

### **FACTSHEET**

For Immediate Release 2014ENV0063-001175 August 12, 2014 Ministry of Environment Ministry of Energy and Mines Cariboo Regional District

#### Mount Polley tailings pond situation update

WILLIAMS LAKE – Government and Cariboo Regional District (CRD) officials continue to work together to address the breach at the Mount Polley tailings pond, to test the local drinking water to determine if it is safe for locals to drink or bathe in, and to help ensure the safety and well-being of local residents.

This factsheet will be updated daily with the latest information available.

#### New today:

- 1. The Ministry of Environment received water samples from Polley Lake late last night and have shared them with Interior Health (IH). The health authority is reviewing them closely and is expected to provide an update on water quality and the water advisory in place later today.
- 2. The Cariboo Chilcotin Coast Tourism Association will highlight the tourism stories of the region in meetings with international travel media next week at the GoMedia Marketplace in Winnipeg. Hosted by the Canadian Tourism Commission, this is the largest annual travel media event in Canada where over 100 Canadian tourism marketers and businesses meet with over 300 international media who focus on travel.

#### Current situation:

- The flow out of the breach has decreased dramatically, but has not completely stopped. Imperial Metals has begun building a temporary dike to stop flow out of the pond.
- Imperial Metals is also now pumping water out of Polley Lake both down Hazeltine Creek
  into Quesnel Lake and back into Wight and Springer Pits, two open pits on the mine. By
  controlling this water release as soon as possible, it will significantly lower the potential
  risk of another breach. An uncontrolled release of the stored water in Polley Lake could
  cause additional risks to human health and a further delay in possible rescinding of the
  drinking water advisory currently in place.
- Until further notice, the water quality advisory remains in place for communities that get their water from Polley Lake, Hazeltine Creek, Cariboo Creek and all parts of Quesnel Lake, as well as the Quesnel River south of 6236 Cedar Creek Road. This includes the communities of Winkley Creek, Abbott Creek, Mitchell Bay and the East Arm of Quesnel Lake. IH will continue to evaluate water samples as they arrive and will update the communities as more information becomes available. \*\*Note: boiling will not help\*\*

- The state of local emergency (SOLE) remains in place, giving the CRD exceptional powers
  in the interest of ensuring public safety. Under the SOLE, the CRD has issued an Order to
  Restrict Access to the Mt. Polley mine area to help ensure public safety. Authorized mine
  employees and government officials are exempt. Mt. Polley staff have said they will use
  their personnel to secure and control entry into the area. The CRD is having signage
  made that will be posted to mark the area on the ground.
- Points that help define this area are located at the north end of Polley Lake, on the Bootjack Forest Service Road, on Gavin Lake Road and two points on the Horsefly Likely Road (Ditch Road). In addition, an area on Quesnel Lake near the mouth of the Hazeltine Creek is also restricted.
- There have been no reports of injuries or people getting sick from drinking water. There have been no reports of property damage.
- Portable showers have been installed at the old forestry site at 5989 Cedar Creek Road and are now open for residents and visitors to use.
- The cause of the breach is still unknown at this time. Ministry of Environment conservation officers are investigating the breach. Ministry of Energy and Mines mine inspectors also are investigating.
- The Province has established regular briefings with First Nations to ensure they are getting as much real-time information as possible.
- The Conservation Officer Service (COS) will continue to deliver and post information packages in Likely to update residents on the current situation as new information becomes available.
- Emergency Management BC (EMBC) and the CRD Emergency Operations Centre (EOC) are working together on response to and recovery of this event, including human impacts. Government resource specialists are in the Likely area to support the EOC in Williams Lake. This team will co-ordinate site-level Provincial response and recovery activities in cooperation with Imperial Metals, the party responsible for site management.
- The CRD EOC has offered that Imperial Metals position a liaison in the EOC in Williams Lake to help improve a co-ordinated response.
- Mt. Polley Mine staff are assisting waterfront property owners with debris clean up.
- A support team is available to offer local residents emotional support for their unique impacts and coping needs. These trained volunteers provide services to communities affected by emergencies and disasters. The CRD, EMBC and Provincial Health Services Authority are coordinating this effort and will be making more information available to all impacted communities. All potable water provided to residents affected has been donated and/or provided by Mt. Polley/Imperial Metals.
- All costs associated with the cleanup of the breach are the responsibility of Imperial Metals, and will not be borne by B.C. taxpayers.

#### Polley Lake water stabilization plan:

Sediments and debris have created an unstable blockage at Polley Lake that has resulted in a build-up of water that could result in a sudden uncontrolled breach. It's necessary to reduce the excess water in Polley Lake in order to stabilize the situation and to avoid a potential breach and further release of sediments and debris into the surrounding waterways.

The potential for rain could further increase water levels in Polley Lake and outflows from Hazeltine Creek. A controlled release of excess water with a discharge pipe will help to stabilize the area and reduce the risk of a breach and further sediments reaching Quesnel Lake.

Imperial Metals has completed constructing a discharge pipe to Hazeltine Creek downstream from the tailings blockage and is now pumping water from Polley Lake. The pumps are operating at their capacity, pumping approximately 8,000 gallons per minute.

The water will then flow downstream into Quesnel Lake where it will be tested daily. Once the water level is reduced to a safe level, technicians will commence water and sediment sampling in Hazeltine Creek. The map of the discharge pipe route is available at: <a href="http://www.env.gov.bc.ca/eemp/incidents/2014/mount-polley.htm">http://www.env.gov.bc.ca/eemp/incidents/2014/mount-polley.htm</a>

Currently, water is also being pumped out of Polley Lake by a second, smaller system, into Wight and Springer Pits, two open pits on the mine, at a rate of approximately 800 gallons per minute.

#### Water sampling:

The Ministry of Environment received water samples from Polley Lake late last night and have shared them with Interior Health (IH). The health authority is reviewing them closely and is expected to provide an update on water quality and the water advisory in place later today.

To date, environmental testing has shown that the vast majority of water samples have come back at safe levels, according to Canadian Drinking Water Guidelines. Water samples taken by Imperial Metals from the shore of Polley Lake on Aug. 7, 2014, have been tested and are very close to historical levels prior to the breach of the tailings pond.

Additionally, Ministry of Environment water samples taken on Aug. 6, 2014, from six locations in Quesnel River and Quesnel Lake have been tested and confirm all samples from these two water sources meet provincial and federal drinking water guidelines.

The Ministry of Environment will continue to provide water sampling results to First Nations, the First Nations Health Authority (FNHA), IH officials and the CRD EOC as they become available. The ministry will continue to conduct water sampling tests daily to determine the impacts on water quality and is also working with Imperial Metals to develop both short- and long-term plans for further water quality testing

IH will continue to evaluate water samples as they arrive and will update the communities as more information becomes available. There are approximately 100-200 residents within the affected area.

The ministry is posting results on its website, including a map of sampling locations: http://www.env.gov.bc.ca/cemp/incidents/2014/mount-polley.htm

#### Drinking water advisory:

Despite the encouraging results from the Imperial Metals' tests of Polley Lake that were released on Friday, the **DO NOT USE** Order by IH's Regional Medical Health Officer remains in place until corroborating independent Ministry of Environment sample results from Polley Lake are reviewed by all parties involved. These were received late yesterday and IH is currently reviewing them.

On Aug. 8, 2014, IH lifted the do not use water advisory for communities that get their water from Quesnel River. The water quality advisory remains in place for communities that get their water from Polley Lake, Hazeltine Creek, Cariboo Creek and Quesnel Lake, as well as the Quesnel River south of 6236 Cedar Creek Road. This includes the communities of Winkley Creek, Abbott Creek, Mitchell Bay and Quesnel Lake. It is important to note, in the event of an unplanned large flow of water from Polley Lake, the **DO NOT USE** order will be reinstated on the larger area.

The advisory does not apply to people in Williams Lake, Quesnel or other towns along the Fraser River. Fishing by First Nations along the Fraser is also not affected.

On Aug. 7, 2014, Save-On-Foods, in conjunction with the Canadian Red Cross donated 18,000 500ml bottles of water and 1,440 four-litre bottles of water. These bottles have been distributed to Likely and area residents in need. This donation supplements the work of the CRD, which has organized delivery of water to Likely because the main supplier of bottled water in the area, a small grocery store, could not keep up with the demand.

#### Wildlife:

Freshwater fish have been collected daily for tissue analysis. The only reported dead fish is a rainbow trout. It was brought to the attention of government on Aug. 6, 2014, following the public meeting in Likely. It was collected by researchers with the University of Northern BC. Ministry of Environment boat crews have been on the water since Aug. 4, 2014, and they have not found nor received any other dead fish.

Generally, tissue analysis takes 40 days to complete however all efforts are being made to expedite the testing. There have been no adverse effects on fish or wildlife observed to date.

FNHA staff, including those from Environmental Health, are developing a sampling program to address the concerns of immediate consumption of fish, and will focus on salmon tissue sampling in the confluence areas of the Quesnel and Fraser River.

Collection of salmon will be co-ordinated with First Nation fisheries departments with analysis co-ordinated through the FNHA Environmental Health Services contracted laboratory. A two-to-three day turnaround time is anticipated following the arrival to the lab.

The Ministry of Forests, Lands and Natural Resource Operations (FLNRO) has also made its wildlife team available to investigate reported wildlife concerns.

#### On-the-ground provincial support:

Currently, there are more than 50 provincial government staff on the ground in Williams Lake, Likely and in the surrounding areas. They are all supporting with the investigation of the

incident and recovery of the area.

They include biologists, conservation officers, mine inspectors, emergency management specialists, health protection officers, debris disposal workers, communications officers, and community support and job assistance workers.

Environment Canada has an additional five staff on site in the area. As well, EMBC has activated both its northeast Provincial Regional Emergency Operations Centre (PREOC) and the Provincial Emergency Operations Centre (PECC) in support of this incident. There are three staff at the PREOC in Prince George and another seven staff activated at the PECC in Victoria to support all the work being done in the Cariboo.

#### Pollution abatement order:

On Aug. 6, 2014, the Ministry of Environment issued a Pollution Abatement Order (PAO) to Mt. Polley Mining Corp. This order required immediate action to stop the further release of mine tailings into nearby waterways and to submit environmental impact assessments and clean-up action plans to the ministry.

It also required the company to submit a written summary of actions taken to stop the release of mine tailings and to undertake preliminary environmental impact assessment and submit an action plan.

Imperial Metals met the Aug. 6, 2014 deadline requirements of the order to submit an Action Plan for the Preliminary Environmental Impact Assessment (EIA) and initiate environmental monitoring. The Ministry of Environment conditionally approved the submission on Aug. 10, 2014. Imperial Metals has provided, and will be initiating a plan to stop the flow from the tailings impoundment breach as required by item 1 of the PAO.

The company must also submit a detailed action plan by Aug. 15, 2014, and it is required to report weekly on the implementation of action plan measures.

#### Investigation:

Ministry of Energy and Mines inspectors continue their investigation and are continuing with interviews of mine staff and a review of all applicable documentation on the mine site.

Ministry of Environment conservation officers are independently investigating the breach. Conservation officers are Special Provincial Constables under the Police Act with a wide suite of powers associated with that designation. Although part of government, the COS is unfettered in its investigations as it has the power to investigate and forward recommendations for charges when warranted directly to provincial crown counsel.

If the public has any information, they are asked to call the Report all Poachers and Polluters (RAPP) line at 1 877 952-7277 or online at: <a href="https://www.env.gov.bc.ca/cos/rapp/form.htm">www.env.gov.bc.ca/cos/rapp/form.htm</a>

The inspectors of mines and other agencies will undertake a comprehensive investigation to determine causes for the breach. This will take several months. Lessons learned will be applied to other mines in the province as appropriate.

Dike construction at the tailings pond and other infrastructure:

Work continues on dike construction at the tailings pond breach. The dike is being built in a horseshoe shape just on the inside of the breach to stabilize the tailings material and keep it inside the impoundment when it rains. The company estimates that it will take about three weeks to complete.

Three hundred Imperial Metals employees are working on the dike construction and clean up.

In addition, good progress continues to be made by West Fraser to boom the debris in Quesnel Lake and prevent it from reaching the bridge. The Likely Bridge is not at risk. Most of the large woody debris is now contained within booms and Imperial Metals is working with West Fraser and FLNRO on a disposal plan.

#### Worker supports:

Staff from the Ministry of Jobs, Tourism and Skills Training (JTST) are in contact with the company to understand current job impacts and to communicate provincial support services. Initial information from the company suggests that, at this time, most of the mine employees remain working.

The JTST Community Transition Manager is on the ground, co-locating with the United Steelworkers at their local office in Williams Lake, to co-ordinate support and gather intelligence on worker and community impacts and services.

WorkBC Employment Services Centre (ESC) supports help connect people with employment opportunities and skills training. These will be mobilized in the area this week and work is being done to determine the best way to connect with impacted workers. The WorkBC ESC will be available to join in any on the ground services and support in Likely as needed, and will be available to visit Likely early this week.

Workers who need help connecting with skills training or employment opportunities can contact the local WorkBC Employment Services Centre in Williams Lake at 250 398-5133 to request support.

#### Tourism information:

All tourism operations in the Cariboo Chilcotin region remain open, operational and ready to welcome guests.

The Cariboo Chilcotin Coast Tourism Association will highlight the tourism stories of the region in meetings with international travel media next week at the GoMedia Marketplace in Winnipeg. Hosted by the Canadian Tourism Commission, this is the largest annual travel media event in Canada where over 100 Canadian tourism marketers and businesses meet with over 300 international media who focus on travel.

In the lead-up to the GoMedia Marketplace, several international tourism media will see the Cariboo Chilcotin Coast as part of a familiarization tour through British Columbia.

People with vacation plans that include travelling to, or through, this area of the Cariboo Chilcotin Coast, the most up-to-date information on the affected area can be can be found on the CRD EOC Facebook page at <a href="www.facebook.com/CRDemergencyoperations">www.facebook.com/CRDemergencyoperations</a>, the CRD website <a href="www.cariboord.ca">www.cariboord.ca</a>, or by calling 250 398-5581.

#### Previous site inspections:

The Mount Polley mine has a valid Mines Act permit and the company has been generally compliant with the Health, Safety and Reclamation Code and their Mines Act permit conditions.

Following reports of a previous breach at the mine, Ministry of Energy and Mines officials investigated an incident on May 24, 2014, and determined this was not a breach. Rather, the height of the tailings pond was above regulation. This occurred in a different area of the tailings pond than the Aug. 4, 2014, dam failure.

At the time of the advisory, the distance between the water elevation and the crest of the dam (freeboard) was less than one meter. The tailings pond level returned to authorized levels and freeboard was approximately 2.4 meters when last measured. Mine records show that the operation was carrying out visual dam inspections and measuring freeboard at an acceptable frequency, including daily measurements following the incident.

The Ministry of Energy and Mines conducted a geotechnical inspection at the mine in September 2013, which resulted in no inspection orders related to the tailings facility.

Here is a list of recent advisories to Mount Polley from the Ministry of Environment, only one of which was related to height of the tailings pond. The Ministry of Environment is responsible to ensure no unauthorized effluent discharge from the tailings pond structure:

- May 24, 2014: The ministry issued an advisory to Mount Polley Mining Corporation for exceedance of the height of effluent within the tailings impoundment. The effluent level returned to authorized levels commencing June 30, 2014.
- April 18, 2014: The ministry issued an advisory to Mount Polley Mining Corporation for bypass of authorized treatment works. The site experienced high flows due to spring freshet which caused the pump system to become blocked and resulted in an overflow of effluent to the long ditch. Flow did not reach the creek and was directed into Till Borrow Pit.
- January and April 2012: The ministry issued an advisory to Mount Polley Mining Corporation for not submitting monitoring data for one of the groundwater monitoring wells.
- Aug. 30, 2012: The ministry issued a warning to Mount Polley Mining Corporation for failure to report exceedance of the height of effluent for the perimeter pond. This perimeter pond overflowed, releasing approximately 150 cubic metres of effluent over 13 hours to ground.

As required by the Health, Safety and Reclamation Code for Mines in British Columbia, companies must submit Annual Dam Safety Inspection reports to the Chief Inspector on an annual basis. Inspections of dams by ministry geotechnical inspectors are conducted at a frequency informed by the dam consequence classification that is designated by the dam design engineers in accordance with the Canadian Dam Association Dam Safety Guidelines.

Since the Mount Polley mine was permitted in 1995, there have been 16 geotechnical inspections conducted by ministry geotechnical inspectors. One inspection was conducted each year from 1995-2001 and in 2006, 2008 and 2013. Two inspections were conducted in each of

2005, 2007 and 2012.

In summary, seven geotechnical inspections took place before the mine went into care and maintenance in 2001 and nine geotechnical inspections have taken place since it re-opened in March 2005. The last geotechnical inspection was conducted in September 2013 and resulted in no inspection orders related to the tailings facility.

Here is a historical record of the number of all types of inspections (including geotechnical) each year from 1999 to 2014:

- 1999 1
- 2000 4
- 2001 22 (care and maintenance started September 2001)
- 2002 4
- 2003 2
- 2004 5
- 2005 15 (mine re-opened March 2005)
- 2006 10
- 2007 10
- 2008 8
- 2009 9
- 2010 7
- 2011 4
- 2012 6
- 2013 15
- 2014 (to-date) 8

Monitoring devices, called piezometers, designed to measure the pressure of water in the dam, did not show any changes in the water pressure before the dam breach. The last piezometer readings were taken on Aug. 2, 2014. The investigation will determine if the piezometers were located correctly.

#### Incident summary:

Early in the morning of Aug. 4, 2014, the tailings pond dam at the Mount Polley Mine site breached and released an estimated 10 million cubic metres of water and 4.5 million cubic metres of fine sand into Polley Lake. Hazeltine Creek flows out of Polley Lake and the flow of contaminated water continued into Quesnel Lake.

During the initial breach of the tailings dam the bulk of the original flow created an unstable plug at the base of Polley Lake. The balance of the tailings and water went down Hazeltine Creek and deposited at the confluence of the creek and river. Hazeltine Creek was originally about 1.2 metres wide and is now up to 150 metres wide.

Waterways affected by this event include Quesnel Lake, Polley Lake, Hazeltine Creek and Cariboo Creek. Additionally the Horsefly Likely Forest Service (Ditch Road) was washed out at Hazeltine Creek and the Gavin Lake Forest Service Road was washed out closer to the dam breach area.

#### Other facts:

- The Mount Polley Mine is owned by Imperial Metals and is approximately 30 kilometres from the community of Likely.
- The tailings pond at Mount Polley Mine is four kilometres by four kilometres.
- This is a large breach and extremely rare. Officials with the Ministry of Energy and Mines do not recall anything of this magnitude in at least the last 40 years.

#### Fishery impacts:

Fisheries and Oceans Canada has issued a precautionary closure on a portion of the Chinook salmon fishery until sample results have come in. See the notice here: <a href="http://www-ops2.pac.dfo-mpo.gc.ca/fns-sap/index-eng.cfm?pg=view\_notice&DOC\_ID=161980&ID=all\_notice&DOC\_ID=161980&ID=all\_notice&DOC\_ID=161980&ID=all\_notice&DOC\_ID=161980&ID=all\_notice&DOC\_ID=161980&ID=all\_notice&DOC\_ID=161980&ID=all\_notice\_ID=161980&ID=all\_notice\_ID=161980&ID=all\_notice\_ID=161980&ID=all\_notice\_ID=161980&ID=all\_notice\_ID=161980&ID=all\_notice\_ID=161980&ID=all\_notice\_ID=161980&ID=all\_notice\_ID=161980&ID=all\_notice\_ID=161980&ID=all\_notice\_ID=161980&ID=all\_notice\_ID=161980&ID=all\_notice\_ID=161980&ID=all\_notice\_ID=161980&ID=all\_notice\_ID=161980&ID=all\_notice\_ID=161980&ID=all\_notice\_ID=161980&ID=all\_notice\_ID=161980&ID=all\_notice\_ID=161980&ID=16198

#### For more information:

A public information line has been set up by the CRD: 250 398-5581

If the public has any information that would be helpful to the investigation into the cause of the tailings pond breach, they are asked to call the Report all Poachers and Polluters (RAPP) line at 1 877 952-7277 or online at: <a href="www.env.gov.bc.ca/cos/rapp/form.htm">www.env.gov.bc.ca/cos/rapp/form.htm</a>

Updates will be posted to the CRD's emergency operations Facebook page, here: <a href="http://www.facebook.com/CRDemergencyoperations">http://www.facebook.com/CRDemergencyoperations</a> or on the CRD website at: <a href="http://www.cariboord.ca/">http://www.cariboord.ca/</a>

For a collection of documents from government and partners surrounding the Mount Polley breach, visit: <a href="http://www.env.gov.bc.ca/eemp/incidents/2014/mount-polley.htm">http://www.env.gov.bc.ca/eemp/incidents/2014/mount-polley.htm</a>

#### Media Contacts:

David Karn Ministry of Environment 250 953-3834 Sandra Steilo Ministry of Energy and Mines and Responsible for Core Review 250 952-0617

Shelly Burich
Cariboo Regional District
Communications
250 305-8151
sburich@cariboord.ca

Connect with the Province of B.C. at: www.gov.bc.ca/connect



### **Certificate of Analysis**

Mount Polley - KM4354

Date: August 20, 2014

C1-	Elements									
Sample	S	С								
MPMC 1A	0.07	0.11								
MPMC 2A	0.13	0.16							ĺ	
MPMC 3A	0.08	0.08								
MPMC 4A	0.05	0.09								
MPMC 5A	0.07	0.50								
MPMC 6A	80.0	0,33								
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Norman Monteith, Certified Assayer

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NICHT SOLUTIONS BIGGET PARTIES





Reference:

### **ANALYSIS CERTIFICATE - MOUNT POLLEY**

Job Number: 8000-AUG14

000-AUG14

Client: Geology

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				/ <sub>6</sub> == 1	<b>3%</b>
TERMINERA - T	4.19	9.167	0.110	2.188	0.070
24-4024 @ 74	3.28	13.334	0.160	4.062	0.130
SPANDAGE AS A	2.67	6.667	0.080	2.500	0.080
<b>建</b> 加速设置	4.80	7.500	0.090	1.562	0.050
BEMPWORA:	19.05	41.669	0.500	2.188	0.070
SPAMENTE OA	11.00	27.502	0.330	2.500	0.080
GaVIn Lk Rd	6,97	28.335	0.340	4.062	0.130

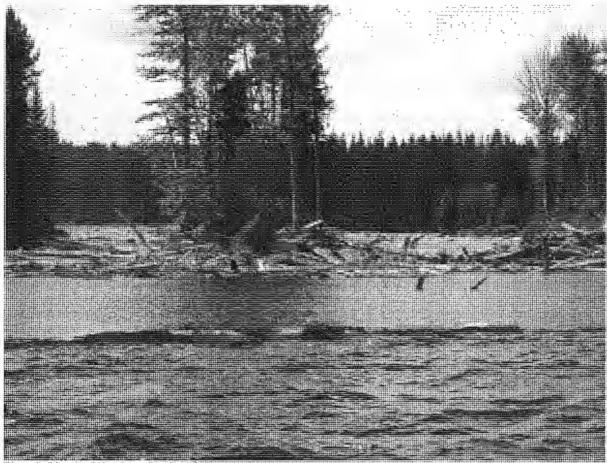
Bill Smith
Laboratory Manager

Received Date: 21 August 2014

Report Date:

21 August 2014





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#### Recommendations:

The following recommendations are steps in planning for the design of the ramp works.

- 1. Provide a report and prescriptions for emergency works.
- 2. Plans for immediate construction of ramp including environmental monitoring and supervision.
- Complete hydrotechnical study of lake levels and effects on design.
   Complete ramp works design based on site information collected.
- 5. Provide a design summary report for construction.
- 6. Complete a removal plan for short term installation of ramp.
- 7. Liason with agencies to achieve all permits and approvals required to complete works.
- 8. Construction and completion of works including supervision.

It is expected that the installation of the ramp will be completed within the next week and will remain in place until fall of 2015. This will allow for additional removal of material in the spring and summer of 2015 after freshet.

Emily Cheung, MASC, PEng. FEC For DWB Consulting Services Ltd.



Historical Information: Works are planned to begin with the ramp down to the high water mark and then to the present water levels for construction of the causeway ramp. The location was used previously as a log sort and load out and evidence of these operations are still clearly visible.



Photo 2: Load out up lake from present water level

Field Visit: The site visit was conducted to determine feasibility of a ramp into Quesnel Lake in order to remove the boomed logs and additional logs waiting to be towed/barged to the load out location. A boat tour was conducted down the lake along the shores to examine the logs and debris that has not been collected yet as well as the material already piled and the material boomed at the mouth of Hazeltine Creek.

Location of Works: Along Quesnel Lake, BC, with load out location at 52° 29° 56" Lat and 121° 12' 4". Hazeltine Creek is located west of the load out location approximately 20 km along Quesnel Lake. The ramp location from the current shoreline to the end of the ramp is estimated at 25m long by 12m wide for use by an excavator and trucks.

DWB File: 14274-219 August 20, 2014



#### SITE INSPECTION REPORT

DATE OF SITE VISIT: August 19, 2014

DATE OF REPORT: August 20, 2014

OWNER:

Imperial Metals Coporation

CONTRACTOR:

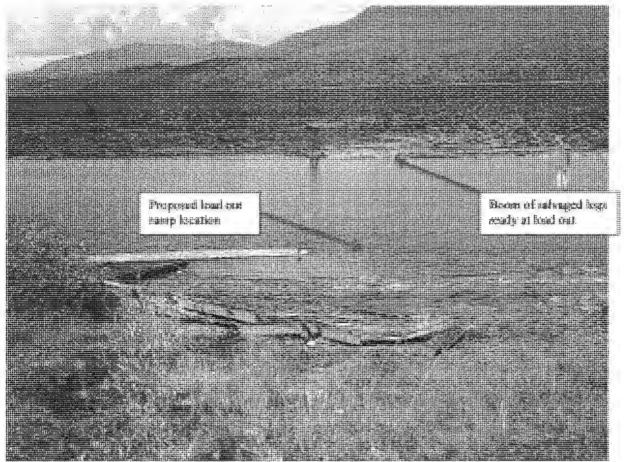
Eaglecrest

Project:

Quesnel Lake Log Salvage

Purpose of Site Visit: Inspection of the log load out location and condition of log salvage operations for the design of the causeway ramp for load out of barged and towed log booms on Quesnel Lake as a result of material brought down Hazeltine Creek to Quesnel Lake. Scope includes determining suitability of location for ramp including design for ramp. Photo 1 shows the proposed location and existing logs ready for load out.

Due to the nature of the works and requirements for quick removal of the material from the lake, emergency prescriptions including design requirements for the ramp are to be prepared for use in construction.



Plasio 5: Existing beans of extragal logs and proposed that not recognise atten-

DWB File: 14274-219

Imperial Metals Corporation Emergency Works Prescriptions

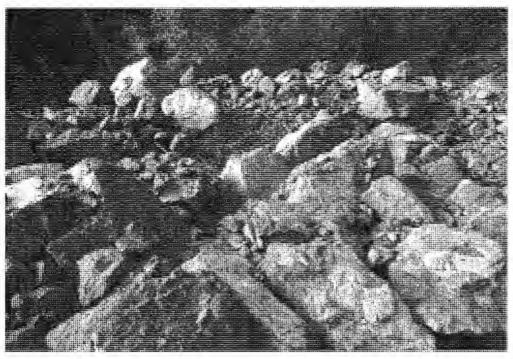
Priority: Immediate

Quesnel Lake, BC

Site :

Quesnel Lake Load out Construction Details Z Road

20-Aug-14



Acceptable well graded rock available at local quarry (pending testing).

#### Works to be completed:

- 1 Upland ramp access along load out access
- 2 Ramp in lake water from present water to approx. 25m
- 3 For detail section of ramp see sketch below
- 4 Side slopes to be constructed at 2:1 (H:V)
- 5 Provide smooth transition from upslope to in lake ramp construction
- 6 Smaller material must be sloped gradually to prevent erosion

#### Specifications:

1 Riprap rock Class 50kg

85% avg dimension > 155mm

50% avg dimension > 330mm

15% avg dimension > 475mm

NON WOVEN

RECKLANDER GEOTEXTILE

SHOT ROCK OR

SUFFAMING

GRAVELS.

BOTTOM

RAME SECTION (TYP)

LAKE

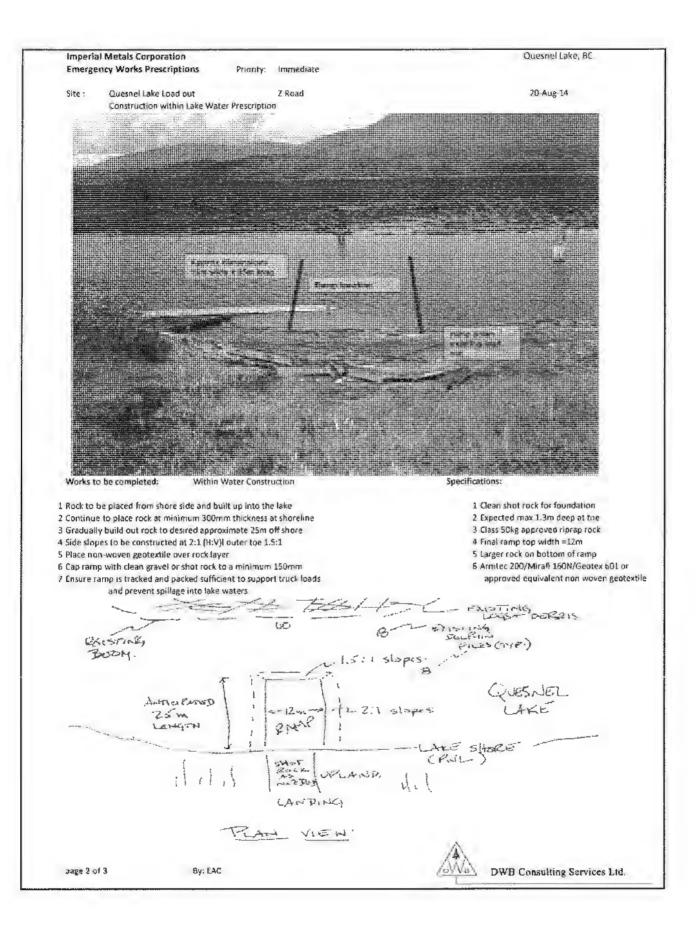
ON BOTTOM

page 3 of 3

By: EAC



DWB Consulting Services Ltd.



Imperial Metals Corporation Emergency Works Prescriptions

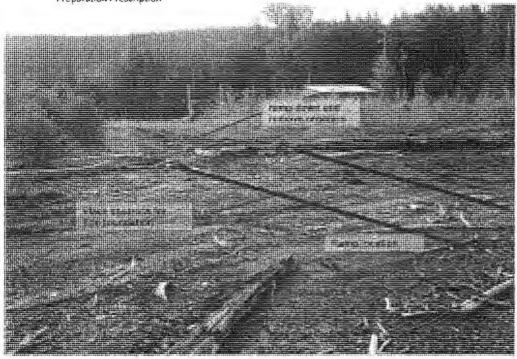
Priority: Immediate

Quesnel Lake, BC

Site:

Quesnel Lake Load out Preparation Prescription Z Road

20-Aug-14



Works to be completed:

Upland

Specifications:

- 1 Prepare ramp down to lake level including stripping
- 2 Place shot rock to firm up foundation for access
- 3 Prepare site in accordance with environmental plan for isolation
- 4 Build up land ramp with shot rock and rock to the present water level
- 5. Use of riprap rock and shot rock required where thickness exceeds 200mm.
- I Clean shot rock for foundation
- 2 Removed organics placed in an appoved location
- 3 Minimum 150mm thick shot rock to provide stabilisation
- 4 Class 50kg riprap

CANDING

PREP RAMP REMOVE CREATURS.

HNIM

South Stand

PWL (sake)

LE SHOT ROCK ON LAKE SHORE MIN 150 MM TH

ATHK. Ith

LONGITUPINAL SECTION TO LAKE

page 1 of 3

By: EAC



DWB Consulting Services Ltd.

CHONCOPRO - PRVNOMBUTAL - FORESTRY - DRAFT



Should you have any questions regarding this report, please do not hesitate to contact either of the undersigned at your convenience.

Sincerely,



Brian Aitken, RPBio, PAg, CPESC Corporate Environmental Manager



Emily Cheung, MASc, PEng, FEC Corporate Engineering Manager

Cc Penny Carpenter (Eaglecrest), Russel Parsons (Imperial Metals), Robin Hoffos (MFLNRO) and Lee Williston (MFLNRO)

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project. Following construction, the EM will prepare a short post construction report with photo documentation of the measures implemented. A component of this report will be an asbuilt with estimated footprint and rock volumes used in construction.

#### **Operation Phase**

Once constructed, it is expected that the ramp will immediately be utilized to start removing debris from the water. As with construction, all equipment must be inspected for leaks/drips before being allowed to be used near the water and on the ramp. Should a spill occur, follow the Spill Plan (refer to bullet 12) and report as required. All employees working near the water need to be trained in spill response. An aquatic spill drum with floating spill boom must be present near the ramp location where it can be quickly deployed in the case of a spill. During woody debris removal with the button top, be careful not to lose small wood pieces into the lake. Should this occur, they will need to be collected and removed. All wood removed from the water will be transported and stored in the upland sort area where it will be sorted/graded for future yet to be determined use.

#### **Decommissioning Phase**

The ramp will be left in place until the summer of 2015. As previously described, it is expected that additional woody debris will be deposited from Hazeltine Creek into Quesnel Lake during the spring runoff in 2015. This woody debris will also need to be removed next year. Once Imperial is confident that all woody debris has been captured and removed, the load out will be fully decommissioned and returned to its predisturbance condition. This should coincide with low water levels in the lake and appropriate fisheries timing windows to minimize environmental impacts. As with the construction phase, an EM will be present and will aid in deploying the floating silt curtain during the rock removal. Turbidity monitoring will also be conducted. Once all the rock has been removed from the lake, a diversion ditch will be installed at the top of the grade to divert surface runoff from the freshly deactivated foreshore. Also, all exposed soils will be seeded. A final bottom survey will be conducted where the woody debris was stored to ensure that no additional wood has sunken. Once complete, an environmental close-out report will be completed, with photos and estimated total volume of wood removed.

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#### Decommissioning Plan

Upon determination through the agencies and Imperial Metals Corp., once the required debris removal operations are completed, the ramp shall be removed. The ramp is to be dismantled by removing the far toe of the ramp furthest in the lake first. If salvage of the rock is required, removal of the capping material should be completed first and then followed by the removal of the geotextile and finally the rock. All materials shall be removed, stored, stockpiled, or disposed of in accordance with Imperial Metals policy and the environmental requirements discussed in this report.

## (C) Environmental considerations for the design, construction, operation and decommissioning of the load out ramp

The following environmental mitigation will be implemented during the engineered design, construction, operation and decommissioning of the load out.

#### Design Phase

During the design, the location was chosen at an historic existing load out location. The footprint of the new structure will be minimized, along with the rock volume so that it can be used until Oct-Nov, but will likely be partially submerged during spring conditions. This design limits the amount of rock required, but also will reduce the decommissioning at the end of its use. All rock used in the ramp construction planned for placement in or near the lake has been tested for ARD (test results appended). The design also incorporates larger rock on the bottom/base of the ramp separated with geofabric and smaller rock/fines on the running surface. The smaller material on the surface will act as a filter to soak any minor leaks or drips that may occur during operation, rather than using purely coarse material where spills would directly enter the lake if they should occur.

#### Construction Phase

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Construction will proceed under appropriate weather conditions and will occur under a compressed timeline of 3-4 days. As machinery will be working around water, all equipment will be inspected for leaks/drips prior to be allowed to work on the project. For the construction phase of the project, an environmental monitor (EM) will be present to conduct these inspections and carry out the balance of the environmental duties described below. Firstly, a construction prework will be held by all parties involved with the construction at which time the EM will go over the conditions of the MFLNRO Order and the mitigation that has been proposed. Then before the ramp is constructed within the lake, a floating silt curtain will be installed around the ramp location. This will prevent any fines from negatively affecting local water quality. The EM will conduct turbidity monitoring inside and outside the floating silt curtain to record its effectiveness. In addition, the EM will conduct fish salvage as required during construction. There will be no stop nets, but the site will be enclosed by the floating silt curtain. An attempt will be made to set minnow traps each night in the isolated area. If fish are caught, they will be recorded and released outside of the enclosed area. The EM will be responsible for implementing/following the Spill Plan (refer to bullet 12) and reporting as required. It should be noted that some heavy leachate was noted to the right of the proposed ramp which appeared to be draining from an adjacent wet draw seeping from an historic log sort area covered with bark. This was not a result of any activities associated with this

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#### **Design Specifications**

Specifications for construction consist of the following:

Riprap rock for ramp base material	Class 50 kg rock	600 m3
Maximum rock side slopes at toe	1.5:1 (H:V)	-
Maximum rock side slopes along ramp	2:1 (H:V)	-
Ramp footprint on lake	-	380 m2
Non Woven geotextile	Armtec 200 or approved equivalent	360 m2
Surfacing material or shot rock capping	3" minus clean gravel or pit shot rock	54 m3

Riprap rock shall be clean angular rock that is consistent with the following gradation requirements:

Class 50kg rock - Approx. Average dimension

85% of rock to have average dimension >155mm

50% of rock to have average dimension >330mm

15% of rock to have average dimension >475mm

The rock must be well graded meaning that all dimensions must be represented in the material supplied. This will provide a more stable ramp consisting of smaller and larger rocks that will fit together.

The rock shall be laid on the lake bottom and not keyed in. Due to the nature of the short term usage of the ramp, the rock is expected to withstand normal wave action and not intended for permanent installation or protection. If unusual events are to occur within the period of time that the ramp is in place, repair work may be required.

All quantities provided are for works within the lake and have allowed for waste for supply quantities. These quantities are supplied for the purpose of procurement and are not an indication of maximum or required quantities. Final requirements will be determined by the design engineer or her representative on site. Any variations from the materials specified, must be approved by the design engineer. Material quantities for preparation of upland slope area have not been provided. Quantities are based on the area agreed upon during the site visit to a maximum of 25m extension into the lake; however, this may be altered at the discretion of the Imperial Metals representative. If further length of ramp is required to meet the required depth of 1.0m above the lake bottom, additional volume of these materials will be required.

#### Conformance

All materials shall meet or exceed the specifications as listed in the table. A site supervisor representative from DWB shall determine suitability of materials should there be any variations or substitutions. Documentation by the site supervisor will be provided to the design engineer along with a constructed volume survey for purpose of reporting. Tracking of volumes shall be completed including truck loads delivered for shot rock, capping material, and riprap rock delivered to site.

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#### General Design

Design considerations for the causeway ramp have been formulated from the site visit conducted August 19, 2014. No site survey information was available at the time of this report; however, due to the nature of the emergency conditions and the requirement to remove the debris as quickly as possible from the lake, the design has been formulated with the use of prescriptions (3 pages inclusive) that include photographs and diagrams outlining the location, size and specifications for the causeway ramp. A site inspection report is also included for reference. The intention of the ramp is to facilitate the removal of the logs and debris with the use of machinery out of the water. It is expected that the ramp will require 1.3m of height to remain out of the water during activities.

Currently the lake level is estimated to be at 1.0-1.3m below the high water mark and historically has an average yearly maximum daily fluctuation of 2.23m with a historical minimum fluctuation of 1.576m and historical maximum of 3.008m. Lake levels historically continue to fluctuate through August and September but the trend shows levels will continue to drop from August through until spring when levels are expected to rise again typically in April (Water Survey of Canada gauged water level station 08KH011 1956-2012). Due to the short term use and unknown water levels in the upcoming seasons, the ramp is not designed to meet a specific control lake level or return period elevation, but simply to provide clearance from lake elevations for the emergency works operations in the next weeks. Spring removal of logs and debris that may be required in 2015 may not be able to commence until lake levels reach below the constructed ramp surface. Lake depths from the present water level measured during the site visit past the toe of the ramp near the boom was 4m or 13ft. Although this was measured beyond the toe of the ramp, it may indicate that additional rock may be required to achieve operating levels if water surface elevations do not continue to drop.

The access causeway ramp design consists of a rock ramp from the existing load out to approximately 25m into Quesnel Lake. The ramp will be wide enough (12m) to accommodate an excavator and trucks for hauling rock in or debris out of the lake. The ramp is to extend from the existing load out access straight out into the lake. The ramp profile will be constructed from a rock base overlain with non-woven geotextile and capped with surfacing material that will seal preventing spills into the rock base below. Additional details are provided in the design specifications and depicted in the prescriptions attached.

#### Construction Procedure

The upslope existing load out access is to be stripped of organics and sufficient base material preferably shot rock, shall be placed to stabilize the access to the present lake water level. Rock thickness shall taper from a minimum 300mm to required thickness estimated at 1000mm at the toe of the ramp. If additional length is required or depths vary from the assumed depths, additional thickness of rock will be required as depths at this location were not confirmed. Once rock has been placed, a non-woven geotextile shall be overlaid on the rock and a cap of granular or shot rock material placed on top to provide a running surface and prevent any spills from entering into the lake from on top of the ramp.

A rock source has been located approximately 1 km from the load out site and samples have been sent to Imperial Metals laboratory to test for acid leaching potential. This rock has been deemed suitable due to its size and angularity but results from the tests were not available at the time of the report.

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- 10) The debris removal around the mouth of Hazeltine Creek will require extensive works; however no works can proceed until the safety concerns at the upslope tailings dam at Mount Polley are addressed. It is hoped that this area will be cleared for work by safety within the next month. If the area around the mouth of Hazeltine Creek cannot be accessed due to safety concerns prior to winter freeze up, it must be secured so that no wood can escape into the lake in the spring. It is fully expected that more woody debris will be deposited into Quesnel Lake from Hazeltine Creek during any flood or heavy rain events due to the instability of the scoured channel. Currently the entire mouth of Hazeltine Creek is contained with a log boom. It is recommended that a second log boom be constructed and left in place until at least next summer for added security during heavy rain events and spring runoff. It has been requested that all works at the mouth of Hazeltine Creek have a first nation monitor present.
- 11) Debris storage at the West Fraser load out will be contained fully within a secured boomed area and anchored to the existing dolphin piles until such time as it can be removed from the water. It is important to conduct a bottom survey before additional debris is stored at this location so that the pre-use condition is known. This area has been previously used for many years as a load out and so it is expected that there is woody accumulations already present to some degree. All small woody debris and any sunken debris as a result of the temporary storage at this location must be removed. Once all debris has been removed and the project complete, a comparison bottom survey must also be completed to provide evidence of this.
- 12) Throughout the debris collection, transport and removal process it is very important that all involved in the clean-up follow general spill prevention and response procedures should a spill be encountered. This is especially important around aquatic environments. All equipment must carry stocked spill kits and crews must be trained in their use and the reporting requirements. In addition, several large drum aquatic spill kits should be present in key locations (i.e., on the barge and at the load out at a minimum). If Imperial has a standard spill plan that can be used, then it should be adopted for this project, otherwise it is recommended that a detailed spill plan be prepared for the project.

#### (B) Engineering considerations for the design and construction of a load out ramp

Once the wood debris has been transported to the West Fraser load out site, it will be temporarily stored in booms secured to the existing dolphin piles. From this storage area it will be pushed to the shallow with a tug where it will be lifted out of the water by a button top log loader. The log loader will deck this material behind the machine where it will be grasped with a front end loader and transported to the upland sort area for sorting and storage until an appropriate use can be determined. As the lake bottom is very soft/shallow and receding at this location, a causeway ramp has been proposed to be constructed in order to be able to reach the wood without having to drive a machine into the water. The temporary ramp will be constructed of rock and will be designed to allow a minimum depth of water at the end during the lowest expected flow so that the wood can be floated to this location for removal.

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significant ruts or beach disturbances have been fully recontoured to natural grade before reboarding the barge.

Where the beach has been determined to be too soft for machinery, the barge will nose into the shore and the ramp will be lowered to the foreshore. The excavator will be allowed to drive down and sit on the ramp, but will not leave the ramp (i.e., no tracks on beach). All material will be reached from the barge. Once all debris is removed or the barge is full, the excavator will move back up the ramp and leave with the barge.

- 7) Mitchell Bay has been identified by MFLNRO as an area of special concern due to the presence of shore spawning kokanee. Shore spawning kokanee are present in Quesnel Lake in critical convergence zones near the mouth of creeks and where upwelling or significant subsurface flows are present. They prefer gravel to moderate sized cobble bottom substrate which is present in Mitchell Bay. Hazeltine Creek area has also been identified as one of these shore spawning locations; however, due to the amount of sediments deposited at the mouth of this creek the habitat has been affected and is less of a concern at this time. MFLNRO has identified a critical spawning period for kokanee starting mid-September in this area. A detailed report by the Province of BC in 2003 entitled, 'Summary of Quesnel Lake Kokanee and Rainbow Trout Biology Stock Management Report No 17' identifies a later period for Quesnel Lake shore spawning kokanee between October and November. In any case, all boating/barging activities along the near shore area in Mitchell Bay need to be completed before this time period to ensure that spawning kokanee populations are not affected. This area should be the highest priority for removing the debris piles before any other area.
- 8) While barging woody debris down the lake, all debris will secured so that it does not fall back into the water. The onboard excavator and toe tug will have spill kits in them as per bullet 12. It will be transported to the West Fraser load out and preferably off loaded directly onto the load out ramp when it arrives as described later in this document. If this is not possible, then the debris will be offloaded into a contained boom area secured to the existing dolphin piles for later removal. Care must be taken to avoid loss of small woody debris into the lake during this process.
- 9) All floating woody debris that is temporarily contained in booms will be barged down the lake in a large boom (ie rather than on a barge). Care must be taken in removing any floating debris that is embedded in the bottom substrate. If it can be removed easily without significant bottom disturbance and/or is a boat hazard it should be removed, otherwise leave the wood embedded and do not remove. Only remove new debris from the recent event (i.e., do not remove older greyed woody debris that was clearly present before the dam failure which provides important aquatic habitat). Once all the floating debris has been corralled, it will be pushed together and enclosed in a large towing boom which will be transported down the lake. It is important that no small woody debris escape during this transport and a follow up boat may be required to pick up straggler pieces that have broken off. Once the boom arrives at the West Fraser off load site, the boom will be secured to the existing dolphin piles for later removal.

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shoreline. At this time the difference between wood that recently came down due to the failure and the older natural occurring wood is very evident.

- All debris possible, both floating and rafted needs to be removed from Quesnel Lake by the end of October.
- 3) All debris accumulation areas along the foreshore which are flat enough to allow access by light tracked equipment via barge and have been mapped and <u>categorized as heavy or medium</u> will be re-visited to determine beach conditions. Any area of beach that is soft and will lead to significant rutting by machinery will be flagged as 'Machine Free Zones'. Any area of these beaches which provide enough ground support that significant rutting will not occur may be accessed by light tracked equipment and debris piled as close to the existing shoreline as possible to allow efficient collection of debris by a barge. Some beaches may not be suitable for tracked machinery at all and may require all hand labour. Only remove new debris from the recent event (ie do not remove older greyed woody debris that was clearly present before the dam failure which provides important aquatic habitat). Each beach should have at least one landing location flagged so that the barge knows where to off-load any equipment during drop off or pick up.
- 4) Any debris accumulation areas along the foreshore that have been mapped and <u>categorized as light</u> or that are too steep for machinery will be removed by hand (no equipment permitted on the beach). This debris will be removed from the foreshore and scattered above the high water mark (HWM) of the lake or picked directly from the water via barge. Any debris which is too large to move by hand will be bucked into manageable pieces before it is placed above the HWM. Only remove new debris from the recent event (ie do not remove older greyed woody debris that was clearly present before the dam failure which provides important aquatic habitat).
- 5) EXCEPTION TO POINTS 3 AND 4 FOR CARIBOO ISLAND. Those affected areas along Cariboo Island will all be hand labour only. No machinery permitted on foreshore. Due to archeological considerations, First Nation monitoring required for any works on the island and all woody debris will be removed even in light density areas as per methodology described in bullet 6, paragraph II.
- 6) Once material has been piled on the beach, it will be removed via barge and tug boat with an excavator (or in the case of Mitchell Bay may be partially accessed from the land with a dump truck). Where the beach has been determined to be stable, the barge will nose into the shore and ramp lowered to the foreshore. The excavator will disembark from the barge and load the debris onto the deck. The debris will be piled carefully onto the barge ensuring that all pieces are secured so that they do not fall off during transport. If the barge is full, the excavator may be left at the beach until the barge arrives back for final pick up. If this should occur, the excavator must be parked as far back from the water as possible, preferably in an area which does not drain directly back into the lake. All equipment in operation within the HWM of the lake will have fully stocked spill kits in them should a spill arise. Refer to spill plan in bullet 12. Once the beach has been fully cleared of debris, the excavator will prepare to leave the beach, ensuring that any

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West Fraser log sort/load out (52° 29' 56" Lat and 121° 12' 4" Long) where it has been contained within log booms. Moving forward, DWB has been asked to provide the following scope of services:

- A. Environmental mitigation and monitoring for the debris containment and clean up along the shoreline by both hand/machines and the transport of this material to the West Fraser load out utilizing tugs via barge/boom,
- B. Engineering expertise to design and construct a suitable load out ramp at the West Fraser site that will allow wood debris to be removed from the boomed storage area at least until the end of October under the receding water levels in the lake. Once removed from the water, the woody debris will sorted and stored upland for uses yet to be determined,
- C. Environmental mitigation and monitoring for the design/construction of the load out ramp described above and also the decommissioning of the ramp in 2015 when it is no longer required.

The following report provides the required engineering and environmental information in the order which it is presented above.

# (A) Environmental mitigation and monitoring requirements for the debris clean up in Quesnel Lake

Clean up operations are well underway and it appears they have been completed in an environmentally sensitive manner thus far. During the inspection with MFLNRO on August 19th, very little floating debris was observed in the lake between the West Fraser load out and Hazeltine Creek that was not already contained within high density debris areas which were enclosed within booms. The largest floating accumulations are in Mitchel Bay and the bay at Hazeltine Creek which is a no work area due to safety constraints concerning the unstable tailings dam at Mount Polley upslope of this location. The majority of the remaining wood debris was rafted along the shoreline due to the receding water levels. A significant portion of this material has been piled along the shoreline via hand labour and small machines. To date, most of the affected shoreline (est 40-50km) has been assessed for debris accumulations and categorized as light, moderate or heavy based on the debris density. Also one load of debris enclosed within a large log boom has been transported to the West Fraser load out location and secured to the existing piles for eventual removal from the lake.

Moving forward, the following Best Management Practices (BMP's) and environmental mitigation will be incorporated into the woody debris clean up and transport to the load out:

1) It is recommended that the entire existing shoreline which was affected by debris accumulations be video recorded before and after the clean-up operations. This will not only provide evidence that the shoreline was adequately cleaned up, but will also provide proof in the spring that there was significant older natural woody debris which was present before the dam failure along the

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August 20, 2014

Ministry of Forests, Lands and Natural Resource Operations Water Stewardship Cariboo Region 400-640 Borland Street Williams Lake, BC, V2G 4T1

DWB File No 14274-219

Attention: David Weir, PAg - Water Section Head

RE: Mount Polley Tailings Pond Failure Debris Clean-Up in Quesnel Lake

The Mount Polley mine tailings pond failure occurred on August 4, 2014 when the tailings pond partially breached, releasing water and tailings slurry into downstream waters. The resulting debris torrent caused by the sudden release of water and sediment behind the dam carried felled trees, mud and debris scoured away the banks of Hazeltine Creek which flows out of Polley Lake and continued into the nearby Quesnel Lake. The debris torrent significantly eroded Hazeltine Creek and the associated riparian vegetation causing a large amount of sediment and woody debris to be deposited into Quesnel Lake.

DWB Consulting Services Ltd (DWB) was contacted on August 15<sup>th</sup> by Penny Carpenter (Eaglecrest) and Russel Gibson (Imperial Metals) and requested to attend the site at Quesnel Lake for a meeting and to provide professional recommendations concerning environmental and engineering aspects of the proposed woody debris clean-up operations. Brian Aitken, RPBio and Emily Cheung, PEng of DWB attended the site August 19<sup>th</sup> to meet with Imperial and Ministry of Forest, Lands and Natural Resource Operations (MFLNRO) staff to discuss the scope of the services required. MFLNRO staff in attendance included David Weir - Water Section Head, Robin Hoffos -Section Head Habitat Management and Lee Williston. The clean-up of the woody debris within the lake was already well underway with significant progress made in the clean-up effort prior to DWB's site meeting.

The reason why DWB was retained by Imperial Metals was to provide engioeering and environmental expertise to the efforts in support of an extension to the Order originally granted to Imperial Metals by MFLNRO to clean up the woody debris in Quesnel Lake under emergency conditions. This original Order expires August 21st and must be extended to allow the clean-up works to continue.

The clean-up of the woody debris in Quesnel Lake is currently being undertaken by a host of local individuals/property owners, machine operators, forests licenses, first nations, consultants and contractors working under the direction of Penny Carpenter (Eaglecrest) and Russel Gibson (Imperial Metals). Clean up of Quesnel Lake to date consisted of: (1) booming the debris along the shoreline in heavy debris areas, (2) using boats to pick up and boom loose floating debris, (3) mapping the shoreline to determine extent and density of the rafted woody debris, (4) piling shoreline woody debris by hand and/or small machinery and (5) using a tug boat and boom sticks to transport some of the woody debris to the exiting

Williams Lake, BC <u>David.J.Weir@gov.bc.ca</u> (250) 398 4924 Cell 250 267-5925

From: Penny Carpenter \$.22

Sent: Tuesday, August 5, 2014 12:46 PM

To: Weir, David J FLNR:EX Subject: RE: Mt Polley

#### Hi David

The Mines Gentleman Steve Rothman will be contacting you regarding the breach of the tailing pond. He will be able to fill you in and maybe it will help the work load so things are not getting duplicated.

Penny Carpenter

From: Weir, David J FLNR:EX [mailto:David.J.Weir@gov.bc.ca]

Sent: August-05-14 11:41 AM To: XT:Carpenter, Penny FLNR:IN

Subject: Mt Polley

As per our discussion

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David.J.Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

#### Attachments:

August 5th 3:15pm order that was sent via Penny Carpenter.

Hello, at this time it is our understanding that Stephen Rothman has the authority under the mines act to order the necessary measures to contain and remove the debris in Quesnel Lake and to authorize the management of the water level on Polley lake.

However: to remove any confusion and to address any shortcoming that might exist between the Mines Act, Water Act and the MOU that guides there coordination I order under Section 85 as follows:

Subject to the requirements of the Mines Act and MOU <a href="http://iwww.env.gov.bc.ca/wsd/sla\_mou/mempr\_mou%202009.pdf">http://iwww.env.gov.bc.ca/wsd/sla\_mou/mempr\_mou%202009.pdf</a> and as it is in the public interest for the protection of safety and the integrity of Hazeltine Creek, Polley Lake, Quesnel Lake and the Quesnel River, recognizing the Mt Polley Mine's willingness to undergo the required work at their own cost and save the province harmless:

- Under the direction of suitably qualified professionals licenced in the Province of BC the corporation is ordered to collect and remove such debris from Quesnel Lake, as a result of the Mt Polley tailings pond failure, as would threaten road infrastructure and stream channel stability. The manner and nature to be suitable to impacted parties Federal Agencies and the Province.
- 2) Under the direction of suitably qualified and experienced professionals licenced in the Province of BC; maintain the Lake level of Polley Lake in a manner that prevents further mass movement of material from Polley lake and Hazeltine Creek.
- 3) This order does not superseded any other legislation, agency, or government authority nor does it save them harmless.
- 4) This order is not intended to mitigate or limit the future punitive action of government with respect any non compliance by Mt Polley Mine.
- 5) This order is a temporary measure and is subject to cancelation or modification under the authority of the Water Act Mines Act or the MOU.
- 6) This order doe not authorize the entry onto private lands.

If necessary a more formal and document can be provided at a future date and in the absence of any direction to the contrary it should be considered to be expired as of August 22<sup>nd</sup> 2014 if not renewed. In addition to the general protection of public interest the specific purpose is to protect the hridge at Likely and to prevent secondary mass movements of material from the failure.

If there are any questions or you feel there is error please contact me. Keeping in mind the rushed nature of this document.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations 2. Under the direction of suitably, qualified and experienced professionals, licenced in the Province of British Columbia: maintain the lake level of Polley Lake in a manner that prevents further mass movement of material from Polley Lake and Hazeltine Creek.

By the 31st day of October 2014.

Dated at Williams Lake, Britisb Columbia, this 20th day of August 2014.

David Weir

Engineer under the Water Act

#### **ENGINEER'S ORDER**

#### SECTION 88 OF THE WATER ACT

- WHEREAS Imperial Metals Corporation are the registered owners of Mount Polley Mine, and
- WHEREAS Imperial Metals Corporation you have, or permitted to have, allowed debris to block the outlet of Pollcy Lake, enter Hazeltine Creek and enter into Quesnel Lake, and
- WHEREAS a person commits an offence under Section 93(2) (p) and Section 94(1) (g) of the Water Act who:
  - (p) fails to do an act or thing required to be done by the person under this Act or under an order of the comptroller, regional water manager, engineer or officer;
  - (g) places, maintains or makes use of an obstruction in the channel of a stream without authority, and
- WHEREAS I, David Weir, Engineer under the Water Act, am empowered under Section 88 (1) (j) and (l) of the Water Act to:
  - (j) order the release of stored or impounded water that the engineer considers a danger to life and property;
  - (l) order a person to remove from a stream any substance or thing that the person has put or permitted to get into the stream;

#### I HEREBY ORDER Imperial Metals Corporation to:

1. Under the direction of suitably qualified professionals licenced in the Province of British Columbia: collect and remove such debris from Hazeltine Creek, Quesnel Lake and Polley Lake, as a result of the Mt Polley tailings pond failure; as would threaten public safety, road infrastructure and stream channel stability. Included in this order is approval for the installation and removal of a boat ramp at the West Fraser reload site as discussed during FLNRO joint inspection of August 19<sup>th</sup> 2014. The manner and nature of these activities is to be suitable to impacted parties, Federal Agencies and the Province.

