time. Prebreach range (Minnow, 2014) 0.54-2.73 NTU and <3-5.5 mg/L TSS.

TABLE 3a: Summary of Analytical Results for Mount Polley, Polley Lake - 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)	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 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
	POL-5-9M	2014 09 30	4	45.2	< 30	5.89	227	1.53	10.2	0.29	1.16	19	< 0.1	29	< 0.01	< 0.5	< 0.1	1.14	< 0.05	1.01	-	15.1	< 0.5	1.73	< 0.01	< 0.01	< 10	0.379	1.5	< 3
	POL-5-0M	2014 10 04	5.7	36.9	< 30	5.24	2.27	0.902	7.08	0.13	0.81	12.5	< 0.1	20	< 0.01	< 0.5	< 0.1	2.3	< 0.05	< 0.5	-	6.79	< 0.5	1.05	< 0.01	< 0.01	< 10	0.186	1.2	< 3
	POL-5-0M	2014 10 07	4.8	38.2	< 30	5.3	1.47	0.893	6.72	0.13	0.82	12.4	< 0.1	22	< 0.01	< 0.5	< 0.1	2.17	< 0.05	< 0.5	-	7.56	< 0.5	1.04	< 0.01	< 0.01	< 10	0.202	1.2	< 3
	POL-5-11M	2014 10 07	3.3	45	< 30	5.9	197	1.53	10.2	0.25	1.2	19.1	< 0.1	27	< 0.01	< 0.5	< 0.1	0.96	< 0.05	0.87	-	14.4	< 0.5	1.66	< 0.01	< 0.01	< 10	0.355	1.4	< 3
	POL-5X-11M	2014 10 07	3.5	44.2	< 30	5.82	197	1.54	10.2	0.25	1.17	18.7	< 0.1	27	< 0.01	< 0.5	< 0.1	0.95	< 0.05	0.85	-	14.2	< 0.5	1.63	< 0.01	< 0.01	< 10	0.353	1.4	< 3
	QA/QC RPD %		*	2	*	1	0	< 1	0	*	3	2	*	*	*	*	*	*	*	*	-	1	*	*	*	*	*	< 1	*	*
	POL-6-12M	2014 09 30	7.5	37.7	< 30	5.15	13.5	0.86	6.56	0.13	0.81	12.5	< 0.1	23	< 0.01	< 0.5	< 0.1	2.3	< 0.05	0.61	-	7.22	< 0.5	0.99	< 0.01	< 0.01	< 10	0.206	1.2	< 3
	POL-6-0M	2014 10 04	4.9	37.6	< 30	5.3	1.31	0.951	7.43	0.15	0.84	12.5	< 0.1	22	< 0.01	< 0.5	< 0.1	2.14	< 0.05	< 0.5	-	7.79	< 0.5	1.14	< 0.01	< 0.01	< 10	0.219	1.2	< 3
	POL-6-0M	2014 10 07	4.7	38.8	< 30	5.31	0.852	0.903	7.21	0.12	0.81	12	< 0.1	22	< 0.01	< 0.5	< 0.1	2.17	< 0.05	< 0.5	-	7.18	< 0.5	1.04	< 0.01	< 0.01	< 10	0.209	1.2	< 3
	POL-6-13M	2014 10 07	3.5	44.3	< 30	5.85	96.3	1.41	9.54	0.23	1.09	17.1	< 0.1	25	< 0.01	< 0.5	< 0.1	1.26	< 0.05	0.76	-	12.8	< 0.5	1.45	< 0.01	< 0.01	< 10	0.318	1.3	< 3
	P1-0M	2014 10 04	6.9	37	< 30	5.23	3.02	0.903	7.12	0.13	0.83	12.3	< 0.1	21	< 0.01	< 0.5	< 0.1	2.28	< 0.05	< 0.5	-	7.15	< 0.5	1.04	< 0.01	< 0.01	< 10	0.207	1.2	< 3
	P1-30M	2014 10 04	5.1	47.8	278	6.63	759	1.89	12.8	< 0.1	1.6	26.3	< 0.1	30	< 0.01	< 0.5	0.15	< 0.5	< 0.05	0.83	-	15.7	< 0.5	1.83	< 0.01	< 0.01	< 10	0.354	1.7	< 3
	P1-0M	2014 10 07	4.3	38.1	< 30	5.21	1.37	0.886	6.82	0.13	0.84	11.9	< 0.1	21	< 0.01	< 0.5	< 0.1	2.25	< 0.05	< 0.5	-	7.09	< 0.5	1.04	< 0.01	< 0.01	< 10	0.198	1.2	< 3
	P1-26M	2014 10 07	4.3	49.7	296	6.68	766	1.87	12.7	< 0.1	1.64	25.6	< 0.1	30	< 0.01	< 0.5	0.14	< 0.5	< 0.05	0.86	-	15.7	< 0.5	1.43	< 0.01	< 0.01	< 10	0.343	1.6	< 3
	P2-0M	2014 10 04	4.5	37.4	< 30	5.3	1.28	0.945	7.21	0.14	0.85	13	< 0.1	21	< 0.01	< 0.5	< 0.1	2.32	< 0.05	< 0.5	-	7.3	< 0.5	1.12	< 0.01	< 0.01	< 10	0.202	1.2	< 3
	P2-25M	2014 10 04	5.9	47.6	249	6.59	759	1.93	13.1	< 0.1	1.64	26.6	< 0.1	30	< 0.01	< 0.5	0.16	< 0.5	< 0.05	0.82	-	15.9	< 0.5	1.71	< 0.01	< 0.01	< 10	0.35	1.6	< 3
	P2-0M	2014 10 07	5.7	38.6	< 30	5.29	1.02	0.912	7.12	0.14	0.79	12	< 0.1	21	< 0.01	< 0.5	< 0.1	2.31	< 0.05	< 0.5	-	7.39	< 0.5	1.02	< 0.01	< 0.01	< 10	0.205	1.2	< 3
	P2-26M	2014 10 07	3.2	46.6	229	6.31	750	1.92	12.8	< 0.1	1.59	25.9	< 0.1	31	< 0.01	< 0.5	0.13	< 0.5	< 0.05	0.99	-	17.7	< 0.5	1.22	< 0.01	< 0.01	< 10	0.213	1.6	< 3

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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] 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.

[k] Based on a change from background at any one time. Prebreach range (Minnow, 2014) 0.54-2.73 NTU and <3-5.5 mg/L TSS.

TABLE 3a: Summary of Analytical Results for Mount Polley, Polley Lake - 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)	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)	Tin (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	0.0285-0.048[d]	n/a	1 (Cr(+6))	110	9.9-16.57[d]	1,000	65.3-142.6[d]	870	1465-2248[d]	Methyl mercury analysis in progress	2,000	25-110[d]	373,000-432,000	2	0.1-3.0[d]	n/a	0.3	n/a	2,000	300	6	33-81.75[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	3.4-6.2[d]	n/a	5.9-8.9[d]	14[i]	974-1287[d]		1,000	n/a	n/a	n/a	0.05-1.5[d]	n/a	n/a	n/a	n/a	n/a	n/a	7.5-56.25[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	1	250	n/a	n/a	10	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	50	1	n/a	n/a	n/a	10	n/a	200,000	n/a	n/a	n/a	20	n/a	5,000
	POL-5-9M	2014 09 30	90.9	0.34	1.23	21.2	< 0.1	< 0.5	32	0.01	45,000	< 0.5	< 0.1	4.07	63	< 0.05	0.97	***263***	-	15.7	< 0.5	1,580	1.68	< 0.01	10,200	< 0.01	< 0.1	12	0.399	1.8	< 3
	POL-5-0M	2014 10 04	80.9	0.15	0.82	13.2	< 0.1	< 0.5	23	< 0.01	36,800	< 0.5	< 0.1	4.1	56	< 0.05	< 0.5	16.8	-	7.39	< 0.5	879	1.04	< 0.01	6,600	< 0.01	< 0.1	< 10	0.211	1.3	< 3
	POL-5-0M	2014 10 07	23.7	0.15	0.84	13.2	< 0.1	< 0.5	25	< 0.01	39,300	< 0.5	< 0.1	3.08	< 30	< 0.05	< 0.5	14.6	-	8.51	< 0.5	930	1.06	< 0.01	7,280	< 0.01	< 0.1	< 10	0.229	1.3	< 3
	POL-5-11M	2014 10 07	***101***	0.28	1.25	21.9	< 0.1	< 0.5	29	< 0.01	44,400	< 0.5	< 0.1	4.23	61	< 0.05	0.7	***329***	-	15.7	< 0.5	1,560	1.73	< 0.01	10,300	< 0.01	< 0.1	12	0.374	1.8	< 3
	POL-5X-11M	2014 10 07	***102***	0.27	1.24	21.5	< 0.1	< 0.5	29	< 0.01	43,800	< 0.5	< 0.1	4.66	62	0.124	0.66	***298***	-	15.3	< 0.5	1,550	1.76	< 0.01	10,400	< 0.01	< 0.1	12	0.366	1.8	< 3
	QA/QC RPD %		< 1	*	< 1	2	*	*	*	*	1	*	*	*	*	*	*	*	-	3	*	< 1	*	*	< 1	*	*	*	2	*	*
	POL-6-12M	2014 09 30	***196***	0.14	0.85	15.3	< 0.1	< 0.5	26	< 0.01	36,500	< 0.5	0.16	**8.39**	137	0.064	0.87	25.9	-	7.31	< 0.5	929	0.91	< 0.01	6,610	< 0.01	< 0.1	14	0.218	1.7	< 3
	POL-6-0M	2014 10 04	43.3	0.15	0.88	13.8	< 0.1	< 0.5	24	< 0.01	37,600	< 0.5	< 0.1	3.41	< 30	< 0.05	< 0.5	35.3	-	8.46	< 0.5	968	1.17	< 0.01	7,330	< 0.01	< 0.1	< 10	0.24	1.4	< 3
	POL-6-0M	2014 10 07	31.5	0.15	0.83	12.5	< 0.1	< 0.5	24	< 0.01	38,300	< 0.5	< 0.1	3.01	< 30	< 0.05	< 0.5	17.4	-	7.82	< 0.5	911	1.05	< 0.01	6,860	< 0.01	< 0.1	< 10	0.225	1.4	< 3
	POL-6-13M	2014 10 07	88.7	0.26	1.27	20.3	< 0.1	< 0.5	28	< 0.01	44,100	< 0.5	< 0.1	3.89	45	< 0.05	0.78	***269***	-	14.3	< 0.5	1,500	1.51	< 0.01	10,100	< 0.01	< 0.1	11	0.349	1.8	< 3
	P1-0M	2014 10 04	88.7	0.14	0.85	13.3	< 0.1	< 0.5	23	< 0.01	36,600	< 0.5	< 0.1	4.31	55	< 0.05	< 0.5	20.3	-	7.54	< 0.5	916	1	0.014	7,000	< 0.01	< 0.1	10	0.218	1.4	< 3
	P1-30M	2014 10 04	***483***	0.2	1.85	38.5	< 0.1	< 0.5	34	< 0.01	47,900	< 0.5	0.29	**13.2**	***439***	0.168	0.88	***781***	-	17.8	< 0.5	2,130	0.94	0.01	13,000	< 0.01	< 0.1	23	0.403	2.3	< 3
	P1-0M	2014 10 07	28.4	0.14	0.86	12.5	< 0.1	< 0.5	24	< 0.01	37,900	< 0.5	< 0.1	3	< 30	< 0.05	< 0.5	13	-	7.82	< 0.5	897	1.06	< 0.01	6,900	< 0.01	< 0.1	< 10	0.218	1.3	< 3
	P1-26M	2014 10 07	***355***	0.17	1.79	35.2	< 0.1	< 0.5	34	< 0.01	48,700	< 0.5	0.26	**11.3**	***427***	0.151	0.87	***761***	-	17.2	< 0.5	1,970	1.01	< 0.01	12,700	< 0.01	< 0.1	20	0.386	2.2	< 3
	P2-0M	2014 10 04	33	0.15	0.82	12.9	< 0.1	< 0.5	24	< 0.01	37,300	< 0.5	< 0.1	3.24	< 30	< 0.05	< 0.5	24.3	-	8.26	< 0.5	931	1.06	0.012	7,210	< 0.01	< 0.1	< 10	0.237	1.3	< 3
	P2-25M	2014 10 04	***470***	0.19	1.8	38	< 0.1	< 0.5	33	< 0.01	46,600	< 0.5	0.27	**12.9**	***398***	0.149	0.83	***747***	-	17	< 0.5	2,120	0.99	0.01	12,800	< 0.01	< 0.1	22	0.383	2.3	< 3
	P2-0M	2014 10 07	21.3	0.14	0.82	11.9	< 0.1	< 0.5	24	< 0.01	38,200	< 0.5	< 0.1	3.1	< 30	< 0.05	< 0.5	13.4	-	8.02	< 0.5	876	1.05	< 0.01	6,800	< 0.01	< 0.1	< 10	0.21	1.3	< 3
	P2-26M	2014 10 07	***333***	0.18	1.75	34.3	< 0.1	< 0.5	34	< 0.01	48,600	< 0.5	0.23	**10.7**	***374***	0.156	0.95	***731***	-	17.3	< 0.5	1,930	0.88	< 0.01	12,400	< 0.01	< 0.1	19	0.381	2.1	< 3