I remind you that embedded debris removal within Polley Lake, Hazeltine Creek and at the Mouth of Hazeltine Creek where it enters Quesnel Lake must be approved by the Environmental Protection Division of the Ministry of Environment prior to being completed.

This order is ancillary to the jurisdictions of the Ministry of Mines and Ministry of Environment and it is expected that overlap will occur between the instructions from these Ministries. Works are to be consistent with the instructions from these Ministries and Federal agencies. This order facilitates the activities that will be approved under the Land act and Forest Act.

An appeal to this order may be taken only as directed within Section 92 of the Water Act. An appeal shall not act as a stay of execution of the order.

This order does not preclude legal proceedings.

Yours truly,

David Weir

Assistant Regional Water Manager

DW/yp

ec: <u>preoc5.ops1@gov.bc.ca</u>, <u>Jennifer.Mcguire@gov.bc.ca</u>, <u>Al.Hoffman@gov.bc.ca</u>, <u>Rodger.Stewart@gov.bc.ca</u>, <u>Robin.Hoffos@gov.bc.ca</u>

Enclosure: August 5th Order and August 20th order.



August 21, 2014

76930-40/Mt Polley

Imperial Metals Corporation 200-580 Hornby Street, Vancouver, BC V6C3B6 604.669.8959

Sent by E:mail only dparsons@imperialmetals.com

Dear Don Parsons:

Enclosed is an Order issued under Section 88(1) of the Water Act.

This order replaces and extends the time period needed for completion of ongoing work to meet the objectives identified in the August 5<sup>th</sup> 3:15 pm order. In addition it provides for additional clarification regarding works needed to achieve the intention of that order. Progress of the activities will be monitored and the order may be extended, modified or cancelled at any time based upon the monitoring results.

Suitably qualified professionals include but are not limited to Geoscientists, Engineers, Archeaologists, Agrologists and Biologists. Robin Hoffos and I met with your representatives on Quesnel Lake to review the ongoing containment and removal of debris on Quesnel Lake including the proposal to improve the ramp at the West Fraser Log dewatering site. The proposals as described were satisfactory under the supervision of the Professional Biologist who was identified as Brian Aitken RP Bio and Professional Engineer Emily Cheung. We have not received the requested information from them but time is of the essence. We have not received information concerning the Professional oversight of operations on Polley Lake. Please maintain a complete record of the activities relating to this order which are to be supplied to us upon request.

Specific issues identified under during the review included Kokanee Shore Spawning, Cariboo Island, embedded debris at the mouth of Hazeltine Creek, natural debris, the installation of a ramp to remove debris, and the placement of light debris above the high water mark. The Williams Lake Indian band has requested monitoring of the debris removal on Cariboo Island due the potential for the destruction or loss of artifacts exposed below and above the high water mark. A contact has been provided to your representatives for you to address this issue. Brian Aitken indicated the intention to collect video evidence for "before and after" work is completed and we wish to receive a copy of this information upon completion of the work.

.../2

Phone: 250.398.4927 Fax: 250.398.4214

#### Weir, David J FLNR:EX

From:

Weir, David J FLNR:EX

Sent:

Monday, August 25, 2014 2:15 PM

To:

Hill, Douglas J FLNR:EX

Subject:

FW: File: 76930-40/Mt Polley

Attachments:

Imperial Metals - Order.pdf; Mount Polley Debris Clean Up in Quesnel Lake.pdf

As requested.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David.J.Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From: Weir, David J FLNR:EX

Sent: Monday, August 25, 2014 9:03 AM

To: Bellefontaine, Kim MEM:EX; Seabourne, Sean FLNR:IN

Subject: FW: File: 76930-40/Mt Polley

Please find the attached as requested. At the time of the order they had not submitted the Clean Up document.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David.J.Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From: Prediger, Yvonne ENV:EX

**Sent:** Friday, August 22, 2014 12:38 PM **To:** 'dparsons@imperialmetals.com'

Cc: Weir, David J FLNR:EX

Subject: File: 76930-40/Mt Polley

Mr. Don Parsons,

Attached will find documents regarding an Order issued under Section 88(1) of the Water Act.

There will not be a hard copy mailed out.

Regards,

Yvorme Prediger

Admin Support

Ministry of Environment

400-640 Borland Street

Williams Lake BC V2G 4T1

#### Weir, David J FLNR:EX

From:

Cameron, Valerie Z FLNR:EX

Sent:

Tuesday, August 26, 2014 8:47 AM

To:

Weir, David J FLNR:EX

Subject:

RE: Spot forecast for Mt Polley issued 10:45 Wednesday August 20, 2014

Thanks for following up Dave.

VZC

From: Weir, David J FLNR:EX

Sent: Monday, August 25, 2014 8:56 AM

To: Hamm, Mark FLNR:EX; Cameron, Valerie Z FLNR:EX

Subject: FW: Spot forecast for Mt Polley issued 10:45 Wednesday August 20, 2014

We can discontinue the spot forecasts now.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC <u>David.J.Weir@gov.bc.ca</u> (250) 398 4924 Cell 250 267-5925

From: Don Parsons [mailto:dparsons@imperialmetals.com]

Sent: Saturday, August 23, 2014 11:34 AM

To: Weir, David J FLNR:EX

Subject: RE: 5pot forecast for Mt Polley issued 10:45 Wednesday August 20, 2014

David Not required. Thanks Don



**Don Parsons**, Chief Operating Officer dparsons@imperialmetals.com 604.488.2652 | mobile 778.836.2652

Imperial Metals Corporation

200-580 Hornby Street, Vancouver, BC V6C3B6 604.669.8959 | www.imperialmetals.com

From: Weir, David J FLNR:EX [mailto:David.J.Weir@gov.bc.ca]

Sent: Thursday, August 21, 2014 12:19 PM

To: Don Parsons

Subject: FW: Spot forecast for Mt Polley issued 10:45 Wednesday August 20, 2014

Hi Don, do you still want to receive these daily spot forecasts?

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David.J.Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From: Cameron, Valerie Z FLNR:EX

**Sent:** Thursday, August 21, 2014 12:00 PM

To: Weir, David J FLNR:EX

Subject: FW: Spot forecast for Mt Polley issued 10:45 Wednesday August 20, 2014

Hi Dave.

I participated on the EMBC Mt Polley coordination call today and heard 2 things amongst others:

- Rowena said that the EOC has closed and they are at Level 1
- Michael Higgins advised Environment Canada that there was no need to provide spot forecasts over the weekend.

We have been received these WMB spot forecasts (attached) from Mark Hamm, which would appear to duplicate the Environment Canada forecasts. The WMB spot forecasts are pretty good, but in an earlier email Mark indicated that if they were not needed to let him know as the WMB forecasters are busy enough without having to do the spot forecast. I had responded to Mark that it would be Andrew Morrison's call on whether to continue with the WMB spot forecasts, but I note that with the EOC shut down that Andrew is probably not even at the EOC anymore. Furthermore, if there is no need for Environment Canada to produce spot forecasts over the weekend, would there still be a need for WMB to produce spot forecasts over the weekend? It would be unfortunate if WMB continued to devote resources to this function simply because no one thought to contact them to stop.

My question: are the WMB spot forecasts needed?

If not, I suggest that you contact Mark and advise him to ask WMB to cease the forecasts. Or if there is someone else you need to talk to about whether the forecasts should proceed?

Please feel free to contact me if you have any questions or require further information.

Valerie

From: Hamm, Mark FLNR:EX

Sent: Wednesday, August 20, 2014 5:22 PM

To: Ewanyshyn, Ron JAG:EX; Weir, David J FLNR:EX; Rothman, Stephen MEM:EX; Morrison, Andrew JAG:EX

Cc: Vanderburgh, Ken FLNR:EX; Palesch, Dan TRAN:EX; Cameron, Valerie Z FLNR:EX; Symonds, Brian FLNR:EX; Stolar,

Harold B FLNR:EX; McGuire, Jennifer ENV:EX; Sundher, Avtar S ENV:EX

Subject: FYI: Spot forecast for Mt Polley issued 10:45 Wednesday August 20, 2014

Apologies for the delay in forwarding!

Mark

#### Mark Hamm, R.P.F.

Resource Manager Cariboo Chilcotin District (Williams Lake) Ministry of Natural Resource Operations

tel 250-398-4399 mob 250-398-0817 fax 250-398-4790 mailto:Mark Hamm@gov.bc.ca

From: Rob Pigott [mailto:envirobc@telus.net]
Sent: Wednesday, August 20, 2014 10:47 AM

To: RWCOCAR HPR P FLNR:EX; PLANS, CAR FLNR:EX; FCRCAR FCA P FLNR:EX; Hamm, Mark FLNR:EX;

EOCDirector@cariboord.bc.ca

Subject: Spot forecast for Mt Polley issued 10:45 Wednesday August 20, 2014

Rob Pigott Enviro-BC Weather Services 1706 Capilano Ave. Comox, BC V9M 1B6 250-339-4424

#### Weir, David J FLNR:EX

From: SG PEP NEA PREOC Operations 1 SG:EX

**Sent:** Monday, August 25, 2014 2:30 PM

To: Woolford, Sonia JAG:EX

Subject: NEA PREOC Situation Report 25 August 2014 1430hrs

Attachments: Aug 25 2014 Sitrep.pdf

Please find attached the situation report for August 25, 2014.

#### Debbie Alexander

Operations Section Chief Northeast Regional PREOC (PREOC 5)

**Emergency Management British Columbia** 

3235 Westwood Drive Prince George, B.C. V2N 1S4 www.pep.bc.ca Ph 250.612-4172 Fax 250.612.4171

24 Hour Emergency Reporting 1.800 663 3456

# Northeast Provincial Regional Emergency Operations Centre (NEA PREOC) SITUATION REPORT August 25, 2014 Update #16

Event: Wildfire and Mt. Polley Dam Failure Date/Time Issued: August 25, 2014 14:00

EMBC Task #: Wildfire 151505; Mount Polley 152048

Operational Period: 08:30 -16:30

**NEA PREOC Level: 1** 

Overall Regional Situation: Wildfire stable; Mount Polley stable

Activated EMBC Staff: 2

The next Situation Report will be issued: August 26, 2014 14:00

\*\* New information

# 1. KEY REGIONAL INFORMATION

**DGIR: Mount Polley** 

- \*\* Next Conference Call scheduled for Thursday, August 28 at 1100 hrs.
- \*\*Imperial Metal Corp continues to build rock berm in front of breach; material progress is 45% complete. Polley
  Lake level 1.44 meters above historic level since pumping began, July 31, 2014. Debris clean-up progressing well
  around town site, beaches and on lake. Water quality and sediment sampling analysis continues.
- \*\*The CRD SOLE and area restriction remain in place. Today Monday August 25 the CRD will submit a request to extend SOLE as it expires Tuesday August 26.

Total Active RCs: 0
Total Active Alerts: 4
Total Orders: 1

Total States of Local Emergency: 1
Total Band Council Resolutions: 0

#### 2. WEATHER FORECAST - Environment Canada

#### Northeast

http://weather.gc.ca/city/pages/bc-79 metric e.html

1

- \*\* Upper ridge of high pressure weakening. Westerly zonal flow over northeastern BC. End of dry period, shower activity every day this week. No risk of thundershowers. Winds SW 20 kms per hr ease tonight, winds again Tuesday up to 30 kms per hour.

#### Likely

http://weather.gc.ca/city/pages/bc-64\_metric\_e.html

\*\* Today cloudy with showers, minimal precipitation 2mm, Wednesday 5mm precipitation. Minimal shower activity
this week. .

#### 3. LOCAL AUTHORITIES, EOC LEVEL, STATUS

Cariboo Regional District EOC - Level 1

- Incident: Wildfires Task # 151596; Mount Polley Task # 152048
- Alerts: 1
- Orders: 1 (This is an order to restrict an area for Mount Polley incident)
- **State of Local Emergency: 1** (SOLE to expire Tuesday, August 26 2014 at 1300 hrs, extension request for SOLE to be submitted today Monday August 25)
- Kluskus/Euchiniko (G40198) Inc # 140179 evacuation alert recinded August 6th.
- Chelaslie (R10070) Inc # 140232 evacuation alert remains in place
- DGIR: Mt Polley
- Imperial Metal Corp:
- \*\*Imperial Metal Corp continues to build rock berm in front of breach, 45% of material progress complete. Polley Lake level is 923.07, drop is 260mm, currently 1.44 m above level as of 31 July 2014.
- \*\*Daily potable water available from 2:00- 4:00 and 7:30 9pm for residents at Spanish Mtn camp,
- \*\*(Installation of second pipeline to Hazeltine Creek will bring pumping capacity to 20,000 gal/min and timeline to approximately 50 day completion, ready to run, geotech writing up safework procedures.
- Debris clean up continues, loose debris has been boomed on Quesnel Lake and focus is on the beaches. Mt Polley is
  replanking a barge to faciliate an excavator to assist in removing debris from the beaches and moving it to the West
  Fraser reload site. Water quality sampling offered to residents: sampled seven intakes and results show elevated
  levels of coliform and ecoli. Continue with lake samples: including water, soil, turbidity. Fish sampling occured in
  conjuction with Soda Creek FN on the Fraser River.
- \*\* Protestors are still in place with blockade at the Likely Road turn off leading to Mt. Polley
- CRD:
- \*\*SOLE still in place to maintain the area restriction for the mine site and surrounding area. SOLE extension request to be submitted today Monday, August 25
- \*\*CRD and MOE are holding a public information meeting at the Likely Hall Tuesday August 26 @ 7pm

NR

#### 7. TRANSPORTATION IMPACTED

Mode: Roads

- Owner:

- Details:

Mount Polley closure: Gavin Lake and Ditch Rd are closed (FSRs)

#### 8. USEFULLINKS

- Emergency Info BC
- Online Alerts & Bulletins: <a href="http://www.emergencyinfobc.gov.bc.ca/">http://www.emergencyinfobc.gov.bc.ca/</a>
   Wildfires of Note: <a href="http://bcwildfire.ca/hprscripts/wildfirenews/onefire.asp">http://bcwildfire.ca/hprscripts/wildfirenews/onefire.asp</a>
- Facebook Pages:

https://www.facebook.com/BCForestFireInfo

https://www.facebook.com/CRDemergencyoperations

Twitter

@EmergencyInfoBC - Alerts only; Primary operational feed when PECC activated

@EmergencyPrepBC - Emergency preparedness information

@BCGovFireInfo - Updates, news and prevention tips from B.C.'s Wildfire Management Branch

- Hashtags used to date for #BCwildfire
- Fire Bans and Area Restrictions: <a href="http://bcwildfire.ca/hprScripts/WildfireNews/Bans.asp">http://bcwildfire.ca/hprScripts/WildfireNews/Bans.asp</a>
- Smoke advisories: <a href="http://www.bcairquality.ca/">http://www.bcairquality.ca/</a>
- MOE water sample results: <a href="http://www.env.gov.bc.ca/eemp/incidents/2014/mount-polley.htm">http://www.env.gov.bc.ca/eemp/incidents/2014/mount-polley.htm</a>

APPROVED BY: Bob Kelly

**PREOC Director** 

Primary PREOC Email: preoc5.ops1@gov.bc.ca

Primary PREOC Phone: 250-614-6322 Primary PREOC Fax: 250-612-4171

Note: This document may be distributed within your agency. Any distribution outside your agency requires prior

approval from the NEA PREOC Director.



Tailings Breach

Map # 3

500 Meters

1:5,000

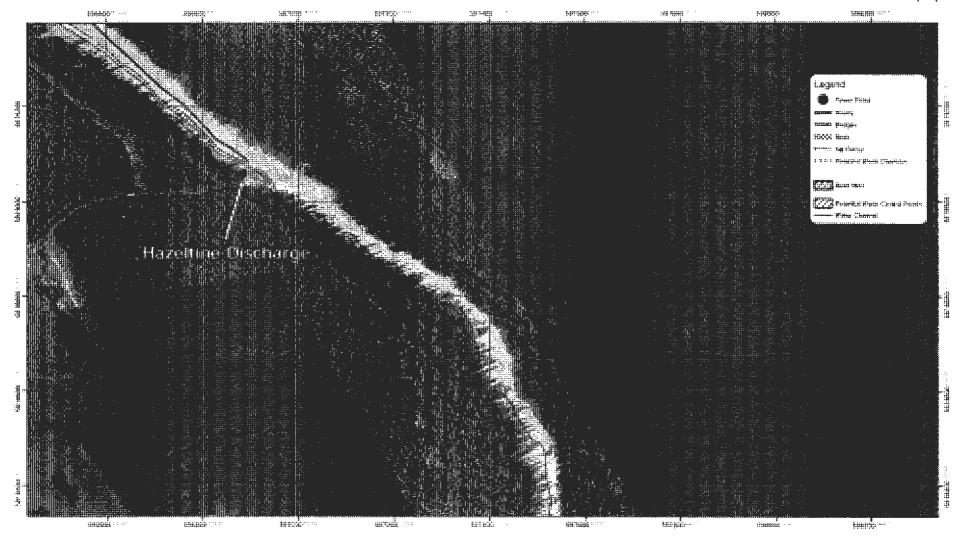
250

125

Coordinate System: NAD83 CSRS UTM Zone 10N Projection: Transverse Mercator Datum: North American 1983 CSRS









Tailings Breach

Map # 4

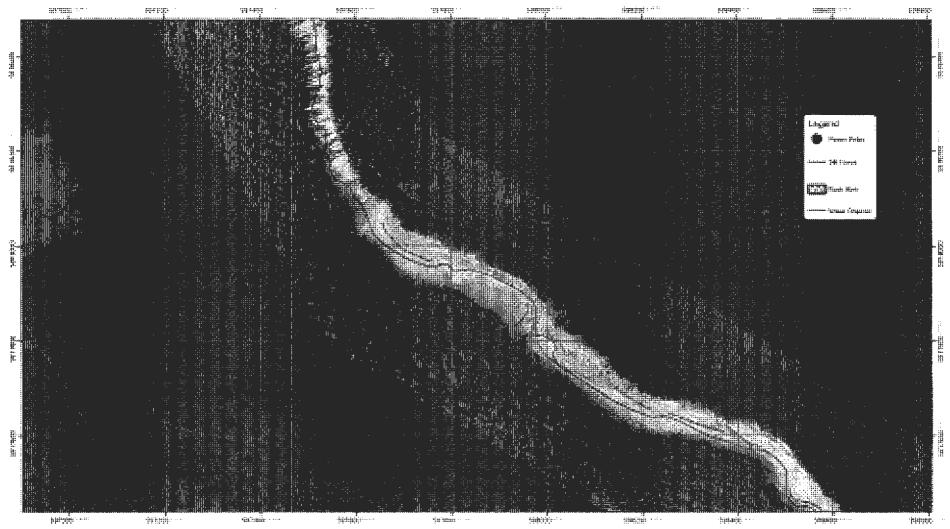
Coordinate System: NAD83 CSRS UTM Zone 10N Projection: Transverse Mercator Datum: North American 1983 CSRS

125 250 500 Meters

1:5,000









Tailings Breach

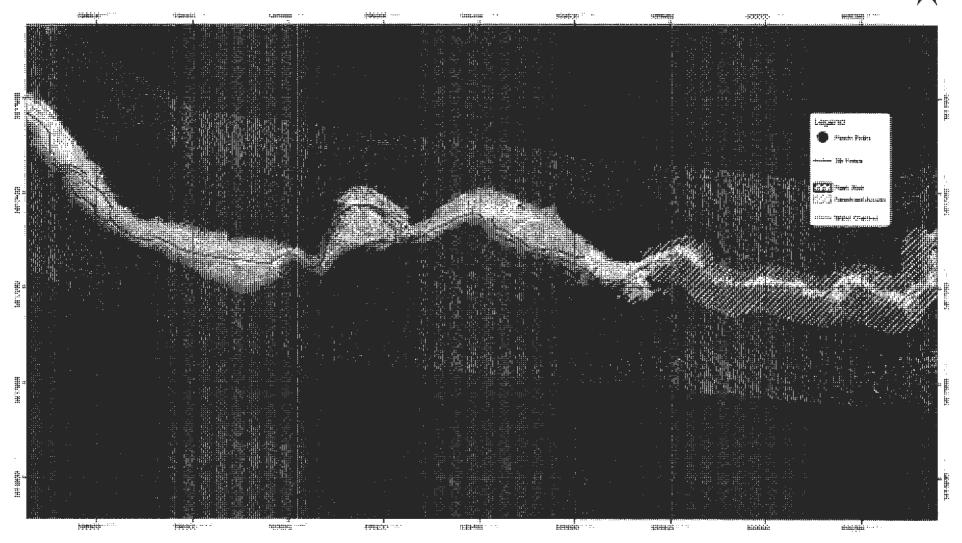
Map # 5

Coordinate System: NAD83 CSRS U1M Zone 10N Projection: Transverse Mercator Datum: North American 1983 CSRS

500 Meters







1:5,000

250

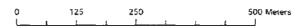


1:5,000

Coordinate System: NAD83 CSRS dTM Zone 10N Projection: Transverse Mercator Datum: North American 1983 CSRS

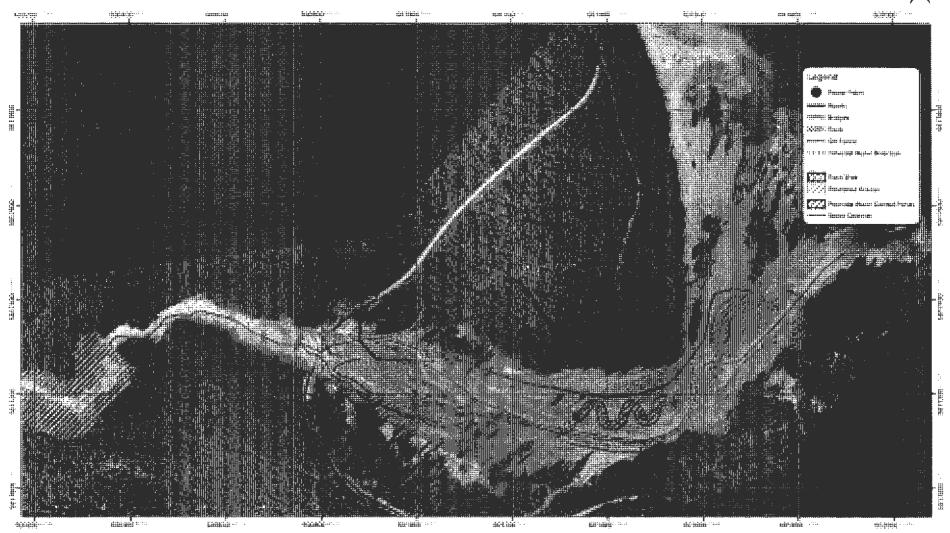
Tailings Breach

Map # 6



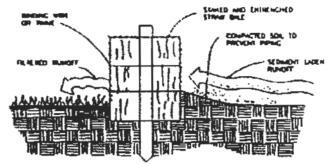
Bree Hills we





APPENDIX B	
Recommendations for Proper Installation of the Erosion Control Materials	

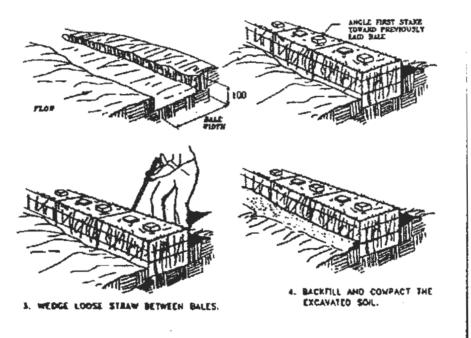
# STRAW BALE BARRIER



PROPERLY INSTALLED STRAW BALE (CROSS SECTION)

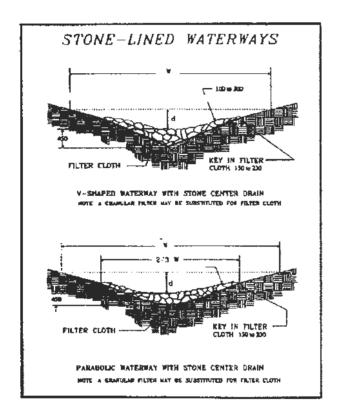
I. EXCAVATE THE TRENCH.

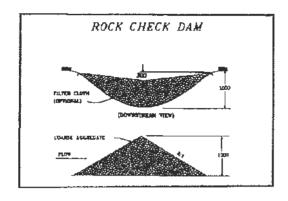
2. PLACE AND STAKE STRAW BALES.

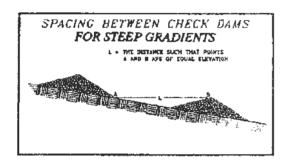


CONSTRUCTION OF STRAW BALE BARRIER

## Straw Bale Barrier Installation (MoTH, 1997)







#### Application

Temporary ditches.

Permanent ditches that have not been stabilized by vegetation.

Ditches in more erodible soil (sand, silt) and those on steeper gradients.

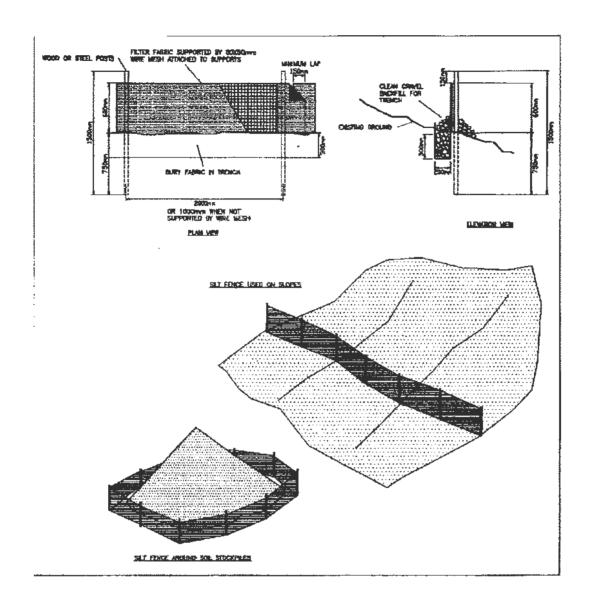
#### Design

The centre should be lower than the edges so it acts as a weir.

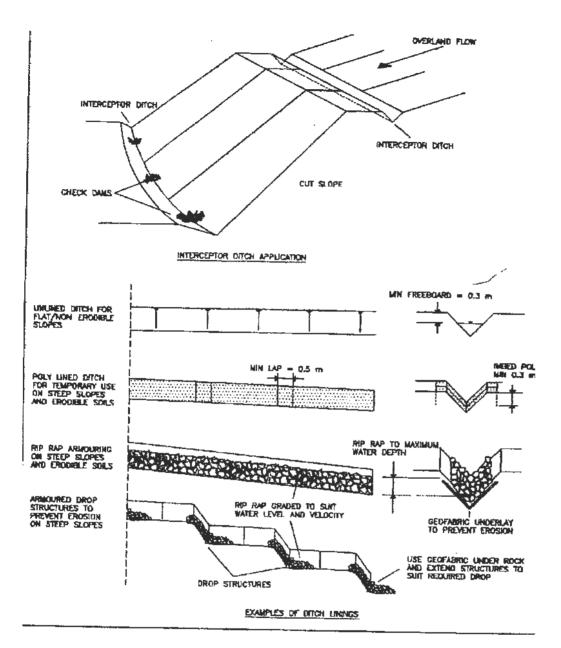
#### Installation

Use stone having a range of sizes to promote filtration and protection of underlying soil. Maximum size should be about 250 mm. Maximum height should be less than 1 m. Use side slopes of 2:1 on both sides.

Typical Installations of Rock Check Dams (MoTH, 1997)



Typical Silt Fence Installation (FOC, 1993)

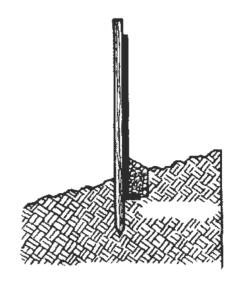


Examples of Ditch Interceptors and Linings (FOC, 1993)

#### **NSTALLATION GUIDELINES**

#### Option 1 (Preferred) Option 2

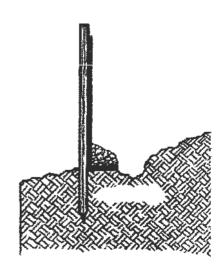
The second option is to pound in the stakes until the fabric is snug on the soil surface. Earth moving equipment should be used to cut and blade at least 6" (15 cm) of fill against the fabric edge. This method of installation is less labour intensive, but may allow water to undercut the silt fence in areas of high runoff.



#### http://www.nilex.com/products/sediment\_control/silt\_fence

To ensure optimal performance, silt fence is best installed in an excavated 6" x 6" (15 cm x 15 cm) trench. Stakes should be pounded in until the fabric reaches the bottom of the trench.

Always install with the posts facing downhill, so runoff pushes the fabric against the posts, not away from them. The trench should be backfilled by a backhoe or other earth moving equipment.





# **NEWS RELEASE**

For Immediate Release 2014ARR0024-001208 August 18, 2014 Ministry of Aboriginal Relations and Reconciliation

#### First Nations and government partner on response to Mt. Polley Mine breach

WILLIAMS LAKE – Williams Lake Indian Band and the Soda Creek Indian Band (Xatśūll First Nation) signed a letter of understanding with the Government of British Columbia to work in partnership to address all aspects of the breach of the tailings storage facility that occurred at the Mount Polley Mine on Aug. 4, 2014.

The agreement has five components that will be conducted in accordance with First Nations traditions and scientific knowledge and recognizes that the health and safety of the public and workers, including members of the First Nations, are paramount:

- 1. A principals table consisting of the Chiefs of the First Nations and the Ministers of Environment, Aboriginal Relations and Reconciliation, and Energy and Mines will oversee a government-to-government response.
- 2. A senior officials committee from the three ministries and designates for the First Nations will be responsible for overseeing all of the response activities such as assessing impacts, clean up, remediation planning and decisions related to the future of Mount Polley mine. They will also address long-term funding requirements to respond to all aspects of the Mount Polley Mine incident.
- 3. \$200,000 to each First Nation (\$400,000 in total) to cover costs already incurred and future costs related to the tailings pond breach.
- 4. The recognition of the important economic contribution of mining to British Columbia and the commencement of a dialogue about existing laws, regulations and policies in relation to the mining sector in British Columbia.
- 5. Agreement that the entities responsible pay for all costs and damages incurred in relation to the Mount Polley Mine Incident in accordance with applicable legislation.

The provincial government and First Nations have been clear since the breach occurred that finding out exactly what happened, ensuring this never happens again and moving quickly on remediation plans to protect and preserve the environment are top priorities.

Earlier this morning, the provincial government, with the support of the Williams Lake and Soda Creek Indian Bands, announced an independent engineering investigation into the tailings pond breach and steps to ensure all permitted tailings ponds across the province are safe.

The investigation will be led by a panel of experienced geotechnical experts who will have the ability to compel evidence and witness testimony. The Williams Lake and Soda Creek Indian Bands will appoint a liaison to work with the panel.

The panel will provide recommendations through a final report by Jan. 31, 2015. This report will be provided to government and the Williams Lake and Soda Creek Indian Bands at the same

time and will then be made public.

#### Quotes:

#### Minister John Rustad, Minister of Aboriginal Relations and Reconciliation -

"I am pleased the Province has come together with the Williams Lake and Soda Creek Indian Bands to work in collaboration to oversee the response activities from the tailings pond breach at Mount Polley. There is a great deal of work ahead of us but I know our strong working partnership will help move the process along more quickly so local First Nations in the area can have confidence their natural environment is a safe place for their families."

#### Minister Mary Polak, Minister of Environment -

"I'm confident we will work constructively with the local First Nations to build their trust and to create a forum to establish an ongoing relationship."

#### Chief Bey Sellars, Soda Creek Indian Band (Xatsull First Nation) -

"Until now, there has not been the level of cooperation and collaboration required between the provincial government and our nations to adequately respond to the Mount Polley mine disaster. Not only does this agreement commit our respective governments to joint oversight and decision-making in regards to all aspects of response to the Mount Polley mine disaster, it also allows First Nations and the provincial government to begin a necessary conversation about the adequacy of existing laws, regulations and policy in regards to the overall mining sector in British Columbia."

#### Chief Ann Louie, Williams Lake Indian Band -

"This letter of understanding is only the beginning of a process for mining reforms in British Columbia. The provincial government bears the responsibility to effectively collaborate with First Nations on a government-to-government basis on meaningful reforms to build confidence with all our communities that mineral exploration and mining is a safe industry. At this point that confidence still needs to be earned."

Letter of Understanding follows as a backgrounder.

#### Media Contact:

Lisa Leslie
Government Communications and Public
Engagement
Ministry of Aboriginal Relations and
Reconciliation
250 213-7724

Connect with the Province of B.C. at: www.gov.bc.ca/connect



# BACKGROUNDER

For Immediate Release 2014ARR0024-001208 August 18, 2014

Ministry of Aboriginal Relations and Reconciliation

#### Letter of Understanding

Letter of Understanding between

Soda Creek Indian Band, Williams Lake Indian Band And The Province of British Columbia

#### **Guiding principles:**

The Soda Creek Indian Band and the Williams Lake Indian Band (collectively, the "First Nations") and the Province of British Columbia ("British Columbia") agree to work in partnership, on a government-to-government basis through shared decision-making wherever possible, to jointly address all aspects of the tailings storage facility breach at the Mount Polley Mine ("Mount Polley Mine Incident").

The First Nations and British Columbia (collectively, the "Parties") agree that the processes for the joint oversight set out below will be conducted in accordance with the First Nations' traditional protocols, having regard to both traditional and scientific knowledge, and as expeditiously as possible.

The Parties agree that the health and safety of the public and workers, including members of the First Nations, are paramount.

#### The Parties therefore agree as follows:

- The Parties agree to establish a principals table consisting of the Chiefs of the First
  Nations and the Ministers of Environment, Aboriginal Relations and Reconciliation, and
  Energy and Mines to oversee a government-to-government response to the Mount
  Polley Mine Incident ("Principals Table").
- 2. The Parties agree to establish a senior officials committee consisting of designates of the First Nations, and the Assistant Deputy Ministers of the Ministries of Environment, Aboriginal Relations and Reconciliation, and Energy and Mines, and other ministries as appropriate ("Committee"). The Committee shall be responsible for overseeing the following activities in response to the Mount Polley Mine Incident:
  - assessing impacts, monitoring, cleanup, remediation planning and implementation, and any decisions related to the future of Mount Polley mine;
  - ii. developing a plan to provide safe access to the impact zone for the purposes of assessing archaeological and environmental impacts;
  - iii. discussing permitting required for future work at the Mount Polley mine;
  - iv. assessing the adequacy of existing laws, regulations and policies in relation to the Mount Polley Incident;

- v. addressing the First Nations' immediate and long-term funding requirements to respond to all aspects of the Mount Polley Mine Incident;
- vi. identifying economic opportunities for the First Nations to participate in responding to the Mount Polley Mine Incident;
- vii. reporting back to the Principals Table; and
- viii. addressing any other issues related to the Mount Polley Mine Incident as agreed to by the Committee.

The Parties agree that this letter of understanding does not fetter statutory decision makers in carrying out their duties and responsibilities under the relevant provincial laws and regulations that apply to the Mount Polley Incident.

- 3. British Columbia agrees to provide \$200,000 to each of the Soda Creek Indian Band and the Williams Lake Indian Band as soon as possible to cover costs already incurred and to be incurred in responding to the Mount Polley Mine Incident.
- 4. The Parties acknowledge the impact of the Mount Polley Mine Incident on public confidence in mining and recognize the important economic contribution of mining to British Columbia. Accordingly, British Columbia, in partnership with the Soda Creek Indian Band and the Williams Lake Indian Band, commits to commencing a dialogue about existing laws, regulations and policies in relation to the mining industry in British Columbia. The scope and mechanism for this dialogue will be considered by the Senior Officials Committee and recommendations will be made to the Principals Table. Those future discussions will be informed by the collaborative work between the Parties on the Mount Polley Mine Incident.
- The Parties agree that the entities responsible, in accordance with applicable legislation, be required to pay for all costs and damages incurred in relation to the Mount Polley Mine Incident.

Chief Bev Sellars, Soda Creek Indian Band
Chief Ann C. Louie, Williams Lake Indian Band
The Honourable John Rustad, Minister of Aboriginal Relations and Reconciliation
Connect with the Province of B.C. at: www.gov.bc.ca/connect



## BACKGROUNDER

For Immediate Release 2014ARR0024-001208 August 18, 2014 Ministry of Aboriginal Relations and Reconciliation

#### **Letter of Understanding**

Letter of Understanding between

Soda Creek Indian Band, Williams Lake Indian Band And The Province of British Columbia

#### **Guiding principles:**

The Soda Creek Indian Band and the Williams Lake Indian Band (collectively, the "First Nations") and the Province of British Columbia ("British Columbia") agree to work in partnership, on a government-to-government basis through shared decision-making wherever possible, to jointly address all aspects of the tailings storage facility breach at the Mount Polley Mine ("Mount Polley Mine Incident").

The First Nations and British Columbia (collectively, the "Parties") agree that the processes for the joint oversight set out below will be conducted in accordance with the First Nations' traditional protocols, having regard to both traditional and scientific knowledge, and as expeditiously as possible.

The Parties agree that the health and safety of the public and workers, including members of the First Nations, are paramount.

#### The Parties therefore agree as follows:

- 1. The Parties agree to establish a principals table consisting of the Chiefs of the First Nations and the Ministers of Environment, Aboriginal Relations and Reconciliation, and Energy and Mines to oversee a government-to-government response to the Mount Polley Mine Incident ("Principals Table").
- 2. The Parties agree to establish a senior officials committee consisting of designates of the First Nations, and the Assistant Deputy Ministers of the Ministries of Environment, Aboriginal Relations and Reconciliation, and Energy and Mines, and other ministries as appropriate ("Committee"). The Committee shall be responsible for overseeing the following activities in response to the Mount Polley Mine Incident:
  - i. assessing impacts, monitoring, cleanup, remediation planning and implementation, and any decisions related to the future of Mount Polley mine;
  - ii. developing a plan to provide safe access to the impact zone for the purposes of assessing archaeological and environmental impacts;
  - iii. discussing permitting required for future work at the Mount Polley mine;
  - iv. assessing the adequacy of existing laws, regulations and policies in relation to the Mount Polley Incident;

- v. addressing the First Nations' immediate and long-term funding requirements to respond to all aspects of the Mount Polley Mine Incident;
- vi. identifying economic opportunities for the First Nations to participate in responding to the Mount Polley Mine Incident;
- vii. reporting back to the Principals Table; and
- viii. addressing any other issues related to the Mount Polley Mine Incident as agreed to by the Committee.

The Parties agree that this letter of understanding does not fetter statutory decision makers in carrying out their duties and responsibilities under the relevant provincial laws and regulations that apply to the Mount Polley Incident.

- 3. British Columbia agrees to provide \$200,000 to each of the Soda Creek Indian Band and the Williams Lake Indian Band as soon as possible to cover costs already incurred and to be incurred in responding to the Mount Polley Mine Incident.
- 4. The Parties acknowledge the impact of the Mount Polley Mine Incident on public confidence in mining and recognize the important economic contribution of mining to British Columbia. Accordingly, British Columbia, in partnership with the Soda Creek Indian Band and the Williams Lake Indian Band, commits to commencing a dialogue about existing laws, regulations and policies in relation to the mining industry in British Columbia. The scope and mechanism for this dialogue will be considered by the Senior Officials Committee and recommendations will be made to the Principals Table. Those future discussions will be informed by the collaborative work between the Parties on the Mount Polley Mine Incident.
- The Parties agree that the entities responsible, in accordance with applicable legislation, be required to pay for all costs and damages incurred in relation to the Mount Polley Mine Incident.

hief Bev Sellars, Soda Creek Indian Band					
Chief Ann C. Louie, Williams Lake Indian Band					
The Honourable John Rustad, Minister of Aboriginal Relations and Reconciliation					
Connect with the Province of B.C. at: www.gov.bc.ca/connect					

#### Weir, David J FLNR:EX

From:

Hill, Douglas J FLNR:EX

Sent:

Tuesday, August 26, 2014 4:56 PM

To: Cc: Weir, David J FLNR:EX
Bunce, Hubert ENV:EX

Subject:

RE: LUO and Conceptual Interim Erosion and Sediment Control Plan

Dave, I passed on the inquiry from Red Bluff to Julia Banks of SCIB as it's my understanding that SCIB/WLIB are to coordinate dissemination of data to other First Nations. Julia said she would followup with Red Bluff.

djh

From: Weir, David J FLNR:EX

Sent: Tuesday, August 26, 2014 4:49 PM

**To:** Hill, Douglas J FLNR:EX **Cc:** Vanderburgh, Ken FLNR:EX

Subject: RE: LUO and Conceptual Interim Erosion and Sediment Control Plan

The water act order appears to be consistent with the LOU. Under the order the Mine has to address Mines and MOE concerns which under the LOU are the Ministries charged with coordinating the FN engagement. They might want to consider having us on the "committee". Also, I called the Soda Creek, Williams Lake and the Lhtako Dene Nation to explain myself before issuing the new order. I wasn't able to talk to Soda Creek, Williams Lake was aware of the issue and expressed no concerns and the Dene just called me today and I gave you the contact to provide them with the water sampling data.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David J. Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From: Hill, Douglas J FLNR:EX

Sent: Tuesday, August 26, 2014 3:22 PM

To: Weir, David J FLNR:EX

Subject: LUO and Conceptual Interim Erosion and Sediment Control Plan

## Weir, David J FLNR:EX

From:

Hill, Douglas J FLNR:EX

Sent:

Tuesday, August 26, 2014 3:22 PM

To:

Weir, David J FLNR:EX

Subject:

LUO and Conceptual Interim Erosion and Sediment Control Plan

Attachments:

Conceptual Interim Erosion and Sediment Control Plan Draft For Distribution August 21,

2014 reduced.pdf; FN LOU and news release.pdf

Conceptual Interim Erosion and Sediment Control Plan

Mount Polley Mine Tailings Storage Facility Breach

Submitted to:

Ministry of Energy and Mines

Ministry of Environment

Victoria, BC

Submitted by:

Mount Polley Mining Corporation

200-580 Hornby Street

Vancouver B.C.

V6C 3B6

August 2014

Prepared by:

Jack Love, R.P.Bio, Environmental Superintendent, Mount Polley Mining Corporation

Reviewed By:

Gordon J. Johnson, M.Sc., P.Eng., SNC Lavalin Inc.



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#### 1.0 INTRODUCTION

#### 1.1 Background

The Mount Polley Mining Corporation (MPMC) owns and operates the Mount Polley copper-gold mine located 56 kilometres (km) northeast of Williams Lake, British Columbia (BC). Early on August 4, 2014 a breach of the TSF tailings dyke occurred that resulted in approximately 10M m³ of water and approximately 4M m³ of million tailings being released over a hillside into Polley Lake, along Hazeltine Creek and into Quesnel Lake. This release resulted in the following physical impacts to the downstream environment:

- Erosion and scour of the embankment separating the TSF from Polley Lake, as well as the riparian zone along Hazeltine Creek
- Deposition of trees and debris in Polley Lake, along the sides of the erosion scar associated with Hazeltine Creek, and in the confluence of Hazeltine Creek into Quesnel Lake
- Deposition of tailings and scoured earth within Polley Lake, portions of Hazeltine Creek, and the confluence of Hazeltine Creek into Quesnel Lake

The Province of British Columbia issued Pollution Abatement Order No. 107461, dated August 6, 2014, to MPMC (the Order). The Order requires MPMC to implement measures and submit documentation describing its response and to communicate to the Ministry of Environment (MOE) regarding response progress. These discussions have included a request from the MOE to MPMC to develop a plan for controlling erosion and sediments associated with the incident, which is the subject of this report.

#### 1.2 Objectives and Scope

This report presents MPMC's conceptual plan for mitigating ongoing erosion and sediment transport within impacted areas downstream of the breach. Specific objectives of the Plan are summarized as follows:

- provide water management structures to improve the quality of water flowing into Quesnel Lake
- reduce the potential for re-mobilization of tailings and sediments that were deposited or exposed by the TSP breach
- minimize and control flows from the TSF and re-direct these flows to the Springer Pit

Three high priority areas have been identified where in-stream controls are planned to mitigate potential future erosion and/or sediment transport, as follows:

- within and down-gradient of the Tailings Storage Facility (TSF)
- where the water pumped from Polley Lake is transferred into Hazeltine Creek
- up-stream of the mouth of Hazeltine Creek, prior to draining into Quesnel Lake

Equipment access will need to be established to provide construction activities to occur in these priority areas. Accordingly, this Plan also addresses the preferred access locations and the

Mount Polley Mining Corporation Initial Emergency Works and Conceptual Mitigation Plans August 2014



principles that will be implemented in establishing access while minimizing disturbance and the potential for further erosion and sediment transport. Best Management Practices (BMPs) will be implemented over the remaining areas of impact to reduce potential for erosion and sediment migration outside of the Hazeltine Creek water course.

The Plan is conceptual in nature and will be implemented as described, subject to completing more detailed designs and site inspections to confirm details and design standards. It may be necessary to modify the locations and methods to be deployed in this regard. At the time of preparing this Plan, safe access to Hazeltine Creek was not available. Access to complete physical works in and around Hazeltine Creek is dependent on obtaining safe access to the area down-gradient of Polley Lake, which is also addressed in this Plan.

#### 1.3 Related Documents

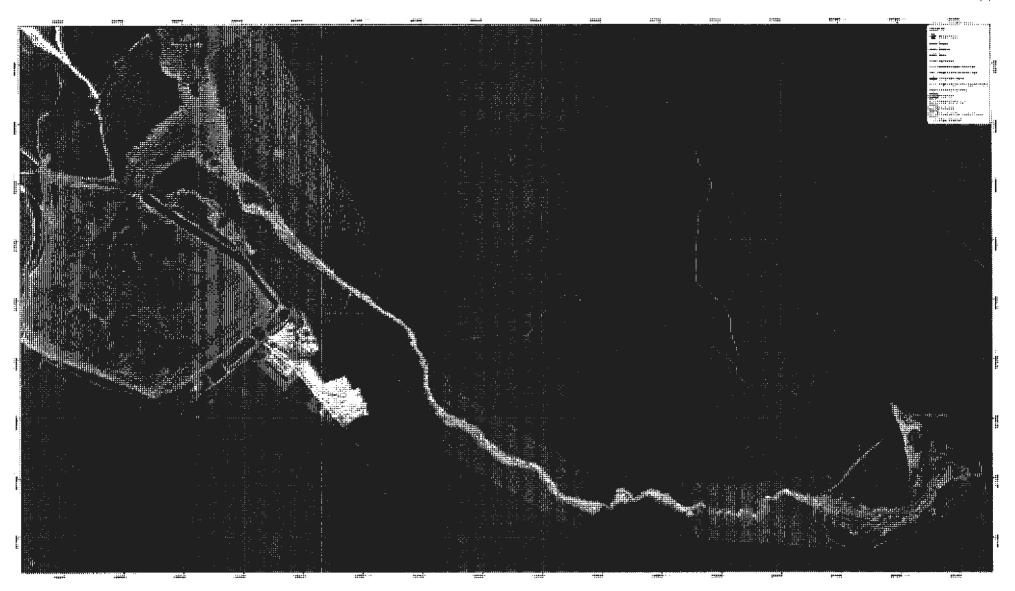
MPMC has implemented a number of measures to mitigate potential future release of tailings and tailings water to the environment that are described in MPMC's submission to the Ministry of Environment that is dated August 13, 2014.

SNC Lavalin Inc. (SLI) prepared a Comprehensive Environmental Impact Assessment and Action Plan that describes MPMC's overall incident response, which was submitted to the MOE on August 15, 2014.



# Mount Polley Tailings Breach





Mount Polley Mining Corporation Initial Emergency Works and Conceptual Mitigation Plans August 2014



Leave blank



#### 2.0 EROSION AND SEDIMENT CONTROL PLAN

#### 2.1 General

The Erosion and Sediment Control Plan consists of in-stream controls and Best Management Practices (BMP's) to mitigate erosion and/or sediment transport. In-stream controls will be constructed at the following locations:

- within and down-gradient of the Tailings Storage Facility (TSF)
- where the water pumped from Polley Lake is transferred into Hazeltine Creek
- up-stream of the mouth of Hazeltine Creek, prior to draining into Quesnel Lake

BMP's will be implemented in the area impacted by the TSF breach, along Hazeltine Creek, to reduce the potential for re-mobilization of sediments deposits or exposed as a result of the TSF breach.

The following sub-sections provide descriptions of each of these aspects of work. Appendix A illustrates these components of the conceptual plan. Modifications may be made during the engineering of in-stream works and/or the implementation of BMP's to account for the results of field inspections and design analyses.

#### 2.2 TSF Controls

A control weir and containment pond will be constructed downstream of the breach and original TSF embankment (Page 1 of Appendix A) to mitigate the potential for further release of tailings and tailings water, after the interim rock berm has been construction (see MPMC submission of August 13, 2014). All water that accumulates behind the weir will be transferred to the Springer Pit of the Mount Polley Mine. The flows from the breach will be directed to the Perimeter Embankment Collection Pond and till borrow in the meantime. Any tailings that accumulate in the containment pond will be transferred back to the TSF as soon as the infrastructure has been completed.

The containment pond will be sized to contain the water of water associated with a minimum 48 hours of seepage flowing through the interim rock berm. This volume will be determined by field observations and estimates.

#### 2.3 Water Transfer Discharge Location

A sediment trap will be constructed upstream of the discharge point of the water diversion from Polley Lake to Hazeltine Creek (see Page 3 of Appendix A). This sediment trap will allow settlement of any sediment and suspended tailings that may be carried by creek flow upstream of this point. The sediment trap will be sized to provide 12 hour retention of the estimated flow (downstream of Polley Lake) that is associated with the one in 5 years runoff event that is relevant to the September to January timeframe.



#### 2.4 Hazeltine Creek Discharge to Quesnel Lake

A series of sediment traps will be constructed upstream of the discharge point of Hazeltine Creek into Quesnel Lake (see Page 6 of Appendix A). These sediment traps will allow settlement of any sediment and suspended tailings that otherwise may be discharged into Quesnel Lake. The series of sediment traps will be designed to accommodate the flow downstream of Polley Lake that is associated with the one in 5 years runoff event that is relevant to the September to January timeframe. The retention period of the sedimentation traps will be contingent on working conditions and available space.

#### 2.5 Best Management Practices

#### General

This section describes BMP's that will be implemented along the Hazeltine Creek channel to control potential erosion and sediment transport. The breach resulted in deposition and exposure of tailings, native soils and TSF embankment fill along the Hazeltine Creek channel to Quesnel Lake. These materials and erodible soils can be mobilized by rainfall and runoff events, resulting in additional sediment loading to Hazeltine Creek and Quesnel Lake.

Efforts will be made to minimize additional ground and vegetation disturbance. Any vegetation that must be moved to provide access can be set aside and keyed-in to adjacent disturbed ground to help stabilize this ground. In areas where trees are removed but no earthwork is required, efforts will be made to leave as much of the roots in place to help maintain the soil stability.

Isolation/ interception and management of runoff are the keys to erosion and sediment control. These limit the potential for soils to be eroded, and for suspended sediments to be transported by surface or groundwater. General principles of erosion and sediment control include:

- schedule work to minimize risk (if possible, work during dry periods)
- retain existing vegetation where possible
- re-vegetate or protect bare soils
- divert runoff away from bare soils
- · minimize slope lengths, grades and areas
- minimize runoff velocities
- retain eroded sediments (traps, fences, clean-outs)
- inspect and maintain control features

#### Bank Slope Stability

The TSF beach resulting in creek bank erosion that has exposed steep, potentially unstable stopes. These exposed stopes will be assessed and stabilized using one or more of the following techniques:

- constructing toe berms or placing supporting objects such as straw bales to stabilize the slopes
- reducing slope angles in a controlled manner using cut and fill techniques
- installation of surface protection (mulches, erosion control blankets),

Mount Polley Mining Corporation Initial Emergency Works and Conceptual Mitigation Plans August 2014



 installation of other erosion control measures such as vegetation, rainfall capture systems, and rip-rap

The duration of exposure, the grade of the bank slope, and the nature of the exposed surface soils that may be susceptible to instability and/or erosion are important factors that will be assessed in support of selecting a mitigation.

All temporary supports and erosion controls will be subject to regular monitoring and maintenance until such time that more permanent creek rehabilitation is completed.

#### Surface Erosion Protection

Exposed mineral soils and mine-affected materials present a potential source of sediment transport. Techniques for protecting these exposed materials include absorption of raindrop impact, reduction of runoff velocity, increase in infiltration and increase in soil particle binding. BMP's that will be implemented to reduce the potential for surface erosion may include, but are not necessarily limited to, the following:

- straw/ wood fibre mulch
- netting and seeding
- broadcast seeding
- erosion control blankets and matting
- plastic sheeting or tarps

Any exposed soils from excavation shall be stabilized to prevent erosion and sediment transport. Stock piled material must be covered with tarps or plastic sheeting until used as backfill, redistributed around the area (and re-vegetated) or transported off-site. Other exposed surfaces can be temporarily covered with tarps until seeded or covered with mulch. The site need to be periodically monitored, especially after storm events, to ensure that surface protection measures are working properly.

#### Flow Interception

Where possible and practical to do so, surface runoff will be intercepted and directed away from areas susceptible to erosion, thereby reducing potential surface erosion and limiting the need for further treatment. Alternatively, runoff containing high concentrations of suspended solids can be intercepted and directed to a treatment site. There are several choices available for interception designs dependent on the severity of erosion, amount of suspended sediment, sensitivity of receiving environment and workspace.

Techniques for surface interception can include both temporary and permanent devices such as interceptor/ infiltration ditches, diversion berms, benching, and select material blankets that act as French drains. Sediment trapping systems can also be created to allow for suspended sediments to settle out prior discharging to infiltration areas. Temporary detention techniques include filter-fabric barriers, straw bale barriers, sand bags, silt fences, gravel berms, check dams and drop inlet sediment barriers. A combination of these techniques will be applicable to this site. Silt fences and straw bales are likely to be the most practical options for reducing sediment transport into Hazeltine Creek. Appendix A illustrates the locations where these measure are currently planned. Monitoring and maintenance will be maintained throughout the period of creek rehabilitation to ensure their appropriate function



#### 3.0 ACCESS DÉVELOPMENT

#### 3.1 Safe Work Procedures

Implementation of this Plan requires personnel to access the Hazeltine Creek channel downstream of the sediment plug at the outlet of Polley Lake. This plug was formed as a result of the TSF breach, is approximately 500 m long, and consists of deposited tailings sand, TSF embankment fill, eroded overburden and vegetation (Figure 1). The following potential hazards to individuals working downstream of this plug have been identified:

- · a sudden release of tailings water and/or fluidized tailings
- a sudden release of water from Polley Lake

A rock berm as described in MPMC's submission of August 13<sup>th</sup> is being constructed to mitigate the risk associated with the sudden release of tailings water and/or fluidized tailings. The water level in Polley Lake is being drawn down with pumps and being discharged downstream of the sediment plug to mitigate the risk associated with the sudden release of water from Polley Lake.

Figure 1: Plug Located Downstream of Polley Lake



Copyright

Safe work procedures to allow personnel to access Hazeltine Creek downstream of the sediment plug will include the following (see Figure 2):

- stopping inflows from the dam breach and long ditch from reporting to the sediment plug
- monitoring potential seepage through the sediment plug (an increase of seepage through the plug could be indicative of a weakening plug), which will include)
  - regular inspections by a qualified person (minimum 3 times per day when personnel are within the creek channel)
  - a weir to monitor outflow from the sediment plug and to measure potential increase in seepage
  - monitoring of the plug outlet by a spotter is currently required when personnel are in the creek channel.
- Check-in and Check-out procedures
- inspection and communication protocols
- hazard assessment of each entry into the downstream creek bed to determine entry and exit points and evacuation limits
- identification of "no entry zones" where personnel cannot egress in a timely manner
- no entry during period of heavy rainfall and runoff



# Figure 2: Hazard Mitigations Downstream of Polley Lake

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## 3.2 Access Construction

Three key access points have been identified:

- 1) Horsefly-Likely FSR (Ditch Road)
- 2) Hazeltine Discharge Location Road Access
- 3) Downstream of the breach outside of the investigation area

Access to the area of the mouth of Hazeltine Creek will be gained from near Likely, BC via the Horsefly-Likely Forest Service Road (FSR). Access from the FSR to Hazeltine Creek will be constructed to support conventional earthworks equipment that is capable of working on soft ground. Some coarse woody debris will need to be moved to facilitate access construction. The preferred access alignment will be finalized in the field to minimize disturbance, while taking advantage of firm ground where it exists. Access will be constructed to the standard required to maintain stability and safety for trafficking heavy equipment.

Access to the area where the water line from Polley Lake discharges into Hazeltine Creek will be established immediately upstream of the discharge pipe. This access requires only widening



of the existing access and construction of an access ramp to the channel. This access would also be construction to a standard suitable for supporting conventional earthworks equipment.

Access to the area immediately downstream of the breach is already available using the rock berm constructed in response to the breach.

#### 4.0 SCHEDULE

At this point schedulling is dependant on the safety review of the Hazelttine Plug, the success of the pump down program and the condition on the ground when safe access is established. MPMC will keep regulatory agencies apprised of schedules and ongoing progress as updates become available.

#### 5.0 CLOSURE

This plan presents conceptual ideas in order to archives the objectives of reducing the potential on uncontrolled releases into Quesnel Lake. It is highly likely that these plans will be modified as addition information is collected and the interim plans are field fit based on ground conditions. If there are significant modifications to the approach presented here the Ministry of Environment and the Ministry of Energy and Mines will be informed of the modifications.



# APPENDIX A

Conceptual Works 11x 17 figures



# Mount Polley

Tailings Breach

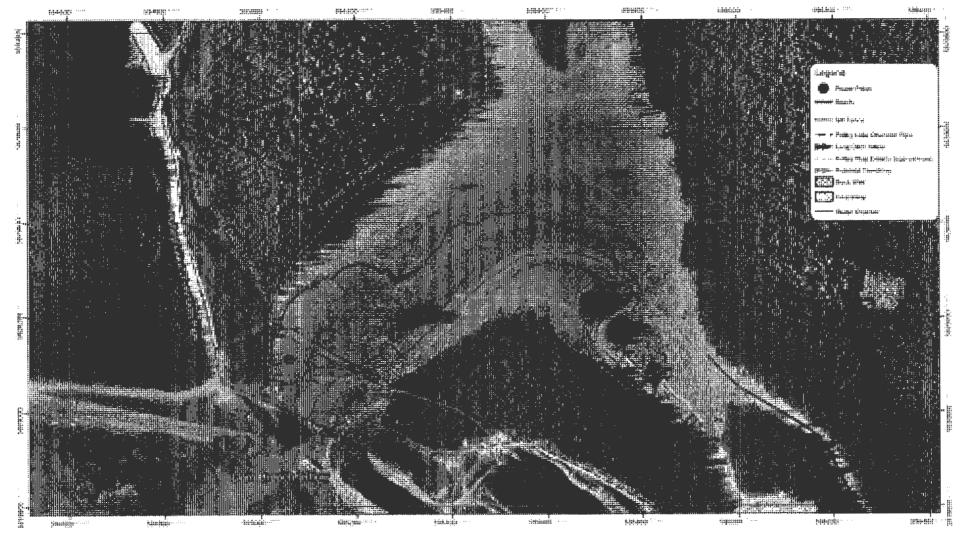
Map # 1

Coordinate System: NAD83 CSRS UTM Zone 10N Projection: Transverse Mercator Datum: North American 1983 CSRS

500 Meters







1:5,000

250



# Mount Polley

Мар# 2

1.5,000

Coordinate System: NAD83 CSRS UTM Zone 10N Projection: Transverse Mercator Datum: North American 1983 CSRS

Tailings Breach 0 125 250

6 artimen

500 Meters





## Weir, David J FLNR:EX

From:

Katie McMahen < kmcmahen@mountpolley.com>

Sent:

Wednesday, August 27, 2014 2:33 PM

Ta:

Howe, Diane J MEM:EX; Bunce, Hubert ENV:EX; Hill, Douglas J FLNR:EX; Swan, Chris L

ENV:EX; Metcalfe, Shelley ENV:EX; Epps, Deb ENV:EX; Weir, David J FLNR:EX

Cc:

Jack Love; Luke Moger; Colleen Hughes

Subject:

August 26 Call - Follow Up

Hi all,

As follow up from yesterday's 3pm call:

1. Water quality data will be appended to this week's weekly report.

- 2. The bulk sediment sample taken at the mouth of Hazeltine Creek was taken to a depth of 5cm with the goal of characterizing the more mobile sediment fractions that are more likely to flow beyond the depositional area of the Hazeltine Creek mouth.
- 3. With regards to monitoring potential impacts of starting up a second discharge line pumping from Polley Lake into Hazeltine Creek, the proposed monitoring plan is to:
  - a. Prior to discharge:
    - i. Take in situ parameters (including turbidity and specific conductance) at HAC-01 (Hazeltine Creek before the single channel disperses into multiple channels in the fan area).
    - ii. Take in situ parameters at near field Quesnel Lake sites (just out of the log booms) QUL-23 (very shallow surface only) and QUL-66 (surface and at depth).
    - iii. Note: these sites are being sampled daily (HAC-01, QUL-23) or every second day (QUL-66) prior to starting up the second discharge.
  - b. Post-discharge (short-term):
    - Approximately 1 hour after discharge begins, check for visual evidence of increased flow at HAC-01 (i.e. that the water has reached the creek mouth). Continue to check back on hour intervals until discharge water observed.
    - ii. When discharge has reached the creek, take field parameters at HAC-01, QUL-23, and QUL-66 and note visual observations of the increased plume or effects of the discharge.
    - iii. At the end of the sampling day, note visual observations of an increased plume, and take field parameters and full suite samples at HAC-01, QUL-23, QUL-66 (surface and depth).
  - c. Post-discharge (long-term):
    - i. Continue daily monitoring (in situ parameters/full suite samples) at HAC-01, QUL-23 (surface).
    - ii. Monitor QUL-66 (surface and depth, including in situ parameter profile) the following day, and reduce to every second day if results are stable.

Some slight adjustments may have to be made day of depending on access. A key discussion point will be what is an acceptable level of change with respect to turbidity and the plume. We can expect the turbidity to decrease somewhat over time as the creek erodes the thin layer of mobile material down to gravel, like we see in many areas of the creek now. Obviously, a lot of this material will be mobilized on rainy days over the next week or so regardless of our second discharge, and lowering the level of Polley Lake is an important priority to balance with potential environmental impacts. Chris – does you or part of your team wish to be involved in this program still? This can be discussed with Colleen at the 3pm meeting today.

Best regards,

Katie McMahen, P. Ag

Environmental Technologist Mount Polley Mining Corporation Phone: (250) 790-2215 ext. 2120

Email: kmcmahen@mountpolley.com

## Weir, David J FLNR:EX

From:

Bunce, Hubert ENV:EX

Sent:

Tuesday, August 26, 2014 6:01 PM

To:

Weir, David J FLNR:EX

Cc:

Hill, Douglas J FLNR:EX

Subject:

FW: MOUNT POLLEY TSF BREACH - REVIEW OF NEAR TERM MITIGATIONS AND INITIAL

ACCESS PLAN

Attachments:

Near Term Mitigations Draft for Distribution Aug 26 2014.pdf; Gavin Lake Horsefly

Forest Service Road temporary access August 24, 2014.pdf

As you noted on the call today I believe your Order already allows for the proposed bridge installation (2<sup>nd</sup> attachment) but thought you should see what MPMC is proposing regardless

#### **Hubert Bunce**

A/Mining Director, Environmental Protection

**Regional Operations** 

ph (250) 751-3254 fax (250) 751-3103

2080A Labieux Road Nanaimo BC V9T 6J9

Please consider the environment before printing this email

**BC Pollution Free** 

**From:** Jack Love [mailto:JLove@imperialmetals.com]

Sent: Tuesday, August 26, 2014 3:46 PM

To: Caunce, Cassandra ENV:EX; Bunce, Hubert ENV:EX

Cc: Zacharias-Homer, Christa ENV:EX; Hoffman, Al MEM:EX; 'chughes@mountpolley.com'; 'dreimer@mountpolley.com'; Metcalfe, Shelley ENV:EX; McGuire, Jennifer ENV:EX; Bev Sellars (<u>b.sellars@xatsull.com</u>); Ann Louie (<u>ann.louie@williamslakeband.ca</u>); Aaron Higginbottom (<u>Aaron.Higginbottom@williamslakeband.ca</u>); Julia Banks (<u>nrcoordinator@xatsull.com</u>); Steve Robertson; Demchuk, Tania MEM:EX; Pierre Stecko; Green, Jack E ENV:EX; Brian Kynoch: dreimer@mountpolley.com; RC Copy Koepig; Dop Parsons: Luke Moger (Imoger@mountpolley.com); Art Enve

(<u>nrcoordinator@xatsull.com</u>); Steve Robertson; Demchuk, Tania MEM:EX; Pierre Stecko; Green, Jack E ENV:EX; Brian Kynoch; <u>dreimer@mountpolley.com</u>; RC Cory Koenig; Don Parsons; Luke Moger (<u>lmoger@mountpolley.com</u>); Art Frye (<u>afrye@mountpolley.com</u>); Johnson, Gordon; Demchuk, Tania MEM:EX; Bellefontaine, Kim MEM:EX; Howe, Diane J MEM:EX; McConkey, Trevor; Jancicka, Erik; Hill, Douglas J FLNR:EX; Vanderburgh, Ken FLNR:EX; Luke Moger (<u>lmoger@mountpolley.com</u>); Katie McMahen

Subject: MOUNT POLLEY TSF BREACH -- REVIEW OF NEAR TERM MITIGATIONS AND INITIAL ACCESS PLAN

Helio Hubert and Cassandra.

Find attached two memorandums. The first attachment provides some additional details around the option and alternatives associated with:

- Water management around Hazeltine creek
- The turbidity plume in Quesnel lake
- Fisheries assessments and considerations as well as
- Rehabilitation timings.

The second attachment provides some details around the methodologies to build the temporary accesses for initiation of the mitigation works.

Should you have any questions I am available on my mobile phone or contact Don Parsons or Luke Moger at the Mine Site.

Regards,

Jack Love, RPBio., Environmental Manager Mt Polley Tailings Breach
ilove@imperialmetals.com
mobile 604.358.2699 | 604.800.9200 ext 329 Red Chris | 250.790.2215 ext 2560 Mt. Polley
Red Chris Development Company Ltd.
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#### SNC-LAVALIN INC. 1800 – 1075 West Georgia St. Vancouver, BC Canada V6E 3C9

Telephone: (604) 662-3555

MEMORANDUM

TO: Jack Love

DATE:

AUGUST 26, 2014

C.C.:

Erik Jancicka

FROM:

Gordon Johnson

REF.:

621717

SUBJECT:

Mount Polley TSF Breach - Review of NEAR TERM MITIGATIONS

#### 1. Introduction

Mount Polley Mining Corporation (MPMC) has submitted a Conceptual Interim Erosion and Sediment Control Plan for mitigating ongoing erosion and sediment transport within impacted areas downstream of the breach. Specific objectives of the Plan include the following:

- reduce the suspended sediment loading of water flowing into Quesnel Lake
- reduce the potential for re-mobilization of tailings and sediments that were deposited or exposed by the Tailings Storage Facility (TSF) breach
- · control ongoing flows from the TSF and re-direct these flows to the Springer Pit
- ensure safety of all workers conducting the mitigation works

The Plan identifies three high priority locations for implementation of in-stream controls to mitigate ongoing potential for erosion and/or sediment migration, as follows:

- within and down-gradient of the TSF
- the area from Polley lake downstream to the Gavin Lake Road crossing
- the channel section immediately up-stream of the mouth of Hazeltine Creek prior to draining into Quesnel Lake

Based on discussions with the Ministry of Environment (MOE), MPMC has been requested to consider and assess options for addressing the following additional issues that are related to this Plan:

- water management options for Hazeltine Creek and the advantages and disadvantages associated with directing water either into (or away) from the Creek while the impact assessment and creek rehabilitation program is occurring
- accommodating returning spawning fish that are destined to Hazeltine and Edney Creeks
- the preferred season and timing for rehabilitation of Hazeltine Creek
- characterizing and assessing potential risk associated with the deep turbidity plume that is currently being observed in Quesnel Lake; including options for mitigating potential impacts to residential drinking water intakes

This memorandum frames the initial evaluation of these issues and is prepared to support discussion with regulatory representatives, Aboriginal Groups and stakeholders with the goal of selecting a preferred approach for implementation moving forward.



#### 2. Hazeltine Creek Water Management Options

Water was impounded in Polley Lake by a sediment plug that deposited across the lake's outlet during the TSF breach. To stabilize the plug, water is currently being pumped from Polley Lake into Hazeltine Creek. The goal of the diversion is to reduce water levels in Polley Lake to pre-incident levels. The water is currently extracted from Polley Lake and discharged just below the point where the TSF breach flowed into the creek channel. The current pumping rate is approximately 0.6 m³/sec, which is higher than the mean annual discharge (MAD) flow of Hazeltine Creek (Minnow, 2014). To reduce the risk of high flows during the 2015 freshet it is necessary to draw the level of Polley Lake down to or below its pre-incident level. Considerations for water management include the following:

- maintaining the current water management strategy, making adjustments as required to support rehabilitation of Hazeltine Creek
- constructing a permanent or temporary outlet to Polley Lake and allowing water to flow out of this outlet to match the inflow into Polley Lake
- pumping water out of Polley Lake into an adjacent watershed to minimize flow in Hazeltine Creek
- pumping water directly from Polley Lake to Quesnel Lake to minimize flow into Hazeltine Creek

The current water management strategy has successfully reduced the water level in Polley Lake by over 0.3 m, and continues to reduce the water level at a rate of approximately 0.2 m per week. As a result, the risk associated with plug overtopping, plug failure and run-off surge in Hazeltine Creek continues to be reduced. The diversion of water into Hazeltine Creek also causes re-suspension of sediments deposited by the TSF breach, which increases suspended sediment loading into Quesnel Lake from Hazeltine Creek.

A temporary or permanent outlet from Polley Lake can be reconstructed to maintain pre-incident lake levels. Preferably, the outlet be situated near its original location and would be designed to maintain pre-incident flows conditions and to control flow rates during periods of high run-off. This option would naturalize flows to be coupled with incoming precipitation and snow melt, and eliminates the need to pump water and the related issues with the intake and outlet. The naturalization of flow would likely increase the number of larger discharge events, and the associated remobilization of sediment.

Diverting water from Polley Lake into an adjacent watershed will minimize the flows in Hazeltine Creek, which would:

- decrease the potential for erosion/remobilization of sediment
- ease the collection of data for the impact assessment and rehabilitation design
- improve access to the creek channel for rehabilitation activities
- decrease sediment transport into Quesnel Lake





This option would also alter flows, water chemistry and potentially the ecological function of the receiving water body. While the level of flow and impacts to chemistry are quantifiable, the potential ecological impacts associated with watershed transfer are more difficult to predict.

Diverting water directly from Polley Lake into Quesnel Lake will also minimize the flows in Hazeltine Creek and achieve the benefits listed above. This option would not alter flows and water chemistry in the receiving watershed because this water naturally flows from Polley Lake through Hazeltine Creek into Quesnel Lake. This option does involve much greater engineering challenge, would require significant time to implement, and would result in more significant land disturbance, particularly if the pipeline were to take a more direct, overland route to Quesnel Lake.

Table 1 provides a summary of the advantages and disadvantages of each of these options. The preferred strategy is to maintain the current water management program until such time that a more permanent outlet can be constructed out of Polley Lake. This requires the in-stream sediment controls being implemented as part of the Conceptual Interim Erosion and Sediment Control Plan to be proven effective. If these in-stream controls are not effective, then MPMC should consider diverting water directly from Polley Lake to Quesnel Lake to decrease the sediment loading to Quesnel Lake and provide better access into the creek channel for assessment and rehabilitation.

The natural flow will be returned to Hazeltine Creek following its assessment and rehabilitation.





	Table 1: Water M	anagement in Hazeltine Creek	
Option	Advantage	Disadvantage	Mitigation
	Maintains impacted water in the current watershed	Re-mobilizes sediments associated with TSF breach	Construct settlement basins upstream of Quesnel Lake.
	Water management measure is already in place	Requires active pumping, potentially during at least the first part of winter	Turn off pumping during sensitive in-stream work
Pump water from Polley Lake to Hazeltine Creek	Flow in Hazeltine Creek can be controlled	Increases sediment loading to Quesnel Lake	Control pumping rate to reduce sediment loading in creek
	Water level in Polley Lake can be controlled	Base flow in Hazeltine Creek during creek rehabilitation work	Maintain pumping rate to mirror stream flow
	Allows natural flow to occur	Risk of high flow event prior to or during creek rehabilitation	Construct settlement basins upstream of Quesnel Lake.
Construct temporary outlet from Polley Lake	Active pumping, intake and discharge avoided	Risk of sedimentation loading associated with outlet	Construct a weir to control flows during high runoff events
to Hazeltine Creek		Potential for fish passage into Hazeltine Creek during the rehabilitation work	Construct fish barrier
	Minimizes flow in Hazeltine Creek.	Water quality and quantity impacts to receiving watershed	Monitor water prior to pumping
Pump water from Polley	Allows rehabilitation work to proceed with minimal flow	Large scale pumping and active monitoring of discharge	Monitor receiving watershed
Lake into a different watershed	Minimizes sediment loading to Quesnel Lake	Ecological impacts associated with transfer difficult to predict	
	Minimizes flow in Hazeltine Creek.	Larger volumes of water need to be pumped during freshet	Size pumps for freshet flows
Pump water from Polley Lake into Quesnel Lake	Minimizes sediment loading to Quesnel Lake	Large scale pumping and active monitoring of discharge	
	Allows rehabilitation work to proceed with minimal flow	Significant engineering challenge and potential for surface disturbance	



## 3. Accommodating Spawning Salmon

In its current state, Hazeltine Creek does not provide adequate spawning habitat for returning (spawning) salmon to complete their reproductive process; however, there is a high probability that salmon species will be returning to both Hazeltine and Edney creeks. Review of available information suggests that the returning numbers for coho salmon may be low (n=4 Hazeltine Creek; n=12 Edney Creek; Holmes et al. 2008). Accordingly, the importance of each watercourse in supporting a self-sustaining population of coho salmon, and the significance of this year's reproductive event, is unknown. There is also insufficient information at this time to understand the ecological importance of Hazeltine and Edney creeks to sockeye salmon spawning and rearing.

The following options are being considered for accommodating spawning salmon destined for Hazeltine and/or Edney creeks:

- establish or leave existing upstream migratory obstruction(s) to Hazeltine and Edney creeks as-is and rely on natural recruitment once Hazeltine Creek has been rehabilitated
- provide (i.e., physically create) upstream migration access to Edney Creek; which would be open to all returning spawning fish
- capture spawning fish congregating at the Hazeltine Creek/Quesnel Lake confluence and physically transfer those fish upstream into Edney Creek
- build a temporary hatchery facility in the vicinity of Hazeltine & Edney creeks that can provide egg incubation and juvenile rearing capacity for key spawning species (e.g., coho, sockeye) returning to these two watercourses

Maintaining the current obstruction to fish access to Hazeltine Creek (or manufacturing an obstruction) may result in returning fish seeking alternative spawning locations. It may also result in these fish failing to spawn. In either event, the spawning year will be lost in the two creeks and re-population would be contingent on seeding the creeks in the future or natural recruitment.

Constructing an access route to Edney Creek would potentially provide passive upstream migration opportunity for returning adults to spawn as they otherwise would. Assuming Edney Creek flows would still merge with Hazeltine Creek prior to entering Quesnel Lake, the flows leaving Edney Creek should be higher (than those in Hazeltine) to ensure greater chance of attracting returning fish into Edney Creek. This option does not distinguish between fish returning to Hazeltine Creek, which would be blocked, and those returning to Edney Creek. Given the available information, the numbers of returning spawning salmon (i.e. coho) are expected to be low; hence, the potential consequences of 'mixing' stocks are considered to be low.

Capturing returning spawning fish at the Hazeltine Creek/Quesnel Lake confluence and transferring those individuals upstream into Edney Creek maintains the spawning run in Edney Creek while minimizing the risk of stranding fish in Hazeltine Creek Again, this option would not distinguish between fish returning to Hazeltine Creek, which would be blocked, and those





returning to Edney Creek. This option employs a different mechanism for directing spawning fish into Edney Creek.

Capturing a select number of spawning male and female salmon at the Hazeltine Cr/Quesnel Lake confluence and manually spawning the individuals in a hatchery environment would allow maintenance of the Hazeltine and Edney Creek runs. The goal would be to raise fish to the appropriate life stage and release back to Hazeltine/Edney creeks or Quesnel Lake, when appropriate. This option could allow for conservation of the local broodstock(s) while rehabilitation of Hazeltine Creek is implemented. MPMC could potentially develop its own temporary hatchery in the vicinity of Hazeltine/Edney creeks (on the ground or on a barge in Quesnel Lake), or investigate options for utilizing space at an existing hatchery.

Table 2 provides a summary of the advantages and disadvantages of these options. The preferred option would appear to be to collect returning spawning fish, incubate the eggs and return the fry to the creeks once rehabilitation of Hazeltine Creek has been completed.



	Table 2: Options under Consider	ation for Accommodating Spawnir	ng Salmon
Option	Advantage	Disadvantage	Mitigation
No Passage and rely on Natural Recruitment post-rehabilitation of	Numbers of spawning salmon historically utilizing Hazeltine and Edney Creek are reported to be low and may not be self-sustaining.	May take years to naturally recruit sufficient numbers of fish to become self sustaining.	Natural recruitment only post- Hazeltine Creek rehabilitation.
Hazeltine Creek		2014 spawning runs in Edney and Hazeltine Creek are lost.	Artificially re-populate Hazeltine and Edney Creeks once rehabilitation is completed.
	Access to potential spawning habitat in Edney Creek.	Unknown whether spawning fish will successfully reproduce in Edney Creek.	Conduct a field reconnaissance to rapidly characterize available spawning habitat quality (and conditions) in Edney Creek.
Construct migration	Transferring fish upstream may be most effective given potential low numbers of spawning fish expected.	Construction of access to be costly for potentially low numbers of spawning fish.	Design effective method for capturing and releasing spawning fish.
construct inigration corridor or capturing and transferring fish to Edney Creek.	Passive access allows fish to move as they come in under preferred conditions.	Designing and constructing an effective access channel is time constrained given upcoming spawning of key species (sockeye, coho).	Construct fish blockage to prevent re-access to Hazeltine Creek once the fish have arrived or been transferred to Edney Creek.
	'Mixing' of Hazeltine and Edney stocks is expected to have low effect.	Unable to decipher whether returning fish are from Hazeltine or Edney Creeks. Uncertain whether 'mixing' of Hazeltine and Edney stocks will be detrimental.	
	Preserve important broodstock for a spawning species listed under federal SARA (Interior Coho Salmon populations).	Set-up of a temporary hatching and rearing facility is time-constrained.	Investigate opportunities for obtaining space in existing hatcheries.
Temporary Hatchery Facility to conserve key salmon broodstock.	Edney and Hazeltine Creek individuals are likely interdependent, thus combining fish is acceptable.	Uncertain at this time whether coho salmon in Hazeitine and Edney Creek are self sustaining populations and reproductively isolated/different from one another; uncertain on importance of watercourses to sockeye salmon productivity.	Expedite design of temporary hatching and rearing facilities.
*part Control		Unable to decipher whether returning fish are from Hazeltine or Edney Creek. These returning fish will be mixed.	



## 4. Timing of Hazeltine Creek Rehabilitation

The preferred timing of the rehabilitation of Hazeltine Creek is fundamental to planning and implementing the Comprehensive Environmental Impact Assessment and Action Plan (SLI, 2014). Work in stream channels is typically implemented during summer fish windows that coincide with periods of low discharge and lowest ecological consequence. It may be more beneficial to rehabilitate Hazeltine Creek outside of this window given the high level of impact to Hazeltine Creek and its associated riparian zone that occurred as a result of the TSF breach. Accelerating rehabilitation of the creek and riparian habitat should be given consideration in this light. The following timing options are considered reasonable:

- December, 2014 to March, 2015
- July to October, 2015
- December, 2015 to March, 2016

MPMC should initiate discussions with Ministry of Forests Lands and Natural Resources Operations and Fisheries and Oceans Canada to identify the bests options for in-stream work to return the impacted streams to provide productive capacity to the relevant fish populations.

Implementation of the earliest rehabilitation program would expedite the rehabilitation of Hazeltine Creek and would allow the reclamation of the riparian habitat to commence before the growing season of 2015. The rapid implementation would likely require work to occur in parallel with impact assessment activities, and with a coordinated and incremental design, approval and implementation process. It is possible that specific decisions would need to be made without the benefit of all of the results of the comprehensive EIA process. Implementation would also be challenged and benefit from certain aspects of winter construction (e.g. low flow, freezing conditions, short days).

Execution of the creek rehabilitation in the summer of 2015 would allow the design of the rehabilitation to fully benefit from the results of the CEIA and associated regulatory review, as well as summer construction. Implementation could be challenged by high rainfall and related runoff, should these events occur. The reclamation of riparian vegetation would be delayed one full growing season. Rehabilitation of fish habitat would be delayed approximately 6 months, which could negatively impact 2015 salmon spawning success.

Execution of the creek rehabilitation from December, 2015 to March 2016 would also allow the design of the rehabilitation to fully benefit from the results of the CEIA and associated regulatory review. It would also be challenged and benefit from winter implementation. Reclamation of riparian habitat would be delayed until 2016 and mitigation strategies would need to be implemented to address the fall, 2015 salmon run.

Review of the advantages and disadvantages of these options is provided in Table 3. It is SLI's preliminary opinion that implementation of the rehabilitation work from December, 2014 through



March, 2015 is ultimately preferable. This will involve initiating rehabilitation work as soon as is practical, understanding that the time to complete this work cannot be predicted at this time.

The advantages of earlier start to riparian habitat reclamation and creek rehabilitation to support a fishery outweigh the disadvantages associated with completing the assessment and rehabilitation design activities in parallel. The design and construction of the channel will be completed in stages, reconstructing the lower channel that connects Quesnel Lake to Edney Creek first due to the importance of returning access of salmon to the system. Subsequently, upstream sections will be designed and constructed. Parallel construction programs can also be implemented to expedite execution.

	Table 3: Timing of	rehabilitation of Hazeltine Creek	
Option	Advantage	Disadvantage	Mitigation
- 000 mode - 00 - 07 - 0	2015 Growing season for riparian vegetation and habitat.	Not all results of CEIA will be available for review and integration into design.	Coordinated and incremental design, approval and implementation process.
December, 2014 to	Low flow and frozen ground for vehicle support.	Winter construction involves short days and sometimes challenging conditions.	Separate, parallel construction activities to expedite completion.
March, 2015	More rapid execution and completion.	Execution, design and regulatory feedback must occur in parallel.	
	Hazeltine Creek is rehabilitated for the 2015 freshet.		
	Design of rehabilitation to fully benefit from the results of the CEIA and regulatory feedback.	Potential for high rainfall and associated discharge event in Hazeltine Creek.	Active controls placed on flows from Hazeltine Creek.
July to October, 2015	Summer construction with long days and lower risk of challenging conditions.	Riparian vegetation recovery delayed until 2016.	2014 fish conservation strategies can be continued in 2015.
		Negative impact to 2015 salmon spawning success.	
	Design of rehabilitation to fully benefit from the results of the CEIA and regulatory feedback.	Hazeltine Creek remains in management mode for a full year.	Conceptual Interim Erosion and Sediment Control Plan continued through 2015.
December, 2015 to March, 2016	Low flow and frozen ground for vehicle support.	Winter construction involves short days and sometimes challenging conditions.	2014 fish conservation strategies can be continued in 2015.



### 5. Turbidity Assessment

A turbidity plume has been observed at depth in Quesnel Lake. The source of this turbidity plume is likely attributable to one or more of the following:

- suspended tailings that originate from the tailings pond upstream of the TSF breach
- suspended sediments that are remobilized in Hazeltine Creek as a result of the water transfer from Polley Lake
- residual turbidity associated with the disturbance of sediments in Quesnel Lake that occurred during the TSF breach
- turbidity associated with lake currents and over-steepening of the Hazeltine Creek Delta from rapid deposition of the tailings and eroded soils on the delta front

The composition of the suspended sediment has yet to be determined. Further characterization will be completed to better understand the nature and extent of the sediment plume, and the potential risks to ecological receptors and water users. The Current Monitoring Program will be continued and adjusted as required to better understand the dynamics, location and extent of the plume. High volume samples will be collected for characterization of the suspended and dissolved loads within the plume. The results of these analyses will be compared to knowledge of the composition of the tailings, soils and natural sediments of Quesnel Lake to determine the likely origin of the sediment that is associated with the elevated turbidity. This will assist in understanding the source of the turbidity as well as evaluating the potential risks associated with this plume. Sedimentation tests will also be completed to determine whether this turbidity presents a longer term risk to lake water quality, or whether it is expected to decrease as a result of the deposition of solids. Toxicity testing will also be completed using larger volume water samples collected in zones of elevated turbidity.

Detailed bathymetric surveys, monitoring and modeling of the sediment plume is being initiated to better understand the fate and transport mechanisms of the sediment, including potential behavior of the sediment plume in the fall when the lake thermo-cline typically reverses. This program will be described in the work plans to be submitted on August 29<sup>th</sup> and will further inform our assessment of potential for impacts to lake water users and ecological systems.

The following options will be analyzed for mitigating potential impacts associated with this plume, once there is greater knowledge regarding its composition and anticipated behaviour and migration pattern:

- filtration systems for water users on Quesnel Lake and River
- erosion controls in Hazeltine Creek
- decrease discharge into Hazeltine Creek to decrease erosive potential
- plume mitigation and treatment alternatives



Filtration systems can be provided to water users on Quesnel Lake if the turbidity plume persists and is viewed to present a health risk.

The Conceptual Interim Erosion and Sediment Control Plan will be implemented to reduce sediment loading to Quesnel Lake. Monitoring of the effectiveness of this Plan will be implemented to determine whether additional controls are required to reduce sediment loading to the lake. If required, pumping of water into Hazeltine Creek can be decreased to further reduce the erosive potential of the Creek and therefore the concentration and mass of suspended sediment loading to Quesnel Lake.

The feasibility and anticipated effectiveness of collecting and treating water in the plume can be evaluated as an extension of the plume mapping and modeling program. The practicality of this option will be challenged by the location and distribution of the turbidity plume. This type of mitigation should be considered only if the turbidity plume is demonstrated to present a significant risk to lake water users or the lake environment.

#### References:

Holmes J and R Holmes. 2008. The 2007 Adult Coho Assessment of Tributaries of Quesnel Lake WSC 160 Waterbody ID 00431QUES. Prepared for Tolko Industries Ltd., January 23, 2008. 11pp. + appendices.



Date

August 24, 2014

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

Attention:

Hubert Bunce., Director Environmental Management Act

Re:

Conceptual Gavin Lake/Horsefly Forest Service Road temporary access plan for

initiation of interim mitigation works.

In order to establish temporary access across the Gavin Lake Road and the Horsefly, Mount Polley Mining Corporation (MPMC) proposes the following works and construction sequence. The access is to support the sediment and erosion control measures described in the Conceptual Interim Sediment and Erosion Control Plan (August 21, 2014).

The temporary crossing will be in place until a suitable permanent resource bridge can be constructed. This bridge will be designed by a qualified bridge engineer. It is the intention to retain a bridge engineer to initiate the survey and design for installation suitable permanent structure. The design would start late August early September in order to re-establish permanent access as soon as conditions allow in spring of 2015

As a temporary measure we propose to use (2) 1200 mm culverts placed somewhat elevated over the existing stream channel. The 1200 mm culverts would be perched to allow some settling in behind the coarse rock base. The outlets of the culverts would not exceed 500 mm above the outlet water elevation. This would allow adult fish migration should mitigation and restoration activities proceed to the point to re-establish fish use.

The culvert capacity would be assess be a qualified water resource engineer to ensure they would accommodate the potential freshet flows for fall and spring.

#### Construction sequencing and details

- Establish a rock ramp access down to the edge of the flowing water in the Hazeltine channel.
- 2) Place a 500mm base of 25 mm to 300 mm well graded coarse rock (with fines removed) across the base of the channel dewatered channel
- Place a bed 25 mm minus material around the culvert locations to secure and embed the culverts
- 4) Anchor the culvert with some 10 to 30 kg size class rip-rip
- 5) Place rip-rap on the face of the base material to reduce erosion potential.
- 6) Re-establish flows through the two installed and anchored culverts
- 7) Place a well graded coarse rock material to the needed elevation

- 8) Decommission once the permanent access is completed
  - a. Removal of erodible material and settled fines behind the rock coffer dam
  - b. Reestablish stream channel through the temporary and permanent crossing locations

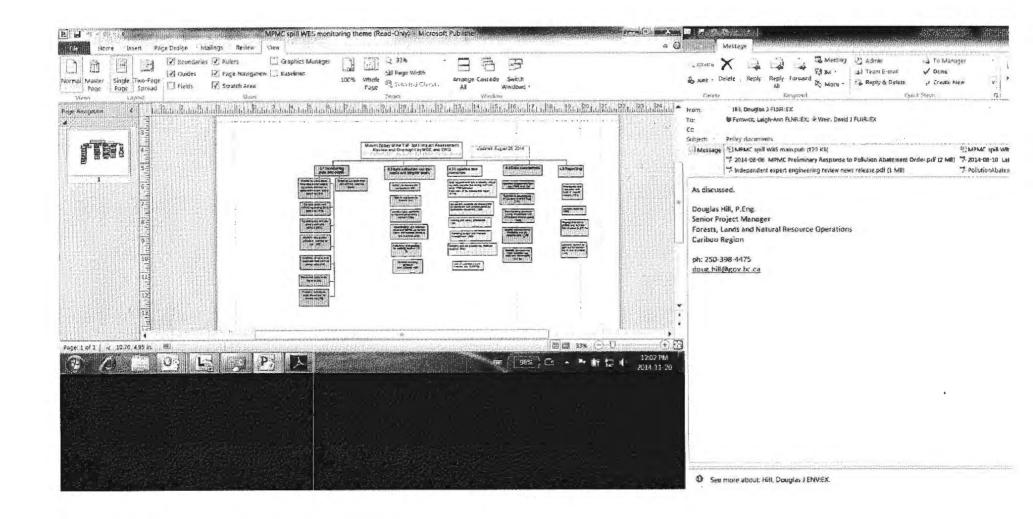
This letter provides additional details to support the upcoming reclamation and mitigation works and advises the regulatory and First Nations Representatives on plans and approaches.

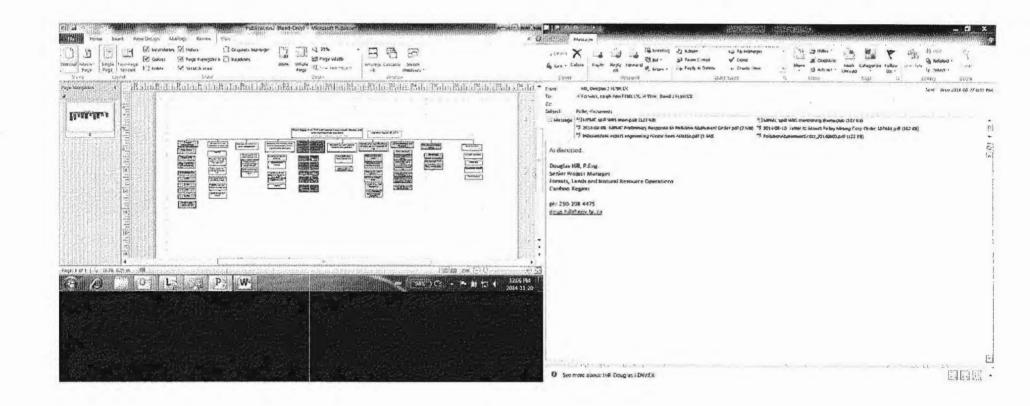
Sincerely,

MOUNT POLLEY MINING CORPORATION

Via email

Jack Love, R.P.Bio.
Environmental Manager
Imperial Metals-Red Chris Mine-Mount Polley Mine-Hwy37 Power Corp
604-358-2699 MOBILE
250-790-2215\*2560





## Weir, David J FLNR:EX

From:

Hill, Douglas J FLNR:EX

Sent:

Wednesday, August 27, 2014 6:41 PM

To:

Fenwick, Leigh-Ann FLNR:EX; Weir, David J FLNR:EX

Subject:

Polley documents

Attachments:

MPMC spill WBS main.pub; MPMC spill WBS monitoring theme.pub; 2014-08-06 MPMC Preliminary Response to Pollution Abatement Order.pdf; 2014-08-10 Letter to Mount Polley Mining Corp Order 107461.pdf; Independent expert engineering review news release.pdf; PollutionAbatementOrder\_20140805.pdf; SNC Impact Assessment and

Action Plan\_FINAL\_621717.pdf; Mount Polley Aug 17 Final LOU 654 pm.pdf;

MPMC\_Tailings\_Dam\_Failure\_Monitoring\_Program\_Rev3.pdf

As discussed.

Douglas Hill, P.Eng. Senior Project Manager Forests, Lands and Natural Resource Operations Cariboo Region

ph: 250-398-4475 doug.hill@gov.bc.ca



Date

August 6, 2014

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

Attention:

Hubert Bunce., Director Environmental Management Act

Re: Preliminary Response to Pollution Abatement Order File: 107461

In the early morning of August 4th, 2014 the Tailings Storage Facility (TSF) was breached at Mount Polley Mine, releasing an undetermined amount of water and tailings. The cause of the breach remains unknown at this time. On August 5th, 2014 the Ministry of Environment issues a Pollution Abatement Order on the grounds that pollution is being caused by the discharge from the TSF. The Pollution Abatement Order outlined a series orders pursuant to section 83 of the Environmental Management Act (EMA). This memorandum is intended to provide the initial deliverables due August 6th, 2014 outlined in the memo and listed below:

- A) Immediately retain a suitably qualified professional to initiate a preliminary Environmental Impact Assessment (EIA) and provide the name of the qualified professional to the Director for approval by August 6, 2014.
- B) Based on the preliminary EIA, develop and submit to the Director by August 6, 2014 for approval, an Action Plan detailing measures relative to the preliminary EIA to be taken to:
  - a. Characterize the materials that were released into the receiving environment (including their expected behaviour in the receiving environment, settling rates, etc.);
  - Recover or otherwise manage mine-affected materials and sediments currently in the receiving environment;
  - c. Mitigate residual risks to the environment;
  - d. Assess and monitor the impacts and risks posed by the mine-affected materials and sediments currently in the receiving environment, as well as from the recovery and management efforts themselves; and
  - e. Report on the implementation of Action Plan measures on a weekly basis to regulatory agencies and stakeholders.

The remaining portion of the memorandum presents the point by point actions to the order as well as the preliminary Environmental Impact Assessment (EIA) and monitoring programs.

#### Qualified Professionals

Mount Polley Mining Corporation has assembled to following team of qualified persons with more than 60 years' experience in Environmental Impact Assessments:

- Jack Love B.Sc., R.P.Bio Imperial Metals (resume attached to memo)
- Pierre Stecko, M.Sc., EP, R.P.Bio Minnow Environnemental Inc. (resume attached to memo)
- Norm Zirnheit, Environmental Quality Inc. (resume forth coming)

Mount Polley is also in discussions with addition Qualified Professional to support the EIA and will provide additional qualifications, roles and responsibilities as the team develops.

#### Characterize the materials

Following the memo are a series of table that characterize the tailings supernatant and the tailings sands that migrated through the breach. Mount Policy mining will work toward fully characterizing the materials including fate and effects in the receiving environment.

# Recover or otherwise manage mine-affected materials and sediments

#### The

Recovery and management of the materials is currently unsafe due to the potential instabilities associated with the tailings dam, the exposed tailings, and the plug of debris and tails in Polley Lake. This information and safety concerns were provided to MoE on a conference call on August 6<sup>th</sup>, 2014.

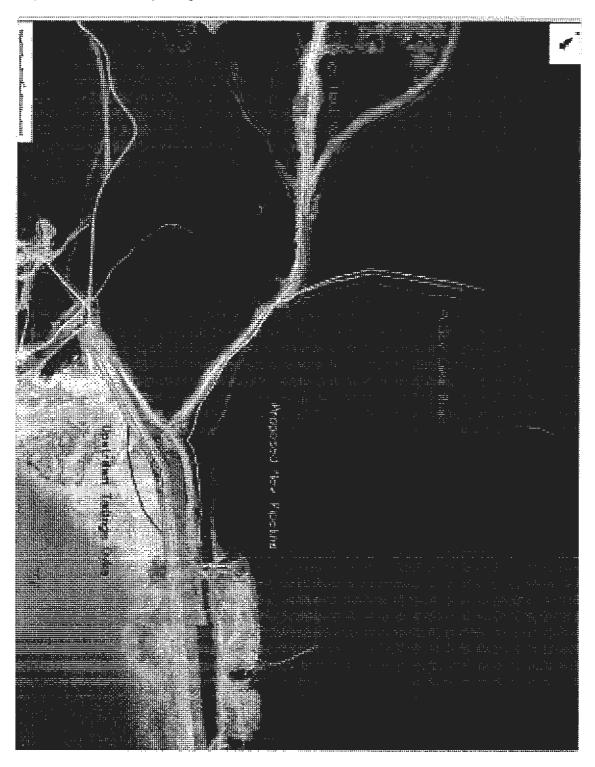
#### Mitigation Plan

The flowing plan was presented to make the area safe for access to initiate monitoring of the impacts and initiate additional mitigation and restoration activities (see Figure 1: Preliminary Mitigation and Stabilization Plan)

The plan includes two key aspects:

- 1) Stabilization of the breach area exposed tailings to additional slumping and migration. This includes construction of an upstream tailings dyke to hold back the tails and filter any effluent discharging from the TMF Photo 1 below show the breach of the dam and the proposed dyke would be in the foreground.
- 2) A clean water diversion (Yellow Line in Figure 1) to reduce the water impounded in Polley Lake (see photo 2). There is a safety and environmental risk should the water pressures behind this material not be reduced and an uncontrolled release occur.

Figure 1: Preliminary Mitigation and Stabilization Plan



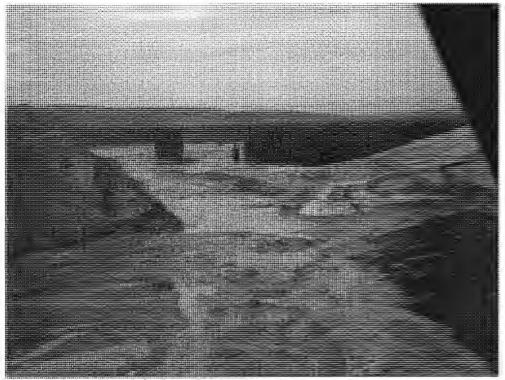


Photo 1: Dem breach looking downstream



Photo 2: Tails plug impounding Polley Lake

## Assess and monitor the impacts

A preliminary Aquatic Environmental Impact Assessment Monitoring Program is included in this memo for review. We have also prepared table of contents (TOC) for further defining the higher level concepts for the EIA. Implementation of the initial EIA commenced on August 6<sup>th</sup>, 2014. The EIA and monitoring approaches are presented in draft format for further refinement as information is gathered

## TOC for the Preliminary EIA

- 1) Introduction
- 2) Monitoring Approach
  - a. Weight of Evidence Approach
  - b. Before After Control Impact (BACI) design
  - Consultation with scientists experienced with research that has been conducted on Quesnel Lake
  - d. Short term & long term monitoring consideration
  - e. Stratification of the various eco-types downstream of the mine
- 3) Initial Results & Revision of Program
- 4) Study Design
  - **a.** Develop detailed study designs to ensure adequate sampling intensities and consistent methodologies
- 5) Statistical analysis
- 6) Action Plan:
  - Characterization of released materials and refinement of predicted impacts
  - Recovery & management of mine-affected materials in the receiving environment
  - Identification of risks to the Receiving Environment
  - Mitigation of residual risks
  - Monitoring Program
  - Prospects for restoration of affected aquatic ecosystems e.g., Hazeltine Cr.
  - Reporting to regulatory agencies & stakeholders will be weekly via a one page summary of major activities undertaken by Mt. Polley over the past week. Key stakeholders need to be identified: reports, businesses, residents, First Nations, MOE
- 7) Adaptive Management Plan
  - a. Preliminary findings will allow the evolution and adaption of monitoring tools to characterize the potential effects to the receiving environment
  - Tis may also allow feedback to operational activities mitigate additional environmental risks

## Report on the implementation of Action Plan Measures

Based on the conference call on August 6<sup>th</sup>, 2014 it was decided that daily conference calls with MoE agencies and other stakeholders at 15:00 each day until the group decides mutually to reduce frequency.

Sincerely,

MOUNT POLLEY MINING CORPORATION

Via email

Jack Love, R.P.Bio.
Environmental Superintendent
Imperial Metals-Red Chris Mine-Mount Polley Mine-Hwy37 Power Corp
604-358-2699 MOBILE
250-790-2215\*2560

Sumple Point	Dute	Cond (in situ) (µs/cm)	pH (in sku) (pH)	Temp (in sau) [Deg Colcius)	Hardman (as CaCGS) (reg/L)	Total Suspender Solids (ny/L)	Chloride (CII (reg/u	Sulphate (mg/L)	Arramoniu (us N) (mg/L)	Metrate (as N1 (mg/L)	Mitrate and Notrice tas Mi (mg/L)	Nitrite (as N) (mg/L)	Total hitragen (mg/L)	Phosphorus (P) Yotal (mg/L)	Auminum (A)- Disolved (mg/L)	Fon (fe)- Ossolvad (mg/L)	Cadmium (Cdi- Yotal (mg/L)	Copper (Cu)- Total (mg/L)	fron (Fe)-Total (mg/L)	Molynderum (Mol-Total (mg/L)	Selenium (Se)- Total (mg/L)	Dissolved Organic Carbon (ring/L)
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11 - Tailings Impoun	29-011-09	766	8.64	1.3	760	189	37.8	a77	0.146	3.42		0,111	5.95		0.0110	<0.03	0.000246	0.0325	0.403	0.24		3.16
2 - Taillings Impound	35-Nov-09	1689	8.98	3.5	741	33	30.4	833	0.226	3.68		0.11/	4.6	0.0448	0.0105	40.03	<0.0000085	0.0143	0.69	0.235	0.0197	4.35
1 - Jailings Impoun	9-Dyc-07				ыю	3,h	73	8/0	0.297	3.91		0.149	5.45		0.0179	¢0.03	40 000085	0.00517	0.4/35	0.233		5.53
1 - Tailings Impoun	15-Jan-10	1099	9.41	3.6	547	3.8	98,5 36	809	0.4	4.05		0.169	6.42	0,085	0.0105	40.03	<0.001	0.00506	0.457	0.23		7,97
1 - Talkings Impoun	10-Feb-10 3-Mar-10	1636	9.54	4.5	616 544	<5.0	33.7	750	0.565 0.715	4.02		0.917	4.52 5.97	0.0778	0.0167	60.03	0.000093	0.00548	0.068	0.24	0.0235	8.09
1 - Tolkinga Impoqui	7-April 10	1273	9.35	5.6	650	11	351.6	516	0.479	3.86		0.309	4.82	0.0622	0.015	40.01	<0.000085 <0.00051	0.90602	0.42	E 201	0.0232	ti Sie
1 - Tallings Impaun	174/04-10	1358	8.24	13.1	517	72	36	613	0.707	4.46	4.65	D.189	6.67	0.0414	0.0123	-C () 3	K0.00051	0.04	0.427	0.193	0.0741	1,12
1 - Tailings terpoure	3-Jun-10	7.000	7.8	13.7	552	B	35.3	674	0.079	4,91	5.04	0.131	7.36	0.0163	0.0218	4Q D3	×0.00003	0.0123	0.179	0.773	0.0269	7.52
1 - Tallings Impoun	8-Jul-10	1642	7.117	21.3	740	<3	38	MAS-	0.143	5.67	5,76	0.097	6.26	0.6071	0.0197	40.03	40.000085	DOWL	0.867	0.25	0.0276	6.19
1 - Tallings Impoun	5-Aug-10	1787	7.94	20.9	761	<3	28.8	G16	0.083	4 36	4.48	0.08	7.62	0.0059	0.0095	40.D3	D.000093	<0.035	0.078	0.273	0.0303	5.77
1 - failings inspoun	1-809-30	1948		13.6	7/3	5.3	44	915	0.172	6.99	7.08	0.098	10.1	0.9(0)	0.0109	4C D3	*0.00007	0.0135	D 195	0.207	0.0354	6.73
1 - Tallings Impoun	7-001-10	3061	7, 26	10.5	508	14.2	35	1030	0.28%	6.93	7.1	0.175	7,42	0.0424	0.0166	<0.03	<0.00087	0.0411	0.42	0.228	0.0297	5.67
1 - Tallings termaun	4-1409-30	28814	8.08	5.3	Ne-is	73.1	39.9	945	0.353	729	7.42	D.198	7,38	0.0278	0.012	<0.03	0.000035	0.0641	0.547	0.243	0.0284	b.#Q
1 - Tailings by pour	1-Osc 10	1992	8.25	2.8	970	3.3	4.66	1100	0.406	# 15	11.33	D.178	9.15	UBT18	0.0003	<0.03	e0.0001	0.0067	0.033	0.261	0.0271	8.2h
1 - Tailings bergessers	10-Jan-11	1502	8.42	7.3	11.79	<1	37.6	9/64	0.46	7.9	R-05	0.15	8.5	0.0167	0.0007	<0.D3	~0.000G6	0.00681	0.043	0.274	0.035	9.58
1 - Tallings Impound 2 - Tallings Impound	3-Feb-11 7-Mar-11	3671	9.45	3.7	769	13.3	35.5	899	0.654	7.7	7.65	0.151	7.97	0.0165	6.0093	<0.03	40.00002	0.0158	0.316	0.733	0.0249	10.7
1 - Tailings Impoun	6-Apr-11	1438	8.35	3.3	565	2.6	24.2	657	0.719	5.54	5.15	0.135	6.51		0.0109	60.09	0.000023	0.0052	0.08	0.174	0.0371	10.6
1 - Tallings Impoun	12-44ay-11	1055	7.91	12.6	400	13.2	19.7	474	0.407	4.59	4.68	0.092	6,33	0.0589	0.0132	(0.0) (0.0)	0.008027 <0.00002	0.0139	0.462	0.174	0.0187	9.4
1 - Tallings Impoun-	9-jun-11	3076	0.31	17.2	433	1.7	17.7	525	0.196	4.95	4.93	0.04	7,11	0.0094	0.0379	40.03	40,000012	0.00627	0.075	0.152	0.0158	5.87
1. Tallings Impound	14-34-21	1105	6.33	17	456	3,5	17.7	508	0.0619	5.71	531	0.093	7.52	0.0071	0.0303	40.03	40.00002	0.0103	0 119	0.167	0.0195	4.67
1 - Tallings Impound	4-Aug-11	1176	H 22	15	474	O	20.3	547	0.125	5.66	5.76	0.073	7.14	0.0035	0.0478	40.03	<0.000002	0.00572	D 046	0.176	0 0203	4.76
1 - Taillings Impound	6-5ep-11	1215	# 5n	17.3	470	3.7	23	573	C.0809	5.49	5.47	0.087	N.16	0 1042	0.0255	3ED 0>	CL6KHOONE	0.00554	0.043	D 186	0.0219	41
1 - Tailings Impound	5-Oct-21	1296	8.43	9.4	472	24.2	22.3	573	0.126	5.4	5.5	0.1	6.79	0.001	0.0154	<0.030	C SOUGH D	0.0224	0.331	0.188	0E0223	4.03
1 - Tailings enpours	31-0x1-11	3311	11.5	AA					-													
1 - Tallings Impours	1-Nov-11	1337	1.33	2.5	479	16.9	23.3	596	0.179	% CD2	6.12	0.017	8.6	0.0517	9.0145	×0.030	0,00005	0.0275	3.69	0.73%	0.0216	4,38
1 - Tallings Impound	5-Der-11	1337	9.47	13	452	5.3	24.5	307	0.348	5.69	5.83	0.136	8.77	0.0214	9 0 1 5 5	<0.036	0.000027	0.00402	0.069	0.202	6.0201	5.16
1 - Tallings Impaun		1337	9.16	3.5	449	<3.0	28	5/96	9 323	5.26	5.9	0.145	9.04	0.008	0.0146	<0.030	<0.000020	0.0024	0.061	0.519	0.0206	6.02
1 - Taitings Impound	\$-feb-12	2838	9,33	3.7	442	<1.0	28	596	0.464	5.89	6.00	0.201	10.5	0.0056	0.0137	<0.030	49.000020	0.00371	0.04	0.294	0.021	6,77
1 - Taltings Impound		1331	7.36	3.5	418	3.1	27.9	280	G.478	6.27	6.48	0.715	8.69	0.009	0.01/2	<0.036	<0.000E70	0.00326	0.073	D.194	0.0208	7.76
1 - Talilings impound 1 - Talilings impound		1084	0.471	9.6	434	19.9	27.3	465	0.497 (L40)	5.75	5.52 5.06	0.1/2	9.21	0.0167	0.03	4D.030		0.00766	0.234	0.199	0.0201	7,94
1 - Tailings impours		1126	8.2	123	406	15.2	22.2	454	0.126	4.96	5.03	0.075	6.50	0.0349	0.0521	<0.030 <0.030	-	0.0252	0.655 0.652	0.159	0.0705	77
1 - Tallings Imposes		1131	11.04	16.5	402	<3.0	22.2	497	0.105	5.6	5.61	0.075	6.16	0.0069	0.6271	<0.030	<0.000050	0.0067	0.059	0.1//	0.0222	5.7a
1 - Tailings Impours			M.23	70.1	424	1,6	21.9	521	0.106	5.85	5.92	0.063	7.36	0.0647	0.0254	×0.030	×0.00050	0.005-98	0.002	0.188	0.0222	4,52
1 - Tallings Improves		1225	0.545	14,7	411	3.1	73.7	545	0.182	6.2	6.77	0.075	7.45	0.0053	0.0203	<0.030	40.000670	0.0055	0.13	0.185	0.0274	4.00
1 - Tuilings Impours		1271	- 1	3.2	465	£.3	78	562	0.129	6.32	6.4	0.079	7.7	0,01	0.0391	<0.030	<0.000050	0.000	0.115	0.168	0.0274	4.21
1 - Yallings Impean	15-Nov-12	1284	9.606	1.3	500	7.9	25	574	0.27%	5.46	6.76	0.034	7.56	0.0078	0.012	<0.690	40 000050	0 0111	0.19	0.183	0.0268	4.88
1 - Talitogs Impours		1263	0.247	1.6	458	3.8	24	579	0.327	6.81	4.9	0.097	7.1	0.009)	0.0133	<0.030	-0.000050	0.00411	0.483	0.195	0.0396	7.16
E1 - Tallings Impovin		1273	9,903	3.4	460	5.6	23.4	563	0.359	7.42	7,55	0.125	7.23	9,0079	0.0104	<0.030	<0.00n050	0.00476	0.096	0189	00383	5.43
1 - Tablings Impears		1273	9.854	3.5	489	<3.0	24.1	575	6.395	7.66		0.136	7.27	0.006/			v0.000050	0.00307	0.047	0.197	0.0276	5.97
1 Tollings Impours		1077	0.669	5.4	403	11.3	19.5	4//	0.25	6.26	6.38	0.125	5.67	0.0349	_		<0.000050	0.00028	0.327	0.159	B (72 F2	7.31
1 - Tallings bispours		1193	H,062	21.8	430	196	71.4	540	0.329	7.52	2 41	0.091	7.76	0.015			<0.0000e0	0.0149	12,462	0.183	0.01	4.15
1 - Talkings Impound	5-Nov-13	1281	N. 391	12	474	54.9 <3.0	25.6	576	0.168	7.48	7.57	9.088	7.53	0.0602			<0.0003D	0.0409	1.47	0.2	0.0313	3.57
1 - Taliforgs Impraces		1267	11,777	7,9 5.4	393	186	26.3 22.8	583 453	0.303	7.76 6.75	7.9 \$48	0.147	7.74	0.0977			on occurso	0.00195	0:046	0.196	0.0346	5.34
1 - Tollings Impoun	5-May-34	JUZZ	E 194	3.4	393	18.0	24.4	463	0.177	613	<b>5-86</b>	0.134	2.06	0.0307	-		<0.00023	0.0155	0.357	0 153	0.0284	4.46
		[In situ) (us/on)	pri (in situ)	Temperature (in stru) (Bugrees Celclos)	Herdness (as CeCO3) (mg/L)	Yotal Suspender 3 Splike (mg/c)	Chloride (CQ (mg/L)	Sulphate (mg/L)	Ammunia (as N)	Nikroto (as N) (mg/k)	Militar (as N) (mg/l)	Mission (us. tel)	Total Nitragan (mg/l)	Phosphorus (P) Total (mg/))	Alemnituan (All)	Iran (Fee-	Cadensum (Cd) - Tutal (mu/L)	Copper (Cu)-	iron (Fe)-Total	Malybdanever (Mo)-Tatal	Selenium (Se)-	Distailed Organic Carbon
	Average		# 543	5.8/14285/1	543.04	21./3/2	27.676	647.4	0.7844	5.677	6.2923	(my/L)	(mg/s)	(019) (mg/)	Dissolved (mg/L)	Dissulved (mg/l)	- ATTENT SALMENT	Total (mg/L)	(nw/L)	(mg/l)	Total (mu/L)	[mg/k]

Table 2 Tallings Impoundment Supernatant (Sampling Point E1) Water Quality (August 2009 - May 2014) Compared to BC Aquatic Life and Drinking Water Guideline