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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] 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.

[k] Based on a change from background at any one time. Prebreach range (Minnow, 2014) 0.54-2.73 NTU and <3-5.5 mg/L TSS.

TABLE 3b: Summary of Analytical Results for Mount Polley, Polley Lake - Blanks DRAFT

			Physical Parameters																			
Sample Location	Sample ID	Sample Date (yyyy mm dd)	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[g] (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	Change of 8[k]	n/a	n/a	Change of 25	n/a	n/a	700-5,680[d]	32,800	60-120[d]	32,800[f]	600	1264-1510[d]	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[k]	n/a	n/a	Change of 5[k]	+20% of median background	n/a	135-1,090[d]	3,000	20-40[d]	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[j]	Change of 1	n/a	n/a	n/a	n/a	n/a	n/a	10,000	1,000	10,000[f]	250	1,500	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	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a
POL-EQUIPMENT BLANK	VAN1B	2014 09 30	< 0.5	-	***6.14***	-	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	**0.0021**
POL-FIELD BLANK	POL-5-FB	2014 10 07	< 0.5	-	***5.49***	-	< 0.1	< 2	< 10	< 3	< 0.5	< 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).

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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] 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.

[k] Based on a change from background at any one time. Prebreach range (Minnow, 2014) 0.54-2.73 NTU and <3-5.5 mg/L TSS.

TABLE 3b: Summary of Analytical Results for Mount Polley, Polley Lake - 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)	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 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
POL-EQUIPMENT BLANK	VAN1B	2014 09 30	< 3	< 0.05	< 30	< 0.1	0.113	< 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
POL-FIELD BLANK	POL-5-FB	2014 10 07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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] 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.
[k] Based on a change from background at any one time. Prebreach range (Minnow, 2014) 0.54-2.73 NTU and <3-5.5 mg/L TSS.

TABLE 3b: Summary of Analytical Results for Mount Polley, Polley Lake - 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)	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)	Tin (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	0.0285-0.048[d]	n/a	1 (Cr(+6))	110	9.9-16.57[d]	1,000	65.3-142.6[d]	870	1465-2248[d]	Methyl mercury analysis in progress	2,000	25-110[d]	373,000-432,000	2	0.1-3.0[d]	n/a	0.3	n/a	2,000	300	6	33-81.75[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	3.4-6.2[d]	n/a	5.9-8.9[d]	14[i]	974-1287[d]		1,000	n/a	n/a	n/a	0.05-1.5[d]	n/a	n/a	n/a	n/a	n/a	n/a	7.5-56.25[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	1	250	n/a	n/a	10	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	50	1	n/a	n/a	n/a	10	n/a	200,000	n/a	n/a	n/a	20	n/a	5,000
POL-EQUIPMENT BLANK	VAN1B	2014 09 30	< 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	0.087	-	< 0.05	< 0.5	< 50	< 0.5	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
POL-FIELD BLANK	POL-5-FB	2014 10 07	< 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	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3

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

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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] 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.