	5ur	mmary Statisti	CS	BCWQG	Drinking Water Quality Guidelines		
Date/Time	Mean	Maximum	Minimum	acute	30 day/chronic	(BC/Canada)	
Comment							
						<b>斯斯尼尔斯苏州亚维瑟斯</b>	
onductivity (in situ) (µs/cm)	1352	2001	766				
oH (In situ) (pH)	B.54	9.94	7.30				
emperature (In situ) (Degrees Celcius)	9.0	21.8	1.2	·			
lardness (as CaCO3) (mg/L)	543	970	313				
otal Suspended Solids (mg/L)	9.5	54.9	1.5				
otal Dissolved Solids (mg/L)	1080	2450	730	minimum production and the second second second second second second second second second second second second	and the second second	500	
		-			-		
hloride (CI) (mg/L)	27.7	44.0	17.7	600	150	250	
iulphate (mg/L)	647	1100	397		218	500 (aesthetic)	
Ammonia (as N) (mg/L)	0.284	0.719	0.0348	Temperature dependent			
litrate (as N) (mg/L)	5.68	8.15	3.42	31.3	3	10	
litrate and Nitrite (as N) (mg/L)	6.29	8.33	4.44				
litrite (as N) (mg/L)	0.140	0.917	0.016	0.06	0.02	1	
Total Nitrogen (mg/L)	7.05	10.50	3.62				
Phosphorus (P) Total (mg/L)	0.0236		0.0035	0.0005 - 0.015 (lakes)	National designation of the Control		
Numinum (Al)-Dissolved (mg/L)	0.0191	0.0547	0.0082	0.1	0.05	0.2	
ron (Fe)-Dissolved (mg/L)	0.015	0.015	0.015	0.35			
	清郎 短閉即地						
Antimony (SB) - Total (mg/L)	0.00222	0.00516	0.00087	0.02		0.006	
Arsenic (As) - Total (mg/L)	0.00223	0.00377	0.00125	0.005		0.01	
Sarlum (8) - Total (mg/L)	0.0780	0.108	0.0392	5	1	1	
Cadmium (Cd)-Total (mg/L)	8.970E-05	0.0005	0.00001	0.00002526		0.005	
Copper (Cu)-Total (mg/L)	0.0137	0.0641	0.0020	0.008862	0.00292	0,5	
Thromium (Cr)-Total (mg/L)	0.0005386	0.00209	0.0003	0.001 Cr(V1), 0.0089 CR(111)		0.05	
ron (Fe)-Total (mg/L)	0.266	1.69	0.033	11		3 (aesthetic)	
.ead (Pb)-Total (mg/L)	0.00018	11000000	0.000025	54	5.4	0.01	
Mercury (Hg)-Total (mg/L)	1.7857E-05	0.000025	0.000005		1	0.001	
Vianganese (Min)-Total (mg/L)	0.0350	-	0.0063	1.344	0.9262	0.05 (aesthetic)	
Molybdenum (Mo)-Total (mg/L)	0.205	0.287	0.125	2	1	0.25	
Nickel (NI)-Total (mg/L)	0.00062	0.00165	0.00025	0.065			
iliver (Ag)-Total (mg/L)	0.0000126	0.000049	0.000005	0.0001	0.00005		
Selenium (Se)-Total (mg/L)	0.0241	0.0346	0.0158	D.002		0.01	
Sodium (Na)-Total (mg/L)	89.8	119.0	55.9			200 (aesthetic)	
Zinc (Zn)-Total (mg/L)	0.0024	0.0062	0.001	0.033	0.0075	5 (aesthetic)	
				F2000000000000000000000000000000000000			
Dissolved Organic Carbon (mg/L)	5.98	10.70	2,45				

#### Notes:

<sup>1)</sup> Results below MDL are represented as 0.5\*MDL

<sup>2)</sup> Parameters exceeding water quality guidelines (on average) are shown in rod

Table 3: Tailings Composite Metals Analysis January 2010 - May 2014

ailings Composite Metals Analysis January 2010 - May 2014

Tailings Composite Metals Analysis Janua Date Sampled	31-JAN-10	28-FEB-10	31-MAR-10	31-MAR-10	30-APR-10	30-MAY-10	30-MAY-10	31-JUL-10	31-AUG-10	30-8EP-10	31-OCT-10	30-NOV-10	30-DEC-10	30-JAN-11	28-FE8-11
											PERSONALISM				
Moisture	H15153AF14111411111111111	S S S S S S S S S S S S S S S S S S S	San San San San San San San San San San	DAMES HAVE THE		ations suspensed and a	· ·	Surgest Services	3 processing and a second		and the same of th	A STATE OF THE PARTY OF THE PAR	ET,ELSERISSIOSA (SE	1.02	A PARTIE AND A PAR
На	8.81	8.93	8.80	8.50	5.90	8.81	6.65	8.63	8.74	8.35	8.68	8.82	8.85	9,84	
TYPE TO BE TO BE THE TOTAL OF T				0302640153350							Barria da Barria da Barria				
Aluminum (Al)	19700	19600	19200	20400	20200	22100	20600	22900	22400	20100	19000	20900	20800	18100	19800
Antimony (Sb)	0.37	0.38	0.35	0.40	0.50	0,37	0,42	0,51	0.43	6.52	0.58	0.50	0,64	0.48	0.33
Arsenic (As)	18.0	18.4	14.5	16.3	19.7	15.0	19.1	14.5	16.2	16.9	19.7	16.0	19.0	14.0	11.8
Bartum (Ba)	153	143	184	186	212	228	201	233	263	204	204	206	201	259	223
Beryllium (Be)	0.25	0.25	0.25	0.25	0.25	0.86	0.82	0.88	0,87	0.67	0.68	0.69	0.79	0.71	0.73
Bismuth (BI)	10	19	10	10	10	10	10	10	10	0.1	0.1	0.1	0,1	0.1	0,1
Cadmium (Cd)	0.30	0.17	0.29	0.23	0.34	0.27	0.37	0.23	0.29	0.33	0.42	0.39	0.30	0.16	0.099
Calcium (Ca)	26100	24200	28800	28200	32700	28300	34600	30200	31100	35800	38400	36000	37300	26000	28000
Chromium (Cr)	14.6	10.4	14.0	13.6	14.0	23.7	24.1	20.5	22.6	43.0	18.0	27.3	19.7	31.2	9.97
Cobalt (Co)	20.0	20.2	15.8	15.8	16.9	17.7	17.8	17.3	17.5	15.6	18.1	15.9	16.5	19.0	16.4
Copper (Cu)	1130	991	1150	1070	1220	1100	972	1410	1150	1070	1300	1240	1090	1100	1060
Iron (Fe)	59500	55200	46700	51100	53000	52100	54800	52400	55200	58200	50600	46500	50300	74300	49500
Lead (Pb)	4.7	8.4	7.2	7.9	10.3	10.B	7.9	8.3	4.7	14.3	5.11	5.38	4.17	4.00	3.47
Lithium (Li)	21.6	18,9	18,7	19.2	19,9	19.5	20.3	20.4	19.7	17.9	18.1	17.3	19.0	15.2	19,5
Magnesium (Mg)	14900	13500	11700	12300	12200	13200	13200	13300	13100	11800	10800	11100	11100	10800	11100
Manganèse (Mri)	774	640	785	749	959	729	1060	845	947	1200	1330	1110	1150	828	540
Marcury (Hg)	0.0844	0.105	0,0822	0.0947	0.0941	0,090	0.080	0,085	0,074	0.063	0,066	0.092	0,068	0.0983	0.0616
Molybdanum (Mo)	2.99	5.54	6,53	5,27	4.43	5.6	6.1	5.55	4.47	4.00	5.03	3,87	3,67	2.79	2.52
Nickel (NI)	5.9	2.5	2.5	2.5	2.5	6.3	10.8	10.5	9.8	12.0	7.37	10.6	7.04	13.6	7.66
Phosphorus (P)	1380	1560	1430	1500	1390	1440	1440	1490	1390	1410	1370	1500	1450	1240	1360
Potassium (K)	1480	1470	2090	2130	1760	3050	2340	3050	2750	1580	1570	1920	2710	2190	1970
Selenium (Se)	1.22	2.06	1.88	1.63	1.47	1	1	1.43	1.18	1.03	1,44	1.02	0.03	0.71	0,74
Silver (Ag)	0.45	0,53	0.45	0,37	0.44	0.52	0.55	0.48	0,51	0.48	0.60	0,50	0.48	0,33	0.27
Sodium (Na)	1480	1960	1470	1640	1020	1710	1390	1600	1610	980	780	1370	1480	1100	1620
Strontium (5r)	93.1	136	171	166	150	194	116	197	156	140	133	208	114	114	163
Thallium (Ti)	0.05	0,05	0,05	0.05	0.05	0,25	0.25	0,25	0.25	0.025	0.025	0.025	0,025	0.025	0,025
Tin (Sn)	2,5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1	1	1	1	2.0	1
Titanium (Ti)	1520	1490	1330	1550	1540	1560	1560	1650	1670	1560	1430	1500	1710	1760	1510
Uranium (U)										1.93	1.99	1.86	2.17	1.29	0.956
Vanedium (V)	196	179	169	178	172	167	198	197	200	200	188	177	186	279	172
Zinc (Zn)	85.0	63.0	85.3	72.1	92.2	68.8	89.3	71.9	79.1	95.2	118	118	113	74.4	48.6

Table 3: Tailings Composite Metals Analysis January 2010 - May 2014

Date Sampled	31-JAN-10	28-FEB-10	31-MAR-10	31-MAR-10	30-APR-10	30-MAY-10	30-MAY-10	31-JUL-10	31-AUG-10	30-SEP-10	31-OCT-10	30-NOV-10	30-DEC-10	30-JAN-11	28-FEB-11
Leachable Metals													問題開開間		
Aluminum (Al)-Leachable														0.276	
Antimony (Sb)-Leachable						11								9.00103	
Arsenic (As)-Leschable			-						7					0.0054	
Barium (Ba)-Leachable														0.0396	
Baryllium (Be)-Leachable														9.00025	
Bismuth (Bi)-Leachable														0.00025	
Boron (B)-Leachable														0.054	
Cadmium (Cd)-Leachable														0.000025	
Calcium (Ca)-Leachable														17.4	
Chromium (Cr)-Leachable		1												0.00025	
Cobalt (Co)-Leachable														0.00030	
Copper (Cu)-Leschable														0.0134	
Lead (Pb)-Leachable												4		0.00005	
Lithium (Li)-Leschable														0.0099	
Magnesium (Mg)-Leachable														3,40	
Manganese (Mn)-Leachable	1									10				0.00849	
Mercury (Hg)-Leachable											-			0.000025	
Molybdenum (Mo)-Leachable														0.0317	
Nickel (Ni)-Leachable														0.00025	
Potassium (K)-Leachable	1													13.7	
Selenium (Se)-Leachable											-			0.00295	
Silver (Ag)-Leachable														0.000025	
Sodium (Na)-Leachable														30,3	
Strontium (Sr)-Leachable					***************************************									0.193	
Thaillum (TI)-Leachable				-										0.00005	
Tin (Sn)-Leachable														0.00098	
Uranium (U)-Leachable														0.000343	
Vanadium (V)-Leachable														9.0086	
Zinc (Zn)-Leachable	1													0.005	

Table 3: Tailings Composite Metals Analysis January 2010 - May 2014

Date Sampled	31-JAN-10	28-FEB-10	31-MAR-10	31-MAR-10	30-APR-10	30-MAY-10	30-MAY-10	31-JUL-10	31-AUG-10	30-SEP-10	31-OCT-10	30-NOV-10	30-DEC-10	30-JAN-11	28-FEB-11
TCLP Metals		<b>新洲联盟</b>			OR HAND	Programme (all the	BARRIAN SHARA	HORIZON IN							
1st Preliminary PH	9.73	9,80	9.74	9.74	9,74	9.74	9.80	9.67	9.65	9.51	9.68	9.70	9.52	9.70	9.75
2nd Preliminary PH	1.92	1.91	2.60	2.50	2.35	2.52	2,30	2.85	2.88	2.28	2.24	2.23	2.10	2.55	1,97
Final pH	5.52	5.38	5.58	5.50	5.49	5,61	5,65	5.38	5.47	5.50	5.61	5,50	5.48	5,45	5.44
Extraction Solution Initial pH	4.90	4.90	4.90	4.90	4.90	4.92	4.92	4.92	4.92	4.93	4.93	4,93	4.92	4.91	4.92
Antimony (Sb)-Leachable	0.5	0.5	0.5	0,5	0.5	0.5	0.5	0.5	0,5	0.5	0.5	0.5	0,5	0.5	0.5
Arsenic (As)-Leachable	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0,5	0.5	0.5
Barrum (Ba)-Leachable	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1,25	1.25	1.25	1,25	1.25	1.25	1.25	1,25
Beryllium (Be)-Leachable	0.015	0.015	0.015	0.015	0,015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Boron (8)-Leachable	0.25	0,25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0,25	0,25	0.5	0.71	0.25
Cadmium (Cd)-Leachable	0.025	0.025	0.025	0.025	0.025	0.025	0,025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0,025
Calcium (Ca)-Leachable	523	435	538	498	466	507	510	483	535	491	527	462	538	467	443
Chromium (Cr)-Leachable	0.125	0.125	0,125	0,125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0,125	0,125	0.125
Cobalt (Co)-Leachable	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Copper (Cu)-Leechable	4.59	5,66	4.55	4.50	5.75	2,17	1,69	3.47	3.34	2.82	4.16	3.80	3.80	2.98	3,49
Iron (Fe)-Leachable	0.055	0.055	0.055	0,055	0.055	0.055	0.19	0.23	0.27	0.35	0.055	0.34	0.45	0.50	0.35
Lead (Pb)-Leachable	0.125	0,125	0.125	0,125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
Magnesium (Mg)-Leachable	5.87	5,99	10.1	10.7	12.1	11.8	11.1	15.1	15.3	12.2	11.5	34.7	13.3	14,4	10.1
Mercury (Hg)-Leachable	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0,0005	0,0005	0.0005	0.0005	0,0005	0.0005	0.0005	0,0005	0,0005
Nickel (Ni)-Leachable	0.125	0.125	0.125	0.125	0.125	0,125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0,125	0,125
Selenium (Se)-Leachable	0.5	0,5	0.5	0.5	0,5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0,5	0.5
Silver (Ag)-Leachable	0.125	0.125	0.125	0,125	0,125	0.125	9.125	0,125	0.125	0.125	0,125	0.125	0.125	0.125	0,125
Thallium (TI)-Leachable	0.5	0.5	0.5	0.5	0,5	0,5	0,5	0,5	0.5	0,5	0,5	0.5	0.5	0,5	0.5
Vanadium (V)-Leachable	0.055	0.055	0,055	0.055	0,055	0,055	0,055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055
Zinc (Zn)-Leachable	0,25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.67	0.25

Notes:

1) <MOL represented as 0.5\*MOL

Table 3: Tailings Composite Metals Analysis January 2010 - May 2014

31-MAR-11	30-APR-11	30-JUN-11	30-JUL-11	30-AUG-11	30-SEP-11	30-OCT-11	30-NOV-11	31-DEC-11	30-JAN-12	29-FE8-12	31-MAR-12	30-APR-12	03-SEP-13	30-SEP-13	01-NOV-13	01-DEC-13
						围動視睛睛										
								0.125								
	8.83															
														Helman Harri	<b>非</b> 的想题的	
17300	18900	17000	18800	18700	15200	14300	15300	18000	16300	19200	17200	16800	19100	21800	20100	21100
0.38	0.33	0.42	0.30	0.43	0.34	0.25	0.40	0.32	0.35	0.50	0,38	0.56	0,40	0,49	0,54	0.92
11.7	10,7	11.4	9.34	12.1	9.30	8.70	11.8	10.1	10,6	11.8	8,57	10.9	10.5	11.4	11.8	12.0
234	269	263	228	220	247	253	230	235	326	250	263	297	182	192	202	169
0.73	0.65	0.63	0.52	0.58	9.53	0.46	0.56	0.59	0.56	0.63	0.54	0.65	0.71	0.78	0.73	0.73
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0,1	0,1	0,1	0,1	0.1	0.1	0.1	0,1	0.1	0,1
0.125	0.081	0.138	0.131	0.168	0.109	0.121	0.155	0.128	0.101	0.115	0.077	0.135	0.083	0,114	0.278	0.259
25100	26300	27000	25000	31800	28400	26800	32000	29500	28900	27900	28100	25100	24100	28300	30200	25200
13.1	15.2	21.1	15.3	18.4	13.6	13.4	15.5	20.4	25.7	21.1	15.8	32,4	12.7	19,4	15.4	23.2
17.7	17.7	17.6	18.0	10.3	16.3	14.9	14.3	15,7	17,9	18.0	19.0	16.5	16.5	16.6	16.8	18.9
1050	1180	1110	895	757	1030	1050	730	885	790	849	881	787	638	802	769	1380
47300	45500	47500	43300	42700	42300	30000	32000	40000	53400	51800	52000	46700	49200	49700	48200	51900
3.82	3.16	5.19	5.24	10.1	13.47	5,93	4.72	4.51	4.67	4.79	3.96	6,17	2.93	5.90	11.8	6.53
16,9	15.6	18.3	18.8	20.8	16.7	14.8	18.4	19,7	17.6	16.4	16.3	15.9	14,8	17.3	14.3	15.7
10800	10200	10400	9390	10600	10800	9450	10800	9370	11200	10300	9420	11000	10800	10900	9510	10400
572	524	607	573	721	621	518	694	584	818	570	474	591	489	564	589	473
0,0513	0,058	0.0480	0.0563	0,0880	0.0508	0,0520	0.0583	5,43	0.0411	0.0528	0.0542	0,157	0.0471	0,0896	0.0825	0,112
2.32	2.87	4.72	7.43	8.68	5.28	4.79	6.17	5.07	3.41	4,60	5.69	5.71	3.65	5,87	7.68	9.18
6.27	8.03	7.38	7,81	5.91	3.15	6.27	5.27	1210	11.5	6.35	5.71	11.8	12.1	7.20	0.59	8.47
1380	1280	1300	1230	1260	1260	1160	1270	1950	1180	1270	1150	1200	1180	1359	1310	1490
1990	2180	2970	1850	2370	2230	2070	2320	0.97	1920	3500	2750	2040	2030	2600	2340	2540
0.72	0.86	0.94	0.93	1,14	1.02	0.92	0.82	0.28	0.76	0.86	88,0	1,12	0.79	1.09	1.37	2.29
0.31	0.29	0.37	0.29	0.33	9.30	0.29	0.30	1820	0,24	0,29	0.25	0.34	0,24	0.29	0.41	0.50
900	1660	1550	1830	1780	1300	1580	1350	128	1200	2030	2110	1320	1650	1770	1530	1770
112	131	95.7	119	154	114	106	131	1300	113	116	119	121	213	316	265	282
0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0,025	0,025	0.025	0.025	0.025	0.025	0.025
1	1	1	1	1	1	1	B	1	1	2.3	2.2	1	1	2.3	2.3	2.2
1570	1320	1660	1510	1760	1390	1160	1520	1510	1530	1950	1590	1490	1770	2010	1740	1760
0.946	0.757	0.862	0.639	0.849	0.617	0.552	0.717	0.706	0.745	0.705	0.887	0.812	1.12	1.08	1.26	1.19
173	166	192	152	184	198	109	173	147	209	243	186	185	193	203	188	190
58.9	46.0	81,8	58.7	71.2	54.1	54.0	63.5	59.6	56.1	62.1	45.8	58.0	43.8	50.2	72.9	57.2

Table 3: Tailings Composite Metals Analysis January 2010 - May 2014

31-MAR-11	30-APR-11	30-JUN-11	30-JUL-11	30-AUG-11	30-SEP-11	30-OCT-11	30-NOV-11	31-DEC-11	30-JAN-12	29-FEB-12	31-MAR-12	30-APR-12	03-SEP-13	30-SEP-13	01-NOV-13	01-DEC-13
	Hatties, it is a															加加加到
								0.23								
								0.025								
								0.025								
				-				0.042								
								0.0025								
								0.05								
								0.005								
								12.6								
								0.005								
								0.005								
								0.016								
								0,053								
								0.025								******
	1							2.09								
								0.0090								
								0.046								
	1							0.025								
								0.15	110000000000000000000000000000000000000			-				
								15.2								
								0.025	-							
			-					6.43								
								0,005				-				
								31.0								
								0.191	***************************************							
								0.1						1		
								0,015								
								0.005								
								0.25								
							-	0.015						1	<b>—</b>	

Table 3: Tailings Composite Metals Analysis January 2010 - May 2014

31-MAR-11	30-APR-11	30-JUN-11	30-JUL-11	30-AUG-11	30-SEP-11	30-OCT-11	30-NOV-11	31-DEC-11	30-JAN-12	29-FEB-12	31-MAR-12	30-APR-12	03-SEP-13	30-SEP-13	01-NOV-13	01-DEC-13
		ALL REPORTED BY				AT WELL BY	Passania de la composición della composición del	HERMOON STO						THE MERCE AT		開助性制造
08,0	9.78	9.82	9.77	9.72	9.79	9.82	9.79	9.94	9.87	9,79	9.85	9,83	9.81	9.70	9.71	9.65
2.02	2.59	3,27	2.73	3.77	3.90	3.09	4,37	2.87	3.39	3.16	2.48	3.40	3.24	3.38	5.44	3.25
5.53	5.46	5.59	5.65	5.84	5.82	5,64	6.01	5.54	5.88	5.60	5,60	5,98	5.70	5,72	4.37	5.58
4,92	4.92	4.95	4.97	4.88	4.92	4.92	4.92	4.94	4.93	4,91	4.92	4.95	4.93	4.93	2.88	4.92
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0,5	0.5	0.5	0.5	0.5
0.5	0,5	0.5	0.5	0,5	0.5	0.5	0.5	0.5	0,5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1.25	1.25	1,25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1,25	1.25	1,25	1.25	1.25	1.25	1.25
0.015	0.015	0.015	0.015	D.015	0.015	0.015	0.015	0.015	0,015	0,015	0.015	0.016	0.015	0.015	D.015	0.015
0,82	0,25	0,25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0,25	0.25	0.25	0.25	0.25	0.25	0.25
0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
512	495	504	492	635	514	458	580	531	823	491	603	555	522	525	593	471
0.125	0.125	0.125	0.125	0,125	0.125	0.126	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0,125	0.125
0.025	0,025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
2.03	3,77	2.29	1,37	0.603	1.06	1,12	0.326	0,906	0,513	0,876	0.702	0.786	0,396	0.620	4.70	0.643
0.49	0.30	0.24	0.19	0.15	0,26	0.055	0,056	0.26	0.055	0.49	0.38	0,20	0,31	0.29	9.18	0.34
0,125	0.125	0.125	0,125	0,125	0.125	0,125	0.125	0.125	0.125	0.125	0,125	0.125	0.125	0.125	0.125	0.125
10.3	11.3	10.8	8.71	8,52	9.58	8.52	9.87	9.53	12.0	13,2	13,9	12.5	13.3	14.1	18.3	15.1
0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005		0.0005	0.0005	0,0005	0.0005	0.0005	0.0005	0.0005	0,0005
0.125	0,125	0.125	0.125	0.125	0.125	0.125	0.125	0,125	0.125	0.125	0.125	0.125	0,125	0.125	0,125	0.125
0.5	0,5	0.5	0.5	0,5	0.5	0.5	0.5	0.5	0.5	0.5	0,5	0,5	0,5	0.5	0.5	0.5
0,125	D,125	0.125	0.125	0.125	0,125	0.125	0.125	0,125	0,125	0,125	0,125	0.125	0,125	0.025	0.025	0,025
0.5	0,5	0.5	0,5	0.5	0.5	0,5	0.5	0,5	0.5	0,5	0.5	0.5	0,5	0.5	0.5	0.5
0.055	0.055	0,055	0.055	0.055	0,058	0.055	0.058	0.055	0.055	0.055	0.055	0.055	0,055	0.055	0.055	0,055
0.88	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25

Table 3: Tallings Composite Metals Analysis January 2010 - May 2014

31-DEC-13	31-JAN-14	28-FEB-14	31-MAR-14	30-APR-14	31-MAY-14	AVERAGE
						提供數 集制
		design the state of the state o	地區的開始原	調節無明明時間		
20500	19900	21300	23600	19900	2/0000	19139
0.35	0.36	0,43	0.40	0,37	0.45	0,43
10.5	9.85	10,0	10,1	9.22	9.77	12.32
154	207	177	165	175	185	222
0.75	0.72	0.72	0.77	0.74	0.69	0.63
0.1	0.1	0.1	0,1	0.1	0,1	1.85
0,094	0,086	0.083	0.102	0,113	0.074	0.16
24000	28900	28000	26500	25400	27400	28122
20.4	19.0	26.8	22.6	32.2	22.4	20.3
19.3	17.1	17.6	16.0	17.1	19.6	17.4
896	711	642	788	841	677	931
56300	49300	44900	44000	45100	47900	49851
3.10	2.89	3.02	4.50	3.57	2.92	5,35
16.6	14,8	14.5	16.1	14.3	13.1	17.0
12800	9760	9670	10900	11000	9980	10989
505	489	495	556	469	486	652
0.0836	0.0696	0.0618	0.0645	0.0746	0.0704	0.49
4.33	5.00	4.74	6.26	7.52	4.37	5.37
13.6	8.59	5.65	6.99	10.3	5,48	104.61
1340	1250	1340	1380	1300	1260	1405
2000	2620	2580	2550	2420	2290	2121
1,23	1,00	0.99	1,11	0.92	1.03	1.04
0,32	0.25	0,29	0,30	0,29	0.25	116,01
1300	1990	2030	1830	1360	1480	1438.15
251	279	299	327	274	223	192.12
0,025	0,025	0,025	0,025	0,025	0.025	0.025
1	2.0	2.7	1	2.2	2,5	
1860	1630	1900	1930	1660	1980	1525
1.08	1.16	1,43	1,24	1.07	1,47	15,51
216	190	176	175	173	175	180,54
53.6	37.6	40.8	52.7	46.7	39.1	59.44

Table 3: Tailings Composite Metals Analysis January 2010 - May 2014

AVERAGE	31-MAY-14	30-APR-14	31-MAR-14	28-FEB-14	31-JAN-14	31-DEC-13
		minantini				
0.25				7		
0,013	1				A	
0.015						
0.0408						
0.0014						
0,025						
0.030						
6.3						
8.703						
0.003						
0,009					The state of	
0,033						
0,013						
1.05						
1.7045						
0.027						
0.013	1					
0.09						
7.6						
6,883						
3.22						
0.003						
30.7						
0.192						
0.05						
0.01						
0.003						
0.13	1				- 7	
0,010				1		

Table 3: Tailings Composite Metals Analysis January 2010 - May 2014

AVERAGE	31-MAY-14	30-APR-14	31-MAR-14	28-FEB-14	31-JAN-14	31-DEC-13
		EE THE THE THE THE THE THE THE THE THE T				
9.75	9.65	9.74	9,70	9.75	9.67	9.81
2.95	3.39	3.12	3,11	2.98	2.97	2.48
5,59	5.79	6.90	5.55	5.75	5.58	5.54
4.84	4.90	4.98	4.92	4.93	4.92	4.92
0.5	0.5	0.5	0.5	0.5	0.5	0.5
0.5	0.5	0.5	0,5	0,5	Q,5	0,5
1.25	1.25	1,25	1.25	1.25	1,25	1.25
0.015	0.015	0.015	0.015	0.015	0.015	0.015
0.28	0.25	0.25	0,25	0.25	0.25	0.25
0.025	2,025	0.025	0.025	0.025	0.025	0,025
521	551	748	490	527	520	502
0.125	0,125	0.125	0.125	0.125	0.125	0.125
0.02	0.025	0.025	0.025	0.025	0.025	0,025
1.90	0.137	0.025	1.30	0.362	0.447	0.544
0.64	0.20	D.055	0.22	0.24	0,39	0.51
0.12	0.125	0.125	0.125	0.125	0,125	0,125
12.1	12,2	32.5	13,8	13.1	11.4	12.1
0.000	0,0005	0.0005	0.0005	0.0005	0,0005	0.0005
0.12	0.125	0.125	0.125	0,125	0.125	0.125
0.5	0.5	0,5	0.5	0.5	0.5	0.5
0.11	0.025	0.025	0.025	0,025	0.025	0,025
0.0	0.5	0.5	0.5	0.5	0,5	0.5
0.05	0.055	0.055	0.055	0.055	0,055	0.055
0.2	0.25	0.25	0,25	0,25	0.25	0.25

Table 4: Tailings NPR Analysis

Year	Month	Tailings Composite NPR	NP	С%	AP %	s %
	January	-				
	February	14.2	25.418	0.305	1.791	0.057
	March	17.87	28.085	0.337	1.572	0.05
	April	8.69	26.335	0.316	3.031	0.0 <del>9</del> 7
	May	8.69	26.335	0.316	3.031	0.097
2012	June	9.74	25.502	0.306	2.619	0.084
2012	July	8.66	27.335	0.328	3.156	0.101
	August	15.36	27.502	0.33	1.791	0.057
	September	14.86	27.585	0.331	1.856	0.059
	October	10.88	27.168	0.326	2.497	0.08
	November	15.39	22.752	0.273	1.478	0.047
	December	9.17	22.918	0.275	2.5	0.08
	January	10.52	25.502	0.306	2.425	0.078
	February	19.31	31.919	0.383	1.653	0.053
	March	13.44	25.418	0.305	1.891	0.06
	April	12.8	25.168	0.302	1.966	0.063
	May	14.1	27.002	0.324	1.916	0.061
2013	June	8.84	25.918	0.311	2.931	0.094
2013	July	12.54	25.002	0.3	1.994	0.064
	August	19.5	26.752	0.321	1.372	0.44
	September	8.03	26.335	0.316	3.281	0.105
	October	7.42	27.585	0.331	3.719	0.119
	November	3.48	22.335	0.268	6.438	0.206
	December	7.53	23.418	0.281	3.109	0.1
	January	9.84	26.418	0.317	2.684	0.086
	February	13.47	25.085	0.301	1.862	0.06
2014	March	10.7	25.168	0.302	2.353	0.075
	April	11,25	24.252	0.291	2.156	0.069
	May	13.33	29.169	0.35	2.188	0.07
AVERAGE		11.77	26.049	0.31	2.474	0.09

Note: NPR > 2 is consered to be PAG material

Page 1003 to/à Page 1005

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# **NEWS RELEASE**

For Immediate Release 2014MEM0022-001207 August 18, 2014

Ministry of Energy and Mines and Responsible for Core Review

## Independent expert engineering review launched following Mount Polley dam breach

VANCOUVER – The Government of British Columbia, with the support of the Soda Creek Indian Band (Xats'ull First Nation) and Williams Lake Indian Band, has ordered an independent engineering investigation and inquiry into the Mount Polley tailings pond breach, and independent third-party reviews of all 2014 Dam Safety Inspections for every tailings pond at a permitted mine in the province.

The independent engineering investigation and inquiry is authorized under the Mount Polley Investigation and Inquiry Regulation, issued pursuant to section 8 of the Ministry of Energy and Mines Act. The investigation will be conducted by a panel of experts that will investigate the cause of the Mount Polley Mine Tailings Storage Facility failure, including geotechnical standards, design of the dam, maintenance, regulations, inspections regimes and other matters the panel deems appropriate. This section also provides the panel with the ability to compel evidence and authorizes the Minister to require the company to cover costs of the inquiry.

The independent engineering investigation and inquiry is step one of a two-step process.

First, the independent panel will conduct an investigation and provide recommendations through a final report by Jan. 31, 2015, that will determine why the tailings dam failed.

Second, the panel's recommendations will be received by government and the Soda Creek Indian Band and Williams Lake Indian Band and then shared with the public, and implemented by government as needed and where appropriate to ensure such an incident never happens again.

The panel members have been appointed by government with the support of the Soda Creek and Williams Lake Indian Bands. The panel members are experienced geotechnical experts with expertise in tailings management facilities. They are:

- Norbert Morgenstern, advisor to consulting engineers
- Steven Vick, geotechnical engineer (Colorado)
- Dirk Van Zyl, professor, University of British Columbia (UBC) Normal B. Keevil Institute of Mining Engineering

The Soda Creek and Williams Lake Indian Bands were consulted on the terms of reference for the engineering investigation and will have a liaison to the panel. The Association of Professional Engineers and Geoscientists of British Columbia (APEGBC), and the Institute of Mining Engineering at the University of British Columbia also provided input on the panel members.

The chief inspector of mines has also issued an order to all mining companies to conduct a Dam

Safety Inspection for every tailings storage facility at a permitted mine by Dec. 1, 2014. Under the order, those inspections must be reviewed by an independent, qualified, third-party, professional engineer from a firm not associated with the tailings facility. All information obtained under this order will be provided to First Nations and made public.

Under the Health, Safety and Reclamation Code for Mines in British Columbia, the deadline for annual Dam Safety Inspections would have been March 31, 2015, and would not have required an independent third-party review. The order accelerates the deadline and establishes the requirement for an independent review.

The order also includes a requirement for a third-party review of the dam consequence classifications by Dec. 1, 2014. A dam's consequence classification is based on the potential impact to population, the environment, cultural values and infrastructure should it fail, and is set according to the Canadian Dam Association Dam Safety Guidelines. Under the order, mines with high, very high or extreme consequence classifications will be required to have their Emergency Preparedness and Response Plans reviewed by an independent third-party.

There are currently 98 permitted tailings impoundments at 60 operating and closed metal and coal mines in B.C.

### Quotes:

### Bill Bennett, Minister of Energy and Mines and Responsible for Core Review -

"We have a responsibility, as the jurisdiction where this failure took place, to find out exactly why it happened, ensure it never happens again and take a leadership role internationally in learning from this serious incident."

"Mining is a critical industry in British Columbia, supporting dozens of communities and thousands of families. The independent engineering investigation and third-party reviews of Dam Safety Inspections for every permitted tailings facility in the province will get the answers necessary to provide public confidence following this serious incident."

### Chief Bev Sellars, Soda Creek Indian Band -

"There is no doubt in anyone's minds that this is the worst mining disaster to ever occur in this province. Our nations and all British Columbians have raised questions as to how such a disaster could occur. With this independent investigation, we will all get the answers we need and deserve. We look forward to receiving the results of the investigation and taking action to ensure an accident like this this never happens again."

## Chief Ann Louie, Williams Lake Indian Band -

"An independent engineering investigation is a crucial process required to understand the cause of this breach. However, it is merely a first step in understanding the broader implications of this disaster. Many questions will remain regarding the long-term impacts to our communities and environment."

Dirk Van Zyl, professor, UBC, Norman B. Keevil Institute of Mining Engineering, member of independent engineering investigation panel –

"The failure of the tailings facility at Mount Polley was a dark day for the mining industry not only here in British Columbia, but worldwide. It's extremely important for us to understand how this breach happened and why so that we can move forward with the best possible practices in ongoing and future mining operations."

### Ann English, P.Eng., CEO, Association of Professional Engineers and Geoscientists of BC -

"As the regulator for engineering and geoscience in B.C., we expect resource development projects to be conducted safely and professionally. We are committed to upholding high standards of professional practice for B.C. engineers and geoscientists as they undertake their work. The public has a right to know what happened at Mt. Polley, and it is our hope that the inquiry will bring all the facts to light so we can ensure an accident like this never happens again."

### Al Richmond, chair, Cariboo Regional District -

"Our communities, the various agencies, and the Province have responded to this serious incident and are doing everything necessary to protect our residents and return to a sense of normalcy." We need to get the bottom of why this occurred and ensure it doesn't happen again. Minister Bennett's decision to order an independent engineering investigation will find those answers and give all parties confidence in the results."

### Learn More:

For a collection of documents from government and partners surrounding the Mount Polley breach, visit: <a href="http://www.env.gov.bc.ca/eemp/incidents/2014/mount-polley.htm">http://www.env.gov.bc.ca/eemp/incidents/2014/mount-polley.htm</a>

Four backgrounders follow.

## Media Contact:

Sandra Steilo Media Relations Ministry of Energy and Mines 250 952-0617

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# **BACKGROUNDER**

For Immediate Release 2014MEM0022-001207 August 18, 2014

Ministry of Energy and Mines

## **Mount Polley Inspections**

- Early in the morning of Aug. 4, 2014, the tailings pond dam at the Mount Polley Mine site
  breached and released an estimated 10 million cubic metres of water and 4.5 million
  cubic metres of fine sand into Polley Lake. Hazeltine Creek flows out of Polley Lake and
  the flow of contaminated water continued into Quesnel Lake.
- The Mount Polley mine has a valid Mines Act permit and the company has been generally compliant with the Health, Safety and Reclamation Code and their Mines Act permit conditions.
- Following reports of a previous breach at the mine, Ministry of Energy and Mines (MEM) officials investigated an incident on May 24, 2014, and determined this was not a breach.
   Rather, the height of the tailings pond was above regulation. This occurred in a different area of the tailings pond than the Aug. 4, 2014, dam failure.
- At the time of the advisory, the distance between the water elevation and the crest of
  the dam (freeboard) was less than one meter. The tailings pond level returned to
  authorized levels and freeboard was approximately 2.4 meters when last measured.
  Mine records show that the operation was carrying out visual dam inspections and
  measuring freeboard at an acceptable frequency, including daily measurements following
  the incident.
- The MEM conducted a geotechnical inspection at the mine in September 2013, which resulted in no inspection orders related to the tailings facility.
- Here is a list of recent advisories to Mount Polley from the Ministry of Environment (MoE), only one of which was related to height of the tailings pond. The MoE is responsible to ensure no unauthorized effluent discharge from the tailings pond structure:
  - May 24, 2014: The ministry issued an advisory to Mount Polley Mining Corporation for exceedance of the height of effluent within the tailings impoundment. The effluent level returned to authorized levels commencing June 30, 2014.
  - April 18, 2014: The ministry issued an advisory to Mount Polley Mining Corporation for bypass of authorized treatment works. The site experienced high flows due to spring freshet which caused the pump system to become blocked and resulted in an overflow of effluent to the long ditch. Flow did not reach the creek and was directed into Till Borrow Pit.
  - January and April 2012: The ministry issued an advisory to Mount Polley Mining Corporation for not submitting monitoring data for one of the groundwater monitoring wells.
  - oAug. 30, 2012: The ministry issued a warning to Mount Polley Mining Corporation for failure to report exceedance of the height of effluent for the perimeter pond.
     This perimeter pond overflowed, releasing approximately 150 cubic metres of effluent over 13 hours to ground.

- As required by the Health, Safety and Reclamation Code for Mines in British Columbia, companies must submit Annual Dam Safety Inspection reports to the Chief Inspector on an annual basis. Inspections of tailing pond dams by ministry geotechnical inspectors are conducted at a frequency informed by the dam consequence classification that is designated by the dam design engineers in accordance with the Canadian Dam Association Dam Safety Guidelines.
- Since the Mount Polley mine was permitted in 1995, there have been 16 geotechnical inspections conducted by ministry geotechnical inspectors. One inspection was conducted each year from 1995-2001 and in 2006, 2008 and 2013. Two inspections were conducted in each of 2005, 2007 and 2012.
- In summary, seven geotechnical inspections took place before the mine went into care
  and maintenance in 2001 and nine geotechnical inspections have taken place since it reopened in March 2005. The last geotechnical inspection was conducted in September
  2013 and resulted in no inspection orders related to the tailings facility.
- Here is a historical record of the number of all types of inspections (including geotechnical) each year from 1999 to 2014:
  - $\sim 1999 1$
  - · 2000 4
  - 2001 22 (care and maintenance started September 2001)
  - · 2002 4
  - 2003 2
  - 2004 5
  - 2005 15 (mine reopened March 2005)
  - 2006 10
  - 2007 10
  - · 2008 8
  - · 2009 9
  - · 2010 7
  - · 2011 4
  - · 2012 6
  - · 2013 15
  - 2014 (to-date) 8
- Monitoring devices, called piezometers, designed to measure the pressure of water in the dam, did not show any changes in the water pressure before the dam breach. The last piezometer readings were taken on Aug. 2, 2014. The investigation will determine if the piezometers were located correctly.

### Media Contact:

Sandra Steilo Media Relations Ministry of Energy and Mines 250 952-0617



# **BACKGROUNDER**

For Immediate Release 2014MEM0022-001207 August 18, 2014 Ministry of Energy and Mines and Responsible for Core
Review

## Current investigations underway into the Mount Polley breach

### **Conservation Officer Service**

An investigation into the cause of the Mount Polley tailings pond breach is underway, being led by British Columbia's Conservation Officer Service (COS), and assisted by Environment Canada, Department of Fisheries and Oceans Canada and the RCMP.

The COS is an independent law enforcement body, and forwards recommendations for charges when warranted directly to provincial Crown Counsel.

The COS Major Investigations Unit (MIU) has been at the Mount Polley site since Aug. 4, performing tasks such as conducting interviews and collecting evidence.

MIU officers, trained in specialized investigative techniques, focus on cases that are complex, involve corporations, are international or are multi-jurisdictional in scope. As law enforcement officers, conservation officers in the MIU are highly trained in complex investigations including person interview practices and evidence gathering techniques that can secure criminal prosecution.

The COS uses the highest level of Major Case File Management techniques, as well as internationally recognized systems such as the incident command system. Major Case Management supports major investigations by efficiently processing, organizing, indexing, and ultimately disclosing the large quantities of information derived from these investigations.

The COS is the primary natural resource law enforcement agency in B.C. that specializes in commercial environmental and industrial investigations. The COS enforces over 33 pieces of provincial and federal legislation, including the Environmental Management Act and the Fisheries Act. Conservation Officers are also Special Provincial Constables under the Police Act with a wide suite of powers associated with that designation.

If the public has any information, they are asked to call the Report all Poachers and Polluters (RAPP) line at 1 877-952-7277 or online at www.env.gov.bc.ca/cos/rapp/form.htm.

### Chief inspector of mines Investigation

B.C.'s chief inspector of mines is also conducting an investigation under the statutory authority of the Mines Act.

The Mines Act states:

An inspector may, and on the direction of the chief inspector must, make an investigation of and report about an accident that has caused serious personal injury, loss of life or property or

environmental damage.

Appointed by the Minister of Energy and Mines, the Chief Inspector of Mines is responsible for administering and enforcing the Mines Act and the Health, Safety and Reclamation Code for Mines in B.C.

## Media Contact:

Sandra Steilo Media Relations Ministry of Energy and Mines 250 952-0617

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# BACKGROUNDER

For Immediate Release 2014MEM0022-001207 August 18, 2014 Ministry of Energy and Mines and Responsible for Core Review

## Inspections and independent reviews of tailings ponds at permitted mines

The Chief Inspector of Mines has issued an order to all mining companies to conduct a Dam Safety Inspection for every tailings storage facility at a permitted mine by December 1, 2014.

Under the order, those inspections must be reviewed by an independent qualified third-party professional engineer from a firm not associated with the tailings facility. All information obtained under this order will be provided to First Nations and made public.

Under the Health, Safety and Reclamation Code for Mines in British Columbia, the deadline for annual Dam Safety Inspections would have been March 31, 2015, and would not have required an independent third-party review. The order accelerates the deadline and establishes the requirement for an independent review.

The order also includes a requirement for a third party review of the dam consequence classifications. A dam's consequence classification is based on the potential impact to population, the environment, cultural values and infrastructure should it fail, and is set according to the Canadian Dam Association Dam Safety Guidelines.

Under the order, mines with high, very high or extreme consequence classifications will be required to have their Emergency Preparedness and Response Plans reviewed by an independent third party.

### Tailings ponds in British Columbia

There are a total of 98 tailings ponds at permitted mines in British Columbia. Thirty one of these ponds are at active mining operations and the remaining 67 belong to mines that have either closed permanently or are in care and maintenance, which means they may or may not reopen in the future.

Click the link below for a list of active and inactive tailings ponds in B.C.

http://www.newsroom.gov.bc.ca/downloads/Permitted Metal and Coal TSF.pdf

### Dam Safety Inspections, Reviews and Consequence Classifications

Under the Health, Safety and Reclamation Code for Mines in British Columbia, mining companies are required to conduct annual Dam Safety Inspections and submit them to the Chief Mines Inspector. In addition, mines are required to conduct more comprehensive dam safety reviews on a periodic basis according to their dam consequence classification. The consequence classification is a five-step scale based on factors such as population at risk, potential loss of life, potential damage to environmental and cultural values and economic

impact.

Dam Consequence Classification: Extreme

Frequency of Dam Safety Review (DSR): Every five years

Dam Consequence Classification: Very high

Frequency of Dam Safety Review (DSR): Every five years

Dam Consequence Classification: High

Frequency of Dam Safety Review (DSR): Every seven years

Dam Consequence Classification: Significant

Frequency of Dam Safety Review (DSR): Every 10 years

Dam Consequence Classification: Low

Frequency of Dam Safety Review (DSR): N/A

In addition to annual Dam Safety Inspections and regular dam safety reviews conducted by mining companies as required by the Health, Safety and Reclamation Code for Mines in British Columbia, the Ministry of Energy and Mines also conducts regular geotechnical inspections.

Tailings impoundment structures are inspected by ministry geotechnical inspectors, based on dam consequence classification. The ministry conducted 31 geotechnical mine inspections in 2013.

For more information about dam safety reviews in B.C., check the link below.

https://www.apeg.bc.ca/getmedia/a373a764-1869-41bS-b07d-81d36a0698c3/APEGBC-Legislative-Dam-Safety-Reviews.pdf.aspx

### Chief Inspector's Order

The following is the full text of the Chief Inspector's order:

### Notification of Chief Inspector's Orders

## Tailings Dams - Independent Review of Dam Safety and Consequence Classification

As Chief Inspector of Mines, it is my responsibility to ensure that tailings dams in British Columbia are being designed, constructed, and operated in a safe manner. In light of the recent tailings dam failure at the Mount Polley mine on August 4, 2014, I am issuing the following orders for the purpose of reviewing the safety of tailings impoundment structures at mines throughout the province to establish where improvements may be required.

Owners, agents or managers responsible for tailings dams are being issued these orders pursuant to Section 18 of the Mines Act:

### Orders:

Dam Safety Inspection and Independent Third Party Review of Dam Safety Inspection

1. You are required to conduct a Dam Safety Inspection (DSI) by Dec. 1, 2014. The DSI must cover all dam structures for all tailings storage facilities on your mine site. The DSI must

be conducted by a qualified professional engineer consistent with the BC Ministry of Energy and Mines Guidelines for Dam Safety Inspections.

http://www.empr.gov.bc.ca/Mining/Permitting-Reclamation/Geotech/Documents/Guidelines for Annual Dam Safety Inspections (RevisedAug2013).pdf

- The mine manager must have the DSI reviewed by an independent qualified third party
  professional engineer from a firm that has not been associated with the tailings dam. The
  Independent Third Party Review of the DSI must also include a review of the dam
  consequence classification.
- 2. Both the DSI and the Independent Third Party Review of the DSI must be sealed by the qualified licensed professional engineers who conducted the work.
- 3. Any recommendations made in the DSI or the Independent Third Party Review of the DSI must be summarized in an accompanying letter from the Mine Manager to the Chief Inspector outlining the commitments for completing the recommended work along with a schedule for implementing the recommended work.
- 4. The DSI, Independent Review of the DSI, and the mine manager's letter to the Chief Inspector must be submitted to the Chief Inspector by December 1, 2014.

Emergency Preparedness and Response Plan and Dam Break Inundation Study

- All tailings dams that have a failure consequence classification of high, very high or extreme (and taking into account any change in dam classification resulting from the Independent Third Party Review of the DSI under Orders 1 through 5), must have an Emergency Preparedness and Response Plan (EPRP) and a Dam Break Inundation Study.
- 2. The EPRP and Dam Break Inundation Study must be completed and tested consistent with the Canadian Dam Association, Dam Safety Guidelines (CDA Guidelines). If the tailings facility already has an existing EPRP, it must be reviewed and updated for consistency with the CDA Guidelines and with current standards of engineering practice.
- The Dam Break Inundation Study must be prepared by a qualified licensed professional engineer. The EPRP must be informed by the Dam Break Inundation Study with input from the qualified licensed professional engineer.
- 4. The Dam Break Inundation Study, the EPRP, and a summary of the EPRP test including any identified gaps and lessons learned from the EPRP test, must be submitted to the Chief Inspector by December 1, 2014.

The Ministry of Energy and Mines will be placing reliance on the seal of the qualified professionals undertaking the above work. In addition, all submitted reports and reviews that are submitted to satisfy these orders will be subject to additional review by Ministry of Energy and Mines geotechnical engineers and/or their consultants. As well, in the interest of transparency and the public interest, all submitted documents related to these orders will be made available to the public.

Sincerely,

Al Hoffman, P.Eng. Chief Inspector of Mines

## Media Contact:

Sandra Steilo Media Relations Ministry of Energy and Mines 250 952-0617

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# BACKGROUNDER

For Immediate Release 2014MEM0022-001207 August 18, 2014 Ministry of Energy and Mines and Responsible for Core Review

## Terms of Reference for Independent Expert Engineering Investigation and Review Panel

Below are the Terms of Reference issued by Minister Bill Bennett with the support of the Soda Creek and Williams Lake Indian Bands:

#### Establishment of the Panel

Pursuant to the Mount Polley Investigation and Inquiry Regulation, issued pursuant to section 8 (2) of the Ministry of Energy and Mines Act, I direct that an independent expert engineering investigation and review Panel (the Panel) be established, in accordance with these Terms of Reference, to investigate into and report on the breach of the tailings storage facility (TSF) at the Mount Polley mine on August 4, 2014.

For the purposes of conducting the investigation into the breach of the tailings storage facility at the Mount Polley mine on Aug. 4, 2014, I confer upon the Panel members the powers and authorities as set out in section 8.2 and 8.4(1) of the Ministry of Energy and Mines Act.

I further confer upon the Panel members the protection set out in section 8.5 of the Ministry of Energy and Mines Act.

### Purpose of the Panel

The purpose of the panel is to investigate into and report on the cause of the failure of the tailings storage facility that occurred on Aug. 4, 2014, at the Mount Polley mine in B.C.

The panel will report on the cause of the failure of the tailings storage facility at the Mount Polley mine. In addition, the panel may make recommendations to government on actions that could be taken to ensure that a similar failure does not occur at other mine sites in B.C.

The panel is authorized, as part of its investigation and report, to comment on what actions could have been taken to prevent this failure and to identify practices or successes in other jurisdictions that could be considered for implementation in B.C.

### Scope of Review

In its report, it is expected the panel will:

- identify any mechanism(s) of failure of the tailings storage facility;
- 2. identify any technical, management, or other practices that may have enabled or contributed to the mechanism(s) of failure. This may include an independent review of the design, construction, operation, maintenance, surveillance and regulation of the facility;
- identify any changes that could be considered to reduce the potential for future such

#### occurrences.

In conducting its investigation and in order to prepare its report into the cause of the failure of the tailings storage facility at the Mount Polley mine, the Panel may, at its discretion, and as it deems necessary, examine some or all of the following in respect of the Mount Polley mine in B.C.:

- geotechnical designs of the dams and structures associated with the TSF, including both intact and breached embankments, and including both the original design and all lifts of the embankment structure:
- the adequacy of geotechnical investigations completed throughout design and operation of the facility:
- interpretation of results of geotechnical investigations and associated laboratory testing;
- patterns, trends, and relationships in instrumentation behaviour;
- interpretation of instrumentation and performance data in relation to dam behaviour;
- whether or not dam instrumentation and monitoring was consistent with standards of practice;
- appropriateness of methods and input parameters for geotechnical analyses;
- materials, methods, procedures, and quality assurance/quality control practices for dam construction and modification, and a determination with respect to whether or not construction was completed in general conformance with the design;
- water balance and water quality as they relate to the TSF breach;
- operational procedures and planning for tailings deposition and water management;
- inspection and surveillance procedures and implementation;
- the engineer of record's field reviews to ensure that construction was in conformance with design;
- regulatory oversight by the Ministry of Energy and Mines and the Ministry of Environment; and
- other matters the Panel deems appropriate to be examined.

### Panel Members

The panel members are:

- Norbert Morgenstern
- · Steven G. Vick
- Dirk Van Zyl

The panel will be chaired by Norbert Morgenstern.

A liaison will be appointed in consultation with the Williams Lake Indian Band and the Soda Creek Indian Band.

Secretariat to the Panel

Administrative, technical and procedural support required by the Panel shall be provided by a secretariat.

Kevin Richter will manage the secretariat in support and under the direction of the Panel.

Information to be provided to the Panel

The Panel will be supplied with all available information necessary for achieving its purpose and performing its functions.

### Timeline

The Panel will submit a final report to the Minister of Energy and Mines and the Williams Lake Indian Band and the Soda Creek Indian Band on or before January 31, 2015.

#### Limitations

The panel shall perform its duties without expressing any conclusions or recommendations regarding the potential civil or criminal liability of any person or organization. The panel shall further ensure that the conduct of the inquiry does not in any way impede or conflict with any other ongoing investigation or proceeding related to these matters. Specifically, the Panel's review will not in any way impede investigations conducted by mines inspectors, Conservation Officers or other regulatory agencies and any related proceedings.

## Independent Engineering Investigation and Inquiry Panel Members Biographies:

The panel members have been appointed by government with the support of the Soda Creek and Williams Lake Indian Bands.

The Association of Professional Engineers and Geoscientists of British Columbia (APEGBC), and the Institute of Mining Engineering at the University of British Columbia also provided input on the panel members.

The panel members are experienced geotechnical experts with expertise in tailings management facilities. They are:

### Norbert (Nordie) Morgenstern

Norbert Morgenstern is a well-recognized leader in the field of geotechnical engineering and has extensive experience in dam engineering (having worked on over 140 dam projects worldwide). Nordie is recognized as a distinguished university professor (Emeritus) of civil engineering at the University of Alberta where he previously held the role of chair of the department of civil and environmental engineering. He has released over 330 publications in the field of engineering. He is heavily involved in the engineering community having held the role of Member, Chair, Vice President, or President on an extensive list of technical committees worldwide, and has received a plethora of honours and awards throughout his career.

### Dirk van Zyl

Dirk J. A. Van Zyl has more than 30 years' experience in research, teaching, and consulting in tailings and mined earth structures. During that period, he was a faculty member for 13 years at four universities in the U.S.A. and Canada. For the last ten years, much of his attention has been focused on mining and sustainable development. Dirk has been involved internationally in many mining projects which covered the whole mining life cycle, from exploration to closure and post-closure, in a large range of climactic and geographic environments. His present research is in the area of the contributions that mining makes to sustainable development, as well as the application of life cycle assessment to mined earth structures.

#### Steven G. Vick

A leader in the field of dam engineering, Steve Vick is a geotechnical engineer and internationally recognized review consultant who has worked with various engineering firms, project proponents and governments. In addition to extensive experience working on projects located in B.C., Vick has wide-ranging experience in both technical review and forensic investigations, including chairing the investigation of the Omai tailings dam failure for the government of Guyana and participating in the investigation of the New Orleans levee failures that occurred during Hurricane Katrina. Vick has written two books, including Planning, Design, and Analysis of Tailings Dams, which is the only text of its kind that has remained in print for over 30 years and is familiar to most experts in the field. Vick has released numerous other publications related to dam safety and various aspects of risk analyses throughout his career and also speaks on the subject frequently—his most recent keynote lecture was entitled "The Consequences of Tailings Dam Failure". He holds undergraduate and graduate degrees from MIT.

### Media Contact:

Sandra Steilo Media Relations Ministry of Energy and Mines 250 952-0617

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August 10, 2014

File: Order 107461

Mount Polley Mining Corporation Suite 200 – 580 Hornby St Vancouver BC V6C 3B6

To Whom It May Concern:

RE: Pollution Abatement Order 107461

Thank you for submitting your action plan, as required by Section 6, and for submitting a list of qualified professionals, as required by Section 2 of Order 107461, to the Ministry of Environment by August 6, 2014.

Upon reviewing the action plan, I am generally satisfied with the plan provided, however, to fully satisfy Section 6 of the Order, I request that Mount Polley Mining Corporation:

- i. Provide in writing to the Ministry of Environment more detail on how to recover mine affected material and sediment:
  - a. while diverting water from Polley Lake (e.g. log booms and silt screens), and
  - b. once safe access to Hazeltine Creek is possible;
- ii. Provide in writing to the Ministry of Environment more detail on how to mitigate residual risk to the environment from mine-affected material;
- iii. Provide, in addition to the daily calls, a written report by 4pm on Friday each week to the Ministry of Environment that includes a high level summary of:
  - a. monitoring that occurred during the week and what is planned for the upcoming week, including where sampling is occurring and what is being sampled for;
  - b. any modifications to the sampling/monitoring program;
  - c. any gaps identified in the monitoring program and next actions;
  - d. visual observations from each day during sampling (e.g. impacts); and
  - e. a list of all the sampling sites with a map that is updated as it changes and provided as soon as possible;
- iv. Additionally, it is expected that the detailed comprehensive Environmental Impact Assessment required under Section 7 of the Order will address and consider the following:
  - a. Water quality should be analysed for all parameters that may be impacted due to the tailings release and subsequent environmental effects (e.g. debris introduction into lakes);

..2

File: 107461 Page 2 of 2

- b. Sediment analysis should focus on fine sediment, less than 63 micron (see Baseline Guidance Document referenced below);
- Water sampling in Quesnel River downstream should be determined based on sample results upstream (if levels exceed guidelines, downstream sites need to be sampled);
- d. Sediment toxicity sampling in Hazeltine Creel up and downstream should be conducted whenever something changes in the sediment, e.g. when new tailings or sediments are moved into the area.

Please be advised that field and lab methods should follow the Water and Air Baseline Monitoring Guidance for Mine Proponents and Operators (<a href="http://www.env.gov.bc.ca/epd/industrial/mining/pdf/water\_air\_baseline\_monitoring.pdf">http://www.env.gov.bc.ca/epd/industrial/mining/pdf/water\_air\_baseline\_monitoring.pdf</a>) and the BC Field Sampling Manual (<a href="http://www.env.gov.bc.ca/wsd/data">http://www.env.gov.bc.ca/wsd/data</a> searches/field sampling manual/field man 03.html).

Section 2 of the Order is satisfied.

Sincerely,

Cassandra Caunce

For Director, Environmental Management Act

cc: Al Hoffman, Chief Inspector, Ministry of Energy and Mines Dale Reimer, Mine Manager Colleen Hughes, Environmental Coordinator



Date: August 5, 2014 File: 107461

MOUNT POLLEY MINING CORPORATION SUITE 200 580 HORNBY ST VANCOUVER, BC V6C 3B6

## POLLUTION ABATEMENT ORDER

I have reasonable grounds to believe that pollution is being caused by the discharge of mine tailings from the tailings storage facility at the Mount Polley Mine site into the environment. The discharge is occurring from a property located approximately 5 kilometers southeast of Likely, BC and is legally described as Mineral Claim CB-20, Cariboo Mining Division, Cariboo Land District, owned and/or operated by MOUNT POLLEY MINING CORPORATION.

It has been reported to the Ministry of Environment that on Monday, August 4, 2014 mine tailings escaped an impoundment facility via a dam breach on the above-mentioned property. Further investigation has revealed that a significant volume of materials have left the property and impacted Polley Lake, Hazeltine Creek and Quesnel Lake.

Pursuant to Section 83 of the *Environmental Management Act* [SBC 2003] Chapter 53, MOUNT POLLEY MINING CORPORATION is hereby ordered to comply with the following requirements:

- Immediately take action, under the direction of a suitably qualified professional, to abate the discharge of mine-affected materials and sediments from the impoundment facility, and specifically into Polley Lake, Hazeltine Creek and Quesnel Lake. A written summary of actions taken must be submitted to the Director on August 13, 2014
- 2. Immediately retain a suitably qualified professional to initiate a preliminary Environmental Impact Assessment (EIA) and provide the name of the qualified professional to the Director for approval by August 6, 2014.
- 3. Retain a suitably qualified professional to initiate a comprehensive Environmental Impact Assessment (EIA) and provide the name of the qualified professional to the Director for approval by August 13, 2014.

- 4. Upon completion of the preliminary EIA, immediately implement clean up activities, mitigation measures and management actions as required by the EIA.
- 5. Upon completion of the comprehensive EIA, immediately implement clean up activities, mitigation measures, site restoration and management actions as required by the comprehensive EIA.
- 6. Based on the preliminary EIA, develop and submit to the Director by August 6, 2014 for approval, an Action Plan detailing measures relative to the preliminary EIA to be taken to:
  - a. Characterize the materials that were released into the receiving environment (including their expected behaviour in the receiving environment, settling rates, etc.);
  - b. Recover or otherwise manage mine-affected materials and sediments currently in the receiving environment;
  - c. Mitigate residual risks to the environment;
  - d. Assess and monitor the impacts and risks posed by the mine-affected materials and sediments currently in the receiving environment, as well as from the recovery and management efforts themselves; and
  - e. Report on the implementation of Action Plan measures on a weekly basis to regulatory agencies and stakeholders.
- 7. Based on the comprehensive EIA, develop and submit to the Director by August 15, 2014 for approval, an Action Plan detailing measures relative to the comprehensive EIA to be taken to:
  - a. Fully characterize the materials that were released into the receiving environment (including their expected behaviour in the receiving environment, settling rates, etc.);
  - b. Fully recover or otherwise manage mine-affected materials and sediments currently in the receiving environment;
  - c. Define Site mitigation and/or mitigate residual risks to the environment;
  - d. Assess and monitor the impacts and risks posed by the mine-affected materials and sediments currently in the receiving environment, as well as from the recovery and management efforts themselves; and
  - e. Report on the implementation of Action Plan measures on a weekly basis to regulatory agencies and stakeholders

- 8. Prepare and submit a formal written update by September 15, 2014. The update report is to include at a minimum:
  - a. A list of all other qualified professionals who contributed to the report, and a summary of their qualifications;
  - b. A summary of the preliminary EIA and results;
  - c. A summary of the comprehensive EIA and results;
  - e. A description of clean up activities, mitigation measures, site restoration and management actions that were implemented as a result of the preliminary and comprehensive EIA;
  - f. Recommendations for additional mitigation and restoration measures, if appropriate; and
  - g. A proposed ongoing monitoring program.

Failure to comply with the requirements of this order is a contravention of the *Environmental Management Act* and may result in legal action. I direct your attention to Section 120(10) of the *Environmental Management Act*, which reads:

"(10) A person who contravenes an order...that is given, made or imposed under this Act by a ...director...commits an offence and is liable on conviction to a fine not exceeding \$300 000 or imprisonment for not more than 6 months, or both."

Failure to comply with the requirements of this order may also result in an administrative penalty under the Administrative Penalties Regulation (Environmental Management Act) (B.C. Reg 133/2014) (Regulation). I direct your attention to Section 12(4) of the Regulation, which reads:

"(4) A person who fails to comply with an order under the [Environmental Management] Act is liable to an administrative penalty not exceeding \$40,000."

This order does not authorize entry upon, crossing over, or use for any purpose of private or crown lands or works, unless and except as authorized by the owner of such lands or works. The responsibility for obtaining such authority rests with you. It is also your responsibility to ensure that all activities are carried out with due regard for the rights of third parties, and comply with other applicable legislation that may be in force, such as municipal bylaws relating to the discharge of waste to municipal storm or sanitary sewers.

This decision may be appealed to the Environmental Appeal Board in accordance with Part 8 of the *Environmental Management Act*. An appeal must be delivered within 30 days from the date notice is given. For further information, please contact the Environmental Appeal Board at (250) 387-3464.

Date: August 5, 2014

If you have any questions, please call the undersigned or Jack Green at (250) 398-4544.

Yours truly,

**Hubert Bunce** 

for Director, Environmental Management Act

Vancouver Island Region

· 16-75-

cc: Environment Canada

Al Hoffman, Chief Inspector, Ministry of Energy and Mines

Dale Reimer, Mine Manager

Colleen Hughes, Environmental Coordinator

From:

Weir, David J FLNR:EX

Sent:

Monday, September 8, 2014 1:07 PM

To:

McCarthy, Christine A MNGD:EX

Subject:

Mt Polley

Hello Christine, 1 apologize for incorrectly sending you e-mails on Mt Polley. Please delete all of them as they were sent to you in error.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David J.Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From:

Hill, Douglas J FLNR:EX

Sent:

Monday, September 8, 2014 12:05 PM

To:

Weir, David J FLNR:EX

Cc:

Fenwick, Leigh-Ann FLNR:EX

Subject:

embedded debris

Dave, please keep Leigh-Ann in the loop on behalf of EP as she is leading their project.

dih

From: Weir, David J FLNR:EX

Sent: Monday, September 8, 2014 11:51 AM

To: XT:Carpenter, Penny FLNR:IN

Cc: McCarthy, Christine A MNGD:EX; Hill, Douglas J FLNR:EX

Subject: RE: confirmations

The embedded debris is the stuff deeply buried. For the rest just have an SOP from your biologist the same as with the other areas. Everything can be shared with EP and their concerns listened too but for the buried debris I want you to get their approval due to the risk of re animating tailing materials.

I have sent you another note on this.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake . BC David.J.Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From: Penny Carpenter s.22

Sent: Tuesday, September 2, 2014 5:18 PM

To: Weir, David J FLNR:EX Subject: confirmations

### Hi David

I tried to contact you several times today for clarification on cleaning the mouth of Hazeltine. Your order said "I remind you that embedded debris removal from Polley Lake, Hazeltine Creek and at the mouth of Hazeltine Creek where it enters Quesnel Lake must be approved by the Environmental Protection Division of the Ministry of Environment prior to being complete"

I am looking for clarification of embedded. I want to take a boom boat into Hazeltine along with a smaller boat and the tug tostart the removal of the logs and debris in the mouth of Hazeltine as soon as possible. I need to know if I need to contact EP prior to removing any of the logs and debris at the mouth of the creek .I do not plan to dig through the mud to get embedded logs but I would like to be able to remove the ones that have become beached due to high water.

What are your thoughts and requirements for this part of the removal. I hope to start this on Friday.

I also wanted to know if we were allowed to have the excavator there on the beach doing the same work it has been doing along the shores of the Mitchel Bay.

What are your thoughts and requirements for this part of the removal. I hope to start this on Friday.

I know that I require a first nations monitor and I have spoken with the WLIB to supply one for me. Adam was going to do it but apparently he is now working on the stream with SNC. He has informed me he will be sending a replacement to monitor our work at Hazeltine.

Do I need to contact EP and if so who do I contact?

Thanks Penny

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Weir, David J FLNR:EX

Sent:

Monday, September 8, 2014 11:51 AM

To:

XT:Carpenter, Penny FLNR:IN

Cc:

McCarthy, Christine A MNGD:EX; Hill, Douglas J FLNR:EX

Subject:

RE: confirmations

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Do I need to contact EP and if so who do I contact?

Thanks Penny

From:

Weir, David J FLNR:EX

Sent:

Monday, September 8, 2014 11:36 AM

To:

MacDougall, Gerry L FLNR:EX

Cc:

Vanderburgh, Ken FLNR:EX

Subject:

RE: Hazeltine freshet prep

We have been provided with a document concerning the control of sediment on Hazeltine creek but I have not been able to review it yet. I think they are looking at three ponds but things may have changed. It is possible they may have to look at a control structure on Policy lake if the pumping is not successful but have only heard rumours on this.

David Weir Water Section Head,
Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC <u>David.J.Weir@gov.bc.ca</u> (250) 398 4924
Cell 250 267-5925

----Original Message-----

From: MacDougall, Gerry L FLNR:EX

Sent: Thursday, September 4, 2014 6:46 AM

To: Weir, David J FLNR:EX Cc: Vanderburgh, Ken FLNR:EX Subject: Hazeltine freshet prep

### Hi David.

At some point the risk of working near Hazeltine will be abated. For that moment (hopefully) when it is, are there any signals from Imperial or MEM that they'll have a design figured out for an impoundment structure at the bottom of Hazeltine to capture/mitigate freshet runoff? Granted, it may be difficult to design without ground access at this time, but there should be enough geomatics to figure out if it is even doable.

gerry

Sent from my iPad

From:

McCarthy, Christine A MNGD:EX

Sent:

Monday, September 8, 2014 8:10 AM

To:

Weir, David J FLNR:EX

Subject:

Out of Office: Embedded debris removal?

I am out of the office until Monday September 15th and will not be monitoring my emails. I will respond once I return.

For Petroleum Titles Online BCeID activation for Posting Land, please contact Elle Bardol at Elle.Bardol@gov.bc.ca or Mel Henze at Mel.Henze@gov.bc.ca

For immediate assistance with Tenure Management items please call Cindy Kocol at 250-952-0342 or Terry Branscombe at 250-952-0340 (terrence.branscombe@gov.bc.ca).

From:

Weir, David J FLNR:EX

Sent:

Monday, September 8, 2014 8:10 AM

To:

Stolar, Harold B FLNR:EX

Cc:

XT:Carpenter, Penny FLNR:IN; McCarthy, Christine A MNGD:EX

Subject:

RE: Embedded debris removal?

The order only restricts removal of imbedded debris at Hazeltine creek. Operational issues such as skidding logs would be addressed by SOP's from their professional biologist.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David J Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From: Stolar, Harold B FLNR:EX

Sent: Tuesday, September 2, 2014 8:59 AM

To: Weir, David J FLNR:EX

Subject: Embedded debris removal?

Penny Carpenter call and she was wondering about your order that no embedded material is to be removed, however she was wondering about skidding or dragging logs across shore into the water. Logs are on shoreline now that water has receded. She asked who from EP could come and see what they are planning?

Penny's number is 250 296-0111.

Inspiring Stewardship through Respectful Conversation

Harold B. Stolar Resource Manager Cariboo-Chilcotin District 250 398-4372 cell 250 305-9344

From:

Beadman, Krista FLNR:EX

Sent:

Thursday, September 4, 2014 4:41 PM

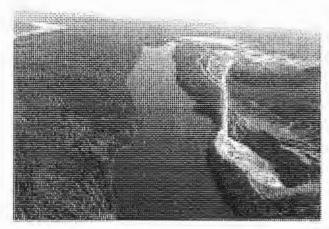
To: Subject: FLNR Cariboo Region All Staff Key Messages August 2014

RMT Key Messages August 2014

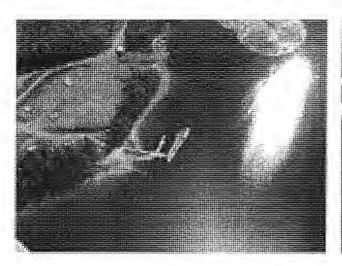
The August face to face RMT meeting took place on Thursday, August 7.

Some key items from the meeting:

Mt. Polley Mine – David Weir provided updates and answered questions regarding the Mt. Polley Mine tailings pond breach that took place on August 4. FLNR staff are continuing to support and provide expertise to the Ministry of Environment and Ministry of Energy and Mines.
Harold Stolar and David Weir flew over Mt. Polley and the surrounding area in the days following the breach. Below are pictures taken during their flight:









Jennifer McGuire (Ministry of Environment) conducted a Live Meeting regarding the Mt. Polley tailings pond breach on August 27.

The Ministry of Environment has been providing updates if you would like more information: http://www.env.gov.bc.ca/eemp/incidents/2014/mount-polley.htm

NR

**September RMT** – The September 10 & 11 RMT Face to Face meeting will be on the road to Quesnel! Day 1 will be the meeting portion and Day 2 will be the field day.

If you have a story you would like to share, please email me your idea. Stay tuned for the next edition of Key Messages in September!

Krista Beadman
Regional Administrative Assistant
Cariboo Region
Ministry of Forests, Lands & Natural Resource Operations

From:

MacDougall, Gerry L FLNR:EX

Sent:

Thursday, September 4, 2014 6:46 AM

To:

Weir, David J FLNR:EX

Cc:

Vanderburgh, Ken FLNR:EX

Subject:

Hazeltine freshet prep

## Hi David,

At some point the risk of working near Hazeltine will be abated. For that moment (hopefully) when it is, are there any signals from Imperial or MEM that they'll have a design figured out for an impoundment structure at the bottom of Hazeltine to capture/mitigate freshet runoff? Granted, it may be difficult to design without ground access at this time, but there should be enough geomatics to figure out if it is even doable.

gerry

Sent from my iPad

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Sent:

Tuesday, September 2, 2014 8:59 AM

To:

Weir, David J FLNR:EX

Subject:

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Penny Carpenter call and she was wondering about your order that no embedded material is to be removed, however she was wondering about skidding or dragging logs across shore into the water. Logs are on shoreline now that water has receded. She asked who from EP could come and see what they are planning?

Penny's number is 250 296-0111.

Inspiring Stewardship through Respectful Conversation

Harold B. Stolar Resource Manager Cariboo-Chilcotin District 250 398-4372 cell 250 305-9344

From:

Colleen Hughes <chughes@mountpolley.com>

Sent:

Thursday, August 28, 2014 8:18 AM

To:

Bunce, Hubert ENV:EX; Howe, Diane J MEM:EX; Demchuk, Tania MEM:EX; Hilf, Douglas J

FLNR:EX; Swan, Chris L ENV:EX; Metcalfe, Shelley ENV:EX; Epps, Deb ENV:EX; Weir, David

J FLNR:EX

Cc:

Jack Love; Luke Moger; Katie McMahen; Greg Wenger

Subject:

Follow up from Augsut 27 3pm call

### Good Morning All

There were three items requiring follow up from yesterday's call.

- 1. Regarding the second pipeline from Polley Lake, how will we be bringing the new pumps online? The pumps will be turned on one at latime. We will follow Katie's monitoring plan (sent yesterday) as each pump comes on.
- 2. What is our plan for monitoring at the mouth of Hazeltine Creek once the second pipeline is functioning? We are currently in the process of assessing the options for monitoring and sediment control. A crew from SNC Lavalin are walking he creek today assessing the tailings deposits and will make recommendations for moving forward with pumping.
- 3. A request was made for information regarding the hazard mitigation plan for the Polley Lake Plug. Please see memo from Greg Wenger below.

Regards,

Colleen Hughes, EP
Environmental Coordinator
Mount Polley Mining Corporation
PO Box 12
Likely, BC VOL 1NO
250-790-2617
chughes@mountpolley.com

A Please consider the environment before printing this e-mail

From: Greg Wenger [mailto:GWenger@bgcengineering.ca]

Sent: Wednesday, August 27, 2014 6:00 PM

**To:** Colleen Hughes **Cc:** Luke Moger

Subject: Polley Lake Sediment Plug Hazard Mitigation Plan Summary

Colleen,

Below is a quick summary of the Polley lake sediment plug hazard mitigation plan as discussed on the conference call with the ministry representatives today:

The project requires personnel to access the Hazeltine Creek channel downstream of the sediment plug that is restricting outflow from Polley Lake. The potential for a sudden release of water and/or sediment exists and poses a

hazard for personnel working in the creek channel downstream of the sediment plug. Works undertaken to date to reduce the potential of a sudden release of water and/or sediment include:

- Reducing the water level in Polley lake via pumping through a diversion pipe
- Control of water dam breach and Long ditch flows onto the sediment plug via sumps and pumping

As part of a hazard mitigation plan, BGC is preparing a sediment plug monitoring plan for MPMC, which will include periodic:

- Visual inspections of the extent of moist and wet soil zones in the plug.
- Monitoring for seepage at the downstream limits of the sediment plug.
- Monitoring of Polley Lake water levels
- Visual inspections for potential erosion of plug materials from rainfall runoff.
- Monitoring of continued control of the dam breach and Long ditch inflows onto the sediment plug.

Other aspects of the hazard mitigation plan being coordinated by MPMC will include:

- Full time monitoring of the plug outlet by a spotter when personnel are in the downstream creek channel.
- A radio alert system
- Radio check-in and check-out procedures
- Job Safety Assessments (JSA) by each person/group entering the downstream creek bed to determine entry and exit points and evacuation limits.
- A no-entry zone where Hazeltine Creek is deeply incised and exit times cannot be completed in a timely manner.

thope this summary meets your needs while the safe work plan is being finalized.

# BGC ENGINEERING INC.

per:

**Greg Wenger**, M.Eng. Geotechnical Engineer

www.bacengineering.ca

### **BGC ENGINEERING INC.**

Suite 800 - 1045 Howe Street Vancouver, BC, CAN, V6Z 2A9 Telephone: (604) 684-5900 ext. 41140 Facsimile: (604) 684-5909

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From:

Hill, Douglas J FLNR:EX

Sent:

Wednesday, August 27, 2014 6:46 PM

To:

Weir, David J FLNR:EX; Fenwick, Leigh-Ann FLNR:EX

Subject:

FW: Critical Tasks and Initial Schedule Mnt Polley Tailings Breach EIA

Attachments:

Critical Task Workflow\_Schedule\_Draft\_August 26 2014.pdf; Mt Polley Project

Schedule\_Draft(as of 140826).pdf

From: Jack Love [mailto:JLove@imperialmetals.com]

Sent: Tuesday, August 26, 2014 9:29 PM

To: Caunce, Cassandra ENV:EX; Bunce, Hubert ENV:EX

Cc: Zacharias-Homer, Christa ENV:EX; Hoffman, Al MEM:EX; 'chughes@mountpolley.com'; 'dreimer@mountpolley.com'; Metcalfe, Shelley ENV:EX; McGuire, Jennifer ENV:EX; Bev Sellars (b.sellars@xatsull.com); Ann Louie (ann.louie@williamslakeband.ca); Aaron Higginbottom (Aaron.Higginbottom@williamslakeband.ca); Julia Banks (nrcoordinator@xatsull.com); Steve Robertson; Demchuk, Tania MEM:EX; Pierre Stecko; Green, Jack E ENV:EX; Brian Kynoch; dreimer@mountpolley.com; RC Cory Koenig; Don Parsons; Luke Moger (Imoger@mountpolley.com); Art Frye (afrye@mountpolley.com); Johnson, Gordon; Bellefontaine, Kim MEM:EX; Howe, Diane J MEM:EX; McConkey, Trevor; Jancicka, Erik; Hill, Douglas J FLNR:EX; Vanderburgh, Ken FLNR:EX; Luke Moger (Imoger@mountpolley.com); Paslawski, Janice: Katie McMahen

Subject: Critical Tasks and Initial Schedule Mnt Polley Tailings Breach EIA

Hi Hubert and Cassandra.

Attached are two additional documents outlining the schedules and tasks for review and discussion. Hook forward to further discussions and collaboration as we work through the various assessments and activities.

Regards,

Jack

Jack Love, RPBio., Environmental Manager Mt Polley Tailings Breach

jlove@imperialmetals.com

mobile 604.358.2699 | 604.800.9200 ext 329 Red Chris | 250.790.2215 ext 2560 Mt. Polley

Red Chris Development Company Ltd.

Hwy 37 Power Corp.

Mount Polley Mining Corp.

Imperial Metals Corporation

200-580 Hornby Street, Vancouver, BC V6C3B6

604.669.8959 | www.imperialmetals.com





SNC-Lavalin Inc., Environment & Water

203 – 1300 1<sup>st</sup> Avenue Prince George, British Columbia Canada V2L 2Y3 Telephone: 250-562-5172 Fax: 250-562-5128

**MEMORANDUM** 

TO:

Mr. Jack Love

Date:

August 26, 2014

C.C.:

Gordon Johnson

FROM:

David Tarnocai/Janice Paslawski

Ref.:

621717

Subject:

Mount Polley Comprehensive Environmental Impact Critical Tasks

The Comprehensive Environmental Impact Assessment (CEIA) workplan is structured to consist of three parallel components in order to mitigate the mine tailings breech: Environmental Impact Assessment; Environmental Effects Monitoring and Mitigation/Rehabilitation of the impacted area. To facilitate these components eight (8) concurrently conducted tasks are undertaken to link the data collection of the region in order to best mitigate the impact and restore the area to pre-impact conditions. Each of the components incorporates the data at different times and forms with the use of an overall Risk Assessment approach throughout the process to inform the critical path.

Tasks and subtasks referred to in this memo are identified according to the Task numbering in the accompanying GANTT chart. The concurrent tasks consist of:

- 3.1 Hydrology Impact Assessment;
- 3.2 Water Quality Impact Assessment;
- 3.3 Soil Quality Impact Assessment;
- 3.4 Sediment Impact Assessment;
- 3.5 Terrestrial Impact Assessment;
- 3.6 Fish and Aquatic Habitat Impact Assessment;
- 3.7 Archeological Impact Assessment; and,
- 3.8 Environmental Risk Assessment.

The Water Quality Impact Assessment (Task 3.2) to Fish and Aquatic Habitat Impact Assessment (Task 3.6) Tasks produce information that informs the quantitative Environmental Risk Assessment Task, with the early project phase subtasks of Task 3.6 being used to identify data gaps, focus on critical uncertainties and also guide/refine the monitoring program and Tasks 3.2 through 3.6 work programs

### MEMORANDUM



August 26, 2014 621717

where necessary to ensure impacts are identified in the critical stages. The results of Tasks 3.2 through 3.6 ultimately are used in whole or in part in the Detailed Quantitative risk assessment subtask of Task 3.8 in order to identify areas of the site requiring management and site management options.

There are multiple critical paths within the CEIA. These critical paths are identified below:

### TASK 3.1 HYDROLOGY IMPACT ASSESSMENT

The overall Task 3.1 objective is channel design and construction to rehabilitate Hazeltine Creek if determined to be the most environmentally heneficial to the ecology and aquatic wellbeing. To meet this objective, a number of concurrent Task 1 subtasks need to be completed. The critical subtasks, in order of timing are:

- 3.1.1 Data review and gap analysis,
- 3.1.6 Hydrometric gauging and sediment discharge assessment
- 3.1.9 Channel design and construction

#### TASK 3.2 - WATER QUALITY IMPACT ASSESSMENT

Task 3.2 results provide information on sediment plume dispersion and delineation and provide water quality information that is utilized in Task 3.8. There are two critical paths in Task 3.2. The Task 3.2 critical path that link to Task 3.8 consists of the following subtasks, in order of timing:

- 3.2.1 Data review and gap analysis; and,
- 3.2.2 and 3.2.3 Water quality sampling.

The second Task 3.2 critical path which identifies sediment plume extent consists of the following subtasks, in order of timing:

- 3.2.4 Plume delineation field program;
- · 3.2.5 Plume Model development; and,
- 3.2.6.3 Detailed report related to plume delineation.

### MEMORANDUM



August 26, 2014 621717

## TASK 3.3 - SOIL QUALITY IMPACT ASSESSMENT

The output of Task 3.3 will be utilized in Task 3.8. The critical path for Task 3.3 subtasks, in order of timing is as follows:

- 3.3.1 to 3.3.3 Data gap and sampling programs; and,
- 3.3.4 Reporting related to outcome of the soil impact assessment.

#### TASK 3.4 SEDIMENT IMPACT ASSESSMENT

Task 3.4 results provide sediment characterization information which will be incorporated into Task 3.2 to provide additional data on sediment plume extents and in Task 3.8. The Task 3.4 critical path that links to Task 3.4 and Task 3.8 consists of the following subtasks, in order of timing:

- 3.4.1 Data review and gap analysis;
- · 3.4.2 Tier 1 and Tier 2 sediment sampling; and,
- 3.4.3 Reporting related to sediment characterization.

#### TASK 3.5 - TERRESTRIAL IMPACT ASSESSMENT

The output of Task 3.5 will be utilized in Task 3.8. The critical path for Task 3.5 subtasks, in order of timing is as follows:

- 3.5.1 Data review and gap analysis;
- 3.5.2 to 3.5.4 Field activities:
- 3.5.5 Analysis and Assessment; and
- 3.5.6 Reporting of analysis and assessment results, identified in the schedule for work leading to Task 3.8.

#### Note:

Some tasks may require work to discontinue at the point the data is collected before continuing. Some tasks will be analyzed during the field programs to determine additional scope.

#### MEMORANDUM



August 26, 2014 621717

#### TASK - 3.6 - FISH AND AQUATIC HABITAT IMPACT ASSESSMENT

The output of Task 3.6 will be utilized in Task 3.8. The critical path for Task 3.6 subtasks, in order of timing is as follows:

- 3.6.1 Data review and gap analysis;
- 3.6.2 to 3.6.4 Fish, community and habitat assessments; and,
- 3.6.6 Reporting related to results of Tasks 3.6.2 to 3.6.4.

#### TASK - 3.7 - ARCHEOLOGICAL IMPACT ASSESSMENT

The objective of Task 3.7 is to identify impacts to archaeological and traditional land use sites caused by the tailings release from the TSF and potential impacts that may occur to these sites as a result of clean-up and reclamation work. The critical path for Task 3.7 subtasks, in order of timing is as follows:

- 3.7.1 and 3.7.2 Data collection and review and preliminary field reconnaissance;
- 3.7.4.3.1 Preliminary assessment reporting
- 3.7.3 Archeological inventory assessment; and,
- 3.7.4.3.2 Archeological inventory assessment reporting.

#### 3.8 - ENVIRONMENTAL RISK ASSESSMENT

There is one critical path for Task 3.8, with information from other tasks as identified above informing the final stage of the risk assessment (Task 3.8.4). The critical path for Task 3.8, in order of timing is as follows:

- 3.8.1 and 3.8.2 data review, gap analysis and problem formulation;
- 3.8.3 Preliminary risk assessment in addition to Task 3.2 to 3.6 results; and,
- 3.8.4 Detailed quantitative risk assessment.

Work conducted in later stages of the CEIA may be subject to change based on the outcome of preceding stages of work. The critical path for the CEIA will include detailed reporting for soil, sediment and surface water in February-March of 2015.

sk Nama	Duration	Start	Finish	14 Aug 03 S M T W T F S	14 Aug 10 S M T W T F S	'14 Aug 17	14 Aug 24
Frosion and Sadiment Mitigation	52 days?	Mon 14/98/25	Frl 14/10/31	y Sa tall ata pada his majaran pada Pa	In Tracket Stelland rate 2 to 2 along the standing	pullinger i til i de pil and i fril elember funt i i fartlir	hante da de hada altrava da Garte altravia
1.1 Hazeltina Creek Water Management (options under consideration)	52 days?	Mon 14/08/25	Fri 14/10/31				rejem is a principal and the second restrictions
1.2 Spawning Salmon Accommodation (options under consideration)	52 days?	Mon 14/08/25	Fri 14/10/31				
HazeRina Creek Rehabilitation Program	215 days?	Mon 14/11/03	Fri 16/08/28				
2.1 Creek Rehabilitation - Timing Option 1		Mon 14/11/03					
2.2 Creek Rehabilitation - Timing Option 2		Mon 15/86/01	Fri 15/05/28				Î
and the state of t		Tue 14/08/05	A TOTAL OF THE PARTY OF THE PAR	200			
CE(A and Menitoring		Tue 14/09/02		-			
3.1 Hydrology Impact Assessment							
3,1,1 Date Review and Gap Analysis		Tue 14/09/02					
3.1.2 Channel Assessment	to be some it of the order for	Wed 14/09/17	about contract course to an in-				: 1
3.1.3 Time Series / LIDAr		Thu 14/09/04					: 1
3.1.4 RTK GPS Survey		Mon 14/09/15					3
3.1.5 Regional Hydrological Analysis		Thu 14/09/04					- 1
3.1.8 Hydrometric Gauges and Sediment Discharge	274 days	Wed 14/09/17	Thu 15/10/01				1
3.1.7 Assessment of Tailings - Channel & Floodplain	34 days	Mon 14/09/15	Tue 14/10/28				1
3.1.8 Hydraulic Analysis	142 days	Wed 14/09/17	Tue 15/03/31				
3.1.9 Channel Desirg and Construction		Mon 15/02/16					3 1
3.1.10 Reporting	608 days						
3.1.10.1 Reporting - Weekly		Fri 14/09/05					= 1
3.1.10.2 Reporting - Monthly		Tue 14/09/30			,		
3.1,10.3 Reporting - Monthly 3.1,10.3 Reporting (Octailed)		Mon 14/09/15					
		Tue 14/08/05			100 J 100 100 100 100 100 100 100 100 10	and a supplication of the property of the property of the property of the property of the property of the second of the property of the second of the property of the second of the property of the second of the property of the second of the property of the second of th	A
3.2 Water Quality Impact Assessment		Mon 14/09/01		•	1		
3.2.1 Data Review and Gap Analysis	and the second second second second		Track Control of the Control of				1
3.2.1.1 Historical WQ data - Polley L, Hazeltine Cr, Quesnel L & R		Mon 14/09/01					
3.2.1.1.1 Assembly & synthesis of historical data into data riignit system		Mon 14/09/01					
3.2.1.1.2 Data and Gap enalysis		man a constant			•		
3,2,1,1,3 Historical data reporting	A 100000 A 100 A 100 A 100 A	Mon 14/09/01					
3.2.1.2 Physical & bathymetric data for plume model development	22 days	Tue 14/09/02	Tue 14/09/30		1		1
3.2.1.2.1 Assembly & synthesis of historical data into data mgml system	22 days	Tue 14/09/02	Tue 14/09/30				
3.2.1.2.2 Physical data reporting	7 days	Mon 14/09/22	Tue 14/09/30		2		
3.2.1.3 Geochemical Investigation data sets	217 days	Mon 14/09/15	Fri 15/07/10				f
3.2.1.3.1 Review pre-existing geochem data sets to inform sampling program	21 days	Mon 14/09/15	Fri 14/10/10				
3.2.1.3.2 Review SRK geochem data set (static) to inform soil sampling program	14 days	Tsie 14/11/11	Fri 14/11/28				1
3.2.1.3.3 Review SRK geochem data set (leachate) to inform soil sampling progra	14 days	Tue 15/06/23	Fri 15/07/10				
3.2.2 Water Quality Sampling - Polley L. Quesnel L. lower Hazelline Cr		Tue 14/08/05		4		2 - 1	
3.2.2.1 Quesnot L. Polloy L. Upper Quesnet R WQ sampling plan development		Mon 14/09/01				1	
3.2.2.2 Lower Hazetine Cr WQ sampling plan development		Tue 14/09/30		1		1	1
3.2.2.3 Implementation of WC field sampling plans for Quesnel L, Upper Quesnel R & Pollay L.	the second second second second	Tue 14/08/05					
		Tue 14/08/02					
3.2.2.4 Implementation of WQ field plan for lower Hazzetine Cr		Mon 14/09/15.	,				1 1
3.2.3 Event based water quality sampling							1 1
3.2.3.1 Event based WQ plan development		Mon 14/09/15					1 1
3,2,3,2 Event based WQ plan implementation		Tue 14/09/30					1
3.2.4 Plume Delineation Field Program		Wed 14/08/27					
3.2.5 Groundwater Quality	Control Description	Mon 14/09/15	THE RESERVE TO SHAPE AND ADDRESS.				
3.2.5.1 Installation of up to 5 shallow piezometers immediately down gradient of main tallings volumes		Mon 14/09/15					: 1
3.2.5.2 Event based WQ plan kriplementation		Tue 14/09/30					
3.2.8 Share Model Development	39 days?	Wed 14/10/01					1
3.2.7 Geochemical Modelina	251 days?	Tue 14/08/05	Fri 15/07/31	A to be an excellent and a lease of	1		
3.2.7.1 As needed use of PHREEOC to analyse WQ data set	261 days?	Tue 14/08/05	Fri 15/07/31	NAME OF TAXABLE PARTY.	The second secon		the state of the source of
3.2.8 Reporting	608 days	Fri 14/09/05	Fri 18/12/30		1		15.0
3.2.8.1 Reporting - Weekly	343 days	Fri 14/09/05	Fri 15/12/25	Å.		!	1
3.2.6.2 Reporting - Monthly		Tue 14/09/30		r.	1		. \$
3.2.8.3 Reporting (Detailed)		Mon 14/09/15		2	1	1	
		Fri 15/02/13			è.	4	. 1
3.2.8.4 Reporting (Detailed) (Additional reports TBO)		Mon 14/09/01		The state of the s	•		1 1
3.3 Soil Quality Impact Assessment	19 days		Thu 14/09/25				
3,3.1 Data Review and Gap Analysis	13 0075	100 14/03/02	100 14/08/2:				-
Project Schedule Fi Test Summery	7 -14 rg rs - 1 rs - 2 r	External Tas	iks -	Douding	D		
26 Spill (and an analysis and	Hitothe Company	External Mile	estone O				
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0 0	Task Name	Duration	Start	Finish	14 Aug 03 S M T W T F S	14 Aug 10
51 1	3.3.2 Drilling Program (3-5 days)	14 days	Tue 14/09/02	Fri 14/09/19	9.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	
2 53	3,3,3 Transect Sampling	10 days	Mon 14/09/01	Fri 14/09/12		
3	3.3.4 Reporting	608 days	Fri 14/09/05	Fri 18/12/30		
54 O	3.3.4.1 Reporting - Weekly	343 days	Fri 14/09/05	Fri 15/12/25		
24 0	3.3.4.2 Reporting - Monthly	590 days	Tue 14/09/30	Fri 18/12/30		
53 13	3.3.4.3 Reporting (Detailed)	13 days	Mon 14/09/15	Tue 14/09/30		1
54	3.3.4.4 Reporting (Detailed) (Additional reports TBD)	21 days		Fri 15/03/13		
55	3.4 Sediment Impact Assessment	623 days		Fri 16/12/30		65
56	3.4.1 Data Review and Gap Analysis - Historical sediment quality - Polley L, Hazeltine Cr, Quesnel L, local references		Mon 14/09/01	Fri 14/10/31		
57	3.4.1.1 Review existing source chemistry to identify analytes of potential concern	Charleston and an arrival and a standard	Mon 14/09/01	Tue 14/09/30		
	3.4.1.2 Compile, review and synthesize historical sediment quality data	Company of the court for him	Mon 14/09/01	Fr 14/10/31		
58	The second secon	COLUMN TRANSPORTER SECURITION AND ADDRESS.	Mon 14/09/01	Fri 14/10/31		i i i
59	3.4.1.3 Complete the gap analysis on sediment quality data		Mon 14/09/01	Fri 14/10/31		
90 ma	3.4.1.4 Historical sediment quality data reporting	The second second second second second		California and Alice Street, and		
61	3.4.2 Sediment Quality Sampling - Polley L. Hazelline Cr. Quesnel L. local references	58 days		Fri 14/10/31		
62 1	3.4.2.1 Polley Lake, Hazelline Creek, Quesnei Lake, sediment quality sampling plan development	22 days		Mon 14/09/15		
63		22 days		Mon 14/09/15		Application of the residence of the second o
84 1			Mon 14/09/15	Fri 14/10/31		
85 1			Mon 14/09/15			
86	3.4.3 Sediment Geochemical Characterization - Polley L, Hazeltine Cr, Ques sel L, local references	58 days		Fri 14/10/31		¥
67 🗷 🕏		22 days				mak-dari aut hand the resources a squatte to separate makeur per € a politic est aut hand = ₹ ∫ a par late of an other act
66	3.4.3.2 Implementation in Quesnet Lake	· 22 days		Mon 14/09/15		
69 1	3.4.3.3 Implementation in Policy Lake	37 days	Man 14/09/15	Fri 14/10/31		
70 2	3.4.3.4 Implementation in Hazeltine Creek	24 days	Mon 14/09/15:			
71	3.4.4 Sediment Tox Testing & Benthic Invertebrate Community Char - Polley L, Hazelline Cr, Quesnel L, local references	58 days	Fri 14/08/15:	Fri 14/10/31		
72 1	3.4.4.1 Polley Lake, Hazelline Creek, Quesnel Lake, sediment quality sampling plan development	22 days	Fri 14/06/15	Mon 14/09/15		ANY THE CONTROL OF TH
73 6		22 days	Fri 14/08/15	Mon 14/09/15		which with refer to be a property of the prope
74		37 days	Mon 14/09/15	Fri 14/10/31		
75 1		24 days	Mon 14/09/15	Wed 14/10/15		
76	A SECURIOR CONTRACTOR	608 days	Fri 14/09/05	Fri 18/12/30		
77 3	3.4.5.1 Reporting - Weekly	343 days	Fri 14/09/05	Frl 15/12/25		1
47 0	3.4.5.2 Reporting - Monthly	590 days	Tue 14/09/30	Fri 16/12/30		
76	3.4.5.3 Reporting (Detailed)	13 days	Mon 14/09/15	Tue 14/09/30		
77 144	3.4.5.4 Reporting (Detailed) (Additional reports TBD)		Fri 15/02/13	Fri 15/03/13		
78	3.6 Terrestrial Impact Assessment		Wed 14/09/03	Fri 18/12/30		
79	3,5,1 Data Review and Gap Analysis		Wed 14/09/03	Tue 14/09/30		
180	3,5,2 Floid - Preliminary Assessment and Surveys		Wed 14/09/03			1
81 5	3.5.3 Timed Wildlife Surveys	and the state of t	Mon 14/09/15	- I division a second to self-		
182	3.5.4 Follow-up Field Activities (as required - tentative)	and the second s	Thu 15/01/01:	Mon 15/08/31		•
83	3.5.5 Analysis and Assessment		Mon 14/09/29	Fri 14/10/17		
			Fri 14/09/05	Fri 18/12/30		
184	3.5.6 Reporting			Fri 15/12/25		
185	3.5.6.1 Reporting - Weekly		Fri 14/09/05	200 100 100 100		,
55 0	3.5.6.2 Reporting - Monthly		Tue 14/09/30	Fri 18/12/30		
84	3.5,6.3 Reporting (Detailed) (Additional reports TBD)		Mon 14/09/15	Tue 14/09/30		
85	3.6 Fish and Aquatic Impact Assessment		Tue 14/09/02	Fri 16/12/30		1
86 🖼	3.6.1 Data Review and Gap Analysis	AT APPLICATION OF THE STREET,	Tue 14/09/02	Thu 14/09/25		i i
87	3,6.2 Fish Assessments		Tue 14/09/02	Frl 15/10/30		:
88	3.6.2.1 Fish species determination	194 days	Thu 14/09/04	Fri 15/05/29		
89 🖼	3.6.2.2 Fish spawning surveys	194 days	Tue 14/09/02	Whid 15/05/27		
90	3.6.2,3 Fish growth & performance	304 days	Thu 14/09/04	Fri 15/10/30		
91	3.6.2.4 Fish survival	304 days	Thu 14/09/04	Fri 15/10/30		
92	3.6.2.5 Fish migration confidors	194 days	Tuo 14/09/02	Wed 15/05/27		
93	3.6.3 Community Assessment	304 days	Thu 14/09/04	Fri 15/10/30		
94	3.6.3.1 Benthic Invertebrates		Thu 14/09/04	Fri 15/10/30		
505	3.6.3.2 Phytoplankton, periphyton, macrophyte		Thu 14/09/04	Fri 15/05/28		
96 114	3.6.3.3 Fish community		Thu 14/09/04:	Fri 15/05/29		
90 (UR	3.6.4 Habital Assessments (riparlan, shoreline, benthic)		Thu 14/09/04	Fri 14/10/31		
101		44 3075				
rolect: Mt Pe	olley Project Schedule Fig. Task Project Schedule Fig. Summary	and the second	External Task	S (	Deadline	D.
		THE PERSON NAMED IN COLUMN	External Miles	stone o		
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0	Task Name				Duration	Start	Finish	14 Aug 03	14 Aug 10	'14 Aug 17	"14 Aug	24 T W T
98	3.6.5 Reporting		The state of the s		608 days	Fri 14/09/05	Fri 16/12/30	the state of the s	9 19 110		in the second second	and the second
0 0		porting - Weekly	1145.00	- 14 No.	343 days	Fri 14/09/05	Fri 15/12/25					
Ö		porting - Monthly			590 days		Fri 16/12/30					
		corling (Detailed) (Additional reports TBD)				Mon 14/09/15	Tue 14/09/30			:		
8						Tue 14/09/02	Fri 16/12/30		1	*		
19	3.7 Archaeological									-		
ю		ew and Collection		1-feder - El M ( d)	20 days?		Fri 14/09/26			:		
1 24		y Field Reconnaissance			0 days?	Tue 14/09/02	Fri 14/09/12					
02 2	3.7.3 Archeolog	ical Inventory Assessment			14 days		Fri 14/10/24					
33	3,7,4 Reporting	and the second second section of the second section se	The state of the s		608 days	Fri 14/09/05	Fri 16/12/30					
4 C	3.7.4.1 Rep	porting - Weekly		and the second second	343 days.	Fri 14/00/05	Pri 15/12/25					
74 0	3.7.4.2 Rep	porting - Monthly	E-196-1874-0304 PRES -023 -04-96-75-4484-01 - 4-8-9	1-96-	590 days	Tue 14/00/30	Fr 16/12/30:				1	
03	3.7.4.3 Rec	porting (Detailed) (Additional reports TBD)	S		59 days	Thu 14/09/11	Fri 14/11/28					
04 🗷		3.1 Preliminary Reconnaissance Report			24 days	Thu 14/09/11	Mon 14/10/13.					
05		3.2 AlA Final Report	ter many property and comment to	felent CF Pr P 91	26 days		Fri 14/11/28					
				The second secon		Mon 14/09/01	Fri 16/12/30					
06	3.8 Environmental F		contrast to a second contract of			Mon 14/09/01						
07 Fe		ew and Gap Analysis	and the second s		and at the John or Late to the contract of						10 10	
08 🖼	3.8.2 Problem P		2 217			Wed 14/10/15	Fri 14/10/31					
09 🖼		y Risk Assessment				Mon 14/11/03						
10		Duantilative Risk Assessment			261 days		Fri 18/12/30				1	
11	3.9 Monitoring Prog					Tue 14/08/05	Fri 16/12/25	9	``			
12 1	3.9.1 Program I	n progress - to continue as determined by ass	essment work		282 days?	Tue 14/08/05		descriptions has been placed and residence	والمنافذ والمنافذ والمنافز وال			All productions and the second
13 0	3.9.2 Reporting	- Weakly			343 days	Fri 14/09/05	Fr. 15/12/25					
83	3.10 Project Manag			3-114	627 days	Mon 14/08/11	Fri 18/12/30		T. 1812	de de la como de discone de contracto de		
84		ment of Work Plans			14 days	Mon 14/08/11	Thu 14/08/28		11/5/00 the new Column 2 has	CATEGORY AND AND SHAPE THE PROPERTY OF THE STATE OF THE S	Region (Indiana) and Company of the Company	SELECTORIES (S.) MINIS
85 119	3,10.2 Issuance		M At 8 Anniholands budanested blokd at 9 halder at 9th [1 of 81 ] [10] [1] [1]	1.14.0-14.0-14.0	1 day	Fri 14/08/29	Fri 14/08/29					
86		of Project Schodule				Tue 14/08/26						○ 08/26
HOLD THE	3.10.4 Critical T		60.60			Tue 14/08/26						Ø 08/26
97						The second						
87 E 658 C		ABS, Schedule, Budget Updates	Est Samue successor de la verme de la la la companya de la company	THE STATE OF THE S	613 days	Fd 14/08/29	Fel 16/12/30		- Cuchini	a a taire tin		
87		WBS, Schedule, Budget Updates			613 days	Fri 14/08/29	Fri 16/12/30		4/-144			enterior es
87		WBS, Schedule, Budget Updates			613 days	Fri 14/08/29	Fri 16/12/30					

0	fask Name	Duration	Start	Finish	14 Aug 03	FISS	4 Aug 10	SMTWTFS	114 Aug 24 S M T W T
-	Erosion and Sediment Midgation	52 days?	Mon 14/08/25	Fri.14/10/31	paper de la la desta de la la la la la la la la la la la la la		arte Butanla do Polonia polonia	more weathing when he had a been a being the	
2 🗰	1.1 Hazeltine Creek Water Management (options under consideration)	52 days?	Mon 14/08/25	Fri 14/10/31		+			makes folder multimation large
1	1.2 Soawning Salmon Accommodation (options under consideration)	52 days?	Mon 14/08/26	Fri 14/10/31		1			
- Orange	2 Hazeftine Creek Rehabilitation Program	215 days?	Mon 14/11/03	Fri 15/98/28					1
5 178	2.1 Creek Rehabilitation - Timing Option 1		Mon 14/11/03	Fri 16/01/16				,	1 4
3	2.2 Creek Rehabilitation - Timing Option 2		Mon 15/06/01	Fri 15/08/28		1			1
	3 CEIA and Monitoring		Tue 14/08/05	Fri 16/12/30					-
	The state of the s		Tue 14/09/02	Fri 16/12/30		5			
and the same	3.1 Hydrology Impact Assessment		Tue 14/09/02	Thu 14/09/25	i e				
0 12	3.1.1 Data Review and Gap Analysis		Vved 14/09/17						1. 1.
0 🖼	3.1.2 Channel Assessment	AND DESCRIPTION OF THE PARTY OF	OCCUPATION AND RESERVOIS ASSESSMENT ASSESSME	Company of the second	1				
1 30	3.1.3 Time Series / LIDAr		Thu 14/09/04	Thu 15/01/15					:
2 34	3.1.4 RTK GPS Survey		Mon 14/09/15			~			1
3	3.1,5 Regional Hydrological Analysis		Thu 14/09/04						. 1
4 24	3.1.8 Hydrometric Gauges and Sediment Discharge		Wed 14/09/17			-			
5 [13	3.1.7 Assessment of Tallings - Channel & Floodplain		Mon 14/09/15		1	:			
6	3.1,8 Hydraulic Analysis	142 days	Wed 14/09/17	Tue 15/03/31		:			
7 3	3.1.9 Channel Dosling and Construction	175 days	Mon 15/02/16	Fri 15/10/18	Ì				
8	3.1.19 Reporting	608 days	Fri 14/09/05	Fri 18/12/30	Ų.				1 1
9 0	2.1.10.1 Reporting - Weekly	343 days	Fri 14/09/05	Fri 15/12/25					1
	3.1,10,2 Reporting - Monthly		Tue 14/09/30	Fri 16/12/30					
18 🔄	3.1.10.3 Reporting (Detailed)		Mon 14/09/15						
			Tue 14/08/08			-v.u.,			and the latest transport to the
19	3.2 Water Quality Impact Assessment		Mon 14/09/01	Fri 15/07/10					
20	3.2.1 Data Review and Gep Analysis								1 1
21	3,2,1,1 Historical WO date - Polley L, Hazeltine Cr, Quesne) L & R		Mon 14/09/01						1
22	3.2.1.1.1 Assembly & synthesis of historical data into data ingmi system		Man 14/09/01	Wed 14/10/29	4				1
23	3.2.1.1.2 Date and Gap analysis		Man 14/09/01	Wed 14/10/29					1 1
24 144	3.2.1.1.3 Historical data reporting	45 days	Mon 14/09/01	Wed 14/10/29					
25	3.2.1.2 Physical & bethymetric date for plume model development	22 days	Tue 14/08/02	Tue 14/09/30					
26 5	3.2.1.2.1 Assembly & synthesis of historical data into data regent system	22 days	Tue 14/09/02	Tue 14/09/30	i				
27	3.2.1.2.2 Physical data reporting	7 days	Mon 14/09/22	Tue 14/09/30	i,				
28	3.2.1.3 Geochemical Investigation data sets	217 days	Man 14/09/15	Fri 15/07/10					7 2
29 103	3.2.1.3.1 Review pre-existing geochem data sets to inform sampling program		Man 14/09/15						1
30 10	3.2.1.3.2 Review SRX geochem data set (static) to inform soft sampling program		Tue 14/11/11						- 1
31 6	3.2.1.3.3 Review SRK geochern date set (leachete) to inform sell sampling progra		Tue 15/06/23						1 1
32	3.2.2 Water Quality Sampling - Polley L, Quesnel L, lower Hazeltine Cr		Tue 14/08/05						
			Mon 14/09/01	Mon 14/09/29	1				. 1
33 📧 🕖 .	3.2.2.1 Quesnel L, Polley L, Upper Quesnel R WQ sampling plan development				1				
34 1115	3.2.2.2 Lower Hazeltine Cr WQ sampling plan development	ATTENDED TO A STORY OF	Tue 14/09/30,			1			
35	3.2.2.3 implementation of WQ field sampling plans for Quesnel L, Upper Quesnel R & Polley L	260 days				i filosofia de frances	the second second second second second second second second second second second second second second second s	al ang at processing the process of the barbor to the figure to the property of the figure of the fi	endedougs) a most schlarger detellarite
36	3.2.2.4 Implementation of WO field plan for lower Hazelline Cr		Tue 14/09/02		1				1
37	3.2.3 Event based water quality sampling	232 days	Mon 14/09/15	Fri 15/07/31		ļ			1 1
38	3.2.3.1 Event based WQ plan development	12 days	Mon 14/09/15	Mon 14/09/29	).			•	
30 1	3.2.3.2 Event based WQ plan Implementation	220 days	Tue 14/09/30	Fri 15/07/31		ŀ		1	
40 🗷	3.2.4 Piume Delineation Field Program	250 days?	Wed 14/08/27	Fri 15/08/07					ales de suive
41	3.2.5 Groundwater Quality		Mon 14/09/15			Ė		1	: 1
42	3.2.5.1 Installation of up to 5 shallow piezometers immediately down grudient of main takings volumes		Mon 14/09/15			1			1
43	3.2.5.2 Event based WO plan implementation		Tue 14/09/30		2	,			1 1
	The state of the s		Wed 14/10/01						1
44 🗷 🕒	3.2 6 Plume Model Development			E 31117 PC 5177			73		
45	3.2.7 Geochemical Modeling	261 days?							1
46	3,2,7,1 As needed use of PHREEQC to analyse WQ data set	261 days?				er artist state of the same	ing ng kapada ang kang ang kang kang kang kang kang	A by and the state of the property of the state of the st	chemical mercel of popular permanent plant
47	3.2.8 Reporting	ecs days				1			1
18 0	3.2.8.1 Reporting - Weekly	343 days			A.	1		;	
18 3	3.2.8.2 Reporting - Monthly		Tue 14/09/30			1		,	1
47	3.2.8.3 Reporting (Detailed)	13 days	Mon 14/09/15	Tue 14/09/30	1	1		E	
48 14	3.2.8.4 Reporting (Detailed) (Additional reports TBD)	21 days	Fri 15/02/13	Fri 15/03/13	3	1			
49	3.3 Soll Quality Impact Assessment		Mon 14/09/01		)	- 1			
50 24	3.3.1 Data Review and Gap Analysis		Tue 14/09/02						
- L	The state of the s				•		П		
	ey Project Schedule_Fi Task Progress Euromany		External Task	Allerando	Deadly	le	4		
ale: Tue 14/0	Split Insurance Milestone Project Summary Quant		External Milo	stone &					

0 0	Task Name	Duration	Start	Finish	14 Aug 03 14 Aug 10 14 Aug 17 14 Aug 24
51 📆	3.3.2 Drilling Program (3-5 days)	14 days	Tue 14/09/02	Fri 14/09/19	SMIT WIT FISIS MIT WIT FISIS MIT WIT FISIS MIT W
52 1	3.3.3 Transect Sampling	10 days	Mon 14/09/01	Fn 14/09/12	
53	3.3.4 Reporting	608 days	Fri 14/09/05	Fri 18/12/30	
54 C	3.3.4.1 Reporting - Weekly	343 days	Fri 14/09/05	Fri 15/12/25	
24 0	3.3.4.2 Reporting - Monthly	590 days	Tue 14/09/30	Fri 16/12/30	
53 🗔 -	3.3.4.3 Reporting (Detailed)	13 days	Mon 14/09/15	Tue 14/09/30	
54	3.3.4.4 Reporting (Detailed) (Additional reports TBD)	21 days	Fri 15/02/13	Fri 15/03/13	
55	3.4 Sediment Impact Assessment	623 days	Fri 14/08/15	Fri 16/12/30	
56	3.4.1 Data Review and Gap Analysis - Historical sediment quality - Polley L, Hazelline Cr, Quesnel L, local references	47 days	Mon 14/09/01	Fri 14/10/31	
57	3.4.1.1 Review existing source chemistry to identify analytes of potential concern	23 days	Mon 14/09/01	Tue 14/09/30	
58 15	3.4.1.2 Compile, review and synthesize historical sediment quality data	47 days	Mon 14/09/01	Fri 14/10/31	
59 [4]	3.4.1.3 Complete the gap analysis on sediment quality data	47 days	Mon 14/09/01	Fri 14/10/31	
60 [72	3,4.1.4 Historical sediment quality data reporting	47 days	Mon 14/09/01	Fri 14/10/31	
61	3.4.2 Sediment Quality Sampling - Polley L, Hazeltine Cr, Quesnei L, local references	58 days	Fri 14/08/15	Fri 14/10/31	
62 1	3.4.2.1 Polley Lake, Hazelline Creek, Quesnel Lake, sediment quality sampling plan development	22 days	Fri 14/08/15	Mon 14/09/15	
63	3.4.2.2 Implementation in Quesnet Lake	22 days	Fri 14/08/15	Mon 14/09/15	appetitis server material per per per per per per per per per per
64	5.4.2.3 Implementation in Folley Lake	37 days	Mon 14/09/15:	Fri 14/10/31	
65 E	3.4.2.4 Implementation in Hazeltine Creek	24 days	Mon 14/09/15	Wed 14/10/15	
66	3.4.3 Sediment Geochemical Characterization - Polley L, Hazeltine Cr, Quesnel L, local references	58 days	Pri 14/08/15	Fri 14/10/31	
67 1	5.4.3.1 Polley Lake, Hazeltine Creek, Quesnet Lake, sediment quality sampling plan development	22 days	Fri 14/08/15	Mon 14/09/15	Control of the Contro
88	5.4.3.2 Implementation in Quesnel Lake	22 days	Fri 14/08/15	Mon 14/09/15	
89 1	3.4.3.3 Implementation in Polley Lake	A ALAMAN STREET, STREET, ST. CO., Lot. of Co.	Mon 14/09/15	Fri 14/10/31	
70 1	3.4.3.4 Implementation in Hazeltine Creek	24 days	Mon 14/09/15	Wed 14/10/15	
71	3.4.4 Sediment Tox Testing & Benthic invertebrate Community Char - Polley L, Hazelline Cr, Quesnel L, local references	58 days	Fri 14/08/15	Fri 14/10/31	10
72	3.4.4.1 Polley Lake, Hazeltine Creek, Quesnel Lake, sediment quality sampling plan development	22 days		Mon 14/09/15	
73 100	3.4.4.2 Implementation in Quesnel Lake	22 days	Fri 14/08/15	Mon 14/09/15	
74	3.4.4.3 Implementation in Polley Lake		Mon 14/09/15	Fri 14/10/31	
75	3.4.4.4 Implementation in Hazaltine Creek	24 days			
76	3.4.5 Reporting	608 days	The state of the s	Fri 18/12/30	
77 0	3.4.5.1 Reporting - Weukly	343 days		Fri 15/12/25	
47 0	3.4.5.2 Reporting - Monthly		Tue 14/09/30	Fri 16/12/30	
76	3.4.5.3 Reporting (Detailed)		Mon 14/09/15	Tue 14/09/30	
77	3.4.5.4 Reporting (Detailed) (Additional reports TBD)		Fri 15/02/13	Fri 15/03/13	
78	3.5 Terrestrial Impact Assessment		Wed 14/09/03	Fri 16/12/30	
79	3.5.1 Data Roview and Gap Analysis		Wed 14/09/03	Tue 14/09/30	
80 T	3.5.2 Field - Preliminary Assessment and Surveys		Wed 14/09/03		· ·
81 73	3.5.3 Timed Wildlife Surveys				
82	3,5,4 Follow-up Field Activities (as required - lentative)		Thu 15/01/01	Man 15/08/31	
83 🖼 .	3.5.5 Analysis and Assessment		Mon 14/09/29	Fri 14/19/17	
84	3.5.6 Reporting	608 days		Fri 16/12/30	
	3.5.6.1 Reporting - Weekly	343 days		Fri 15/12/25	
85 O	3.5.6.2 Reporting - Weekly		Tue 14/09/30	Fri 16/12/30	
84	3.5.6.3 Reporting (Detailed) (Additional reports TBD)		Mon 14/09/15	Tue 14/09/30	
85	3.6 Fish and Aquatic Impact Assessment	Allert Helmin Total	Tue 14/09/02	Fri 16/12/30	
86	3.6.1 Data Review and Gap Analysis		Tue 14/09/02	Thu 14/09/25	
87	3.6.2 Fish Assossments	Company of the Compan	Tue 14/09/02	Fri 15/10/30	
88	3.6.2,1 Fish species determination	and the same of th	The 14/09/02	Fri 15/05/29	
89 1	3.6.2.2 Fish spewning surveys		Tue 14/09/02		
80 (14	3.6.2.3 Fish growth & performance		Thu 14/09/04	Pri 15/10/30	
91 2	3,6.2.4 Fish survival	The same of the sa	Thu 14/09/04	Fri 15/10/30	
92 PA	3.6.2.5 Fish migration corridors		Tue 14/09/04	Wed 15/05/27	
93	3.6.3 Community Assessment	100000000000000000000000000000000000000	Thu 14/09/04:	Fri 15/10/30	· · · · · · · · · · · · · · · · · · ·
94 54	3.6.3.1 Benthic invertebrates		Thu 14/09/04	Fri 15/10/30	
95 119	3.8.3.2 Phytoplankton, periphyton, macrophyte		Thu 14/09/04	Fri 15/05/29	P. Control of the Con
96 113	3.6.3.3 Fish community	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Thu 14/08/04	Fri 15/05/29	Y .
97 58	3.8.4 Habitat Assessments (riparian, shoreline, benthic)				
and American	e.c rianus Abeesinans (ipanen, anasme, panine)	44 days	Thu 14/09/04	Fri 14/10/31	
roject: Mt Poll sto: Tue 14/0	ey Project Schedule_FI Yask Progress Summery Project Summery Size Split Milestone & Project Summery Com-	~	External Miles		Deadline &
	Spill summary Missione Project Summary		ERUTAL MILES	MURE V	