[k] Based on a change from background at any one time. Prebreach range (Minnow, 2014) 0.54-2.73 NTU and <3-5.5 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)	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		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	+/-1 Degree change from ambient[g]	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[j]	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[j]	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-1	HAD-1	2014 10 01	114	-	8.23	-	1.14	225	149	< 3	6.73	0.385	8.4	< 5	< 1	-	0.75	79	36.5	86.8	< 0.001	0.004
	HAD-1	2014 10 10	121	-	7.44	-	1.24	243	166	3.1	6.19	0.387	44.1	7.3	11.4	-	0.9	84	39.9	87.7	< 0.001	0.0055
	HAD-1X	2014 10 10	120	-	7.64	-	1.68	242	170	6.5	6.43	0.395	48.1	8.1	11.5	-	0.91	84	40	89.6	< 0.001	0.0056
	QA/QC RPD %		< 1	-	3	-	30	< 1	2	*	4	2	*	*	< 1	-	*	*	< 1	2	*	*
HAC01A	HAC-01A	2014 09 29	116	-	7.87	-	***1,410***	241	189	**2,700**	6.04	0.997	58.1	< 5	1.5	-	0.85	84	37.3	98.5	0.0014	0.0038
	HAC-01A	2014 09 30	116	-	7.82	-	***1,200***	249	172	**2,020**	6.5	1.12	54.2	< 5	< 1	-	0.97	82	36.2	98.4	0.002	0.0062
	HAC-01A	2014 10 01	116	8.06	7.95	12.4	***905***	246	146	**1,930**	6.76	0.928	51.6	< 5	< 1	-	0.86	93	36.2	96.8	0.0012	0.0049
	HAC-01A	2014 10 03	141	8.14	8.03	10	***938***	290	207	**1,670**	5.82	0.655	258	6.3	**93.2**	-	1.79	115	52.8	103	0.007	***0.0112***
	HAC-01A	2014 10 04	121	8.3	8.18	12.5	***1,530***	264	181	**3,410**	6.32	0.432	100	13.9	12.8	-	1.23	100	41.1	98.2	0.0018	0.0046
	HAC-01A	2014 10 05	120	8.15	8.07	12.66	***1,890***	259	191	**2,750**	6.93	0.476	105	14.3	18.5	-	1.06	90	41.3	88.8	0.003	0.0072
	HAC-01A	2014 10 06	121	8.06	8.12	13.33	***2,480***	256	192	**2,890**	6.23	< 1	116	12.1	11.6	-	0.95	91	39.4	99.5	0.0034	0.0063
	HAC-01A	2014 10 07	121	8.05	8.13	14	***2,120***	257	189	**2,580**	6.39	< 1	113	17.9	10.5	-	1	95	39.1	94.4	0.0032	0.0053
	HAC-01A	2014 10 08	119	8.32	8.09	13.55	***1,720***	257	184	**2,480**	6.58	< 1	104	8.1	7.7	-	0.96	104	38.6	95.1	0.0022	0.0042
	HAC-01A	2014 10 09	126	8.3	8.07	13.4	***709***	267	195	**1,270**	6.24	0.44	56.6	9.1	8.1	-	1.1	91	38.9	102	0.002	0.0051
	HAC-01A	2014 10 11	128	-	7.62	-	***1,380***	261	192	**1,750**	6.34	0.46	116	12.4	11.3	-	1.11	93	39.7	109	0.0034	0.008
	HAC-01A	2014 10 12	127	8.13	7.75	10.93	***1,340***	270	186	**2,290**	6.75	< 1	107	11	11	-	1.12	89	39.5	106	0.0021	0.0056
	HAC-01A	2014 10 13	137	8.14	7.75	10.1	***637***	286	217	**1,210**	6.31	0.43	111	32	7.6	-	2.1	95	47.1	117	0.0013	0.0046
	HAC-01A	2014 10 14	133	8.24	7.79	10.173	***766***	282	200	**1,620**	7.99	0.62	71.1	71.2	10.8	-	1.51	112	38.9	111	< 0.001	0.0042
	HAC-01A	2014 10 15	128	8.25	8.03	8.662	***376***	264	193	**1,030**	7.15	0.4	79.1	22.1	9.9	-	1.35	86	37.9	111	0.0018	0.0053
HAC05	HAC-05	2014 10 01	116	-	8.18	-	***19.9***	230	153	**89**	6.9	0.423	9.7	< 5	< 1	-	0.78	80	36.7	89.2	< 0.001	0.0048
	HAC-05X	2014 10 01	116	-	8.18	-	***21.1***	231	162	**114**	6.67	0.392	9.7	< 5	< 1	-	0.78	81	36.6	88.9	< 0.001	0.0042
	QA/QC RPD %		0	-	0	-	6	< 1	6	25	3	8	*	*	*	-	*	*	< 1	< 1	*	*
	HAC-05	2014 10 10	120	-	7.57	-	10.8	246	170	41.2	6.5	0.376	44.7	7.6	11	-	0.94	86	40.1	91.6	< 0.001	0.0053

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 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
HAD-1	HAD-1	2014 10 01	6.8	37.2	< 30	5.17	2.08	0.829	6.71	0.11	0.77	11.1	< 0.1	24	< 0.01	< 0.5	< 0.1	2.53	< 0.05	< 0.5	6.85	< 0.5	1.02	< 0.01	< 0.01	< 10	0.208	1.2	< 3
	HAD-1	2014 10 10	5.7	39.7	< 30	5.45	1.87	0.958	7.36	0.14	0.88	12.8	< 0.1	22	< 0.01	< 0.5	< 0.1	2.38	< 0.05	0.61	7.21	< 0.5	1.03	< 0.01	< 0.01	< 10	0.212	1.2	< 3
	HAD-1X	2014 10 10	5.8	39.2	< 30	5.39	1.77	0.952	7.45	0.14	0.86	12.8	< 0.1	22	< 0.01	< 0.5	< 0.1	2.32	< 0.05	0.56	7.41	< 0.5	1.04	< 0.01	< 0.01	< 10	0.218	1.2	< 3
	QA/QC RPD %		*	1	*	1	6	< 1	1	*	2	0	*	*	*	*	*	*	*	*	3	*	*	*	*	*	3	*	*
HAC01A	HAC-01A	2014 09 29	23.4	36.7	< 30	5.82	28.2	1.11	7.64	0.21	1.42	30.7	< 0.2	25	< 0.02	< 0.5	< 0.2	12.5	< 0.1	< 1	7.53	< 1	0.99	< 0.02	< 0.02	< 10	0.493	2	< 3
	HAC-01A	2014 09 30	18.7	36.8	< 30	5.81	23.5	1.04	6.89	< 0.2	1.4	31.7	< 0.2	24	< 0.02	< 0.5	< 0.2	9.85	< 0.1	< 1	6.91	< 1	0.97	< 0.02	< 0.02	< 10	0.475	2.2	< 3
	HAC-01A	2014 10 01	**81.6**	36.9	91	5.78	27.7	1.02	7.19	< 0.2	1.36	28.6	< 0.2	28	< 0.02	< 0.5	< 0.2	9.83	< 0.1	< 1	7.32	< 1	0.98	< 0.02	< 0.02	12	0.479	2.2	< 3
	HAC-01A	2014 10 03	30.6	45.1	< 30	6.83	140	1.73	11.1	0.32	1.65	40.6	< 0.2	31	< 0.02	< 0.5	< 0.2	10.5	< 0.1	< 1	13.4	< 1	1.49	< 0.02	< 0.02	< 10	0.589	2.6	< 3
	HAC-01A	2014 10 04	21.5	38.3	< 30	6.05	23.1	1.17	7.82	0.21	1.37	33.2	< 0.2	24	< 0.02	< 0.5	< 0.2	9.25	< 0.1	< 1	8.68	< 1	0.99	< 0.02	< 0.02	< 10	0.507	2.3	< 3
	HAC-01A	2014 10 05	**162**	37.8	216	6.12	28.9	1.19	7.42	0.25	1.44	36.1	< 0.2	24	< 0.02	< 0.5	< 0.2	10.2	0.13	< 1	8.33	< 1	1.05	< 0.02	< 0.02	19	0.501	2.8	8.5
	HAC-01A	2014 10 06	**152**	38.7	176	5.93	30.3	1.18	7.7	0.25	1.53	35.9	< 0.2	28	< 0.02	< 0.5	< 0.2	9.07	0.13	1.1	8.06	< 1	1.06	< 0.02	< 0.02	19	0.572	3.1	< 3
	HAC-01A	2014 10 07	**190**	38.2	244	6.15	31.8	1.12	7.33	0.23	1.59	33.1	< 0.2	25	< 0.02	< 0.5	< 0.2	9.55	0.14	< 1	8.17	< 1	1.01	< 0.02	< 0.02	21	0.533	2.8	< 3
	HAC-01A	2014 10 08	**57.5**	38	48	5.79	27.5	1.1	7.42	0.24	1.56	32.2	< 0.2	27	< 0.02	< 0.5	< 0.2	6.97	< 0.1	< 1	8.06	< 1	1.01	< 0.02	< 0.02	< 10	0.563	2.7	< 3
	HAC-01A	2014 10 09	**52.8**	39.9	37	6.3	36.2	1.25	7.68	0.2	1.39	32.5	< 0.2	26	< 0.02	< 0.5	< 0.2	15.7	< 0.1	< 1	8.4	< 1	0.99	< 0.02	< 0.02	< 10	0.468	2.2	< 3
	HAC-01A	2014 10 11	**96.4**	40.5	119	6.47	42.4	1.19	8.32	0.25	6.12	33.5	< 0.2	24	< 0.02	< 0.5	< 0.2	9.15	< 0.1	< 1	8.3	< 1	0.97	< 0.02	< 0.02	13	0.542	2.9	< 3
	HAC-01A	2014 10 12	33.7	40.3	56	6.49	40.2	1.14	8.04	0.23	1.58	30.3	< 0.2	43	< 0.02	< 0.5	< 0.2	8.1	< 0.1	1.8	8.31	< 1	0.91	< 0.02	< 0.02	< 10	0.53	2.7	< 3
	HAC-01A	2014 10 13	32.5	43.2	50	7.15	32.7	1.38	9.67	0.21	1.28	31.4	< 0.1	30	< 0.01	< 0.5	< 0.1	10.1	0.05	1.77	11.4	0.61	0.95	< 0.01	< 0.01	11	0.548	2	< 3
	HAC-01A	2014 10 14	42.6	41.4	40	7.23	49	1.57	9.23	0.19	1.22	29.1	< 0.1	26	0.013	< 0.5	0.13	14.8	< 0.05	1.25	9.46	0.82	1.03	< 0.01	< 0.01	< 10	0.587	1.9	< 3
	HAC-01A	2014 10 15	10.8	39.6	< 30	7.07	30	1.15	8.05	0.17	1.09	25.3	< 0.1	22	< 0.01	< 0.5	< 0.1	11.8	0.051	0.86	7.91	0.68	0.92	< 0.01	< 0.01	< 10	0.389	1.5	< 3
HAC05	HAC-05	2014 10 01	8.3	37.9	< 30	5.27	8.64	0.866	6.88	0.12	0.82	12.5	< 0.1	25	< 0.01	< 0.5	< 0.1	5.97	< 0.05	< 0.5	6.92	< 0.5	0.97	< 0.01	< 0.01	< 10	0.219	1.2	< 3
	HAC-05X	2014 10 01	7.9	37.8	< 30	5.29	8.51	0.854	6.86	0.13	0.82	12.7	< 0.1	25	< 0.01	< 0.5	< 0.1	6.01	< 0.05	< 0.5	7.11	< 0.5	1.01	< 0.01	< 0.01	< 10	0.228	1.2	< 3
	QA/QC RPD %		*	< 1	*	< 1	2	1	< 1	*	0	2	*	*	*	*	*	< 1	*	*	3	*	*	*	*	*	4	*	*
	HAC-05	2014 10 10	6.2	39.2	< 30	5.47	9.85	0.987	7.37	0.14	0.84	13.8	< 0.1	22	< 0.01	< 0.5	< 0.1	6.16	< 0.05	0.57	7.42	< 0.5	1.06	< 0.01	< 0.01	< 10	0.231	1.2	< 3