6	Task Name					Duration	Sterl	Finish	14 Aug 03	'14 Aug 10	114 A	Aug 17	"14 Aug 24 F   S   S   M   T   W
98	3.6.5 Reporting	the survey transition of the state of the st				608 days	Fri 14/09/05	Fr 16/12/30	SMITWI	FISIS MIT V	VITIFISISI	Millow	F S S M T W
9 0	The second secon	porting - Weekly	10-11-41 17-11-77 ( Test or C Contract of 1801 19	de la artistation de bintara ille à conde an birde i		343 days	Fri 14/09/05	Fri 15/12/25					
39 0		porting - Monthly					Tue 14/09/30	Fri 16/12/30					i 🛔
8 04		porting (Detailed) (Additional reports TBC	1		*		Mon 14/09/15						, į
99		Impact Assessment					Tue 14/09/02	Fri 18/12/30					1
00 11		ew and Collection				20 days?	Tue 14/09/02	Fri 14/09/26					
01 24		ry Field Reconnaissance		in the early	10 VI ( 1 pt		Tue 14/09/02	Fri 14/08/12					
						14 days	Tue 14/10/07	Fri 14/10/24					
02 11		ical Inventory Assessment					Fri 14/09/05	Fn 16/12/30					1
03	3.7.4 Reporting		ATAMA III TIII SOURIS WILLIAM			608 days		Fri 15/12/25					
04 🔿		porting - Weekly		nint track tracerous states and	and distributed that their distributed and	343 days	Fri 14/09/05						
74 Ŏ		porting - Monthly	9 - 41			590 days	Tue 14/09/30	Fri 18/12/30					1 4
03		porting (Detailed) (Additional reports TBC	)			59 days	Thu 14/09/11	Fri 14/11/28	i,				1 1
04 🚾		3.1 Preliminary Reconneissance Report	analysis of the service of the servi	E CAPACIT III ( ITS)			Thu 14/09/11						
05		3.2 AIA Final Report				. 26 days	Sat 14/10/25	Fri 14/11/28					1 1
06	3.8 Environmental						Mon 14/09/01	Fri 16/12/30					1
07	3,9,1 Data Revi	lew and Gap Analysis	had a second			202000		Wad 14/10/29					1
08	3.8.2 Problem F	Formulation					Wed 14/10/15						1 1
09 1	3.8.3 Preliminar	ry Risk Assessment	ar i-allo and			304 days	Mon 14/11/03						1 1
10	3.8.4 Detailed C	Quant telive Risk Assessment				261 days	Fri 16/01/01	Fri 16/12/30					1
11	3.9 Monitoring Prog					366 days?	Tue 14/08/05	Fri 15/12/25	93				
12		in progress - to continue as determined b	y assessment work			282 days?	Tue 14/08/05	Mon 15/08/31					
13 O	3.9.2 Reporting			47		343 days	Fri 14/09/05	Fri 15/12/25					1
83	3.10 Project Manag		to re the	Ja di da Los la	ide		Mon 14/08/11	Fri 16/12/30		21			
84 🕮		ment of Work Plans	- Pr -h				Mon 14/08/11:			in high this plant was wearing	products in Land and in the handless contracts		
65		e of Wark Piens		military property is the least	ique mpr		Fri 14/08/29			1			1
56 29		e of Project Schedule					Tue 14/08/26						♠ 08
		Task Pathway				1 day	Tue 14/08/28						<b>\$ 08</b>
						i cereb.							4
87 E3 88 O		WBS, Schedule, Budget Undates				613 days	Fri 14/08/29	Fil 16/12/30					
87 5						913 days	Fri 14/05/29	Fri 18/12/30	£ 5	•	•		
37 5						"" 813 days	Fri 14/08/29	Fri 16/12/30		•			
7 55						"" 813 days	Fri 14/09/29	Fil 16/12/30		•			
7 55						"" 813 days	Fri 14/09/29	Fri 16/12/30		•			
2.5						813 days	Fri 14/09/29	Fri 16/12/3C		•			
2.5						813 days	Fri 14/09/25	Fri 16/12/3C		•			
7 55						813 days	Fri 14/09/29	Fri 16/12/3C		•			
87 5			Propress		Surremary	813 days	External Task		Dead	ille &			

6	Task Name	Duration	Start	Finish	14 Aug 03 S M T W T F S	14 Aug 10 S M T W T F	"14 Aug 17 S S M T W T F S	14 Aug 24 5 M T W T
and in the second	1 Eroslon and Sediment Mitigation	52 days?	Mon 14/08/25	Fri 14/10/31	Y tellided and the Land	A STATE OF THE STA	×	6
•	1.1 Hazeltine Creek Water Management (options under consideration)		Mon 14/08/25	Fri 14/10/31		,		Section of Section 2017 hours properly property and
77	1.2 Spawning Salmon Accommodation (options under consideration)		Mon 14/08/25	Fri 14/10/31				harman and the females in the same
	2 Hazeltine Creek Rehablikation Program	A CONTRACTOR OF THE PARTY OF TH	Mon 14/11/03	Fri 15/08/28		1		1
73	2.1 Crack Rehabilitation - Timing Option 1		Mon 14/11/03	Fri 15/01/18		1	;	4
	2.2 Creek Rehabilitation - Timing Option 2		Mon 15/05/01	Fri 15/08/28			,	1
	AND THE RESERVE TO THE PARTY OF		Tue 14/08/05	Fri 16/12/30	6			
	3 CEIA and Monitoring		Tue 14/09/02	Fri 16/12/30	-			
	3.1 Hydrology Impact Assessment	THE PERSON NAMED IN	OUR DOCKSON AND A PROPERTY	Thu 14/09/25				1
ET.	3.1.1 Data Review and Gap Analysis		Tue 14/09/02					
0 1	3.1.2 Channel Assessment		Wed 14/09/17			1		1
1 Ris	3.1.3 Time Series / LIDAr	Acceptant Age of the Control of the Control	Thu 14/09/04	Thu 15/01/15				1
2 25	3.1.4 RTK GPS Survey		Mon 14/09/15					
3 119	3.1.5 Regional Hydrological Analysis		Thu 14/09/04					
	3,1.5 Hydrometric Gauges and Sediment Discharge	274 days	Wed 14/09/17	Thu 15/10/01		*		
5 20	3,1.7 Assessment of Tallings - Channel & Floodplain	34 days	Mon 14/09/15	Tue 14/19/28				
8 4	3,1,8 Hydraulic Analysis	142 days	Wed 14/09/17	Tue 15/03/31		1		
7	3.1.9 Channel Design and Construction	175 days	Mon 15/02/16	Fri 15/10/18		•		
8	3.1.10 Reporting	608 days	Fri 14/09/05	Fri 16/12/30				
9 0	3.1.10.1 Reporting - Weekly	343 days	Fri 14/09/05	Fri 15/12/25				
0	3,1,10,2 Reporting - Monthly		Tue 14/09/30	Fri 16/12/30				
8 🖼	3.1.10.3 Reporting (Detailed)		Mon 14/09/15	Land Market Committee Committee				
	3.2 Water Quality Impact Assessment	and the second s	Tue 14/08/05	State of the Company of	the state of the property of party of the party of	and a selection of the	alyth francis, yet returns persent, aprije gaagaa ampropasabye . ee ee ege	The same of the sa
		The second secon	Mon 14/09/01	Fri 15/07/10				
0	3.2.1 Dats Review and Gap Analysis		ALL PROPERTY OF SUPPLY AND ADDRESS.	A PALES OF THE PARTY OF THE PAR				
1	3.2.1.1 Historical WQ data - Polley L, Hazelline Cr, Quesnel L & R		Mon 14/09/01			4		1
2 4	3.2.1.1.1 Assembly & synthesis of historical data into data ingrit system		Mon 14/09/01					
3	3.2.1.1.2 Date and Gap analysis	10.000.000.00	Mon 14/09/01	Wed 14/10/29				1
4 54	3.2.1.1.3 Historical data reporting	Commence of the Commence of th	Man 14/09/01					
25	3.2.1.2 Physical & bathymetric data for plume model development	22 days						
6 1	3.2.1.2.1 Assembly & synthosis of historical date into date ingrit system	22 days	Tue 14/09/02	Tue 14/09/30				i
7 8	3.2.1.2.2 Physical data reporting	7 days	Men 14/09/22	Tue 14/09/30				
8	3.2.1.3 Geochemical Investigation data sets	217 days	Mon 14/09/15	Fri 15/07/10				
29 🖼	3.2.1.3.1 Review pre-existing geochem data sets to inform sampling program	21 days	Mon 14/09/15	Fri 14/10/10				
0 He	3.2.1.3.2 Review SRK geochern data set (static) to inform sell sampling program	14 days	Tue 14/11/11	Fri 14/11/28				1 [
11 🚾	3.2.1.3.3 Review SRK goodherr data sat (leachate) to inform soil sampling progra		Tue 15/05/23					
12	3.2.2 Water Quality Sampling - Pollay L, Quesnel L, lower Hazelline Cr	260 days			EAST TO THE RESIDENCE OF THE PERSON OF THE P			
3 100	3.2.2.1 Quesnel L, Polley L, Upper Quesnel R WQ sampling plan development		Mon 14/09/01	Mon 14/09/29				1
	3.2.2.2 Lower Hazelline Or WQ sampling plan development		Tue 14/09/30					1 1
4 1		260 days			41			THE RESERVE TO BE A STATE OF THE PARTY OF TH
5 📧 😕	3.2.2.3 (mplementation of WQ field sampling plans for Quesnel L, Upper Quesnel R & Polley L		Tue 14/09/02		1000			
8 E	3.2.2.4 Implementation of WQ field plan for lower Hazeltine Cr							i i
37	3.2.3 Event based water quality sampling		Man 14/09/15.				:	1
38	3.2.3.1 Event based WQ plan development	to the second	Mon 14/09/15					
19 1	3.2,3,2 Event based WO plan implementation		Tue 14/09/30					
10 E	3.2.4 Plume Delineation Field Program		Wed 14/08/27	Fri 15/08/07				
11	3.2.5 Groundwater Quality		Mon 14/09/15					
2 1	3.2.5.1 installation of up to 5 shallow piezometers immediately down gradient of main tailings volumes	13 days?	Mon 14/09/15	Tue 14/09/30				-
(3 📆	3.2.5.2 Event based WQ plan implementation	220 days?	Tue 14/09/30	Fri 15/07/31		;		
H E	3.2.8 Plume Model Development		Wed 14/10/01	Fri 14/11/21				1
15	3.2.7 Geochemical Modeling	261 days?		Fri 15/07/31	Entered - Interese		A. S. C.	VEIDER OF THE PARTY OF THE PART
16	3.2.7.1 As needed use of PHREEQC to analyse WQ data set	281 days?			Local dispersal in a history and account		The state of the s	and the second s
17	3.2.8 Reporting	808 days	Company of the Art State of the					
and the same of th	3.2.8.1 Reporting - Weekly	343 days	www.medicha.com.com.com.com.com.com.com.com.com.com	N. of Assets of the St. of Assets of the		1		1
			Tue 14/09/30			•		1
8 0	3.2.8.2 Reporting - Monthly					Į.		1
17	3.2.8.3 Reporting (Detailed)		Mon 14/09/15			1	1	1
18	3.2.8.4 Reporting (Detailed) (Additional reports TBD)		Fri 15/02/13	The second second		t		
(9	3.3 Soil Quality Impact Assessment	7.000	Mon 14/09/01			1		
50 0	3.3.1 Data Review and Gap Analysis	19 days	Tue 14/09/02	Thu 14/09/25		1		1
short to D.	Progress Summbry	/=== {	External Tasi	ks (Estate	Deadline	J.	·	
oject: MI Pol te: Tue 14/0	by Fright acressed Fri		External Milo	3091334				
IN. 140 14/0	8/25 Split minimum Milestone ♦ Project Summary 🌣		External Milo	Storie Q				

0	Task Name	Duration	Start	Finish 114 Aug 03 114 Aug 10 114 Aug 17 114 Aug 24 SM T W T F S S M T W T F S S M T W T F S S M T W
100	3.3.2 Onling Program (3-5 days)	14 days	Tue 14/09/02	Fn 14/09/19:
170	3,3,3 Transect Sampling	10 days	Mon 14/08/01	Fri 14/09/12
	3.3.4 Reporting	608 days		Fit 16/12/30
0	3.3.4.1 Reporting - Weekly	343 days	Fri 14/09/05	Fri 15/12/25
O	3.3.4.2 Reporting - Monthly	590 days	Tue 14/09/30	Fri 16/12/30
	3.3.4.3 Reporting (Detailed)	13 days	Mon 14/09/15	Tue 14/09/30:
	3.3.4.4 Reporting (Detailed) (Additional reports TSD)	21 days	Fri 15/02/13	Fri 15/03/13
	3.4 Sediment Impact Assessment	623 days	Fri 14/08/15	Fri 16/12/20
5	3,4.1 Data Review and Gap Analysis - Historical sediment quality - Polley L, Hazaltine Cr, Quasnet L, local references	47 days	Mon 14/09/01	Fri 14/10/31
	3.4.1.1 Review existing source chemistry to identify analytes of potential concern	23 days	Mon 14/09/01	Tue 14/09/30
	3.4.1.2 Compile, review and synthesize historical sediment quality data	47 days	Mon 14/09/01	Fn 14/10/31
	3.4.1.3 Complete the gap analysis on sediment quality data	47 days	Mon 14/08/01	Fn 14/10/31
	3.4.1.4 Historical sediment quality data reporting	47 days	Mon 14/09/01	Fri 14/10/31
1	3.4.2 Sed ment Quality Sampling - Polley L, Hazeltine Cr, Quesnol L, local references	58 days		Fri 14/10/31
	3.4.2.1 Policy Lake, Hazeltine Creek, Quesnel Lake, sediment quality sampling plan development	22 days	Fn 14/08/15	Man 14/09/15
	3.4.2.2 Implementation in Quesnet Lake	22 days	Fn 14/08/15	Mon 14/09/15
	3.4.2.3 Implementation in Polley Lake	the state of the s	Mon 14/09/15	
E (d)	3.4,2.4 Implementation in Hazeltine Creok		Mon 14/09/15	
3	3.4.3 Sediment Geochemical Characterization - Polley L, Hazeltine Cr, Ques vel L, local references	58 days		
	3,4.3,1 Policy Lake, Hazeltine Creek, Quosnel Lake, sediment quality sampling plan development	22 days		Man 14/09/15
	3.4.3.2 Implementation in Quesnel Lake	22 days		Mon 14/09/15
	3.4.3.3 Implementation in Polley Lake	The second secon	Mon 14/09/15	
	3.4.3.4 Implementation in Hazeltine Creek		Mon 14/09/15	
	3.4.4 Sediment Tox Testing & Benthic Invertebrate Community Char - Polley L, Hazelline Cr, Quesnel L, local references	5B days		
<b>E</b> (9	<ol> <li>4.1 Policy Lake, Hazeltine Creek, Quesne) Lake, sadament quality sampling plan development</li> </ol>	22 days		Mon 14/09/15
E (B)	3.4.4.2 Implementation in Quesnet Lake	22 days		
<b>1</b> (9)	3.4.4.3 Implementation in Polley Lake		Mon 14/09/15	MATERIAL PROPERTY AND A STATE OF THE PROPERTY AND A STATE
EO	3.4.4.4 Implementation in Hazeftine Creek	and the second section in the second section is	Mon 14/09/15	
	3.4.5 Reporting	60B days		
0	3.4.5.1 Reporting - Weekly	343 days		
0	3.4.5.2 Reporting - Monthly	500 days		
	3.4.5.3 Reporting (Detailed) 3.4.5.4 Reporting (Detailed) (Additional reports TBD)		Mon 14/09/15 Fri 15/02/13	
		21 days		
1	3.5 Terrestrial Impact Assessment 3.5.1 Data Review and Gap Analysis		Wed 14/09/03 Wed 14/09/03	
) =	3.5.2 Field - Preliminary Assossment and Surveys		Wed 14/09/03	
	3.5.3 Timed Widthe Surveys		solt in a second subsequent and	
2 13	3.5.4 Follow-up Field Activities (as required - tentative)		Thu 15/01/01	
- C3	3.5.5 Analysis and Assessment		Mon 14/09/29	
-	3.5.8 Reporting	608 days		
0	3.5.8.1 Reporting - Weekly		Fri 14/09/05	
70	3.5.6.2 Reporting - Monthly		Tue 14/09/30	
	3.5.6.3 Reporting (Detailed) (Additional reports TBD)	The second secon	Mon 14/09/15	
5	3.6 Fish and Aquatic Impact Assessment	A CONTRACTOR AND ADDRESS OF THE PARTY OF THE	Tue 14/09/02	
3 154	3.6.1 Data Roview and Gap Analysis		Tue 14/09/02	
7	3.6.2 Fish Assossments	THE R. LEWIS CO., LANSING, MICH. LAN	Tue 14/09/02	period of the control
8 111	3.6.2.1 Fish species determination	AND REAL PROPERTY AND PERSONS ASSESSED.	Thu 14/09/04	a made describe that a survey
	3.6.2.2 Fish spawning surveys		Tue 14/09/02	
	3.6.2.3 Fish growth & performance		Thu 14/09/04	
1 5	3.0.2.4 Fish survival		Thu 14/09/04	
-	3.6.2.5 Fish migration corridors		Tue 14/09/02	
3	3.6.3 Community Assessment		Thu 14/09/04:	
E .	3.6.3.1 Benthic invertebrates		Thu 14/09/04	
5	3.8.3.2 Phytoplankton, periphyton, macrophyte	194 days	Thu 14/09/04	Fri 15/05/29
-	3.6.3.3 Fish community		Thu 14/09/04	
7 23	3.6.4 Habitat Assessments (riperian, shoreline, benthic)		Thu 14/09/04	
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From:

Stolar, Harold B FLNR:EX

Sent:

Tuesday, September 9, 2014 8:44 AM

To:

Weir, David J FLNR:EX

Subject:

RE: Log 208986 D Deputy Response D Due September 19/14

August 25th is correct.

Inspiring Stewardship through Respectful Conversation

Harold

From: Weir, David J FLNR:EX

Sent: Tuesday, September 9, 2014 8:20 AM

To: Stolar, Harold B FLNR:EX

Subject: RE: Log 208986 D Deputy Response D Due September 19/14

Only if the date I used is wrong.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David.J.Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From: Stolar, Harold B FLNR:EX

Sent: Monday, September 8, 2014 5:54 PM

To: Weir, David ) FLNR:EX

Subject: Re: Log 208986 D Deputy Response D Due September 19/14

s.22

Do you still need anything from me?

Sent from iPhone

On Sep 8, 2014, at 2:38 PM, "Weir, David J FLNR:EX" < David.J.Weir@gov.bc.ca > wrote:

Thank you for your letter of August 19<sup>th</sup> 2014 concerning the potential impacts to your water licences s.22 Dave Weir Section Head Water Stewardship of the Ministry of Forests, Lands and Natural Resource Operations again extends his offer of August 25<sup>th</sup> 2014 to attend with you onsite and answer any question you may have concerning the potential impacts to your licences. To arrange on onsite meeting Mr. Weir can be contacted at (250) 398- 4924 by phone or by e-mail at David.J.Weir@gov.bc.ca

For up to date information concerning what is happening with respect to the Mount Polley incident please visit <a href="http://www.env.gov.bc.ca/eemp/incidents/2014/mount-polley/">http://www.env.gov.bc.ca/eemp/incidents/2014/mount-polley/</a>.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC <a href="David.J.Weir@gov.bc.ca">David.J.Weir@gov.bc.ca</a> (250) 398 4924 Cell 250 267-5925

From: Beadman, Krista FLNR:EX

Sent: Thursday, September 4, 2014 8:04 AM

**To:** Weir, David J FLNR:EX **Cc:** Vanderburgh, Ken FLNR:EX

Subject: FW: Log 208986 D Deputy Response D Due September 19/14

HI Dave

Please draft a Deputy response for the cliff log below and email to me for Ken's approval by September

17.

Thank you!

Krista

Krista Beadman

Regional Administrative Assistant

Cariboo Region

Ministry of Forests, Lands & Natural Resource Operations

Phone: 250-398-4327

**From:** Correspondence Serv. Sectn, FLNR:EX **Sent:** Wednesday, September 3, 2014 4:36 PM

To: Beadman, Krista FLNR:EX

Cc: Correspondence Serv. Sectn, FLNR:EX

Subject: FW: Log 208986 D Deputy Response D Due September 19/14

Hi Krista, sorry forgot to add you in the CLIFF email. 🗇

Regards, Sheree

#### Sheree Rialp

Correspondence Services
Ministry of Forests, Lands and Natural Resource Operations
411 - 780 Blanshard Street
250:387-7285
Sheree.Rialp@gov.bc.ca

From: FLNR.Correspondence@gov.bc.ca [mailto:FLNR.Correspondence@gov.bc.ca]

Sent: Wednesday, September 3, 2014 4:34 PM

To: Siperka, Linda FLNR:EX

Cc: Correspondence Serv. Sectn, FLNR:EX

Subject: Log 208986 D Deputy Response D Due September 19/14

Sent to Water Management Branch to coordinate with RED-Cariboo for DM Response. Please provide to CSS draft wording, including DrafterÕs name, Approved By and all pc addresses, by September 19.

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<208986\_208986 - INCOMING.pdf>

From:

Williston, Lee X FLNR:EX

Sent:

Monday, September 8, 2014 5:02 PM

To:

Weir, David J FLNR:EX

Subject:

Out of Office: Quesnel Lake

I am out of the office until Monday September 15, 2014.

From:

Weir, David J FLNR:EX

Sent:

Monday, September 8, 2014 5:02 PM

To:

Williston, Lee X FLNR:EX

Subject:

RE: Quesnel Lake

I think we had talked about doing at the end of the month and I am just a couple weeks ahead of myself.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC <u>David.J.Weir@gov.bc.ca</u> (250) 398 4924 Cell 250 267-5925

From: Williston, Lee X FLNR:EX

Sent: Monday, September 8, 2014 4:28 PM

To: Weir, David J FLNR:EX Subject: Quesnel Lake

Hi Dave,

Unfortunately, I can't make it to Quesnel Lake next week. I'm in Bella Coola the rest of this week and have to go to the Dean River for most of next week.

Sorry, Lee

From:

Weir, David J FLNR:EX

Sent:

Monday, September 8, 2014 2:38 PM

To:

Vanderburgh, Ken FLNR:EX

Cc:

Weir, David J FLNR:EX; Stolar, Harold B FLNR:EX

Subject:

FW: Log 208986 D Deputy Response D Due September 19/14

Attachments:

208986 208986 - INCOMING.pdf

Thank you for your letter of August 19<sup>th</sup> 2014 concerning the potential impacts to your water licences<sup>5,22</sup>

Dave Weir Section Head Water Stewardship of the Ministry of Forests, Lands and Natural Resource Operations again extends his offer of August 25<sup>th</sup> 2014 to attend with you onsite and answer any question you may have concerning the potential impacts to your licences. To arrange on onsite meeting Mr. Weir can be contacted at (250) 398- 4924 by phone or by e-mail at David.J.Weir@gov.bc.ca

For up to date information concerning what is happening with respect to the Mount Polley incident please visit <a href="http://www.env.gov.bc.ca/eemp/incidents/2014/mount-polley/">http://www.env.gov.bc.ca/eemp/incidents/2014/mount-polley/</a>.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC <a href="mailto:David.J.Weir@gov.bc.ca">David.J.Weir@gov.bc.ca</a> (250) 398 4924 <a href="mailto:Cell-250-267-5925">Cell-250-267-5925</a>

From: Beadman, Krista FLNR:EX

Sent: Thursday, September 4, 2014 8:04 AM

**To:** Weir, David J FLNR:EX **Cc:** Vanderburgh, Ken FLNR:EX

Subject: FW: Log 208986 D Deputy Response D Due September 19/14

HI Dave

Please draft a Deputy response for the cliff log below and email to me for Ken's approval by September 17.

Thank you!

Krista

Krista Beadman

Regional Administrative Assistant

Cariboo Region

Ministry of Forests, Lands & Natural Resource Operations

Phone: 250-398-4327

**From:** Correspondence Serv. Sectn, FLNR:EX **Sent:** Wednesday, September 3, 2014 4:36 PM

To: Beadman, Krista FLNR:EX

Cc: Correspondence Serv. Sectn, FLNR:EX

Subject: FW: Log 208986 D Deputy Response D Due September 19/14

Hi Krista, sorry forgot to add you in the CLIFF email. (8)

Regards, Sheree

#### Sheree Rialp

Correspondence Services
Ministry of Forests, Lands and Natural Resource Operations
411 - 780 Blanshard Street
250-387-7285
Sheree.Rialp@gov.bc.ca

From: FLNR.Correspondence@gov.bc.ca [mailto:FLNR.Correspondence@gov.bc.ca]

Sent: Wednesday, September 3, 2014 4:34 PM

To: Siperka, Linda FLNR:EX

Cc: Correspondence Serv. Sectn, FLNR:EX

Subject: Log 208986 D Deputy Response D Due September 19/14

Sent to Water Management Branch to coordinate with RED-Cariboo for DM Response. Please provide to CSS draft wording, including DrafterÕs name, Approved By and all pc addresses, by September 19.

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August 19, 2014

Ministry of Forests, Lands and Natural Resource Operations

Honourable, Steve Thomson

P.O. Box 9049

Victoria, British Columbia

V8W 9E2

Re: Water Management Branch, 5.22

Dear Sir.

MINISTER OF FORESTS, LANDS & NATURAL RESOURCE OPERATIONS RECEIVED AUG 2 7 2014 ☐ Minister Diffeply Direct ŒADM -Dinio file

and we are

We are writing today to inquire into your role in remediation of the August 4th, 2014 release of toxic materials from the tailings pond at Polley Mine, owned by Imperial Metals, with regard to the two water licenses we holds.22

Not only the surface water of the creek will be affected, but more importantly, the leaching out of Polley Lake, and assorted creeks and springs, will affect the whole aquifer.

s.22 and have had excellent service from your branch with

regard to notifying us of any logging, road building, or other construction in the area that could affect our water. As one of your mandates is protection of natural resources, we are sure that you will be diligent in protecting our water supply after this major environmental disaster. It is our understanding

s.22 understandably concerned. We have not, as yet, received any communication from Imperial Metals to inform us of their toxic spill into the area for which we hold current water licenses.

We look forward to hearing from you at your earliest convenience.

Yours truly, s.22

CORRESPONDENCE SERVICES OFFICE OF THE DEPUTY MINISTER RECEIVED SEP 02 2014 NATURAL RESOURCE OPERATIONS SEP 0 2 2015 ∏l#inister Response [] D#i ∏ AOM Mole & File Phone Call Reply Direct

Co Honourable Mary Polak, Honourable Terry Lake, Office of the Premier, Office of the Official Opposition

From:

Hill, Douglas J FLNR:EX

Sent:

Tuesday, September 9, 2014 1:29 PM

To:

Weir, David J FLNR:EX

Subject:

FW: ARCHAEOLOGY BRANCH

Attachments:

FW: URGENT Mount Polley permit

fvi

From: Bunce, Hubert ENV:EX

Sent: Tuesday, September 9, 2014 1:24 PM

To: 'Lee\_Nikl@golder.com'

Cc: Fenwick, Leigh-Ann FLNR:EX; Hill, Douglas J FLNR:EX; Glaum, Doug FLNR:EX; Metcalfe, Shelley ENV:EX

Subject: FW: ARCHAEOLOGY BRANCH

I spoke with Doug Glaum of the Archeology branch today

He can expedite your permit application if they receive a quality application and

They can reduce the consultation period down to very fittle or zero if you have agreement letters from all three bands (see attached email)

Hope this helps

#### **Hubert Bunce**

A/Director Mining Operations Environmental Protection ph (250) 751-3254 fax (250) 751-3103 emil <u>Hubert.Bunce@gov.bc.ca</u> 2080A Labieux Road Nanaimo BC V9T 6J9

Please consider the environment before printing this email BC Pollution Free

From: McGuire, Jennifer ENV:EX

Sent: Monday, September 8, 2014 3:49 PM

To: Bunce, Hubert ENV:EX

Subject: FW: ARCHAEOLOGY BRANCH

Jennifer McGuire, P.Ag. Executive Director, Regional Operations Environmental Protection

**Ministry of Environment** 

ph: 250-356-6027 cell: 250-361-5944

From: Nikl, Lee [mailto:Lee Nikl@golder.com]
Sent: Monday, September 8, 2014 3:45 PM

To: McGuire, Jennifer ENV:EX

Cc: Don Parsons (dparsons@imperialmetals.com); Dale Reimer (dreimer@mountpolley.com); Steve Robertson

Subject: ARCHAEOLOGY BRANCH

Hi Jen.

Information to support our application has been collected and our team's Archaeologist has been advised that letters of consent from the two First Nations will be forthcoming. This would allow a bypass of the usual 30d waiting period for an application to be processed. We wonder if you could contact the Archaeology Branch to connect them with our response work and your Ministry's program. We were advised that it would take on the order of 2 weeks to process the permit, which could delay the works. We are hoping to have approvals in place so that we can implement the erosion and sediment control plan (in prep) once we have necessary approval of that plan.

I understand that you would be able to contact the Archaeology Branch directly to outline the urgent nature of the work. The manager of the permitting section is Doug Glaum (250-953-3357). The director is Justine Batten (250-953-3355).

Please feel free to contact me if you would like further clarification.

Regards,

Lee

Lee Nikl (M.Sc., R.P.Bio.) | Principal / Senior Environmental Scientist | Golder Associates Ltd. | 500 - 4260 Still Creek Drive, Burnaby, British Columbia, Canada V5C 6C6
D: +1.604.297.2016 | T: +1.604.296.4200 | F: +1.604.298.5253 | C: +1.778.231.6636 | E: Lee Nikl@golder.com | www.golder.com

#### Work Safe, Home Safe

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Golder Golder, Associates with the GA globaldesign and station of the GA 30 months.

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From:

Glaum, Doug FLNR:EX

Sent:

Tuesday, September 9, 2014 12:12 PM

To:

Bunce, Hubert ENV:EX

Subject:

FW: URGENT Mount Polley permit

#### Hi Hubert:

As below and further to our phone call, we have identified three first nations within the Hazeltine Creek Area using CAD: Williams Lake, Soda Creek and Neskonlith Indian Band. TNG Engagement Zone A requires only notification, not consultation.

Doug Glaum

Archaeology Branch

Ministry of Forests, Lands and Natural Resource Operations

1250 Quadra

(250) 953-3357

Visit our wabsita

From: Acheson, Steven FLNR:EX

Sent: Tuesday, September 9, 2014 11:05 AM

To: Glaum, Doug FLNR:EX

Subject: RE: URGENT Mount Polley permit

I was told in a teleconference the other day with Remi Farvaque, Adam Kanatakis (Williams Lake IB) and Jim Light (5NC Lavalin) regarding Mount Polley that Williams Lake (T'exelc) and 5oda Creek (Xats'ull) were the only two affected FNs. CAD, however, also cites Neskonlith IB. For the record it also lies within the TNG Engagement Zone A.

Steven Acheson, D.Phil. | Supervisor, Permitting and Assessment

Archaeology Branch | Ministry of Forests, Lands and Natural Resource Operations

Phone: 250-953-3306 | Fax: 250-953-3340 | e-mail: archpermitapp@gov.bc.ca

Unit 3 - 1250 Quadra Street, Victoria BC V8W 2K7 | PO Box 9816 Stn Prov Govt, Victoria, BC V8W 9W3

Visit our website at: http://www.for.gov.bc.ca/archaeology/

From:

Weir, David J FLNR:EX

Sent:

Wednesday, September 10, 2014 8:23 AM

To:

Vanderburgh, Ken FLNR:EX

Subject:

FW: Log 208986 D Deputy Response D Due September 19/14

Attachments:

s.22

Please find the attached if needed for Log 208986

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David.J.Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From: Jensen, Fern FLNR:EX

Sent: Wednesday, September 10, 2014 8:12 AM

To: Weir, David J FLNR:EX

Subject: RE: Log 208986 D Deputy Response D Due September 19/14

Dates downstream licencees (Quesnel Lake and River) called were on August 5 and 6, 2014.

Not entirely sure what you are looking for but this is what I came up with . \$.22

s.22

I have the map in mxd format in Arc map, if you want it (e.g. look at other layers - topo, other PODs and measurements).

Fern

From: Weir, David J FLNR:EX

Sent: Monday, September 8, 2014 11:33 AM

To: Jensen, Fern FLNR:EX

Subject: FW: Log 208986 D Deputy Response D Due September 19/14

Hi Fern, I will be preparing this note and will need to confirm that there is no connectivity \$.22

s.22

below the tailings pond failure. Could you also tell me the date

you called the downstream licencees?

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David.J.Weir@gov.bc.ca

(250) 398 4924 Cell 250 267-5925

From: Beadman, Krista FLNR:EX

Sent: Thursday, September 4, 2014 8:04 AM

To: Weir, David J FLNR:EX
Cc: Vanderburgh, Ken FLNR:EX

Subject: FW: Log 208986 D Deputy Response D Due September 19/14

HI Dave

Please draft a Deputy response for the cliff log below and email to me for Ken's approval by September 17.

Thank you!

Krista

Krista Beadman

Regional Administrative Assistant

Cariboo Region

Ministry of Forests, Lands & Natural Resource Operations

Phone: 250-398-4327

From: Correspondence Serv. Sectn, FLNR:EX Sent: Wednesday, September 3, 2014 4:36 PM

To: Beadman, Krista FLNR:EX

Cc: Correspondence Serv. Sectn, FLNR:EX

Subject: FW: Log 208986 D Deputy Response D Due September 19/14

Hi Krista, sorry forgot to add you in the CLIFF email. (3)

Regards, Sheree

### Sheree Rialp

Correspondence Services
Ministry of Forests, Lands and Natural Resource Operations
411 - 780 Blanshard Street
250-387-7285
Sheree.Rialp@gov.bc.ca

From: FLNR.Correspondence@gov.bc.ca [mailto:FLNR.Correspondence@gov.bc.ca]

Sent: Wednesday, September 3, 2014 4:34 PM

To: Siperka, Linda FLNR:EX

Cc: Correspondence Serv. Sectn, FLNR:EX

Subject: Log 208986 D Deputy Response D Due September 19/14

Sent to Water Management Branch to coordinate with RED-Cariboo for DM Response. Please provide to CSS draft wording, including DrafterÕs name, Approved By and all pc addresses, by September 19.

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Title	Due	2014/09/22	Action	Deputy Response

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Page 1071

Withheld pursuant to/removed as

s.22

From:

Weir, David J FLNR:EX

Sent:

Wednesday, September 10, 2014 8:21 AM

To:

Jensen, Fern FLNR:EX

Subject:

RE: Log 208986 D Deputy Response D Due September 19/14

Thank you that is exactly what I was looking for.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David.J.Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From: Jensen, Fern FLNR:EX

Sent: Wednesday, September 10, 2014 8:12 AM

To: Weir, David J FLNR:EX

Subject: RE: Log 208986 D Deputy Response D Due September 19/14

Dates downstream licencees (Quesnel Lake and River) called were on August 5 and 6, 2014.

Not entirely sure what you are looking for but this is what I came up with .s.22

s.22

I have the map in mxd format in Arc map, if you want it (e.g. look at other layers - topo, other PODs and measurements).

Fern

From: Weir, David J FLNR:EX

Sent: Monday, September 8, 2014 11:33 AM

To: Jensen, Fern FLNR:EX

Subject: FW: Log 208986 D Deputy Response D Due September 19/14

Hi Fern, I will be preparing this note and will need to confirm that there is no connectivity \$.22

s.22

s.22

below the tailings pond failure. Could you also tell me the date

you called the downstream licencees?

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake, BC
David, J. Weir@gov. bc. ca
(250) 398 4924
Cell 250 267-5925

From: Beadman, Krista FLNR:EX

Sent: Thursday, September 4, 2014 8:04 AM

**To:** Weir, David J FLNR:EX **Cc:** Vanderburgh, Ken FLNR:EX

Subject: FW: Log 208986 D Deputy Response D Due September 19/14

Hi Dave

Please draft a Deputy response for the cliff log below and email to me for Ken's approval by September 17.

Thank you! Krista

Krista Beadman

Regional Administrative Assistant

Cariboo Region

Ministry of Forests, Lands & Natural Resource Operations

Phone: 250-398-4327

**From:** Correspondence Serv. Sectn, FLNR:EX **Sent:** Wednesday, September 3, 2014 4:36 PM

To: Beadman, Krista FLNR: EX

Cc: Correspondence Serv. Sectn, FLNR:EX

Subject: FW: Log 208986 D Deputy Response D Due September 19/14

Hi Krista, sorry forgot to add you in the CLIFF email. 🟵

Regards, Sheree

## Sheree Rialp

Correspondence Services
Ministry of Forests, Lands and Natural Resource Operations
411 - 780 Blanshard Street
250-387-7285
Sheree.Rialp@gov.bc.ca

From: FLNR.Correspondence@gov.bc.ca [mailto:FLNR.Correspondence@gov.bc.ca]

Sent: Wednesday, September 3, 2014 4:34 PM

To: Siperka, Linda FLNR:EX

Cc: Correspondence Serv. Sectn, FLNR:EX

Subject: Log 208986 D Deputy Response D Due September 19/14

Sent to Water Management Branch to coordinate with RED-Cariboo for DM Response. Please provide to CSS draft wording, including DrafterÕs name, Approved By and all pc addresses, by September 19.

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From:

Weir, David J FLNR:EX

Sent:

Wednesday, September 10, 2014 3:21 PM

To:

Bunce, Hubert ENV:EX

Subject:

Mt Polley Sign off of embedded debris at mouth of Hazeltine Creek

Attachments:

Imperial Metals - Order.pdf

Hi Hubert, I just had time to put this together. Please be aware that the requirement for approval by EP is a condition of the water act order. It does not have to be anything formal as the purpose of the clause is only to make sure that the work is being done to your satisfaction. If they are not doing it to your satisfaction please contact me if you do not have a more suitable mechanism to bring them into compliance.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David J Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925



August 21, 2014

76930-40/Mt Polley

Imperial Metals Corporation 200-580 Hornby Street, Vancouver, BC V6C3B6 604.669,8959

Sent by E:mail only dparsons@imperialmetals.com

Dear Don Parsons:

Enclosed is an Order issued under Section 88(1) of the Water Act.

This order replaces and extends the time period needed for completion of ongoing work to meet the objectives identified in the August 5<sup>th</sup> 3:15 pm order. In addition it provides for additional clarification regarding works needed to achieve the intention of that order. Progress of the activities will be monitored and the order may be extended, modified or cancelled at any time based upon the monitoring results.

Suitably qualified professionals include but are not limited to Geoscientists, Engineers, Archeaologists, Agrologists and Biologists. Robin Hoffos and I met with your representatives on Quesnel Lake to review the ongoing containment and removal of debris on Quesnel Lake including the proposal to improve the ramp at the West Fraser Log dewatering site. The proposals as described were satisfactory under the supervision of the Professional Biologist who was identified as Brian Aitken RP Bio and Professional Engineer Emily Cheung. We have not received the requested information from them but time is of the essence. We have not received information concerning the Professional oversight of operations on Polley Lake. Please maintain a complete record of the activities relating to this order which are to be supplied to us upon request.

Specific issues identified under during the review included Kokanee Shore Spawning, Cariboo Island, embedded debris at the mouth of Hazeltine Creek, natural debris, the installation of a ramp to remove debris, and the placement of light debris above the high water mark. The Williams Lake Indian band has requested monitoring of the debris removal on Cariboo Island due the potential for the destruction or loss of artifacts exposed below and above the high water mark. A contact has been provided to your representatives for you to address this issue. Brian Aitken indicated the intention to collect video evidence for "before and after" work is completed and we wish to receive a copy of this information upon completion of the work.

.../2

I remind you that embedded debris removal within Polley Lake, Hazeltine Creek and at the Mouth of Hazeltine Creek where it enters Quesnel Lake must be approved by the Environmental Protection Division of the Ministry of Environment prior to being completed.

This order is ancillary to the jurisdictions of the Ministry of Mines and Ministry of Environment and it is expected that overlap will occur between the instructions from these Ministries. Works are to be consistent with the instructions from these Ministries and Federal agencies. This order facilitates the activities that will be approved under the Land act and Forest Act.

An appeal to this order may be taken only as directed within Section 92 of the *Water Act*. An appeal shall not act as a stay of execution of the order.

This order does not preclude legal proceedings.

Yours truly,

David Weir

Assistant Regional Water Manager

DW/yp

ec:  $preoc5.ops1@gov.bc.ca , \underline{Jennifer.Mcguire@gov.bc.ca} , \underline{Al.Hoffman@gov.bc.ca} , \underline{Rodger.Stewart@gov.bc.ca} , \underline{Robin.Hoffos@gov.bc.ca}$ 

Enclosure: August 5th Order and August 20th order.

# **ENGINEER'S ORDER**

## SECTION 88 OF THE WATER ACT

- WHEREAS Imperial Metals Corporation are the registered owners of Mount Polley Mine, and
- WHEREAS Imperial Metals Corporation you have, or permitted to have, allowed debris to block the outlet of Polley Lake, enter Hazeltine Creek and enter into Quesnel Lake, and
- WHEREAS a person commits an offence under Section 93(2) (p) and Section 94(1) (g) of the Water Act who:
  - (p) fails to do an act or thing required to be done by the person under this Act or under an order of the comptroller, regional water manager, engineer or officer;
  - (g) places, maintains or makes use of an obstruction in the channel of a stream without authority, and
- WHEREAS I, David Weir, Engineer under the Water Act, am empowered under Section 88 (1) (i) and (l) of the Water Act to:
  - (j) order the release of stored or impounded water that the engineer considers a danger to life and property;
  - (l) order a person to remove from a stream any substance or thing that the person has put or permitted to get into the stream;

# I HEREBY ORDER Imperial Metals Corporation to:

1. Under the direction of suitably qualified professionals licenced in the Province of British Columbia: collect and remove such debris from Hazeltine Creek, Quesnel Lake and Polley Lake, as a result of the Mt Polley tailings pond failure; as would threaten public safety, road infrastructure and stream channel stability. Included in this order is approval for the installation and removal of a boat ramp at the West Fraser reload site as discussed during FLNRO joint inspection of August 19th 2014. The manner and nature of these activities is to be suitable to impacted parties, Federal Agencies and the Province.

2. Under the direction of suitably, qualified and experienced professionals, licenced in the Province of British Columbia: maintain the lake level of Polley Lake in a manner that prevents further mass movement of material from Polley Lake and Hazeltine Creek.

By the 31st day of October 2014.

Dated at Williams Lake, British Columbia, this 20th day of August 2014.

David Weir

MW.

Engineer under the Water Act

## Attachments:

August 5th 3:15pm order that was sent via Penny Carpenter.

Hello, at this time it is our understanding that Stephen Rothman has the authority under the mines act to order the necessary measures to contain and remove the debris in Quesnel Lake and to authorize the management of the water level on Polley lake.

However: to remove any confusion and to address any shortcoming that might exist between the Mines Act, Water Act and the MOU that guides there coordination I order under Section 85 as follows:

Subject to the requirements of the Mines Act and MOU <a href="http://iwww.cnv.gov.bc.ca/wsd/sla\_mou/mempr\_mou%202009.pdf">http://iwww.cnv.gov.bc.ca/wsd/sla\_mou/mempr\_mou%202009.pdf</a> and as it is in the public interest for the protection of safety and the integrity of Hazeltine Creek, Polley Lake, Quesnel Lake and the Quesnel River, recognizing the Mt Polley Mine's willingness to undergo the required work at their own cost and save the province harmless:

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- 6) This order doe not authorize the entry onto private lands.

If necessary a more formal and document can be provided at a future date and in the absence of any direction to the contrary it should be considered to be expired as of August 22<sup>nd</sup> 2014 if not renewed. In addition to the general protection of public interest the specific purpose is to protect the bridge at Likely and to prevent secondary mass movements of material from the failure.

If there are any questions or you feel there is error please contact me. Keeping in mind the rushed nature of this document.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC <u>David.J.Weir@gov.bc.ca</u> (250) 398 4924 Cell 250 267-5925

From: Penny Carpenter s.22

Sent: Tuesday, August 5, 2014 12:46 PM

To: Weir, David J FLNR:EX Subject: RE: Mt Polley

## Hi David

The Mines Gentleman Steve Rothman will be contacting you regarding the breach of the tailing pond. He will be able to fill you in and maybe it will help the work load so things are not getting duplicated.

Penny Carpenter

From: Weir, David J FLNR:EX [mailto:David.J.Weir@gov.bc.ca]

Sent: August-05-14 11:41 AM To: XT:Carpenter, Penny FLNR:IN

Subject: Mt Polley

As per our discussion

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David J Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From:

Weir, David J FLNR:EX

Sent:

Wednesday, September 10, 2014 3:41 PM

To:

Shook, James G ENV:EX

Subject:

Mt Polley water act order

Attachments:

Imperial Metals - Order.pdf

You probably do not need this information but as per our conversation today I thought I would share it.

The second order was issued to address 93 (2) (p) failure to comply with the first order and Sec 94 (1) (g)placement of an obstruction in a stream (and lake ). The remedies used are under Sec 88 (1) (j) release the stored water and 88 (l) remove substance put into stream.

The first order uses sec 85 because that is the sec that allows me to issue orders. I did not speak to the issue of stream channel modification as the orders are focussed on the protection of the public from future impacts. This order expires at the end of October and if an extension is needed and if a mitigation plan is available I may speak to the issue of changes in and about a stream and the order of stream channel mitigation.

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August 21, 2014

76930-40/Mt Polley

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Sent by E:mail only dparsons@imperialmetals.com

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Yours truly,

David Weir

Assistant Regional Water Manager

DW/yp

ee:  $\underline{preoc5.ops1@gov.bc.ca} \ , \ \underline{Jennifer.Mcguire@gov.bc.ca} \ , \ \underline{Al.Hoffman@gov.bc.ca} \ , \ \underline{Rodger.Stewart@gov.bc.ca} \ , \ \underline{Robin.Hoffos@gov.bc.ca}$ 

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David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC <u>David.J.Weir@gov.bc.ca</u> (250) 398 4924 Cell 250 267-5925

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**Sent:** August-05-14 11:41 AM **To:** XT:Carpenter, Penny FLNR:IN

Subject: Mt Polley

As per our discussion

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David.J.Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From:

Glaum, Doug FLNR:EX

Sent:

Thursday, September 11, 2014 11:27 AM

To: Cc: Weir, David J FLNR:EX Acheson, Steven FLNR:EX

Subject:

RE: Mt Polley

Hi David:

Just to be clear, we have barely been involved in this project and have not received any indication of the impact zone/area of concern (a GeoBC commitment) nor have we received a permit application. Our advice to date has consisted of trying to get all studies contained in a single permit instead of two for expediency's sake; and trying to gather the FN support by letter as part of the application instead of the Archaeology Branch having to refer the application to FN for comment.

We would see no reason for any archaeological studies in areas with no potential to contain sites, which would probably cover materials redeposited by the flooding and the alluvial fan, however the proponent's archaeological consultants may have additional information on this.

Doug Glaum Archaeology Branch Ministry of Forests, Lunds and Natural Resource Operations 1250 Quadro (250) 953-3357 Visit our website

From: Weir, David J FLNR:EX

Sent: Thursday, September 11, 2014 10:43 AM

To: Bunce, Hubert ENV:EX; Glaum, Doug FLNR:EX; 'adam.kantakis@williamslakeband.ca'

Cc: Vanderburgh, Ken FLNR:EX

Subject: Mt Polley

I am concerned with the pace that the company is proceeding to fulfill the requirement of the Water Act order for clean up of Hazeltine Creek. While it is good that the permit is being expedited I can see no risk to the resource if Adam is given verbal approval to begin pit testing the high potential sites. I am confused as to why any delay would occur with the excavation of any deposited materials and also confused as to why those areas within the active alluvial plane would be delayed. I am confused why the upper pond would have any assessment required. However; I would assume that monitoring and artifact recovery should be a top priority for these pond areas even though both the event and the active alluvial plane would have destroyed continuity any artifacts would have cultural significance.

Why not allow work to go ahead in the most disturbed areas and give Adam verbal to begin testing on the undisturbed areas on the shoulders of the fan tomorrow. Have Arch site monitors observe the excavations and recover artifacts at the gravel screening area if any are discovered?

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David.J. Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From:

Weir, David J FLNR:EX

Sent:

Thursday, September 11, 2014 11:25 AM

To: Cc: Fenwick, Leigh-Ann FLNR:EX Vanderburgh, Ken FLNR:EX

Subject:

FW: Mt Polley

Hello, as discussed please find the attached. Next week may be the best weather for the completion of the excavations and after that we do not know what the weather will bring. The sediment may pose a potential risk to human health and cannot be retrieved from the lake at some future time. A water act order exists requiring the removal of the material that entered Hazeltine creek. The Arch permit is delaying the works. If the FN's participating in the Environmental working group are comfortable with works progressing or works progressing subject to conditions I can and will instruct the Company to comply immediately with the water act order in this regard.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David.J.Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From: Weir, David J FLNR:EX

Sent: Thursday, September 11, 2014 10:43 AM

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David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC <u>David.J.Weir@gov.bc.ca</u> (250) 398 4924 Cell 250 267-5925

From:

Hill. Douglas J ENV:EX

Sent:

Thursday, September 11, 2014 11:35 AM

To:

Weir, David J FLNR:EX

Subject:

FW: Seeding of MPMC impacted areas

fyi

From: Bunce, Hubert ENV:EX

Sent: Thursday, September 11, 2014 10:04 AM

To: 'Nikl, Lee'; 'Jack Love'; 'Dale Reimer'; 'Colleen Hughes'

Cc: Fenwick, Leigh-Ann FLNR:EX; Epps, Deb ENV:EX; 'kirk.dressler@williamslakeband.ca'; 'Julia Banks

[nrcoordinator@xatsull.com]'; XT:HLTH Waters, Shannon HLTH:IN; 'Aaron.Higginbottom@williamslakeband.ca'; 'Lisa.Montgomeryreid@fnha.ca'; 'Brian Olding'; Metcalfe, Shelley ENV:EX; Hill, Douglas J ENV:EX; XT:Sobol, Isaac Dr.

HLTH:IN; \$.22 : Swan, Chris L ENV:EX; McGuire, Jennifer ENV:EX; 'Amy Crook';

'Rhonda.Leech@williamslakeband.ca'; 'Rick Holmes'; 'Linda Pillsworth'; 'Cheryl.Stump@fnha.ca'; XT:Jock, Richard

HLTH:IN; McGuire, Jennifer ENV:EX; s.22 Matscha, Gabriele ENV:EX

**Subject:** Seeding of MPMC impacted areas

In consideration of the information I have before me at this time and the need for prompt action to abate impacts I support the action to hydro seed the mine impacted materials along the course of Hazeltine Creek and as possible on the Polley lake plug and in the Tailings Storage Facility

I have considered the concerns raised by the members of the Env Working Group and find the possible risks to grass consuming animals to be outweighed by the following:

There is an immediate need to limit the further loss of sediment into Hazeltine Creek and Quesnell lake to protect the drinking water quality and the aquatic/ fisheries values downstream in advance of further rainfall events and winter conditions. This is an action that can take place in the impacted zone safely at this time;

The proposed planting of grass seed is an accepted erosion protection measure, it is not a final vegetative solution therefore exposure to ungulates will be limited. The opportunity to achieve grass germination is short and therefore the sooner grass seed can be distributed the better. Research on other mine sites (some going back as far as the 1970s) where ungulates spend a modest portion of their time grazing do not report a high risk of metals uptake;

Community and First Nation concern regarding need for prompt action and to protect the more immediate concerns relative to the more significant fishery resource of Quesnel Lake outweigh the less understood possible impacts of short term exposure of ungulates in a more limited area;

Failure to take immediate action at this time could be interpreted as contradicting the order to abate the discharge of mine affected materials and the subsequent advisory letter.

Resulting from this seeding project MPMC need to conduct sampling of the resulting vegetation to determine what level of metal uptake may have occurred and correlate that to metals levels in the associated sediment.

The Ministry of Environment may conduct additional sampling and data review as it deems necessary to verify the impacts of the seeding.

Consider the emergent nature of the work a short turn around response has been required in this case. MPMC should provide as much prior notification of specific actions as possible.

MOE plans to hold a conference call to discuss this issue further with Environmental Working group

Hubert Bunce
A/Mining Director, Environmental Protection
Regional Operations
ph (250) 751-3254 fax (250) 751-3103
2080A Labieux Road
Nanaimo BC V9T 6J9
Please consider the environment before printing this email
BC Pollution Free

From:

Hill, Douglas J ENV:EX

Sent:

Thursday, September 11, 2014 11:34 AM

To:

Weir, David J FLNR:EX

Subject:

FW: Review of Interim Measures

From: Bunce, Hubert ENV:EX

Sent: Wednesday, September 10, 2014 5:39 PM

**To:** 'Dale Reimer'; Hill, Douglas J ENV:EX; Hoffman, Al MEM:EX; Rothman, Stephen MEM:EX; 'Ann Louie'; 'Bev Sellars'; 'Steve Robertson'; 'Brian Kynoch'; 'Nikl, Lee'; 'donparsons@imperialmetals.com'; 'Art Frye'; Fenwick, Leigh-Ann FLNR:EX; Metcalfe, Shelley ENV:EX; Demchuk, Tania MEM:EX; Bellefontaine, Kim MEM:EX; Howe, Diane J MEM:EX; McGuire,

Jennifer ENV:EX

Subject: RE: Review of Interim Measures

The Ministry of Environment (MOE) acknowledges that MPMC has been working to abate the discharge and its impacts to the receiving environment but is of the opinion that more could be done. The continued discharge of turbid water into Quesnel Lake is obviously of primary concern and any and all possible actions that can be implemented should be done as promptly as possible. MOE obviously does not want activities undertaken that are unsafe and as such we interested to see that acceptable safe work procedures are fully developed and implemented. In consideration of this agreement to the priority drawdown of Polley Lake with discharge into Hazeltine Creek was accepted to reduce the safety risks. MOE is keen to review and comment on the latest version of the Erosion and Sediment Control Plan which we understand will be provided imminently. Implementation of the related control features is a priority and those actions that can be implemented now should be.

Obviously MOE cannot provide direction on specific actions that need to be taken but continued delays on the company's proposed installation of works such as the silt curtain at the outlet of Hazeltine Creek have been continuing for weeks now and as such this is unacceptable from an environmental perspective. These are works that would help mitigate the impacts related to the pump down of Polley Lake, and others from the Tailings Storage Facility and along the course of Hazeltine Creek. While I can appreciate that significant resources are being applied to the issues already possibly more need to be considered to complete safety works and procedures, ensure monitoring and reporting is completed, and installation of more control and treatment works more promptly.

## **Hubert Bunce**

A/Mining Director, Environmental Protection Regional Operations ph (250) 751-3254 fax (250) 751-3103 2080A Labieux Road Nanaimo BC V9T 6J9

Please consider the environment before printing this email BC Pollution Free

From: Dale Reimer [mailto:dreimer@mountpolley.com]

Sent: Wednesday, September 10, 2014 3:43 PM

To: Bunce, Hubert ENV:EX; Hill, Douglas J ENV:EX; Hoffman, Al MEM:EX; Rothman, Stephen MEM:EX; Ann Louie; Bev

Sellars; Steve Robertson; Brian Kynoch; Nikl, Lee; donparsons@imperialmetals.com; Art Frye

Subject: Review of Interim Measures

Please see attached letter regarding a review of interim measures implemented for the Polley Lake draw down.