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)	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	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	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-1	HAD-1	2014 10 01	37.1	0.14	0.78	12.1	< 0.1	< 0.5	27	< 0.01	36,700	< 0.5	< 0.1	3.4	< 30	< 0.05	0.71	5,160	11.5	-	6.82	< 0.5	825	0.93	< 0.01	6,330	< 0.01	< 10	0.181	1.3	< 3
	HAD-1	2014 10 10	63.1	0.15	0.83	14	< 0.1	< 0.5	25	< 0.01	39,300	< 0.5	< 0.1	4.01	48	< 0.05	0.57	5,420	17.9	-	8.21	< 0.5	992	1.08	< 0.01	7,450	< 0.01	< 10	0.237	1.4	< 3
	HAD-1X	2014 10 10	62.1	0.16	0.91	14	< 0.1	< 0.5	25	< 0.01	38,700	< 0.5	< 0.1	4.09	44	< 0.05	0.56	5,300	17.8	-	8.25	< 0.5	985	0.95	< 0.01	7,350	< 0.01	< 10	0.231	1.4	< 3
	QA/QC RPD %		2	*	9	0	*	*	*	*	2	*	*	*	*	*	*	2	*	-	< 1	*	< 1	*	*	1	*	*	3	*	*
HAC01A	HAC-01A	2014 09 29	***41,200***	0.55	***27.9***	459	1.3	< 1	35	**0.636**	115,000	***66.1***	**36.9**	***910***	***68,400***	***27.3***	**50**	32,500	***1,590***	-	7.14	**76**	6,400	1.87	0.554	9,520	0.271	**2,110**	2.52	**130**	**163**
	HAC-01A	2014 09 30	***33,800***	0.48	***18.9***	310	0.96	< 1	34	**0.446**	89,700	***63.7***	**30.3**	**402**	***58,000***	***20.3***	**44.2**	25,600	***1,180***	-	5.97	**73**	5,390	1.36	0.303	8,370	0.23	1,580	1.8	**99.6**	**137**
	HAC-01A	2014 10 01	***33,000***	0.56	***19.6***	319	1.02	< 1	35	**0.501**	89,500	***58.4***	**28.8**	***519***	***57,100***	***19.3***	**41.6**	26,000	***1,180***	-	6.86	63.4	5,250	1.65	0.367	8,510	0.207	1,800	1.9	**105**	**141**
	HAC-01A	2014 10 03	***31,400***	0.64	***17.9***	334	0.79	< 1	34	**0.451**	81,100	***61.8***	**26.9**	**404**	***51,100***	***16.4***	**33.7**	24,200	***1,300***	-	11.5	68.7	5,750	1.81	0.275	11,800	0.192	1,560	1.67	**101**	**122**
	HAC-01A	2014 10 04	***43,900***	0.67	***24.2***	424	1.19	< 1	37	**0.636**	99,500	***86.9***	**39.1**	***614***	***73,300***	***24.5***	**49.7**	31,900	***1,650***	-	8.26	97.6	6,570	1.88	0.432	10,000	0.292	**2,130**	2.51	**140**	**178**
	HAC-01A	2014 10 05	***49,500***	0.68	***30.1***	500	1.48	< 1	37	**0.832**	119,000	***95***	**44.5**	***795***	***95,700***	***28.9***	**61.2**	39,800	***1,820***	-	8.55	**103**	7,290	**2.35**	0.562	9,630	**0.318**	**2,770**	2.7	**168**	**210**
	HAC-01A	2014 10 06	***49,300***	0.59	***24.6***	426	1.36	< 1	37	**0.715**	115,000	***102***	**43.6**	***535***	***85,300***	***29.6***	**61.8**	36,800	***1,830***	-	6.7	**113**	6,780	1.75	0.448	9,810	**0.346**	**2,220**	2.52	**147**	**204**
	HAC-01A	2014 10 07	***42,800***	0.6	***23.1***	407	1.24	< 1	34	**0.617**	108,000	***84.9***	**39.1**	***561***	***82,300***	***27.7***	**58.7**	35,600	***1,560***	-	7.5	92.7	6,220	1.85	0.401	9,040	**0.317**	**2,350**	2.4	**130**	**187**
	HAC-01A	2014 10 08	***42,000***	0.62	***20.1***	358	1.15	< 1	35	**0.646**	106,000	***84.6***	**36.3**	**352**	***76,100***	***25.5***	**57.3**	31,500	***1,460***	-	6.85	**92.4**	6,070	1.69	0.331	8,860	**0.319**	1,980	2.33	**115**	**171**
	HAC-01A	2014 10 09	***31,500***	0.54	***17.9***	372	0.95	< 1	37	**0.325**	86,800	**40.8**	**24.5**	***660***	***48,000***	***15.7***	**34.1**	24,500	***1,040***	-	8.78	43.8	5,830	1.6	0.373	10,100	0.155	1,900	1.85	**109**	**108**
	HAC-01A	2014 10 11	***35,300***	0.67	***19.6***	296	0.94	< 1	31	**0.468**	86,300	***67.1***	**29.4**	**333**	***61,200***	***20.8***	**48.6**	26,500	***1,200***	-	7.32	73.5	5,220	1.34	0.285	9,550	0.249	1,600	1.69	**91.6**	**141**
	HAC-01A	2014 10 12	***35,900***	0.51	***15.6***	283	0.96	< 1	39	**0.47**	92,900	***65.1***	**28.8**	**306**	***60,900***	***21.3***	**54.5**	26,500	***1,170***	-	7.03	73.5	5,220	1.26	0.268	9,210	0.24	1,600	1.83	**88.8**	**133**
	HAC-01A	2014 10 13	***22,300***	0.46	***11.5***	226	0.66	< 0.5	34	**0.286**	79,000	**39.7**	**19**	**282**	***39,000***	***13.7***	**34.8**	20,500	***837***	-	9.87	44.6	4,260	1.25	0.204	10,300	0.159	1,130	1.46	**61.2**	**85.2**
	HAC-01A	2014 10 14	***29,400***	0.52	***15.5***	295	0.85	< 0.5	34	**0.334**	77,000	**44.3**	**23**	**437**	***42,900***	***14.9***	**34**	22,200	***1,010***	-	8.75	48.8	5,410	1.51	0.307	10,200	0.167	1,360	1.8	**83.2**	**103**
	HAC-01A	2014 10 15	***15,600***	0.45	**8.62**	173	0.43	< 0.5	24	**0.2**	61,700	**26.9**	**12.7**	**203**	***26,000***	**8.75**	**19.5**	15,500	***569***	-	7.51	30.3	3,430	1.1	0.137	8,550	0.105	802	1.01	**44.8**	**58.5**
HAC05	HAC-05	2014 10 01	***1,630***	0.15	1.9	37.3	< 0.1	< 0.5	28	0.015	38,400	**1.13**	1.06	**61.1**	***1,700***	0.733	1.7	5,750	***69.6***	-	6.89	1.2	1,320	1	0.026	6,810	< 0.01	107	0.312	**6.8**	5.2
	HAC-05X	2014 10 01	***1,510***	0.15	1.9	34.2	< 0.1	< 0.5	28	0.021	39,600	**1.19**	1.03	**76.3**	***1,640***	0.721	1.69	5,940	***70.1***	-	7.09	1.24	1,230	1	0.027	6,840	< 0.01	99	0.313	**6.3**	6
	QA/QC RPD %		8	*	0	9	*	*	*	*	3	*	3	22	4	2	*	3	< 1	-	3	*	7	*	*	< 1	*	8	< 1	8	*
	HAC-05	2014 10 10	***902***	0.18	1.66	27.6	< 0.1	< 0.5	25	0.017	39,900	0.67	0.59	**51.8**	***892***	0.441	1.13	5,620	***58.1***	-	7.75	0.78	1,170	1	< 0.01	7,190	0.01	51	0.284	4	3.6