Regards: Dale



Dale Reimer General Manager Mount Polley Mining Corporation Box 12 Likely, B.C. VOt. 1NO Ph. 250-790-2600 Celi 250-305-8530

From:

Hill, Douglas J ENV:EX

Sent:

Thursday, September 11, 2014 11:31 AM

To:

'Dale Reimer'

Cc:

Weir, David J FLNR:EX

Subject:

RE: Review of Interim Measures

Dale, I forwarded your note to David Weir of Water Stewardship. He is the best contact for FLNR regarding Water Act issues.

djh

From: Dale Reimer [mailto:dreimer@mountpolley.com]

Sent: Wednesday, September 10, 2014 3:43 PM

To: Bunce, Hubert ENV:EX; Hill, Douglas J ENV:EX; Hoffman, Al MEM:EX; Rothman, Stephen MEM:EX; Ann Louie; Bev

Sellars: Steve Robertson; Brian Kynoch; Nikl, Lee; donparsons@imperialmetals.com; Art Frye

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From:

Hill, Douglas J ENV:EX

Sent:

Thursday, September 11, 2014 11:30 AM

To:

Weir, David J FLNR:EX

Subject:

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Attachments:

ScanToEmail\_0164.pdf

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Sent: Wednesday, September 10, 2014 3:43 PM

To: Bunce, Hubert ENV:EX; Hill, Douglas J ENV:EX; Hoffman, Al MEM:EX; Rothman, Stephen MEM:EX; Ann Louie; Bev

Sellars; Steve Robertson; Brian Kynoch; Nikl, Lee; donparsons@imperialmetals.com; Art Frye

Subject: Review of Interim Measures

Please see attached letter regarding a review of interim measures implemented for the Polley Lake draw down.

Regards: Dale



Date Reimer General Manager Mount Polley Mining Corporation Box 12 Likely, B.C. VOL 1NO Ph. 250-790-2600 Cell 250-305-8530



# Mount Polley Mining Corporation IMPERIAL METALS CORPORATION

September 10, 2014

Ministry of Environment
Ministry of Energy and Mines
Ministry of Forests, Lands and Natural Resource Operations

Re: REVIEW OF INTERIM MEASURES BEING IMPLEMENTED FOR

POLLEY LAKE DRAW-DOWN

Dear Sirs,

As you are aware from our correspondence of August 13, 2014, Mount Polley Mining Corporation (MPMC) have been reducing the water level of Polley Lake behind a plug formed from the Tailings Storage Facility (TSF) Breach of August 4, 2014. This dewatering was deemed necessary by our engineering advisors, BGC Engineering Inc. and is consistent with an order under the *Water Act*.

As you are no doubt aware, the process of dewatering Polley Lake has resulted in the discharge of turbid water into Quesnel Lake. We are concerned that these actions may conflict with other statutory obligations. MPMC has been working expeditiously towards developing an Erosion and Sediment Control Plan (ESCP) for Hazeltine Creek which we hope will reduce the sediment loads into Quesnel Lake as we continue to reduce the water level of Policy Lake. We are seeking your direction to assist us in confirming or revising our present actions.

At present, Polley Lake is approximately 1.3 m above its natural water level and our engineers are concerned that this might pose a safety and property risk. In particular, they are concerned that the stability of the sediment plug could be comprised by:

- · Internal crosion caused by seepage of water through the sediment plug.
- Erosion from external surface water flow onto the sediment plug leading to downcutting.
- Because fall rains are expected to add to Polley Lake, the dewatering of the lake remains necessary to create freeboard in advance.

in these circumstances, we are concerned that continuing with our dewatering programs to fulfill certain regulatory requirements may result in non-compliance with other current statutory

obligations. Given that we have been working with you with respect to our response programs, we respectfully request, on an urgent basis, that you provide us with clear direction as to the actions we are taking.

Mount Polley Mining Corporation

Dale Reimer

General Manager

From:

O'Sullivan, Susan FLNR:EX

Sent:

Thursday, September 11, 2014 1:14 PM

To:

Weir, David J FLNR:EX; Glaum, Doug FLNR:EX

Subject:

RE: Mt Polley

Dave, can you send me the document referenced in the email.

s.16

From: Weir, David J FLNR:EX

Sent: Thursday, September 11, 2014 11:42 AM

To: Glaum, Doug FLNR:EX
Cc: O'Sullivan, Susan FLNR:EX
Subject: FW: Mt Polley

I will get after the company on this today, s.16

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake, BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Weir, David J FLNR:EX

Sent: Thursday, September 11, 2014 11:25 AM

**To:** Fenwick, Leigh-Ann FLNR:EX **Cc:** Vanderburgh, Ken FLNR:EX

Subject: FW: Mt Polley

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Sent: Thursday, September 11, 2014 10:43 AM

To: Bunce, Hubert ENV:EX; Glaum, Doug FLNR:EX; 'adam.kantakis@williamslakeband.ca'

Cc: Vanderburgh, Ken FLNR:EX

Subject: Mt Polley

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David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David.J.Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From:

Weir, David J FLNR:EX

Sent:

Thursday, September 11, 2014 12:48 PM

To:

Bunce, Hubert ENV:EX

Subject:

FW: Mt Polley permit

FYI.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David J. Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From: Glaum, Doug FLNR:EX

Sent: Thursday, September 11, 2014 12:20 PM

To: Weir, David J FLNR:EX; 'Adam.kantakis@williamslakeband.ca'; Forgeng, Eric E FLNR:EX

**Cc:** Fenwick, Leigh-Ann FLNR:EX **Subject:** RE: Mt Poliey permit

I've assigned Eric Forgeng to oversee this permit application. He will be your contact.

Doug Glaum

Archaeology Branch

Ministry of Forests, Lands and Natural Resource Operations

1250 Quadra (250) 953 3357

Visit our website

From: Weir, David J FLNR:EX

**Sent:** Thursday, September 11, 2014 11:51 AM **To:** 'Adam.kantakis@williamslakeband.ca'

Cc: Glaum, Doug FLNR:EX; Fenwick, Leigh-Ann FLNR:EX

Subject: Mt Polley permit

I understand that the permit has not been applied for yet? Please submit the application immediately. If you are worried about its completness please call Doug and I believe he will help you out.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC <a href="mailto:David.J.Weir@gov.bc.ca">David.J.Weir@gov.bc.ca</a> (250) 398 4924 Cell 250 267-5925

From:

Dale Reimer < dreimer@mountpolley.com>

Sent:

Thursday, September 11, 2014 12:10 PM

To:

Weir, David J FLNR:EX

Subject:

RE: Review of Interim Measures

Thanks David, will do. Regards: Dale

From: Weir, David J FLNR:EX [mailto:David.J.Weir@gov.bc.ca]

**Sent:** September-11-14 11:59 AM **To:** Hill, Douglas J ENV:EX; Dale Reimer **Cc:** Fenwick, Leigh-Ann FLNR:EX

Subject: RE: Review of Interim Measures

Hello Dale,

With respect to the Water Act order please forward copies of documents to me as well as to those other contacts you have been given relating to the documents. I have been working with Penny and Russ but we did meet onsite.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake, BC
David J Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Hill, Douglas J ENV:EX

Sent: Thursday, September 11, 2014 11:31 AM

To: 'Dale Reimer'

Cc: Weir, David J FLNR:EX

Subject: RE: Review of Interim Measures

Dale, I forwarded your note to David Weir of Water Stewardship. He is the best contact for FLNR regarding Water Act issues.

dih

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Sellars; Steve Robertson; Brian Kynoch; Nikl, Lee; donparsons@imperialmetals.com; Art Frye

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Daie Reimer General Manager Mount Polley Mining Corporation Box 12 Likely, B.C. VOL 1NO Ph. 250-790-2600 Cell 250-305-8530

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Cc:

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Subject:

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David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake, BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From:

Forgeng, Eric E FLNR:EX

Sent:

Thursday, September 11, 2014 2:38 PM 'Remi Farvacque'; Weir, David J FLNR:EX

Cc:

"Wendy Slavica"; 'Light Jim (Jim.Light@snclavalin.com)'

Subject:

RE: Mt Polley permit

Thanks very much for the update, Remi.

Best, Eric

Eric Forgeng, MA | Archaeologist / Heritage Resource Specialist

**Archaeology Branch** | Ministry of Forests, Lands and Natural Resource Operations Phone: 250-953-3362 | Fax: 250-953-3340 | e-mail: eric.forgeng@gov.bc.ca

Unit 3 - 1250 Quadra Street, Victoria BC V8W 2K7 | PO Box 9816 Stn Prov Govt, Victoria, BC V8W 9W3

Visit our website at: http://www.for.gov.bc.ca/archaeology/index.htm

From: Remi Farvacque [mailto:R.Farvacque@archercrm.ca]

Sent: Thursday, September 11, 2014 14:35

To: Weir, David J FLNR; EX

Cc: Forgeng, Eric E FLNR:EX; Wendy Slavica; Light Jim (Jim.Light@snclavalin.com)

Subject: RE: Mt Polley permit

Good afternoon David:

Reading through the thread, Wendy Slavica (cc'ed here) will be the Permit Holder. We have not submitted the Permit as of yet as we were waiting for Letters of Support from the affect three First Nations. Our intent (at this time) is to submit the Permit tomorrow with or without letters of support.

Rémi Farvacque, M.Sc., RPCA

Director

ARCHER CRM Partnership

Tel: 1.250.261.5584 Cell: 1.250.793.0036 Fax: 1.250.261.5474



Our Burnaby Office is now open ... More details at www.archercrm.ca

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From: Forgeng, Eric E FLNR:EX [mailto:Eric.Forgeng@gov.bc.ca]

Sent: September-11-14 2:30 PM To: Weir, David J FLNR:EX

Cc: Remi Farvacque

Subject: FW: Mt Polley permit

Hi David,

My understanding is that Remi Farvacque of Archer CRM would be applying for the HCA permit, his email is R.Farvacque@archercrm.ca

Please feel free to call if I can be of any help in the meantime.

Best, Eric

Eric Forgeng, MA | Archaeologist / Heritage Resource Specialist

Archaeology Branch | Ministry of Forests, Lands and Natural Resource Operations

Phone: 250 953-3362 | Fax: 250-953-3340 |e-mail: eric.forgeng@gov.bc.ca

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From: Glaum, Doug FLNR:EX

Sent: Thursday, September 11, 2014 12:20

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**Cc:** Fenwick, Leigh-Ann FLNR:EX **Subject:** RE: Mt Polley permit

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Doug Glaum
Archaeology Branch
Ministry of Forests, Lands and Natural Resource Operations

1250 Quadra

(250) 953-3357 Visit our website

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Cell 250 267-5925

From:

Weir, David J FLNR:EX

Sent:

Thursday, September 11, 2014 2:47 PM

To:

'Remi Farvacque'

Subject:

RE: Mt Polley permit

Okay. I am away tomorrow but will be back on Monday if issues arise.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David.J.Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From: Remi Farvacque [mailto:R.Farvacque@archercrm.ca]

Sent: Thursday, September 11, 2014 2:35 PM

To: Weir, David J FLNR:EX

Cc: Forgeng, Eric E FLNR:EX; Wendy Slavica; Light Jim (Jim.Light@snclavalin.com)

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From:

Weir, David J FLNR:EX

Sent:

Thursday, September 11, 2014 2:44 PM

To:

O'Sullivan, Susan FLNR:EX

Subject:

RE: Mt Polley

Attachments:

Imperial Metals - Order.pdf

I can send you the order but Mt Polley has not applied for the Arch permit yet.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake, BC
David.J.Weir@gov.bc.ca
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Cell 250 267-5925

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Williams Lake, BC
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(250) 398 4924
Cell 250 267-5925



August 21, 2014

76930-40/Mt Polley

Imperial Metals Corporation 200-580 Hornby Street, Vancouver, BC V6C3B6 604.669.8959

Sent by E:mail only <a href="mailto:dparsons@imperialmetals.com">dparsons@imperialmetals.com</a>

Dear Don Parsons:

Enclosed is an Order issued under Section 88(1) of the Water Act.

This order replaces and extends the time period needed for completion of ongoing work to meet the objectives identified in the August 5<sup>th</sup> 3:15 pm order. In addition it provides for additional clarification regarding works needed to achieve the intention of that order. Progress of the activities will be monitored and the order may be extended, modified or cancelled at any time based upon the monitoring results.

Suitably qualified professionals include bnt are not limited to Geoscientists, Engineers, Archeaologists, Agrologists and Biologists. Robin Hoffos and I met with your representatives on Quesnel Lake to review the ongoing containment and removal of debris on Quesnel Lake including the proposal to improve the ramp at the West Fraser Log dewatering site. The proposals as described were satisfactory under the supervision of the Professional Biologist who was identified as Brian Aitken RP Bio and Professional Engineer Emily Cheung. We have not received the requested information from them but time is of the essence. We have not received information concerning the Professional oversight of operations on Polley Lake. Please maintain a complete record of the activities relating to this order which are to be supplied to us upon request.

Specific issues identified under during the review included Kokanee Shore Spawning, Cariboo Island, embedded debris at the mouth of Hazeltine Creek, natural debris, the installation of a ramp to remove debris, and the placement of light debris above the high water mark. The Williams Lake Indian hand has requested monitoring of the debris removal on Cariboo Island due the potential for the destruction or loss of artifacts exposed below and above the high water mark. A contact has been provided to your representatives for you to address this issue. Brian Aitken indicated the intention to collect video evidence for "before and after" work is completed and we wish to receive a copy of this information upon completion of the work.

.../2

I remind you that embedded debris removal within Pollcy Lake, Hazeltine Creek and at the Mouth of Hazeltine Creek where it enters Quesnel Lake must be approved by the Environmental Protection Division of the Ministry of Environment prior to being completed.

This order is ancillary to the jurisdictions of the Ministry of Mines and Ministry of Environment and it is expected that overlap will occur between the instructions from these Ministries. Works are to be consistent with the instructions from these Ministries and Federal agencies. This order facilitates the activities that will be approved under the Land act and Forest Act.

An appeal to this order may be taken only as directed within Section 92 of the Water Act. An appeal shall not act as a stay of execution of the order.

This order does not preclude legal proceedings.

Yours truly,

David Weir

Assistant Regional Water Manager

DW/yp

ec: <u>preoc5.ops1@gov.bc.ca</u>, <u>Jennifer.Meguire@gov.bc.ca</u>, <u>Al.Hoffman@gov.bc.ca</u>, Rodger.Stewart@gov.bc.ca, <u>Robin.Hoffos@gov.bc.ca</u>

Enclosure: August 5th Order and August 20th order.

# **ENGINEER'S ORDER**

### SECTION 88 OF THE WATER ACT

- WHEREAS Imperial Metals Corporation are the registered owners of Mount Polley Mine, and
- WHEREAS Imperial Metals Corporation you have, or permitted to have, allowed debris to block the outlet of Polley Lake, enter Hazeltine Creek and enter into Quesnel Lake, and
- WHEREAS a person commits an offence under Section 93(2) (p) and Section 94(1) (g) of the Water Act who:
  - (p) fails to do an act or thing required to be done by the person under this Act or under an order of the comptroller, regional water manager, engineer or officer;
  - (g) places, maintains or makes use of an obstruction in the channel of a stream without authority, and
- WHEREAS I, David Weir, Engineer under the Water Act, am empowered under Section 88 (1) (j) and (l) of the Water Act to:
  - (j) order the release of stored or impounded water that the engineer considers a danger to life and property;
  - (l) order a person to remove from a stream any substance or thing that the person has put or permitted to get into the stream;

# I HEREBY ORDER Imperial Metals Corporation to:

1. Under the direction of suitably qualified professionals licenced in the Province of British Columbia: collect and remove such debris from Hazeltine Creek, Quesnel Lake and Polley Lake, as a result of the Mt Polley tailings pond failure; as would threaten public safety, road infrastructure and stream channel stability. Included in this order is approval for the installation and removal of a boat ramp at the West Fraser reload site as discussed during FLNRO joint inspection of August 19th 2014. The manner and nature of these activities is to be suitable to impacted parties, Federal Agencies and the Province.

2. Under the direction of suitably, qualified and experienced professionals, licenced in the Province of British Columbia: maintain the lake level of Polley Lake in a manner that prevents further mass movement of material from Polley Lake and Hazeltine Creek.

By the 31st day of October 2014.

Dated at Williams Lake, British Columbia, this 20th day of August 2014.

David Weir

MW.

Engineer under the Water Act

### Attachments:

August 5th 3:15pm order that was sent via Penny Carpenter.

Hello, at this time it is our understanding that Stephen Rothman has the authority under the mines act to order the necessary measures to contain and remove the debris in Quesnel Lake and to authorize the management of the water level on Polley lake.

However: to remove any confusion and to address any shortcoming that might exist between the Mines Act, Water Act and the MOU that guides there coordination I order under Section 85 as follows:

Subject to the requirements of the Mines Act and MOU <a href="http://iwww.env.gov.bc.ca/wsd/sla\_mou/mempr\_mou%202009.pdf">http://iwww.env.gov.bc.ca/wsd/sla\_mou/mempr\_mou%202009.pdf</a> and as it is in the public interest for the protection of safety and the integrity of Hazeltine Creek, Polley Lake, Quesnel Lake and the Quesnel River, recognizing the Mt Polley Mine's willingness to undergo the required work at their own cost and save the province harmless:

- 1) Under the direction of suitably qualified professionals licenced in the Province of BC the corporation is ordered to collect and remove such debris from Quesnel Lake, as a result of the Mt Polley tailings pond failure, as would threaten road infrastructure and stream channel stability. The manner and nature to be suitable to impacted parties Federal Agencies and the Province.
- 2) Under the direction of suitably qualified and experienced professionals licenced in the Province of BC; maintain the Lake level of Polley Lake in a manner that prevents further mass movement of material from Polley lake and Hazeltine Creek.
- 3) This order does not superseded any other legislation, agency, or government authority nor does it save them harmless.
- 4) This order is not intended to mitigate or limit the future punitive action of government with respect any non compliance by Mt Polley Mine.
- 5) This order is a temporary measure and is subject to cancelation or modification under the authority of the Water Act Mines Act or the MOU.
- 6) This order doe not authorize the entry onto private lands.

If necessary a more formal and document can be provided at a future date and in the absence of any direction to the contrary it should be considered to be expired as of August 22<sup>nd</sup> 2014 if not renewed. In addition to the general protection of public interest the specific purpose is to protect the bridge at Likely and to prevent secondary mass movements of material from the failure.

If there are any questions or you feel there is error please contact me. Keeping in mind the rushed nature of this document.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC <u>David.J.Weir@gov.bc.ca</u> (250) 398 4924 Cell 250 267-5925

From: Penny Carpenter \$.22

Sent: Tuesday, August 5, 2014 12:46 PM

To: Weir, David J FLNR:EX Subject: RE: Mt Polley

### Hi David

The Mines Gentleman Steve Rothman will be contacting you regarding the breach of the tailing pond. He will be able to fill you in and maybe it will help the work load so things are not getting duplicated.

Penny Carpenter

From: Weir, David J FLNR:EX [mailto:David.J.Weir@gov.bc.ca]

Sent: August-05-14 11:41 AM To: XT:Carpenter, Penny FLNR:IN

Subject: Mt Polley

As per our discussion

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David.J.Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From:

Bunce, Hubert ENV:EX

Sent:

Thursday, September 11, 2014 4:34 PM

To:

Forgeng, Eric E FLNR:EX

Cc:

Weir, David J FLNR:EX; Glaum, Doug FLNR:EX; 'Adam.kantakis@williamslakeband.ca';

Fenwick, Leigh-Ann FLNR:EX; 'Nikl, Lee'; Batten, Justine FLNR:EX

Subject:

RE: Mt Polley permit

Attachments:

Letter of Understanding Soda Creek, Williams Lake.pdf

Hi Eric, thanks for taking this on

Whatever can be done to speed up this application process would be appreciated. Mount Polley Mine Corporation has received letters of agreement from the Williams Lake and Soda Creek Indian bands thus negating the consultation period for these bands as I understand it. The province, the mine, and the community are keen to see activity move forward on actions to protect against further degradation of the environment

The province has signed a Letter of Understanding with the WLiB and SCIB (attached) to work at a govt to govt level and

## **Hubert Bunce**

A/Mining Director, Environmental Protection Regional Operations ph (250) 751-3254 fax (250) 751-3103 2080A Labieux Road Nanaimo BC V9T 6J9 Please consider the environment before printing this email BC Pollution Free

From: Weir, David J FLNR:EX

Sent: Thursday, September 11, 2014 12:48 PM

To: Bunce, Hubert ENV:EX
Subject: FW: Mt Polley permit

FYI.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David J. Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From: Glaum, Doug FLNR:EX

Sent: Thursday, September 11, 2014 12:20 PM

To: Weir, David J FLNR:EX; 'Adam.kantakis@williamslakeband.ca'; Forgeng, Eric E FLNR:EX

**Cc:** Fenwick, Leigh-Ann FLNR:EX **Subject:** RE: Mt Polley permit

I've assigned Eric Forgeng to oversee this permit application. He will be your contact.

Doug (Jlaum
Archaeology Branch
Ministry of Forests, Lands and Natural Resource Operations
1250 Quadra
(250) 953-3357
Visit our website

From: Weir, David J FLNR:EX

**Sent:** Thursday, September 11, 2014 11:51 AM **To:** 'Adam.kantakis@williamslakeband.ca'

Cc: Glaum, Doug FLNR:EX; Fenwick, Leigh-Ann FLNR:EX

Subject: Mt Polley permit

I understand that the permit has not been applied for yet? Please submit the application immediately. If you are worried about its completness please call Doug and I believe he will help you out.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David, J. Weir@gov. bc. ca (250) 398 4924 Cell 250 267-5925







# Letter of Understanding between

## Soda Creek Indian Band, Williams Lake Indian Band

#### And

#### The Province of British Columbia

## **Guiding principles:**

The Soda Creek Indian Band and the Williams Lake Indian Band (collectively, the "First Nations") and the Province of British Columbia ("British Columbia") agree to work in partnership, on a government-to-government basis through shared decision-making wherever possible, to jointly address all aspects of the tailings storage facility breach at the Mount Polley Mine ("Mount Polley Mine Incident").

The First Nations and British Columbia (collectively, the "Parties") agree that the processes for the joint oversight set out below will be conducted in accordance with the First Nations' traditional protocols, having regard to both traditional and scientific knowledge, and as expeditiously as possible.

The Parties agree that the health and safety of the public and workers, including members of the First Nations, are paramount.

### The Parties therefore agree as follows:

- The Parties agree to establish a principals table consisting of the Chiefs of the First Nations and the Ministers of Environment, Aboriginal Relations and Reconciliation, and Energy and Mines to oversee a government-to-government response to the Mount Polley Mine Incident ("Principals Table").
- 2. The Parties agree to establish a senior officials committee consisting of designates of the First Nations, and the Assistant Deputy Ministers of the Ministries of Environment, Aboriginal Relations and Reconciliation, and Energy and Mines, and other ministries as appropriate ("Committee"). The Committee shall be responsible for overseeing the following activities in response to the Mount Polley Mine Incident:
  - assessing impacts, monitoring, cleanup, remediation planning and implementation, and any decisions related to the future of Mount Poiley mine;
  - developing a plan to provide safe access to the impact zone for the purposes of assessing archaeological and environmental impacts;
  - discussing permitting required for future work at the Mount Polley mine;

- d. assessing the adequacy of existing laws, regulations and policies in relation to the Mount Polley Incident;
- e. addressing the First Nations' immediate and long-term funding requirements to respond to all aspects of the Mount Polley Mine Incident;
- f. identifying economic opportunities for the First Nations to participate in responding to the Mount Polley Mine Incident;
- g. reporting back to the Principals Table; and
- h. addressing any other issues related to the Mount Polley Mine Incident as agreed to by the Committee.

The Parties agree that this letter of understanding does not fetter statutory decision makers in carrying out their duties and responsibilities under the relevant provincial laws and regulations that apply to the Mount Polley Incident.

- 3. British Columbia agrees to provide \$200,000 to each of the Soda Creek Indian Band and the Williams Lake Indian Band as soon as possible to cover costs already incurred and to be incurred in responding to the Mount Polley Mine Incident.
- 4. The Parties acknowledge the impact of the Mount Polley Mine Incident on public confidence in mining and recognize the important economic contribution of mining to British Columbia. Accordingly, British Columbia, in partnership with the Soda Creek Indian Band and the Williams Lake Indian Band, commits to commencing a dialogue about existing laws, regulations and policies in relation to the mining industry in British Columbia. The scope and mechanism for this dialogue will be considered by the Senior Officials Committee and recommendations will be made to the Principals Table. Those future discussions will be informed by the collaborative work between the Parties on the Mount Polley Mine Incident.

5. The Parties agree that the entities responsible, in accordance with applicable legislation, be required to pay for all costs and damages incurred in relation to the Mount Polley Mine Incident.

Chief Bev Sellars, Sòda Creek Indian Band

Chief Ann C-touie, Williams Lake Indian Band

The Honourable John Rustad, Minister of Aboriginal Relations and Reconciliation

From:

Wendy Słavica < W.Słavica@archercrm.ca>

Sent:

Friday, September 12, 2014 1:00 PM

To:

Forgeng, Eric E FLNR:EX; Remi Farvacque

Cc:

Bunce, Hubert ENV:EX; Metcalfe, Shelley ENV:EX; Fenwick, Leigh-Ann ENV:EX; Weir,

David J FLNR:EX

Subject:

Re: Mt Polley permit

Thank you very much Eric for your work on this.

Regards,

Wendy Slavica, B.A. Field Director

ARCHER CRM Partnership

www.archercrm.ca Cell: 1.250.301.8512 Tel: 1.250.562.0444 Fax. 1.250.562.0445

Email: w.slavica@archercrm.ca

IMPORTANT NOTICE: The contents of this email may be confidential, privileged and exempt from disclosure under applicable law. Use, distribution, or copying of this e-mail or its contents, by other than an intended recipient, is unauthorized. If you are not the intended recipient, please notify me immediately by email.

Sent from my BlackBerry 10 smartphone.

From: Forgeng, Eric E FLNR:EX

Sent: Friday, September 12, 2014 12:00 PM

To: Remi Farvacque; Wendy Slavica

Cc: Bunce, Hubert ENV:EX; Metcaife, Shelley ENV:EX; Fenwick, Leigh-Ann ENV:EX; Weir, David J FLNR:EX

Subject: RE: Mt Polley permit

Hello everyone,

The Mt Polley HCA Section 14 permit has been issued as 2014-0264, documentation is being forwarded right now. You're clear to proceed whenever you're ready.

Please let me know if you have any questions

Best.

Eric Forgeng, MA | Archaeologist / Heritage Resource Specialist

Archaeology Branch | Ministry of Forests, Lands and Natural Resource Operations

Phone: 250-953-3362 | Fax: 250-953-3340 | e-mail: eric.forgeng@qov.bc.ca

Unit 3 1250 Quadra Street, Victoria BC V8W 2K7 | PO Box 9816 Stn Prov Govt, Victoria, BC V8W 9W3

#### Visit our website at: http://www.for.gov.bc.ca/archaeology/index.htm

From: Bunce, Hubert ENV:EX

Sent: Friday, September 12, 2014 09:33

To: Forgeng, Eric E FLNR:EX

Cc: Metcalfe, Shelley ENV:EX; Fenwick, Leigh-Ann FLNR:EX

Subject: RE: Mt Polley permit

Thanks for keeping me in the loop

Hubert Bunce
A/Mining Director, Environmental Protection
Regional Operations
ph (250) 751-3254 fax (250) 751-3103
2080A Labieux Road
Nanaimo BC V9T 6J9
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From: Forgeng, Eric E FLNR:EX

Sent: Friday, September 12, 2014 8:32 AM

To: Bunce, Hubert ENV:EX Subject: RE: Mt Polley permit

Application is in hand, I'll keep you posted.

Best, Eric

Eric Forgeng, MA | Archaeologist / Heritage Resource Specialist

Archaeology Branch | Ministry of Forests, Lands and Natural Resource Operations

Phone: 250-953-3362 | Fax: 250-953-3340 |e-mail: eric.forgeng@gov.bc.ca

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Visit our website at: http://www.for.gov.bc.ca/archaeology/index.htm

From: Bunce, Hubert ENV:EX

Sent: Thursday, September 11, 2014 16:34

**To:** Forgeng, Eric E FLNR:EX

Cc: Weir, David J FLNR:EX; Glaum, Doug FLNR:EX; 'Adam.kantakis@williamslakeband.ca'; Fenwick, Leigh-Ann FLNR:EX;

'Nikl, Lee'; Batten, Justine FLNR:EX **Subject:** RE: Mt Polley permit

Hi Eric, thanks for taking this on

Whatever can be done to speed up this application process would be appreciated. Mount Polley Mine Corporation has received letters of agreement from the Williams Lake and Soda Creek Indian bands thus negating the consultation period for these bands as I understand it. The province, the mine, and the community are keen to see activity move forward on actions to protect against further degradation of the environment

The province has signed a Letter of Understanding with the WLIB and SCIB (attached) to work at a govt to govt level and s.16

**Hubert Bunce** 

A/Mining Director, Environmental Protection

**Regional Operations** 

ph (250) 751-3254 fax (250) 751-3103

2080A Labieux Road

Nanaimo BC V9T 6J9

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From: Weir, David J FLNR:EX

Sent: Thursday, September 11, 2014 12:48 PM

To: Bunce, Hubert ENV:EX Subject: FW: Mt Polley permit

FYI.

David Weir Water Section Head, Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David J. Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

From: Glaum, Doug FLNR:EX

Sent: Thursday, September 11, 2014 12:20 PM

To: Weir, David J FLNR:EX; 'Adam.kantakis@williamslakeband.ca'; Forgeng, Eric E FLNR:EX

**Cc:** Fenwick, Leigh-Ann FLNR:EX **Subject:** RE: Mt Polley permit

I've assigned Eric Forgeng to oversee this permit application. He will be your contact.

Doug Glaum

Archaeology Branch

Ministry of Forests, Lands and Natural Resource Operations

1250 Quadra

(250) 953-3357

Visit our website

From: Weir, David J FLNR:EX

Sent: Thursday, September 11, 2014 11:51 AM

**To:** 'Adam.kantakis@williamslakeband.ca'

Cc: Glaum, Doug FLNR:EX; Fenwick, Leigh-Ann FLNR:EX

Subject: Mt Polley permit

I understand that the permit has not been applied for yet? Please submit the application immediately. If you are worried about its completness please call Doug and I believe he will help you out.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake, BC
David J. Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From:

Remi Farvacque < R.Farvacque@archercrm.ca>

Sent:

Friday, September 12, 2014 12:05 PM

To:

Forgeng, Eric E FLNR:EX; Wendy Slavica

Cc:

Bunce, Hubert ENV:EX; Metcalfe, Shelley ENV:EX; Fenwick, Leigh-Ann ENV:EX; Weir,

David J FLNR:EX

Subject:

RE: Mt Polley permit

On behalf of everyone involved, thank-you very, very much!

Remi

**From:** Forgeng, Eric E FLNR:EX [mailto:Eric,Forgeng@gov.bc.ca]

**Sent:** September-12-14 12:00 PM **To:** Remi Farvacque; Wendy Slavica

Cc: Bunce, Hubert ENV:EX; Metcalfe, Shelley ENV:EX; Fenwick, Leigh-Ann ENV:EX; Weir, David J FLNR:EX

Subject: RE: Mt Polley permit

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Please let me know if you have any questions

Best,

**Eric Forgeng, MA** | Archaeologist / Heritage Resource Specialist **Archaeology Branch** | Ministry of Forests, Lands and Natural Resource Operations

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Sent: Friday, September 12, 2014 09:33

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Cc: Metcalfe, Shelley ENV:EX; Fenwick, Leigh-Ann FLNR:EX

Subject: RE: Mt Polley permit

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**Hubert Bunce** 

A/Mining Director, Environmental Protection

Regional Operations

ph (250) 751-3254 fax (250) 751-3103

2080A Labieux Road

Nanaimo BC V9T 6J9

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Sent: Friday, September 12, 2014 8:32 AM

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'Nikl, Lee'; Batten, Justine FLNR:EX Subject: RE: Mt Polley permit

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Sent: Thursday, September 11, 2014 12:48 PM

**To:** Bunce, Hubert ENV:EX **Subject:** FW: Mt Polley permit

FYI.

David Weir Water Section Head. Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David.J.Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

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Cc: Fenwick, Leigh-Ann FLNR:EX Subject: RE: Mt Polley permit

I've assigned Eric Forgeng to oversee this permit application. He will be your contact.

Doug Glaum Archaeology Branch Ministry of Forests, Lands and Natural Resource Operations 1250 (Quadra (250) 953-5557 Visit our website

From: Weir, David J FLNR:EX

Sent: Thursday, September 11, 2014 11:51 AM To: 'Adam.kantakis@williamslakeband.ca'

Cc: Glaum, Doug FLNR:EX; Fenwick, Leigh-Ann FLNR:EX

**Subject:** Mt Polley permit

I understand that the permit has not been applied for yet? Please submit the application immediately. If you are worried about its completness please call Doug and I believe he will help you out.

David Weir Water Section Head. Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC David.J.Weir@gov.bc.ca (250) 398 4924 Cell 250 267-5925

Fenwick, Leigh-Ann FLNR:EX From: Sent: Thursday, September 11, 2014 5:47 PM Weir, David J FLNR:EX To: Subject: Re: Mt Polley permit Thx. > On Sep 11, 2014, at 14:45, "Weir, David J FLNR:EX" < David.J.Weir@gov.bc.ca > wrote: > See attached. > David Weir > Water Section Head, > Ministry of Forest Lands and Natural Resource Operations Williams Lake > , BC David.J.Weir@gov.bc.ca > (250) 398 4924 > Cell 250 267-5925 > From: Remi Farvacque [mailto:R.Farvacque@archercrm.ca] > Sent: Thursday, September 11, 2014 2:35 PM > To: Weir, David J FLNR:EX > Cc: Forgeng, Eric E FLNR:EX; Wendy Slavica; Light Jim > (Jim.Light@snclavalin.com) > Subject: RE: Mt Polley permit > Good afternoon David: > Reading through the thread, Wendy Słavica (cc'ed here) will be the Permit Holder. We have not submitted the Permit as of yet as we were waiting for Letters of Support from the affect three First Nations. Our intent (at this time) is to submit the Permit tomorrow with or without letters of support. > > Rémi Farvacque<mailto:r.farvacque@archercrm.ca>, M.Sc., RPCA Director > ARCHER CRM Partnership > Tel: 1.250.261.5584 > Cell: 1.250.793.0036 > Fax: 1.250.261.5474 ><http://www.archercrm.ca/>[cid:image002.jpg@01CFCDCD.A2BE3D40]<http:// > www.archercrm.ca/><http://www.archercrm.ca/>Our Burnaby Office is now > open ... More details at www.archercrm.ca > IMPORTANT NOTICE: The contents of this email may be confidential, privileged and exempt from disclosure under applicable law. Use, distribution, or copying of this e-mail or its contents, by other than an intended recipient, is unauthorized. If you are not the intended recipient, please notify me immediately by email.

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- > Sent: Thursday, September 11, 2014 11:51 AM
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- > Cc: Glaum, Doug FLNR:EX; Fenwick, Leigh-Ann FLNR:EX
- > Subject: Mt Polley permit

>

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- > David Weir
- > Water Section Head,
- > Ministry of Forest Lands and Natural Resource Operations Williams Lake
- >, BC David.J.Weir@gov.bc.ca<mailto:David.J.Weir@gov.bc.ca>
- > (250) 398 4924
- > Cell 250 267-5925

>

- > <image001.jpg>
- > <image002.jpg>

From:

Hill, Douglas J ENV:EX

Sent:

Friday, September 12, 2014 4:53 PM

To:

Weir, David J FLNR:EX; 'Colleen Hughes'

Subject:

FW: Weekly update for September 12 2014 - Tailings Breach Monitoring

Attachments:

Weekly Update for week ending September 12.pdf; HazeltineCreek SW 20140910.pdf;

PolleyLake SWMaster 20140910.pdf; QuesnelLake SWMaster 20140910.pdf;

QusnelLake\_SEDMaster 20140829 s.pdf; 621717-005 SampleLocPlanSeries 20140912

FINAL.PDF; 621717-006 SEDLocPlan 140905.pdf

College, could you add David Weir, Water Stewardship to your distribution list for these reports, he is responsible for the Water Act Order facilitating the Polley Lake drawdown. You can also remove me from the list as I won't be directly involved in Mt Polley for the foreseeable future.

dih

From: Colleen Hughes [mailto:chughes@mountpolley.com]

Sent: Friday, September 12, 2014 4:40 PM

To: Bunce, Hubert ENV:EX

Cc: Zacharias-Homer, Christa ENV:EX; Hoffman, Al MEM:EX; Jack Love; Dale Reimer; Metcalfe, Shelley ENV:EX; McGuire, Jennifer ENV:EX; b.sellars@xatsull.com; Chief Ann Louie; Aaron Higginbottom; Julia Banks; Steve Robertson; Demchuk, Tania MEM:EX; Pierre Stecko (pstecko@minnow.ca); Green, Jack E ENV:EX; Brian Kynoch; RC Cory Koenia; Don Parsons; Katie McMahen; Art Frye; Johnson, Gordon; Bellefontaine, Kim MEM:EX; Howe, Diane J MEM:EX;

trevor.mcconkey@snclavalin.com; Hill, Douglas J ENV:EX; Jancicka, Erik (erik.jancicka@snclavalin.com)

Subject: Weekly update for September 12 2014 - Tailings Breach Monitoring

Good Afternoon Hubert

Please find attached all the documents that make up the weekly update report.

Regards,

Colleen Hughes, EP **Environmental Coordinator** Mount Polley Mining Corporation PO Box 12 Likely, BC VOL 1NO 250-790-2617 chughes@mountpolley.com

A Please consider the environment before printing this e-mail.



Date

September 12, 2014

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

Attention:

Hubert Bunce, Director Environmental Management Act

Re:

Weekly Update for Week Ending September 12, 2014

### Monitoring Update

As of September 12, 2014, the Monitoring Program implemented in response to the tailings release consists of the following: 1) Water Quality Programs (Quesnel Lake, Quesnel River, Polley Lake, Residential Intakes, and Hazeltine Creek), 2) Sediment Quality (Quesnel Lake), 3) Fish Sampling. The following sections summarize the programs, changes, and key actions and interactions relevant to the program.

### Water Quality Programs

More than 90 water quality sampling locations have been established as of September 12, 2014 to assess and monitor water quality as part of the program. Drawings 621717-005-P1 through 621717-P8 (attached) show sample locations.

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

- Total and dissolved metals (excluding mercury);
- · Anions: sulphate, chloride, fluoride;
- Nutrients: total ammonia, nitrate, nitrite, total nitrogen, total Kjeldahl nitrogen, orthophosphate, total phosphorous, dissolved phosphorous; and
- Toxicity testing

Table A below summarizes the various Water Quality Programs. With the exception of toxicity testing, results have been provided in Tables 1a, 3, and 4 (attached).

TABLE A: Summary of Water Quality Monitoring Programs

Monitoring Program	Area	Frequency	Sample Locations					
Surface Water Quality		Single Sample	QUL-4 to QUR-8, QUR-10 to QUR-16, QUL-30, QUL-31, , QUR-69, QUL-74, QUL-75, QUL-87, QUL-96,					
	Quesnel Lake	Repeated Sites	QUL-1, QUL-9, QUL-10, QUL-17, QUL-20, QUL-23, QUL-28  As of week of September 12, 2014: Ongoing repeated sampling is being carried out at locations QUL-18, and QUL-23. A CTD profile is completed at QUL-20 during each sampling event. Samples will be collected if stratification observed. The water column is usually well mixed at this location.					
	Palley Lake	Repeated Sites	POL-3, POL-4, POL-5, POL-6, P1, P2  As of week of September 12, 2014: Ongoing repeated sampling (weekly) is being carried out at locations P POL-3, POL-4, POL-5, POL-6, P1, and P2.					
	Polley Discharge and Hazeltine Crk.	Sampling Sites	HAD-1 and HAD-2 (monitor only) (Weekly), HAC-01 (daily), Breach-1 (Weekly)  As of week of September 12, 2014: HAD-1, HAD-2 (monitor only), and Breach-1 collected on an approximate weekly basis. HAC-01 collected on an approximately dail basis.					
	Quesnel River	Repeated Sites	QUR-1 (includes QURU-1x & QUR-3): ISKO sampler collects 3 samples per day. A fourth grab sample is also collected at this location.  A datalogger records measurements of pH, temperature, conductivity, turbidity, and conductivity every 15 minutes).					
Water Quality Profiles	Quesnel Lake	Single Sample	QUL-28, QUL-65, QUL-67, QUL-68, QUL-70, QUL-71, QUL-72, QUL-73, QUL-76, QUL-78, QUL-80, QUL-87					
		Repeated Sites	QUL-2, QUL-3, QUL-18, QUL-19, QUL-20, QUL-21, QUL-22, QUL-26, QUL-66, QUL-79,  As of week of September 12, 2014: QUL-2, QUL-21, QUL-22, QUL-66, and QUL-79 are visited on a rotational basis approximately every other day.  Samples are collected near surface and near lake bottom, and in consideration of CTD field monitoring results.					
Residential Water Intake Sampling Program	Quesnel Lake	Single Sample	QUL-32, QUL-33, QUL-34, QUL-36, QUL-39, QUL-62, QUL-63, QUL-77, QUL-81, QUL-82 to QUL-86, QUL-88, QUL-89, QUL-90, QUL-91, QUL-92, QUL-93, QUL-94, QUL-95, QUL-100, QUL-101, QUR-102, QUR-103, raft creek site					
		Repeated Sites	QUL-35, QUL-37, QUL-38, QUL-60, QUL-61, QUL-64					

Results of the toxicity testing completed to date are provided in Table B. Additional results are pending and will be updated as they become available.

Table B: Summary of Draft Water Toxicity Testing

Date	Location	Location Description	Acute (96h) Rainbow Trout <sup>1</sup>	Acute (48-h) Daphnia magna <sup>2</sup>	Sublethal (7-d) fish survival and growth	Sublethal (7-d) invertebrate survival and reproduction	Sublethal (72-h) algal growth <sup>5</sup>	Sublethal (7-d) plant growth <sup>6</sup>	Results
August 6, 2014	QUR-1	Quesnel River at Research Station	t t			1			LC50, IC25, IC50 all >100%
August 9, 2014	POL-2	Polley Lake near South End				· ✓			LC50, IC25, IC50 all >100%
August 13, 2014	HAD-1	Discharge from Polley to Hazeltine	<b>V</b>	1	<b>V</b>	<b>V</b>	✓	<b>V</b>	> 100% for all tests
August 20, 2014	HAD-1	Discharge from Polley to Hazeltine	1	✓					LC50 >100%
August 21, 2014	QUL-66-40m	Quesnel Lake Plume	<b>*</b>	1	4	<b>✓</b>	<b>~</b>	~	LC50 >100%, IC25 and IC50 pending
August 22, 2014	QUR-1	Quesnel River Research Centre	/	1	1	1	1	į	LC50 > 100% 1C25 and IC50 Pending
August 27, 2014	HAD-1	Discharge from Polley to Hazeltine			1	1	-		Pending
August 28, 2014	QUL-66-40m	Quesnel Lake Plume	<b>V</b>	<b>√</b>	<b>/</b>	1	<b>✓</b>	1	LC50 > 100% IC25 and IC50 Pending
September 3, 2014	QUL-66-45m	Quesnel Lake Plume			1	1			Pending
September 3, 2014	HAD-2	Discharge from Polley to Hazeltine			1	<b>V</b>			Pending
September 10, 2014	HAD-1	Discharge from Polley to Hazeltine			1	<b>V</b>			Pending
September 10, 2014	QUL-66-48m	Quesnel Lake Plume			1	4		L	Pending

<sup>&</sup>lt;sup>1</sup>Rainbow trout acute lethality (96-hours)

<sup>2</sup>Daphnia magna acute lethality (48-hours)

<sup>3</sup>Fathead minnow survival and growth (7-days)

<sup>4</sup>Ceriodaphnia dubia survival and reproduction (up to 8-d)

<sup>5</sup>Algal growth (Pseudokirchneriella subcapitata - 72-hours)

<sup>6</sup>Plant growth (Lemna minor - 7-days)

## Sediment Quality Program

A detailed sediment study is ongoing and part of the Comprehensive Environmental Impact Assessment (CEIA) and therefore no additional sample locations or results are being provided in this update. Details will be provided in a separate report that is currently in progress. As part of this study, forty-six additional sediment data locations have been established since September 3, 2014. Previously collected sediment sample locations are shown on Drawing 621717-006 (attached). Previous sediment data is provided on Tables 2a and 5a.

### Fish Program

Sampling of fish tissue specimens at select locations was initiated on August 20<sup>th</sup>, 2014. As of September 4<sup>th</sup>, 2014 seventeen fish sampling events have occurred with a total of 60 fish specimens (comprised of whole fish, liver tissues, and/or muscle tissue) collected. Fish species being sampled include; sockeye salmon, northern pikeminnow, burbot, Longnose Dace, rainbow trout, and Peamouth Chub. Laboratory analytical results for all fish tissue samples submitted are pending. Laboratory analytical results will be reported as part of the CEIA.

### Summary of Modifications to the Monitoring Program

- A review of current analytical and field monitoring results in progress and adaptations to the monitoring program will be considered on an ongoing basis.
- Water quality at HAD-2 is similar to that measured at HAD-1 (similar intake locations). Therefore HAD-2 has been dropped from the sampling program.
   Field monitoring will continue to confirm similar field measurements (EC, pH, etc.). HAD-1 will be monitored and sampled on a weekly basis.
- POL-5 and POL-6 have been added to the sampling program. P1, P2, POL-3 and POL-4, POL-5, and POL-6 will be sampled on a weekly basis going forward.
- P1 and P2 (existing MPMC sampling locations) have been added to the Polley Lake monitoring program and will be included to provide historical data and context.
- HAC-01 sampling has increased to daily. Access to this location has been restricted due to clean up activities at the mouth of the creek.
- Requests for monitoring of water quality at residential intakes are being catalogued and an appropriate program is being developed for ongoing response to these requests.
- Toxicity testing at QUL-66 (within plume) and HAD-1 will continue on a monthly basis; however, only for sublethal tests as there have been no acute effects observed.

- Mercury parameters are being dropped from routine monitoring program and are being considered as part of water quality impact assessment.
- Total Algae has been added to the routine monitoring and profiling program.
- Profiling locations (CTD and sampling) are being completed on a daily rotational basis (every other day) to confirm surface water quality and quality near the bottom of the lake, and at elevated CTD and/or turbidity readings.
- Lab turnaround time has been changed from priority to regular for most sample analysis.

## Gaps Identified in the Monitoring Program and Next Actions

Plume Monitoring remains a priority. Data from the EBA Tetra-Tech vessels are being evaluated and considered in monitoring program going forward.

## Summary of Daily Observations and Public Interactions

August 28 – Two vessles equipped for bottom, sediment, and plume mapping arrived and will be implementing related scopes of work. Equipment on board vessels includes deep water monitoring and sampling devices.

August 29 – MPMC is evaluating proposals from UNBC for opportunities for partnering and integration with the planned CEIA.

August 28 to September 10 – Ongoing dialogue and data review with private property and lodge owners regarding water quality results as requested.

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

September 3-Sept 10 Evidence of a sediment plume near surface in Quesnel Lake in the area of Hazeltine Creek toward Mitchell Bay on September 3<sup>rd</sup> triggered some reactive profiling and sampling by field crews. Sediment has dispersed resulting in a slight increase in turbidity in Quesnel Lake.

Sincerely,

MOUNT POLLEY MINING CORPORATION

Via email

Colleen Hughes, EP
Environmental Coordinator
Mount Polley Mining Corporation
250-790-2617
chughes@mountpolley.com

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

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Semple	Samole	Sample Date	Hardness	girl (field)	pH	Yemperature (field)	Yurbidity	Conductivity	TOS	YSS	50C	Total	E. Çoll	Total Kjeldetil Nikropen (N)	Total Hirogen (N)	Ammonia Nitrogen	Nitrate	Nitrite	Nitrate+Mitrite Nitragen	Chloride	Fluoride	Sulphate	Total Allusinity	Brom de	Orlino- phosphale	Phospho
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CSYOG Deteiding	White Change		D/a	10405	6,5-8.5	n/e <sup>1</sup>	Trade 184 Or	Na	n/a	r/a	7/6	0/2	0/100ml	r/a	200	n/a	10.000	1.000	10.000	290	1 000	500	G/e	N/E	n/e	10.01
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	QUR-1(10:40)	2014 GB 22	61,6	8.05	7.91	14.3	0.73	100	61	1 <3	2				0.157	< 5	83.8	-51	-	< 0.5	36	5.63	45 B	-	< 0.001	* D.D

Associates ALS Inst 4,198510, 1,198510, 1,198510, 1,198510, 1,198200, 1,1987

MANDED Corconnector ground than GOVICES aquate Life (AVI) quantine Gorcementum grantus then BOWGO Denters Wester (DW) guranture []] ( Consentration greater than DCWCG Aquaba Life (300ay) (AN) guideline. Gonzanthatian greater then or enjust to Canadian Drinking Water Quality (OVII) as institute

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At living defined within the tody or SNCL system report (aveilable upon request).

Denotes concentration last from indicated detection limit or RFD last than indicated within

<sup>·</sup> Demoles analysis not constanted

nos Denobre no applicable standard.

• PETCis are not not maily calculated inferio one or motive concentrations are less than twen times MDL.

<sup>\*</sup> Lebonetury dolescos: brak cut of range.

\* Inneth Columbia: Approved Water Quality Guidelpher 2006 Ecotion, uppsaked 2014.

\* A Cempandum of Warfung Water Outlety Cardetine for Ethies Columbia: updente August 1006;

\* Guidelpher valler, with yet, waller wither Techperature or Hamferen.

<sup>\*</sup> Houter Common Dishering Weiser Conditioner, 1912.

\*\*Guideline for fitting and the season of the s

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

		1					·			,				,	Dissolva	d Metata	-		-	*			-	-	-	-	-			-
Sample Location	Santple ID	Sample Dale (yyyy rem dd)	Aluminum (yerL)	Dissolved Calcium (mg/L)	Disented from (pg/L)	Dissolved Magneshan (mg/L)	Dissolved Mangenese (pg/L)		Dissolved Sodkin (ingli.)	Antimony			Baryllium (spf.)									Moly Edenum Grg/L)				Thelibum (pgrl.)				Zin
Guldelines															net/leberie					**********									,	-
OWQQ Aquatic LI	le (AW)		100"	n's	356	ryle	n/e	41/m	rva.	rus .	rvis	vite	n/a	15/8	n/e	n/e	n/a	n/o	67/8	n/a	71/9	ri4s	rive	e/s	ryle	n/s	n/e	No.	riva	rsie
WOG Aquatic Li	te (30dey) (Alfre) Link		50*	refa	n/e	nia	Na	n/e	riva	nia	rva	n/s	n/a	r/a	Na	n/a	v/a	m/a	n/a	n/a	nta	No	19/4	reta	n/a	rida	N/a	n/a	n/a	P/a
CWQB Drinking V	Vater (DVV)**		200	n's	n/a	n/a	n/a	sva .	r/s	n/a	FUZ.	n/a	rvie .	ny'm	nia	rife	n/q	nia	rvis	nia	n/a	7/9	10/8	n/s	rife	TVB .	N/de	trie	rya	27/9
anedles Drinking I	Aister Quality (DW)*		rva	rein	rya	n/a	nia	n/a	7/1	nig	NE	0.0	n/a	niu	Ne	r/a	25/W	n/a	rys	ri/e	n/a	. rvia	n/a	rors	n/a	n's	n/a	nie	n/e	n/e
QUR-1	QUR-1	2014 68 06	10.4	16.2	< 30	1.95	0.422	0.495	1.01	1 40.1	0,12	6.3	< 0.1	< 10	0.019	< 0,8	< 0.5	0.72	× 0.05	0.53	< 0.06	0.323	< 0,8	< 0.5	€ 0.01	< 0.01	< 10	0.122	<1	× 3
	QUR-1X	2014 00 06	10.8	16.3	₹ 30	1.90	0.47	0,497	0.863	< 0.1	0.12	5.15	< 0.1	< 10	0,07	× 0.6	≠ 0.1	88.0	< 0.05	0.73	< 0.05	0.316	40.5	< 0.5	< 0.01	< 0.01	× 10	0.125	<b>₹1</b>	i elign
	THE HALLSON		HIGHLESS AND ASSESSMENT	BREETE	AND DECEMBER	1000	HULLETHER	DECKARD	(GDEO-U)	<0.1	0.12	5.24	TERRITORIES	2000000	< 0.01	< 0.5	< 0.1	<0.5	- 0.06	0.7	~ 0.05	0.314	* O.F.	<0.5	< 0.01	Recolumn of the	< 10	0.172	< 1	< 3
	QUR-1	2014 08 08	8.7	16.3	₹30	1.94	0.362	0.468	1.04				< 0.1	< 10	< 0.01	< 0.5	< 0.1	€ 0.5	< 0.05	0.75	< 0.05	0.288	< 0.5	< 0.5	4 B.01	40.01	< 10	0,122	41	43
	QUR-1	2014 08 07	9.4	15.9	< 30	1.85			0.843	<0.1	0.1	5.05	*01		4 0 0 1	< 0.5	< 0.1	< 0.5	40.05	0.63	4000	0.278	< 0.5	<03	< 0.01	< 0.01	< 10	0.138	41	43
	QUR-1(11.33)	2014 08 08	7.5	16.8	< 30	1,96.	0.156	0.468	0.872	1 401	<0.1	5.17	*0.1	< 10	< 0.01	< 0.5	< 0.1	<0.5	< 0.05	0.76	-	0.29	<0.5	<0.5	4 0.01	40.01	< 10	0.138	<1	43
	QUR-1(15:43)	2014 08 08	7.3	17.8	+30	2.00	0.181	0.461	0.873	×01	0.11	5.09	< 0.1	< 10	< DO1	< 0.5	×0.1	<0.5	< 0.05	0.71	-1 3	0.272	< 0.5	<0.5	× 0.01	< 0.01	< 10	0.182	41	1
	QUR-1(19:09) QUR-1(14:30)	2014 08 09	7.5	17.4	€ 30	2.00	0.366	0.456	D.956	×0.1	0.1	5.13	<0.1	< 10	~ 0.01	5 D.5	≪ Q.1	₹ 0.5	× 0.05	0.54		0.272	< 0.5		< 0.01		5 10	0,182	<1	1
	QUR-1(10:10)	2014 08 10	9.5	10.0	< 30	1.91	0.263	0.474	Q.871	< 0.1	0.11	5.06	< 0.1	4 1D	< 0.01	< D.5	< 0.1	< 0.5	= 0.05	0.57		0.271	< 0.5	< 0.5	+ 0.01	< 0.01	4 10	0.143	41	1
	QUR-1(17:45)	2014 68 10	B.3	17	< 30	1,91	0.33	0.471	0.865	< 0.1	0.11	5,03	<0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	× 0.05	0.52	O A Dark STREET	0.263	< Q.5	< 0.5	< 0.01	< 0.01	< 10	0.143	41	4
	QUR-1(11:18)	2014 08 11	11.4	188	< 30	1.0	0.361	0.494	0.857	40.1	0.12	5.21	< 0.1	× 10	< 0.01	* D.5	× 0.1	<0.5	< 0.05	1,1		0.271	< 0.5	< 0.5	< 0.01	< 0.01	4.10	0.125	41	1
	QUR-1(17:12)	2014 08 11	103	16.8	< 30	1.90	0.411	0.488	0.871	×0.1	0.1	5.2	<0.1	< 10	< 0.01	* 0.5	< 0.1	< 0.5	< 0.05	1.12	-	0.277	< 0.5	< 0.5	< 0.01	40.01	× 10	0.125	*1	1
	QUR-1(14.04)	2014 00 17	14.0	10.0	130	1.50	CHARLES OF SHIPMEN	0.400	0.071	1		-		- 10	-001	and Developing	- 5-454		- 0.03	colida.	*	4411	-0.0	700	- 500	-001	- 10	4.140		1
	QUR-1(16:34)	2014 08 12	10.1	18,6	< 30	2.01	0.358	0.463	0.843	* 0.1	D.11	5.25	401	« 10	< 0.01	×0.6	< 0.1	+ 0.5	< 0.05	0.05	Aprilla prompto.	0.285	< 0.5	+0.5	- Q.D1	< 0.01	4 10	0.129	<1	1
	QUR-1(29'00)	2014 08 12	, io, i	10,0	- 30	1	0.200	0.405	0.043			5,44	- 4.1	- 10			-	* 0.0	- 0.03	0.00		-			- 0.01	- 40.00		4.140		
	QUR-1(04:00)	2014 08 13		-	-	1		-	*	-	1 .			*			*					-		-			***************************************	-		-
	QUR-1(12:00)	2014 08 13			1		-	-	*			*	-	Out of the			-		-					-				-		- Committee
	QUR-1(13:18)	2014 08 13	10.4	16,3	< 30	1,80	0.150	0.47	0.845	× 0.1	0.12	5.31	< 0.1	< 10	< 0.01	× 0.5	< 0.1	405	4 8.05	2.79		0.303	€0.5	<05	< 0,01	4 0.01	× 10	0.131	<1	×:
	QUR-1(20:00)	2014 08 13					-					*						*			-		-	*				-		-
	QUR-1(14:45)	2014 08 14	9.4	15.4	× 30	7.94	0.202	0.469	0.858	< 0.1	0.12	5.29	< 0.1	<10	< 0.01	- 0.5	×0.1	< 0.5	< 6.05	0.62		0.318	×0.5	< 0.5	< 0.01	× 0.01	× 10	0.136	€1	1
	QUA-1X(14:50)	2014 00 14	10.7	15.8	< 30	1,01	0,211	0.465	0.858	40.1	0.11	5,29	€0,1	< 10	< 0.01	4 0.5	<01	< 0.5	< 0.05	0.69		0.298	< 0.5	< 0.5	4 0.01	< 0.01	4 10	0,138	<1	
	DESTRUCTION OF	PD SARRIEDED	18912 (L) (1991)	HOUR SHEET		B BY ALLER AND A STATE	经规则是建筑建筑	<b>日本計算</b> が対象を	\$100 P. S.	CONTRACTOR	Bitter (191	141.0	THE PARTY	維持期益	RUMUE	251415-2524	STREET,	日(4)百世	alita di la	Marin (	BEN SELLE	HESTITZ HELLO	1 555 ART	2556286.7(48)	SHEEL	198601981	HERRIS	HER QUELLY	HUTTHE	祖赐
	QUH-1(04:00)	2014 08 14				and Towns				4		-	*		-			*	*		*						4			1 .
	QUR-1(12,00)	2014 08 14			4	-	-		*					1				-	-	-				1.4.					· ·	1
	QUR-1(20:00)	2014 08 14				7				*		-		-	*	-	1 -			*	-		1			-				1
	GUR-1(04:00)	2014 38 15					-	-	-			*		-			-		-	- 4			-	-			*	-	-	1 -
	OUR-1(12:00)	2014 08 15					-	-	*	*	-	*	*		-		-			*					*			-		1
	QUR-1(13:29)	3014 00 15	9.6	16,1	< 30	1,6	0.355	0.466	0.846	< 0.1	0.13	5.55	10.1	* 10	< 0.01	< 0.8	< 0.1		< 0.05	0.55		0.294	€0.5	< 0,5	< 0.01		~ 1D	0.123	*1	4
	OUH-1(14:60)	2014 09 16	9.4	16.6	< 30	7.94	0.315	0.458	0.812	× Q.1	0.12	5,10	< 0.1	N 10	4.0.01	€ 0.5	× 0.1	€ 0.5	< 0.05	0.55	-	0.20	<05	< 0.5	× 0.01	< 0.01	< 10	0.127	*1	4
	GUR-1(20:00)	2014 08 16	7.00	10.0	400		0.000	0.462	4 444	- 4	0.11	4 000	-04		- 0.04		- 0.0	244	- 0.00	-	-	4000		-06	. 000	- 0.01	- 40	0.437		-
	QUR-1 QUR-1(20.00)	2014 08 17	8.6	16.3	< 20	1.91	9,185	0.480	0.832	<0.1	0.11	4.98	₹0.1	< 10	< 0.01	40.5	× 0.1	0.51	< 0.05	0.6		0.293	* 0.5	< 0.5	< 0.01	×0.01	< 10	0.127	- 61	1
	QUR-1(04:00)	2014 QF 18	-	-:-	-	-	1			-	THE PERSON NAMED IN	mean -		-	-	-	-	-		-	-	-	-	-	-	-		-	1	-
	QUR-1(09:18)	2014 08 18	9	15.4	< 30	1.88	0.14	0.460	6.825	*01	< 0.1	5.16	€0.1	* 10	< 0.01	405	401	<05	× 0.05	0.69	-	0.302	<0.5	< 0.5	<001	< 0.01	< 10	0.134	41	<
	QUR-1(12:00)	2014 DB 18	-	1000	*				4.40		-			-	-		-		-	2.40	-	-	treman	The line of the		- 0.01			-	1
	QUR-1/20:001	2014 OB 18	-		-		-						-				1 -	-	-			*	-					-		
	QUR-1(04:00)	2014 08 19															-	*			-			*						15
	QUR-1(12:00)	2014 08 19						100			P		-				-	. *	-	-	-		-	+						
	GUR-1(13:27)	2014 08 18	11.2	16.8	< 30	1,01	0.45	0.477	0,843	* 0.1	0.12	5.29	€0.1	< 18	< 0.01	+ 0.5	< 0.1	0.58	< 0.05	0.79		0.279	<0.5	< 0.5	< 0.01	< 0.01	< 10	D.127	41	•
	QUR-1(20,00)	2014 08 19	*						-	-					*		-	-	-					+					*	1
	QUR-1(04:00)	2014 08 20	-						-	*				TIMESTO	·	-	-		-			-	100		-				4	1
	GUR-1(12:00)	2014 08 20	***************************************		-	1				*				100			-		•		*						-			
	QUR-1(16:40)	2014 08 20	0.0	17	~ 30	1.66	0.542	0,448	0.603	<0.1	< 0.1	5.11	€0.1	< 10	< 0.01	₹ 0.5	40.1	0.89	< 0.05	0.78		0.269	< 0.5	< 0.5	< 2.01	≤ 0.01	< 10	0 124	*1	. 3
	C-UR-1(20:00)	2014 08 20	-			-		-			**********							*	-	*	•						-		-	-
	QUR-1(04:00)	2014 08 21 2014 08 21	-		-		-		-	-		*	-	-		-	-		-	:-	-	-	-		-	-:-		-		+
	QUR-1(16:28)	2014 08 21	8,5	17,5	< 30	1,05	0,586	D.47	0,861	< 0.1	< 0.1	5.44	*0.1	* 10	< 0.01	< 0.5	× 0.1	0.07	* 0.05	_	-	0.264	< 0.5	< 0,5	< 0.01	< 0.01	< 1D	0.136	* 1	-
	QUR-1(20:00)	2014 00 21	4,0	17,3	- 30	1,85	4,566	- Mai	v.001	200		2.44	-0.	- 10	-301	- H.D	* 0.1	2.07	- 209	4,61		0.254	703	-45	- 4401	-0.01	- 10	0,130	-	
	QUR-1(04-00)	2014 08 22		*									-	-	m restrictions							-								1:
			8.7	17.5	× 30	1,94	0.619	0.488	0.858													0.297	405	× 0.5			× 10	0.137	1.3	1 45

Assectation ALS five: L1-1000-10, L1-1000-20, L1-1000-

Concentration greater than DOWAS Aquabit Uts (AM) published 8060 Concentration grewer than INCHAS Circumy Water (DAY) guideline. Concentration greater then IJCANES Aquests Life (30xby) (ANY) guideline.