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 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 5: Summary of Exceedences for Mount Polley, Quesnel Lake from September 29nd to October 16th

Sampling Locations	Field pH	Total Phosphorus	TDS	Nitrate Nitrogen	Dissolved Aluminum	Total Aluminum	Total Cadmium	Total Chromium	Total Copper	Total Iron	Total Manganese	Total Selenium	Total Zinc
		Number of exceedences during reporting period[a]											
BCWQG (Aquatic Life (30day)) [Freshwater Aquatic Life (30day Av.)]				**1**	**5**				**75**				**2**
QUR-1													
QUL-2									3				
QUL-2a									6				
QUL-18					1				4				
QUL-21									5				
QUL-21a									5				
QUL-22									1				
QUL-23									1				
QUL-31a									5				
QUL-40									6				
QUL-40a									5				
QUL-66					2				7				
QUL-66a					2				4				
QUL-79									9				
QUL-87									3				
QUL-94				1					1				
QUL-120									3				
QUL-120a									3				
QUL-131									2				1
QUL-135									1				1
QUL-ZOO-8a									1				
BCWQG (Aquatic Life) [Freshwater Aquatic Life (General/Max)]	**2**	**42**			**1**		**3**	**10**	**47**	**10**		**1**	
QUR-1		1											
QUL-2		2						1	3	1			
QUL-2a		6							6				
QUL-18		3						3	4	3			
QUL-20		1											
QUL-21		4							5				
QUL-21a		3							5				
QUL-22	2	1											
QUL-31a									1				
QUL-36		1											
QUL-40									2				
QUL-40a		1							2				
QUL-66		6			1		1	4	7	4			
QUL-66a		3						2	4	2			
QUL-79		1							4				
QUL-81		1											
QUL-94		1										1	
QUL-112		1					1						
QUL-113		1											
QUL-120		1							1				
QUL-120a		2											
QUL-131									2				
QUL-135		1							1				
QUL-136		1											
QUL-ZOO-8a							1						
BCWQG (Drinking Water) [Drinking Water]	**2**	**1**			**1**								
QUL-22	2												
QUL-66					1								
QUL-94		1											
Canadian Drinking Water Quality (Drinking Water) [AO]	**2**		**1**			**69**				**34**	**24**		
QUL-2						3				3	3		
QUL-2a						6				4	3		
QUL-18						4				4	3		
QUL-21						6				5	4		
QUL-21a						5				5	3		
QUL-22	2												
QUL-31a						5							
QUL-40						6							
QUL-40a						5							
QUL-66						7				7	5		
QUL-66a						4				4	3		
QUL-79						9				2			
QUL-87						2							
QUL-94			1										
QUL-120						3							
QUL-120a						3							
QUL-131						1							

[a] Number of exceedences recorded at given location during reporting period, umber included QAQC duplicate samples. Refer to analytical tables for details.

Table 6: Summary of Exceedences for Mount Polley, Polley Lake from September 22nd to October 7th

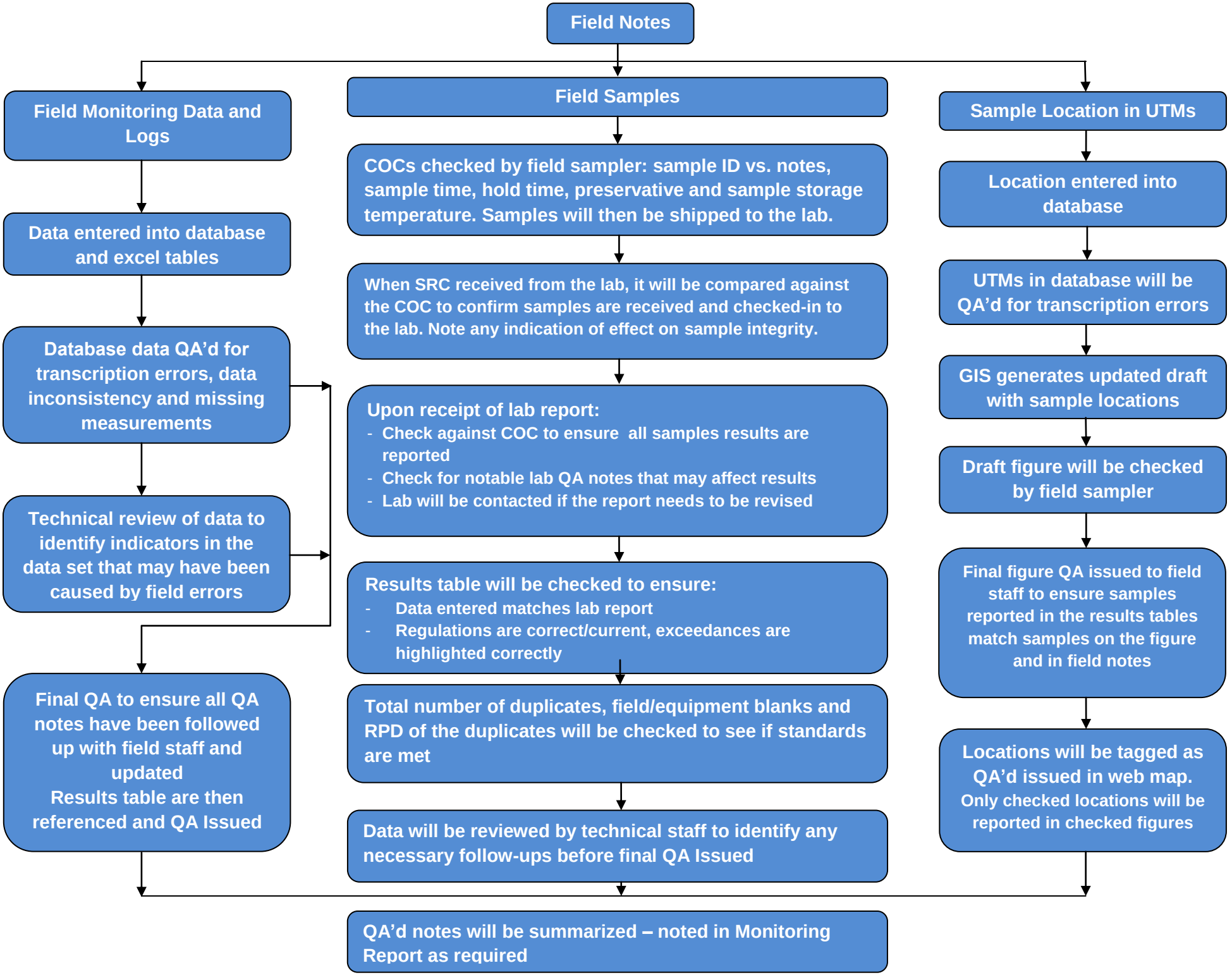
Sampling Locations	pH Field	Nitrite Nitrogen	Total Phosphorus	Total Aluminum	Total Copper	Total Iron	Total Manganese
	Number of exceedences during reporting period[a]						
BCWQG (Aquatic Life (30day)) [Freshwater Aquatic Life (30day Av.)]		**4**			**5**		
P1					2		
P2					2		
POL-5		3					
POL-6		1			1		
BCWQG (Aquatic Life) [Freshwater Aquatic Life (General/Max)]		**3**	**13**				
P1			3				
P2			4				
POL-5		3	4				
POL-6			2				
BCWQG (Drinking Water) [Drinking Water]	**4**		**4**				
P1	1		2				
P2	1		2				
POL-5	1						
POL-6	1						
Canadian Drinking Water Quality (Drinking Water) [Aesthethic Objectives	**4**			**7**		**4**	**8**
P1	1			2		2	2
P2	1			2		2	2
POL-5	1			2			3
POL-6	1			1			1

[a] Number of exceedences recorded at given location during reporting period, umber included QAQC duplicate samples. Refer to analytical tables for details.

Table 7: Summary of Exceedences for Mount Polley, Hazeltine Creek from September 29nd to October 15th

Sampling Locations	Turbidity	TSS	Nitrite Nitrogen	Total Phosphorus	Dissolved Aluminum	Total Aluminum	Total Arsenic	Total Cadmium	Total Chromium	Total Cobalt	Total Copper	Total Iron	Total Lead	Total Lithium	Total Manganese	Total Nickel	Total Selenium	Total Thallium	Total Titanium	Total Vanadium	Total Zinc
BCWQG (Aquatic Life (30day)) [Freshwater Aquatic Life (30day Av.)]	17	17	1		7					15	18		15	15	11						15
HAC01A	15	15	1		7					15	15		15	15	11						15
HAC05	2	2									3										
BCWQG (Aquatic Life) [Freshwater Aquatic Life (General/Max)]	17	17	1		3		15	15	17		18	17				5	1	4	5	17	14
HAC01A	15	15	1		3		15	15	15		15	15				5	1	4	5	15	14
HAC05	2	2							2		3	2								2	
HAD-1																					
BCWQG (Drinking Water) [Drinking Water]	17			1			2				7										
HAC01A	15			1			2				7										
HAC05	2																				
HAD-1																					
Canadian Drinking Water Quality (Drinking Water) [Aesthetic Objectives]						18						18			18						
HAC01A						15						15			15						
HAC05						3						3			3						
Canadian Drinking Water Quality (Drinking Water) [MAX]							14		11				14								
HAC01A							14		11				14								

[a] Number of exceedences recorded at given location during reporting period, umber included QAQC duplicate samples. Refer to analytical tables for details.


Field Notes
Field Monitoring Data and Logs
Data entered into database and excel tables
Database data QA'd for transcription errors, data inconsistency and missing measurements
Technical review of data to identify indicators in the data set that may have been caused by field errors
Final QA to ensure all QA notes have been followed up with field staff and updated
Results table are then referenced and QA Issued
Field Samples
COCs checked by field sampler: sample ID vs. notes, sample time, hold time, preservative and sample storage temperature. Samples will then be shipped to the lab.
When SRC received from the lab, it will be compared against the COC to confirm samples are received and checked-in to the lab. Note any indication of effect on sample integrity.
Upon receipt of lab report:
- Check against COC to ensure all samples results are reported
- Check for notable lab QA notes that may affect results
- Lab will be contacted if the report needs to be revised
Results table will be checked to ensure:
- Data entered matches lab report
- Regulations are correct/current, exceedances are highlighted correctly
Total number of duplicates, field/equipment blanks and RPD of the duplicates will be checked to see if standards are met
Data will be reviewed by technical staff to identify any necessary follow-ups before final QA Issued
Sample Location in UTMs
Location entered into database
UTMs in database will be QA'd for transcription errors
GIS generates updated draft with sample locations
Draft figure will be checked by field sampler
Final figure QA issued to field staff to ensure samples reported in the results tables match samples on the figure and in field notes
Locations will be tagged as QA'd issued in web map.
Only checked locations will be reported in checked figures
QA'd notes will be summarized – noted in Monitoring Report as required

Legend
COC – Chain of Custody
GIS – Geology Information System
ID – Identification number
QA – quality assured
RPD - Relative Percent Difference
SRC – Sample Receive Confirmation
UTM - Universal Transverse Mercator