Concentration greater than or equal to Canadian Orthogothers Duetry (IVV) galdeline

I, jakuvaskry utrassion timit out af range.
 Itimin Chlorima Approved Weste Guiller Guidelines 2006 Edition, usdated 301-6
 Itimin Chlorima Approved Wester Guiller Chulletines for Patient Culturation, usdated 301-6
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 Cubanymentum of Wester Guiller Children of Temporature or Patientum

\* I Skall in Communic Optobing Mission Guidelitems, 2012.

\*\* Settlementary reference are showned, values rept 30 days means.

\*\* Guidelinems that Mission against a settlement of the communication o

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HIVDs are not represent extended.

HIVDs are not represent extended where one or more concentrations are Secution Size Image MCIL.

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

		2000		1	1	1								i				Total Me		1													7
Sample Location	Sarupia ID	Sample Date Ovyry mm 44)	Aluminum ingli	Antimony (april.)			Hary Nur by/Li	Bianisth (ask)			Galchier (apr.)	Chromium (egC)		Copper boots	Iren (ant.)	Leni	Edition (agis)	Magnesium tep/Li	Manganese buil.)	Meroury (rg/L)	Molyindenum (April.)	Nicinal	Polacelum (sql.)		Silicon grp/Li		Sedium	Theillum (sq.)		Thenlore	Uranium (umil.)	Vanadium ton'Li	
uride ines		COTTO COMP SHE	-	-L-WK-T-																													
WOR Aquetto L	Na (AW)ha		rie	20	. 6	5,000	nte	nai	1,200	0.016-0.028	n/a	1 (5((+4))	110	8.0-0.2 <sup>4</sup>	1,000	27.3-57.7*	870	n/s	1,000.6- 1,376 <sup>4</sup>	Idealityi	2,000	23-60	373,000- 432,000	2	n/e	0.1*	n/a	0,3	n/a	2,000	300		3
	Ph (States) (ANV)***		n/s	nin	n/e	1,000	5.3	n/e	D/a	n@	0/8	N/s		3.3*	nie	4.6-5.9°	24	c/n	781,1-940*	mercury unalysis in	1.000	5/8	9/9	ole	n/a	2.05*	n/a	nia	esta	70	n/e	nán	,
LANGE CONTRACTOR IN	har (present) (solid)		11/6	- Paril	1048	1340	- 4.3	1971	1010	Pres	104	794	-		7110	4,450.0		678	101,1900	programs.	1,500	100	198	1998	184	6,55	100	700	ENAM	10-10	108	THE STATE OF THE S	+
WGD Drinking S			61/26	14	25	rs/o	4	pris	5,000	nfa	TI/th	rs/a	P/s	500	n/a	50	n/a	6/9	n/a	1	250	6/0	n/e	10	n/a	ru/a	15/8	2	nAa	rula	aria	n/a	75
	Altegat Crimpili (CAN),		100	6	10	1,000	rs/a	mia	5,000	5	n/a	50	IN/6	1,000	300	10	m/a	19/18	SD.	1	nie	rida	15/6	10	rs/8	19/6	300,000	n/a	nte	n/s	50	448	9
QUR-1	QUR-1X	2014 08 08	19,6	<0.1	0.13	5.61	< 0.1 < 0.1	405	< 10 i	< 0.01 < 0.01	18,700	< 0.5	481		4 30 4 30	< 0.05	0.73 CL7	2,000	1,42	< 0.05	0.331	< 0.5		*05	1,720	< 0.01	902		< Q.1	< 10	0,136	41	+
		2014 OR DE	197	2022012	HITTERS SE	CHENT LO	SHEDRIN	FIGURE AND	DEL PROPER	ADDISHESS.	12 12 CECH	STATISTICS OF THE		Danie Life			4431163	H19674-70159	TROUTE IN		THERE BERRY	HINUM			1216 HN					HIELEN	BUNDAN.	SECULIA	
	CUR-1	2014 08 08	22.1	<0.1	0.14	1 6.35	< 0.1	< 0.5	< 10	< 0.09	16,300	< 0.6		0,65	< 30	< 0.05	0,71	1,940	1,61	40,05	0.316	< 0,5		< 0,5	1,670	4 0,01	862	< 0,01		<b>4 10</b>	0,127	41	T
	QUR-1	2014 08 07	23.8	< 0.1	0.13	d,34	< 0.1	< 0.5	< 10	< 0.03	16,400	× Q.5	< 0.1	0.68	< 70	< 0.05	0.77	1,970	1.35	< 0.05	0.305	4 0.5	484	195	1,650	< 0,01	859	< 0.01	< 0.1	< 10	0.135	41	Т
	QUR-1(11:33)	2014 08 08	24,2	<0.1	0.13	5,42	4 0.1	< 0.5	4 58	4 0.01	17,300	< 0.6	40,1	0,84	48	< 0.06	0.51	2,010	1.42	< 0.06	0.263	< 0.8	474	<05	1,670	< 0.01	840	< 0.01	<0,1	< 10	0.14	41	1
	QUR-1(15:47)	2014 OB GA	20.4	40.1	0.13	6.20	40.1	<0.5	< 10	4 0.01	17,100	< 0.5	< 0.1	0.82	< 30	< 0.05	0.55	5.030	1.27	< 0.05	0.281	< 0.5	470	«Q.5	1,670	< 0,01	885	- 0.01	= 0.1	~ 10	0,143	97	
	QUR-1(10:00)	2014 08 09	27.8	<0,1	0.12		< 0.1	< 0.5		< 0.01	17,400	< 0.6	< 0.1	0.72	23	< 0.05	0.71	2.040	1,73	< 0.06	0,346	< 0.6	472	< 0.5	1,640	< 0.01	872	< 0.01	<0.1	< 10	0,157	-61	4
	DUR-1(14:30)	2014 QB 09 2014 QB 10	26.2	40.1	0,14	5,31	<0.1	< 0.5	< 10	< 0.01 < 0.01	17,200	< 0.5	< 0.1		31 < 30	< 0.05 < 0.05	0.99 < 0.5	2,030	1,15	< 0.05	0.267	4 0.5		< 0.5	1,690	< 0.01	861		< 0.1	4 10 < 10	0,183	41	-
	QUR-1(10:10) QUR-1(17:45)	2014 US 10	19.5	€ 0.1	0.12	\$.11	< 0.1	+0.5	< 10	< 0.01	18,600	= 0.5	40.1	0.61	< 30	< 0.05	0.54	1,940	1.2	< 0.06	0.217	<0.5	481	< 0.5	1,640	4 0.01	300	< 0.01		< 10	0.145	<1	+
	DUR-1(11:18)	2914 00 11	23.5	F0.1	0.14		< 0.1	<0.5	< 10	< 0.05	18,400	4 0.5	< 0.1	0.84	< 30	< 0.05	0.96	1,900	1,39	< 0.06	0.200	< 0.5		< 0.5	1,960	10.0 >	873		< 0.1	< 10	0.141	41	1
	QUR-1(17:12)	2014 08 11	23.6	₹0.1	0.13	8.41	× 0.1	< 0.5	< 15	+0.01	18,500	< 0.5	< 0.1	0.86	< 30	< 0.05	0.82	1.910	1,37	< 0.05	0.293	< 0.5	480	< 0.5	1,590	< 0.01	950	< 0.01	< 0.1	4 10	0.13	<1	_1
	QUR-1(14:04)	2014 08 12	10.6	< 9.1	0.14	5,25	< 0.1	<0.5	× 10	< 0.01	18,400	< 0.5	< 0.1	0.66	< 30	< 0.05	0.86	1,890	1,57		0.304	<0.5		4 E E	1,630	< 0.01	880	< 0.01	< 0.1	4 90	0.120	41	
	QUR-1(10:34)	2014 08 12	20,4	40,1	0.13		< 0.3	< 0.5	< 10	4 0.03	16,300	< 0.5	<0,1		< 30	< 0.05	0.81	1,970	1,19	< 0.05	0,317	< 0,5	475	< 0.5	1,600	4 0.01	857	4 0.01	€0.1	< 10	0,132	41	_
	CHH-1(30:00)	2014 08 12 2014 08 13	15.0	<0.1	0.14		< 0.1 < 0.1	< 0.5	< 10		16,600	< 0.5	< 0.1	0.65	< 30 < 30	< 0.05	0.64	1,880	1,45		9,311	< 0.5	462	< 0,5	1,610	4 0.01 4 0.01	881	< 0,01	401		0.136	<1	-
	Q42R-1(G4:Q0)	2014 08 13	18.6	< 0.1	0.15	E41	< 0.1	<0.5	< 10	< 0.01	18,600	< 0.5	< 0.1		4 30	< 0.05	0.62	1,950	1.38		9,312	405	468	4 0.5	1,800	< 0.01	856	4 9.01	<0.1	< 10	0.131	61	~
	QUR-1(13:10)	2014 08 13	10.0	< 0.1	014	5.43	< 0.1	< 0.5	4 10	< 0.01	18,400	< 0.6	40.1	0.63	< 30	< 0.06	0.94	1,630	1.22	< 0.08	0.316	< 0.6	480	< 0.5	1,500	- 0.01	863	4 0.01	<0.1	× 10	0.134	<b>«1</b>	"
	QUR-1(20:00)	2014 06 13	15.8	4 0,4	0.16	5.3	< 0.5	< 0.5	< 10	< 0.01	16,200	0.62	< 0.1	0.62	4 30	< 0.06	0.74	1,030	1.32	*	0.331	0.64	405	4.0.5	1,580	< 0.01	840	4 0.01	< 0.1	<b>4 10</b>	0.131	47	
	QUR-1(14:45)	2014 08 14	16.4	<0.1	0.13	5.39	< 0.1	* CS	4 10	< 0.01	18,300	< 0.5	₹0.1	0,6	< 30	< 0.05	0.67	1,910	1.30		0.316	< 0.5	482	< 0.5	1,570	< 0.01	843	< 0.01	< EL1	< 10	0.126	e1	J
	QUR-1X(14:80)		18,7	= 0,1	0,16	5,44	₹,0 >	< 0.5	× 10	< 0.01	18,000	< 0.5	4 0,5	0.64	< 30	< 0.05	6.74	1,860	1,41		0.326	= 0.5	470	4.6.5	1.530	4 0,01	854	4 0.01	< 0.1	< 10	0,136	41	4
	CHURCH PARTY OF THE CHURCH OF	2014 OE 14	19.5	11 (12 ) A (12	0.16	5.46	4 9 1	< (-)	10 10	= 0.01	16,400	< 0.5	< 0.1	0.62	× 30	< 0.0i	6.78	1,970	1.53		0.314	< 0.6	47	1 4 B.S	1,000	< 0.01	# HTT 12 11 11 11 11 11 11 11 11 11 11 11 11	< 0.01	< 0.1	< 10	0.134	i si	4
	QUR-1(12:00)	2014 08 14	14.7	0.56	0.17	5.48	₹ 0.5	45.5	< 10	< 0.01	16,300	< 0.5	*Q.1	0.56	< 30	< 0.05	0.7	1,800	1.60		0.324	105	476	<0.5	1,560	< 0.01	980	< 0.01	40.1	< 10	0.136	41	1
	QUR-1(20:00)	2014 08 14	19.2	< 0,1	0.17	5.08	₹ 0,1	6.3	K 113	< 0.01	16,400	4 0.5	40.1	0.81	< 30	< 0,05	40.5	1,950	1.87	-	0.335	< 0.5	472	× 0.5	1,630	4 6.01	801	4 9.01	< 0.1	4.10	0.127	41	
	QUR-1(04:00)	2014 CR 15	22,1	5.1	2,16		40.9	<2.5		< 0.01	18,400	₹ 0.5	«Q1	0.64	< 30	< 0.05	< 0.5	1,940	1,8	•	0.323	< 0.5	478	< 0.6		< 0,01	346	< 0.01		< 10	0.122	41	
	QUR-1(12:00)	2014 08 15	16	₹0.1	0.14		< 0.1	46,5	< 10 < 10	< 0.01	19,300	4 Q.S	< 0.1		4 30 4 30	< 0.05	4 Q.5	1,930	1.26		0.324	< 0.5	470	< 0.6 < 0.5	1,630	< 0.01	880	4 0.01 4 0.01	< 0.1	< 10 < 10	0.128	41	
	QUR-1(13:20)	2014 08 15 2014 08 16	10.8	€0.1	0.16	5,58	< 0.5	< C.5 < C.5	4 10	< 0.01	10,300	< 0.5	<0.1	0.83	430	<0.05	0.71	1,000	1.54		0.316	< 0.6	486	40.6	1,680	4 0.01	537	< 0.01	< 0.1	< 10	0.137	- 71	-
	ONY-1(30/00)	2014 08 18	13,5	< 0.1	9.13	5,38	4 8.5	45.5	₹ 10	< 0.01	16,800	4 0.5	< 0.1		4 30	₹ 0.05	0.71	1,000	1.13	-	0.328	4 0.5	462	< 0.5	1,030	4 0.01	861	4 0.01		< 10	0.142	41	4
	QUR-1	2014 08 17	20	<0.1	0.13		< 0.9	44.5	< 10	< 0.01	10,400	≠ 0.5	40,1		< 30	< 0.05	0.83	1,620	1.36		0.312	< 0.5	479	4 0.5	1,600	4 0.01	875	< 0.01	<b>∢</b> Ω.1	< 10	0.132	41	
	QUR-1(20:00)	2014 06 17	23.4	< 0.1	0.11		4 6.1	45.5	< 10	< 0.01	16,700	< 0.5	< 0.1	0.83	< 30	<0.05	0.85	1,830	1,44		0.284	< 0.5	467	4 6.5	1,616	< 0.01	848	# BJ01	< 0.5	4 16	0.143	« ¶	
	QUR-1(04:00)	2014 08 1R	18.3	< 0.1	0.12		4 0.1	46.8		< 0.01	10,700	< 0.5	<0.1			= 0.05	0.63	1,030	1.5		0.298	< 0.8		4 0.5				4 0.01		< 10	0,133	<b>«1</b>	4
	QUR-1(00 14)	2014 06 18	27.7	40.1	0.13	5.34	4 0.1	40,5	< 10	< 0,01	18,800	< 0.5	40.1 40.1		< 30 < 30	4 0,05	0.60	1,620	1.76		0.304	<0.5 <0.5	447	10.5	1,610		871	< 0.01	40.1	< 10	0.137	41	
	QUR-1(12:00)	2014 08 18 2014 08 18	20,1	481	0.13	5.50	< 9.1	<0.5	e 10	< 0.01	17,300	< 0.5	< 0.1		< 30		0.82	2.000	1.26	1	0.32	< 0.5	493	4 0.5	1,050		896	4 0.01	=0.1	= 10	0,141	41	-
	QUR-1(04:00)	2014 08 18	22.5	< 6.1	0.13		40,1	€ ₹1,5	< 1D	< 0.01	17,000	< 0.5	< 0.1		< 30	< 9.05	9.85	1,970	1.02		0.311	40.5	486	< 0.8	1,840	< 0,01	802	< 0.01	40.1	< 10	0.137	1 41	=
	CUR-1(12:00)	2014 08 18	21.4	< 0.1	0.16	5 8.30	49.1	c [1.5	< 10	< 0.01	16,700	<0.5	401		4 30	< 0.05	0.83	1,920	1.96	1 :	6,300	<03	477	< 0.5	1.800		888	- 0.01	4.0.1	< 10	0.136	41	
	One-1(13.51)	2014 08 19	30.4	< 0.1	0.18	8,30	<0.1	4 (1,6	< 10	< 0.01	18,900	< 0.5	10.1		< 30	49.05	0.74	1,900	1.20	-	0,318	<05	495	< 0.5 < 0.5	1,620	< 0.01	824	< 0.01	< 0.1	< 10	0.142	41	
	QUR-1(39:09)	2014 06 18 2014 06 20	18.1	<0.1	0,13		401	4 CLS		< 0.01	16,700	< 0.6	40.1		4 30	< 0.06	0.78	1.970	1.28	-	0.28	0.52	445	< 0.5		4 0.01	823		<0.1	< 10	0.129	41	-
	QUA-1(12:00)	2014 06 20	24.4	≤0.1	0.13		# D.1	4 (1.5		< 0.01	17,000	< 0.6	40.1		4 30	< 0.06	0.86	1,800	1.57	-	0.24	< 0.5	454	< D.S		< 8.01	828	S 0.01		< 10	0.132	*1	
	QUA-1(16:40)	2014 GB 20	30.8	<0.1	0.13		< D.1	4 (1.6	< 10	4 3.01	17,100	105	₹0.1		₹ 30	< 0.05	0.00	2,010	1,71		0.29	< 0.5	473	< 0.6	1,620	4 6.01	846	< 0.01	<01	< 10	0.137	<1	-
	QUR-120:00	2014 09 20	23	< 0.1	2.18		< D.1	e lus		< 9.01	17,200	< 0.5	< 0.1		< 30	<0.65	0.52	1,960	1.36	*	0.331	< 0.5	473	< 0.5	1,610		871	0.013	<03	< 10	0.141	41	-
	QUR-1[04:00]		32.3	<01	0.15	0.0	< 0.1	< 0.5		< 0,01	17,300			1 1.41	< 30	< 0.05	< 0.5	1,000	1,36	*	D.500	< 0.5		405					<0.7	< 10	0,142	41	
	QUR-1(12:00)	2014 08 21	53.7	40.1	0.15		< 0.1 = 0.5	< 0.5	< 10 × 10	< 0.01	17,200		< 0.1		43	< 0.05	< 0.5 D.64	1,850	1.76	-	0.309	<0.5		< 0.6	1,430		807	< 0.01	< 0.1	< 10	0.145	×1	,,,,,,,
	QUR-1(16:28)	2014 00 21	38.7	401	0.16		« D.1	< 0.5	× 10	< 0.01	17,300	< 0.6	< 0.1		4 30	< 0.05	0.62	1,870	1.91		0.300	< 0.5	495	4 0.5	1,640		863	4 0.01	40.1	< 10	0.144	41	-
	QUR4(04:00)	2014 08 22	30.7	0.1	0.13		= 0.1	< 0.6	410	< 0.01	17,400	< 0.8	401		32	< 0.06	0.52	1,880	1.02	a constitute	0,322	< 0.5	480	< 0.5	1.660		867	< 0.01	< 0.5	< 10	0.142	41	
	QUR-1(10:40)	3014 96 22		< 0.1	0.17			< 0.5	4.10	< 0.01	17,400	40.6	₹ 0.1	2.02	70	< 0.05	< 0.5	1,040	3.22		0.314	< 0.5	480	= 0.5	1,710	4 0.01	874	< 0.01	= 0.1	< 10	0.182	<1	1

Amendment of ALP five, 1-integer of p. 1-integ

Concentration greater than DCHIQO Aquatic Life (AVM) guideline.

EDLD Concentration greeker than BCWCO Directory Weter (IDM) guideline. [[[]]] Manage | Consentation guster than BCACG Assent Life (30day) (AN) guideline.

ECLO Concentration greater than or aqual to Conaction Dranking Water Quality (DW) guideline,

- \* Laboratory detection limit out of range,

  § British Celembra Appressed Water Quality Guidelther 2006 Edition, radiated 2014,

  A Consperandors of Working Weter Chally Carallelmes to Littletis Cobmisse, spotential August 2006.

  \*Guideline varies with jet, ended of the Transperticus of Herdrindes.

- \* I seabli Caswab Ernang Water Guidalnes, 3012.

  \* Suddiliny to Nitrate casses.

  \* Quidalny to Nitrate casses.

  \* Couldalny to Nit

TABLE 1s: Summary of Analytical Results for Mount Policy, Quesnal Lake and River - Surface Water

			-		-	Phy	yalcai Para	itiolete.				Micros Dic	gical Tasts						rotal	porhavio	-			,		
Sample	Sample	Semule	Hardrines	pH (field)	pH	Temperature (field)	Furbidity	Conductivity	TDS	TSS	BOC	Total Coliform	E. Coll	Total Kjeidahl Niirogen (N)	Total Nitrogen (N)	Aramonia Nikogen	Nitrate Hitrogen	Mittelle	Nitrate+Nitrite Nitrogen	Chlorida	Fluoride		Yotal Atlantin by (se CaCO3)	Broinide	Ortho- phosphete	Total Phosphore
Location	10	(yyyy mm dd)	(mg/L)	(pH)	(pH)	(C)	(UTIN)	(uSicm)	(mp/L)	(mg/L)	(mg/L)	(MPHIO.1L)	(MPNIO.TL)	(mg/L)	(mg/L)	bigd.l	(agr.)	(agit.)	(uga.)	(mg/L)	(Jagalla)	(eng/L)	(mg/L)	bmg/Li	(mgA.)	bright.
Guideletes			-	-					-	_				,			-			-	U88.2-	-				
SCWQG Aqualic L	se (AW)**			6.5-9.0	0.5-0.0	+/-1 Degree	Change of	n/e	nie	charge of 25	*20% of	Ma	198	eva .	nis	5,680-18,400*	32,600	80 (CI<2)	32,900	600	1,224.3*	n/e	n/a	nie	nie	0.000-0.01
BCWOG Aquatic L	se (30dey) (AW)		ri/e	rie	n/s	striblent	Change of 2 Change of	n/a	nie	Of 5	background	n/s	n/a	n/a	nis	1,090-1,770	3,000	20 (01-2)	3,000	150	n/a	126-3094	rela	es/m	n/a	n/a
BCWGG Drinking V	Water (DVO*5		0/2	6.5-8.5	6,5-8,5	re/al	I I	n/a	nh	No.	g)/a	7/6	W100mi	1P/8	run.	19/0	10,000	1,000	10,000	290	1,000	500	n/a	n/e	rs/a	0.01
	Water Quality (DW)*		n/s		8.5-8.5	(Va	no.	nia	500	n/a	rv/a	n/a'	Gricomi	0/4	nu	n/a	10,000	1,005	79/2	750	1,500	600	riva .	rife.	n/a	n/e
DUR-1	QUR-1	2014 08 23	51.2	B.08	7.84	14.7	1.05	99.7	70	*3	2.03	~			0,151	< 5	80.7	41	- A	< 0.5	34	5.00	45.5	4	< 0.001	< 0.002°
	QUR-1	2014 08 24	52.8	1 7.73	7.89	14.4	0.67	102	61	*3	≺ 0,5				0.176	< 5	55.1	K 1		<0.5	35	5,82	45.7		4 0.001	< 0.002*
	QUR-1-4:00	2014 06 24	52	1 .	7.0		0.66	102	*	<3					· ·	*	77	-1		€ 0.5	35	5,65		4		
	QUR-1-1290	2014 08 24	50,9		7.1/3		0,81	103	lie.	<3							83.4	4.5		< 0.5	35	5.87			-	-
	QUH-1-16:00	2014 08 24	21.5		7.96	-	1.1	103		<3	2000	-			*	+	90.7	41		<05	35	6.02				The second second
	QUR-1-20.00	2014 08 24	51,3	-	7.86	-	0,66	102	-	<3							86.7	41	7	< 0.5	33	5.85	Transfer of the Contract of th			
	QUR-1	2014 DE 25	61.3		7.58	- Charle	1.06	104		43		-				-	97.8	K1		<0.5	35	6,04	*			
	QUR-1-08-00	2014 08 25	61.7		7.99	-	1,14	103		43	-			-			85.4	41		< 0.5	35	6.02				
	QUR-1(11:21)	2014 08 25	51		7.64	-	1.20	102	72	<7	214	2	-		0,153	< 5	01.7	41	4	< 0.5	35	5.04	46		< 0.001	4 0.003*
	QUR-1-16:00	2014 08 25	52.2	90.9	6.01	14,6	1,03	103	14	< 3		*				water a control	79.8	41		< 0.5	35	6		< 0.05	-	
	DUR-1	2014 08 25	51.1	6.17	8	16.4	0.54	102	63	<3	2.14				0.143	< 5	54.6	4.1		405	35	5.91	45.9		< 0.001	4 0.002°
	QUR-1X	2014 05 26	51,5	8.17	7.98	16.4	0.75	102	63	<3	2,17				0.148	< 5	65.1	*1		<05	38	5.91	45.7		< 0.001	< 0.002°
	利用物質はないます	<b>元》。到时间</b>	<b>SHOCOVA</b>	保証の記述	相談祖信	1676 360		THE OTHER	研究群	HERMAN	TERESELECT		直接開發的	報告的問題	金属混合的	好到到。这种	CHARLE SHE	HATTER			all the state		THOUSAND .	REPORT OF	到根据100	<b>编加的福</b>
	QUR-1-00:00	2014 08 26	51.5		7,67		0.67	103		<3							74.5	41		< 0.5	35	5.99		< 0.05		-
	GUR-1-8:00	2014 08 26	50,0		8.02	-	0.83	103	-	43					+		67.2	<1	-	< 0.5	35	5.94		< 0.05		
	QUR-1-15 00	2014 DB 26	49	*	7,99		0.76	102		<3		True Section			-		64.9		•	< 0.5	33	5,97				- avenue
	QUR-1	2014 08 27	50.9	8.19	8	17.2	0.8	903	73	<3	2.02		-		0.132	< 5	60	<1		€ 0.5	34	5,63	45.4	*	< 0.001	< 0.007*
	QUR-1-00:00	2014 08 27	47.4	-	7.97		1.23	102	4.5	3	-	· · · · · · · · · · · · · · · · · · ·		-		· ·	60.7	•1		405	35	5.95	*		E STORY	-
	QUR-1-55:00	2014 08 27	50.1	-	7,97	-	0,76	97.9		<3 <3	-	* *****	*	- :	*	-	56.9	<1		< 0.5	33	5.72			-	
	QUR-1-18:00	2014 08 27		-			0.55				7.00			-	0.131	TAXABLE MARKET	54.8	4.1	-	< 0.5	35	5.86	44.4		< 0.001	0,0022
	QUR-1	2014 08 28	49	-	7.93		0.56	100	67	< 3	2,02				0.531	×5	57.6	41	:	*05		5.93	444	-	- 111001	DOWNER
	QUR-1-00:00	2014 08 28	_		7.97		0.89	101		43		-	***************************************				55.d	1.1	-	< 0.5	35	5.91				
	QUR-1-08:00	2014 08 28	49.9	8,17	7.95	17.6	0.67		00		1.82		-		0.143		53.0	* 1		+05	34	5,8	45.2	-	₹0.001	« 0.002°
	QUR-1	2014 08 29	45.3	8,17	7.85	17,5	0.62	98.9	00	43	1,82	-		-	U.143	< 5	53.7	41	-	< 0.5	34	6,79	45.2		* 0.001	- 0.002
	QUR-1-0:00 QUR-1-8:00	2014 08 29		1:	7,94		0.72	98.0	-	*3		-					54.6	<1		< 0.5	34	5.85		******	-	
	QUR-1-18.00	2014 08 29		-	7.04	-	0.51	99.7		< 3	-	-	-	-			54.0	41		<05	35	5.68	-			-
CIN.1	QUL-1	2014 08 08	48	6.13		20.4	0.35	94,6	59	e3	2.16				0,146	<b>45</b>	50.3	- 1	-	< 0.5	31	5,6	43.8	-	4 D 001	< 0.002*
			48.3	8,13		20.6	0.33	84,6	58	43	2.06		-	-	0.152	45	46.3	61	-	*05	31	6.50	43.7		< 0.001	< 0.002°
QUL-2	QUE-2	2014 08 06	48,8	7.79	7.98	18.0	0.40	05.4	84	43	2.38	*	-		0,136	×5	34.8	41		< 0.5	35	5,54	43.5	41	< 0.001	< 0.007
	QULZ		48.5			20.2		97.5	07	<b>43</b>	2.39	-			0.130	45	52.3	-	-	< 0.5	34		43.7		< 0.001	< 0.002
	QUL-2	2014 09 11		7,89	7.95		0.27		54		2.58	-	*********		0.130	45		41		105	36	5,64	43.2	-	< 0.001	< 0,000°
	QUL-2-0M	2014 08 16	46.5	8,07	7,97	20,2	0.4	95		₹3		-	*				42.5		-					-		
	OUL-2-10M	2014 08 16	50,6	7,59	7,93	12.1	0.3	97.7	80	<3	1,97			- 1	0.14	<5	86	<1	*	< 0.5	36	5.75	44.4	-	< 0.001	< 0.002
	QUL-2-30M	2014 05 16	53.3	7.62	7.84	4.7	1.04	107	68	€3	1.81	-		-	0,181	<5	141	×1		< 0.5	38	6.34	48.1		< 0.001	< 0.002*
	QUL-2-47M	2014 08 21	62.6	7.94	7.68	5.5	46,2	133	80	22.9	1,89	*		- Comme	0.328	28.3	195	41		< 0.5	55	12	95.4		0.0407	0.21
	QUL-2-64	2014 08 25	49.5	7.93	7,97	18,4	0.27	90.4	64	<3	2,03				0.131	4.5	47.0	×1		* 0.5	35	5.76	43.6		< 0.001	< 0.002*
	DUL-3x-0W	2014 08 25	40,6	7.63	7.07	16.4	0.24	68.3	67	43	1.07			*	0.132	< 5	40	41	-	< 0.5	34	5,78	44.3	-	4 0.001	0.0158
	MINITED CAGC	RED WILLIAM	ACCORDED			THE CONTRACT	فتنا أخته فتحتث الطاب	CHEST ACTION	410 6177	Section 1	S STREET, AD STR	HERE SECTION	anungan	The state of	REALITYMENT	And the second second second	74.7	masua	memor adam	SERVICE OF	A ANNA DISCOURSE OF	print Distri	RATE OF THE PARTY OF	RECEIVED IN	DESCRIPTION OF THE PARTY OF THE	MIND CHE
	GUL-2-6M	2014 08 25	50	7.04	7.95	16.1	0.27	99,9	79	43	1.6			-	0.145		166	41		< 0.5	34	5.85	45 51.1	-	0.013	0.07454
	OUT-5-40W	2014 00 25	50.6	7.56	7.91	5.9	17.9	119		11.7	1.71	-	-		0.240				-	< 0.5					0.0089	
	CUL-2-6M	2014 08 27	49.5	7.07	7,98	15,9	0.25	96.2	63	< 3	2.1	-			0,12	<5	43.6	<1	-	405	34	5.76	44.6		0.001	< 0,002*
	QUL-2-15M	2014 08 27	50.7	-	7.97		3.55	102	65	<3	2.06	*			0.15	<5	81.8	×1	-	< 0.5	35	6.11	45.6	-	+0001	< 0.002°
	GUL-2-4244	2014 08 27	63		7.97		49	135	107	11.3	1.02	-	-	-	0.20	33.1	186	<1		< 0.5	56	12.8	54.1		0,0019	0.0034
	QUL-2-GM	2014 08 29	49.5		7.91		0.45	95.6	56	<3	2.3	-		- cross comme	0.124	< 5	44.8	41		< 0.5	35	5.73	44		< 0.001	< 0.005,
	OUL-2-37M	2014 (0) 29	55.2		7.46	-	8.62	110	48	6.8	1,79	-			0.215	5,3	150	41	-	* O.ti	40	7,18	698		< 0.001	4 0.002°

Assertated ALB file: 1-4909-9, 1-4909-2, 1-4909-9, 1-490

[[1] [MANAGER [[1]] | Governmenter granter from ECWGG Acquire Life (AM) quantities BOLD Contemporation greater Blant DOWOLD Drinking Water (EW) guideline.

Concentrating greater there is equal to Consider Deriving Chair guideline

Descentration greater there are equal to Consider Deriving Water Chairs (DW) guideline

8)1717/2010 silv 11

ini Cermios ne explanate siance d

" MPI)s are not normally calculated where one of more concentrations are less than the finns MOs.

<sup>\*</sup> Lelicentary detection limit out of surge.
\* Les his Columbia Approved When Coulety Outselbres 2004 Eather, tydespo 2014.
\* A Georgement of Missings When Coulety Cubstriers by Utiliain Cellurios, unbited August 7664.
\* Gunterior varies with juri, and/out either Tempanature or Hersburg.

<sup>\*</sup> Health Care-do Dimberg Waller Cueleden, 2012.

\* Becompany Fritains of extreme value, not. 30 day maken.

\* Out-dime for Mallists applicable.

\* This list of problems pay address and in the second on applicable for sits excession.

\* Cueled the formation of extreme and in not applicable for sits excession.

\* Cueled the formation of extreme and in not applicable for single extreme and in not applicable extreme and in not applicable for single extreme and in not applicable extreme and in not appl

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

												7			Disective	ed Mutais													T	7
Sample Excation	Sample	Date (yyyy mas dos	Dissolved Aluminum ApplL)	Discoved Calcium (mg/L)	Iron (pg/L)	Magnesium (mg/L)	Disselved Mangerese (pg/L)	Potassium (mg/L)	Bodium (mg/L)	Anthrony			Serylllum (upf.)								Mercury (ug/L)	Molybulenum (up.L.)							Vanadium (ag/Li	
Guidelines		11////	3731-47	, , ,	Wat S	Ludhin	1 19974		1,000	494	- gages	- Green	deline	[ Dallares	1000-00	la A c	- deput	influe)	[bob.et]	2000	(Mic)	(agr-r	- Policy	2021	No.	1000	WH'S	1 indired	Brillian	1,1997
SCWQG Aqualic (	ille (AMI) <sup>k.*</sup>		100*	n's	350	No.	N/a	We	n/a	rife	169	IV's	n/a	74	n/e	r/a	n/s	N/a	n#	rsia .	rva	n/I	n'e	rva	n/m	n/a	rive	m	n/a	n/a
BOWQG Aquatic L	Se (30day) (AYI)***		50"	nia	Na	n/s	n/a	Na	n/a	nia	nia	nia	rela	TVE	1/0	nie	n/a	n/a	n/a	n/a	no	15/8	nle	nia .	n/a	1/0	6/0	n's	m'a.	n/a
BCW/QG Drinking t	Water (DW)h.*		200	rite	n/a	7/9	nie	n/a	n/e	nie	nis	rva .	n/s	PVG	rie	n/e	n/a	m/a	. Sym	nix	nie	D/B	Na.	n/a	n/a	TVS.	nva	rye.	40	25/8
	Water Quality (DW)*	-	n/a	n/a	r/u	n/a	n/a	r/a	rsia	n/e	n/o	n/e	r/a	n/a	778	N/a	N/a	n/a	Na	n/s	n/e	rua .	nia	n/a	0/5	nia	n/u	n/a	n/u	61/0
OUR.I	OUR-1	2014 09 23	10	17.5	< 30	196	0.597	0.47	C.869	< 0.1	0.12	5.5	< 0.1	< 10	< 0.01	e 0.5	< 0.1	58.0	€ 0.05			6.28	€0.5			40.01	€ 10		4.1	43
40	QUR-I	2014 08 24	9	17.7	< 30	3	0.838	0.474	D.85	< 0.1	0.12	5.52	401	4 10	≠ 0.01	4 0.5	401		< 0.05			0.274	405			4 0.05	< 10	0.138	41	43
	QUR-1-4:00	2014 08 24	-		*	-	-	-	-	· ·	-					1		-	-	4		7.4.4	- 0.0	- 0.0	- 100	-0.07	-10	0.130		
	QUR-1-12:00	2014 08 24	and the same						Jestill Caccal	The same		1	-	-							110011		-				Andrew Coper		min months	-
	QUR-1-18.00	2014 08 24		*			-	-	-	-4			*			-		-			×		Annual Contract	DESCRIPTION OF THE PARTY OF THE	111111111111111111111111111111111111111		-	-		1
	QUR-1-20:00	2014 08 24	-	-	*		arm out and an		*	- militarina.	-	PER SE	-		-		-							AND DESCRIPTION		but and	100	1 1,515	770 00	10.3
	QUR-1	2014 OR 25	Contractor Constitution		*				*				COMMUNICATION .	1		STREET, STREET	-	*			*	-	and an extract of	absolute la la la la la la la la la la la la la	Windson.	politica attack	-		*	-
	OUR-1-05 00	2014 08 25		-		-	atte.			and the latest and th				-	- Deleta Librario	Lift double	-		-	-		-		abacter-term	-	-			-	1
	QUR-1	2014 96 25	9	17.2	× 30	1,93	0.845	0.458	0.844	4.0.1	D.1	5.6	× 0.1	1 × 10	< 0.01	< 0.5	< 0.1	1,08	× 0.06	40.5		5.29	₹ 0.5	+ 0.5	< 0.01	< 0.01	5 10	0.139	41	<3
	QUR-1-16:00	2014 00 25				1.87		7.750	- Laterated		-	0.6	7 0.1	- 40	- 0.01	70,0	- 0.1	1,400	4 0.03	- 60	DATE OF THE PARTY	0.20	10.0	40.0	- 0,01	- 0.01	110	the constraint of	-	-
	QUR-1	2014 08 26	10.0	17.2	< 30	1,665	0.702	0.450	0.632	501	0.1	5 40	≠0.1	1 4 10	-	- American	- Contrate and	0.07	Assisted Wheel	0.00	-1-		deres was a second	-	SALVETON NA				-	-
	QUR-1X	2014 05 26	9.9	17.4	< 30	1.07	0.753	0.471	0.658	< 0.1	0.11	5.69	< 0.1	× 10	< 0.01 < 0.01	< 0.5	< 0.1		< 0.05	0.82	*	0.787	< 0.5	< 0.5	< 0.01	< 0.01	410	0.13	<1	<3
	HINTEN OLOCA		MINISTER OF THE	STEEDING STORY	4 30		DUM Charles	CHEDIS ENDS	Q.836	300000000000000000000000000000000000000	2000000		AGEINARD	100	e poi	< 0.5	10.1	G.Sell	* 0.05		71107/1972	0.258	< 0.5	< 0.5 (2)(1)4/(52)	< 0.01	< 0.01	< 10	0.131	K 1	43
		2014 08 26		Simple (BIJ)	CHARLES	REAL PROPERTY.			markan	-	-		HERSENSTAL	-	NAME OF STREET	MATERIAL PROPERTY.	termin	TRESTORY OF	Printing	pizayan.	(相對)加到	SERVICE A RIVER	-	100000000000000000000000000000000000000	RHARIS	2011-0100		THE RE	- Contraction	di sidi
	QUR-1-00:00	2014 08 26		-		-			-	-:		1	-				-						-	-		-:				1.
	QUR-1-16:00	2014 08 26			-		-			-	-			***************************************	-	-	·	-	1 .	-	-	- :	-		-	-:-	-	-	-	+
	QUR-1	2014 08 27	10.5	17.2	*30	1.91	0.662	D.484	0,881	< 0,1	0.13	5.52	< 0.1	* 10	< 0.01	*05	<0.1	0.93	×0.05	0.67			¥ 0.5	A STREET, SQUARE,			4.10			1
	QUR-1-00:00	2014 DE 27	14.3	-		1,501	1,002		0.001		0.13	-		* 10		STATE OF THE REAL PROPERTY.	-		< 0.05	0,67	-	0.788	-	< 0.5	< 0.01	< 0,01	4 10	0,134	<1	*3
	QUR-1-08-00	2014 08 27	-			-			101				-:	(min)	- :-	-		****	- min	-	my ny fia		1:		-	-				1
	QUR-1-16 00	2014 08 27		-		-		-		-	-		-		-		-	-	-		-		-	*	rentere	-		-		1
	QUR-1	2014 68 28	9.7	16.5	<30	1.83	0.504	0.471	0.675	< 0.1	0.11	5.45	10.1	< 10	¥ 0.01	< 0.5	+6.1	0.74	< 0.05	0.44	-	0,289	₹05	< 0.5	× 0.01	- 0.04	< 10	0.138	*	
	QUR-1-00:00	2014 09 28	3.7	10.0	-30	1.83	0.304	0.471	0.670	10.5	4	3,43	10.1	- 10	4 0.01	- 4.0.3	4.0,1	0.74	4005	0.30		U.400	4.0.5	¢ 0.5	4 0.01	4001	< 10	0.138	<1	*3
	QUR-1-08.00	2014 08 28	-	-		-		-			-	1	-	-		-:-	-	_			-		-		-		***************************************	in the second	-	-
	QUR-1	2014 08 29	9.7	5.01	< 30	1.04	0.150	0.455	0.831	< 0.1	0.17	5.55	<0.1	4 10	0.03	< 0.5	401	0.84	4 0.05	0.53		0.273	<0.5	< 0.5	€ 0,01	< 0.01	× 10	0.134	41	
	QUR-1-0.00		3-1	:0,6	- 30	1.04	-	0.450	0,631	*****				OWNERS THE REST OF	THE WHITE STREET	- 0,5		0.04	4 0.05	-					-	100,100			****	*3
	QUR-1-5:00	2014 08 29					· · · · · ·									-			-		-	-	-	*	*			-	-	-
	QUA-1-18-00	2014 08 29		-	-	1	-							*	-		-		*					*	-	*	*		-	
400.0											-		*										-				-			
QULA	QUL-1	2014 08 08	11,7	16,1	< 30	1.6	0.422	0,484	1,04	< G.1	< 0.1	5.19	< 0.1	< 10	4 0.01	< D.5	< 0,1	0.58	< 0.05	< 0.5		0.356	< 0.5		< 0.D1		< 10	0,127	-1	< 3
QUL-2	QUL-2	2014 08 06	11.4	10.2	< 30	1,02	0.443	0.479	1.00	< 0.1	0.1	5.10	< 0.1	< 10	< 0.01	< 0.5	< 0,1	80,0	< 0.05	Section 1 of the Call Street	< 0.05	0.369	< 0,5	< □,5	10,01	< 0.01	4 10	0.126	*1	< 3
	QUL-2	2014 08 08	10.3	16,4	₹ 30	1.89	0.804	0.48	0.841	<0.1	< 0.1	5.39	40.1	< 10	< 0.01	< 0.5	<01	< 0.5	< 0.05	0.61	-	0.298	< 0.5	€0.5	< 0.01	< 0.01	< 10	2.138	41	43
	QUL-2	2014 08 11	11.4	16	< 30	1.87	0.77	0.495	0.846	< 0.1	0.11	5.23	<0.1	1 10	< 0.01	< 0.5	< 0.1	€0,5	< 0.05	0,97		0.26	405	< 0.5	€ 0.01		< 10	0.12	41	×3
	QUL2-0M	2314 Db 10	10.3	10,4	< 30	1,6	0.527	0.468	0.905	1 < D.1	0.12	5.45	<0.1	< 10	< 0.01	≤ D.5	< 0.1	0.54	< 0.05	0.64		0.288	<05	< 0.5	< 0.01	10.01	+ 10	0.124	41	42
	QUL-2-10M	2014 06 16	9.6	17.1	< 30	1.0	0.288	0.453	0.791	<0.1	<0.1	5.1	40,1	< 10	× 0.01	< 0.5	× 0.1	< 0.5	< 0.05	0.72		0.254	< 0.5	405	< 0.01	× 0.03	+10	0.144	41	43
	QUL-2-30M	2014 09 16	5.7	18	< 30	2.02	3,29	0.475	0.924	< 0.1	6,1	5.5	<0.1	< 10	€ 0.01	4 0.5	401	0.71	< 0.05	2.84		0.336	₹0.5	< 0.5	< 0.01	<0.01	< 10	0.184	<1	1 43
	QUL-2-47M	2014 08 21	11.7	21.2	< 30	2.37	53.9	0.732	323	0.15	0.48	13.2	<01	< 10	× 0.01	< 0.5	< 0.1	4.06	< 0.35	0.90		2.02	€0.5	< 0.5	< 0.01	< 0.01	s 10	0.438	×1	43
	QUL-2-OM	2014 08 35	10	16.7	< 30	1,91	0.377	0.456	0.769	< D.1	< 0.1	5.18	<0.1	< 10	< 0.01	× 0.5	×0.1	< 0.5	< 0.05	<05		0.279	40.5	*0.6	- D.01	<001	€ 10	0.133	×1	43
	QUL-2X-QM	2014 08 25	9.6	16.7	× 30	1.91	0.384	0.444	0.796	< 0.1	0.12	5,16	40.1	< 10	< 0.01	× 0.5	- Q1	₹ 0.5	× 0.05	< 0.5	-	0.265	< 0.5	<05	< 0.01	< 0.01	< 10	0.126	*1	1 43
	BITTO BEING AND		HUGHERING	CHIED SHOP	010000000000000000000000000000000000000	CHILLIAN DIVINI	WHIST PRINT	COLUMN DESIGNATION	1001-0101	CONTRACTOR S	999566	GOATEN.	CHORNES	MARKE	HELLING ZALL	100103000	HELENA	(S(S(S)))	12000000	2011 m (12)	00082000	DESCRIPTION OF THE PERSON OF T		Peristance	99891419	BEHALIST	701177010	THE STREET		THE
	QUL-2-8M	2014 98 25	0.0	10.9	* 30	1,61	0.343	0.452	0.883	4 0.1	0.1	5.22	< 0.1	× 10	< 0.01	# D.5	< 0.1	0.57	< 0.00	< 0.5		0.263	< 0.5	4 D.5	× 0.01	< 0.01	× 10	0.133	× 1	63
	QUL-2-40M	2014 08 25	1.3	19.6	< 30	2.21	21.5	0.594	1.53	< 0.1	0.24	8,95	€ 0.1	× 90	4.0.01	4 0.5	<0.1	2.48	< 0.05	0.83		1.47	4 0.5	< 0.5	< 0.01	< 0.01	4 10	0.27	41	43
	DUL-2-0M	2014 08 27	9.0	15.6	4 30	1,93	0.331	0.449	0.835	< D.1	<01	5,1		4 10	< 0.01	< 0.5	< 0.1	-05	< 0.05			0.274	₹ 0.5		< 0.01		* 10	0.135	51	4
	QUL-2-1514	2014 09 27	6.3	17.2	< 30	1,62	1.83	0.449	0.662	< 0.1	461	5.50	×0.1	× 10	4 0 01	< 0.5	<0.1	1,13	< 0.05	0.76	-	0.284	< 0.5	40.5	< 0.01	< 0.01	4 10	0.145		
	QUL-2-42M	2014 03 27	10.9	21.3	4 30	2.30	44	0.011	2.49	0.16	D.48	13.1	<0.1	× 10	< 0.01	× 0.5	< 0,1	4.15					405				4 10		41	1 5
			and without with the business	16.0	Contraction ( v.), No.		0341	Button Karr Lenner Woman											< 0.05		-	3.4		< 0.5	4 0.01			0.434	41	< 3
	OUL-2-0M	2014 08 29	10.8		< 50	1.83		0.407	0.842	<0.1	0.1	5.16	< 0.1	× 16	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.53		0.26	*05	< 0.5	< 0.01	< 0.01	- 10	0.134	* 1	4.3
	QUL-2-37M	2014 09 29	6	18.6	<b>4 30</b>	2.12	9.3	0.533	1.2	401	0.17	6.76	< 0.1	4 10	€ 0.01	€ 0.5	< 0.1	1.7	< 0.05	0.07		0.78	< 0.5	4 0.5	< 0.01	< 0.0t	< 10	0.167	H 1	43

15-5947, 15-5947, 15-5047, 15-

Consumed on greater than govern Aquate Life (NW) guideline. Concentration ground tran LCMCIO Driving Vision (DM) guideline

[2] Concentration ground river BCMCIG Aspects Life (Dday) (AV) guitaline

Concentration greater their or equal to Consellers Dijeting Water Quality (CW) guideline.

\* Laboratory distriction level out of 1 diago:

\*\*District Colonida Approved Whate Charley Chicago Press 2009 Cottom; siphished 2014.

\*\*A Comprehensi on 4 Versiany Wider Charley Submit Please for British Colonia; siphished August 2008.

\*\*Galastine values with pix 4,300 or white Temperatura or Festimes.

\* Secondar Christing Water Chyddrog 2012.

\* Becomdary Christin Experiment value, and 20 seg-maps.

\* Outdate for National Systems of 20 seg-maps.

\* Outdate for National Systems on 20 seg-maps.

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\* This that jumps on yellowine in a major out of the precipitation yellow person on a country of service surround with its respect to the part of service surround with the respect to the part of the precipitation of the precipitation of the precipitation of the part

(2) F17/2014 (0:11

All terms dethed enter the loosy of SHC-Lavainne report (evaluate experiment).

• Demokes concentration less than individual detection and or RPD test than individed value.

<sup>-</sup> Canous analysis not conducted

ruts Denotes to again able yearstend

HIPOs are not normally calculated where one or trusts concantrations are teas than the firms MO.

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

						_								1				Total Me	tala.	1							-			-	-		1
Sample	Sample	Sarrysia Data	Aluminum									Chromium				Lead		Magnesium			Мојурфенип		Potaselum					Traditions				Vanadium	
Gukielines		tyyyy mm de)	(197)	1500	(up/L)	I Shake	1 Indices	11401-1	149.41	PIGAL)	(HD,r)	(µg/L)	( thirt	(Light)	HABITA	(40/L)	(pg/L)	(Mg/L)	(10°C)	( Pilly)	(µg/L)	(Mg/L)	(NENT)	0.004	iles ()	GreatLi	jing/L)	4ndir!	(h(l,r)	(Fight)	(ug·L)	pgiL)	nigr
					1														1,000.6				373,000-						1				1
CWCG Aquets U	e (AVV)		n/a	20	5	5,000	rute	Tivis	1,700	0.016-0.0264	n/a	1 (Cr(+0))	110	6.b-9.Z	1,000	21.3-57.7*	670	1Vis	1,376*	Motive	2.000	35-65"	432,000	2	(Via	0.1*	eve	6.0	75/q	2 000	330	- 6	23,
CWOG Aguatic Li	(30dey) (AW)***		n/è	n/a	n/a	1,000	5,3	19/4	nis	n/a	nda	n/a	14	2-3*	re <sup>1</sup> p	4436	14	n/a	791.1-940	Sustant Sustant pe	1,000	nta	N/a	n/a	n/a	0.05	n/a	ry's	nis	nu	mia	nia	7.5
CYVOO Drunking Y	rate: (DW) <sup>ha</sup>		No	14	25	n/a	4	n/t	5,000	n/a	n/a	nin	n/a	500	refa.	50	nie	nia.	20		250	n/a	n/a	10	n/a	n/a	n/e	2	ren	r/a	p/m	nie	5,00
	Vetor Quality (EW)		100	8	10	1,000	n/a	n/a	5.000	5	rs/e	50	neu		300	10	n/a	Nú	50	1	Na	n/a	n/a	10	Dia.	7/8	200 000	CA.D	rva	rv/a	26	rva	6.00
QUR-1	QUR-1	2014 05 23	63.2	× 0.1		8.16	< 0,1	₹0.5		₹ 0.01	17,400	4 0.5	< 0.1			< 0.05	0.78	2.010	3.12	₹ 0.05	0.264	4.0.5	497	< 0.5	1,680	< 0.01	873	× 0.01	<0.1	€ 10	0.148	3.1	4.3
-	QUR-1	2014 08 24	40	< 0.1	0.13	87.3	4.0.1	€05		< 0.01	17,500	4 0.5	× 0.1		41	< 0.05	0.87	1 960	2.31	-0.00	0.311	405	488	* 0.5	1.680	×0.01	687	< 0.01	< 0.1	× 10	0.151	41	*3
	DUR-1-4:00	2014 06 24	27.3	< 0.1	0.13	6.73	< 0.1	4 0.5		≤ 0.01	17,600	< 0.5	< 0.1		< 30	< 0.05	0.65	1,990	1.50	1 .	0.308	< 0.5	477	- 0.5	1 650	< 0.01	872	< 0.D1	401	+ 10	0.146	31	3
	GUR-1-12:00	2014 06 24	35.6	× 0.1	0.13	5.68	< 0.1	<0.5		< 0.01	17,200	0.5	<0.1		35	4 0.05	0.71	1,630	1.09	1 .	0.331	< 0.5	471	< 0.5	1.540	* 0.01	896	< 0.01	<01	4 10	0 143	41	3.2
	QUR-1-16:00	2014 08 24	54.8	× 0.1	0.17	0.17	< 0.1	<0.5		< 0.01	17,200	< 0.5	€ Q.1		50	< 0.05	405	1,990	2.5		0.290	4 0.5	470	< 0.5	1,680	<0.01	855	< 0.01	×0.1	+ 10	0.148	51	3.5
	QUR-1-20.00	2014 08 24	39.5	< 0.1	0.13	8	< 0.1	495	× 10	< 0.01	17,300	< 0.5	4 Q. T	1,45	34	€ 0.05	0.02	1.970	2.37		0.301	4 0.5	485	€ 0.5	1,660	< 0.01	852	× 0,01	<0.1	< 10	0.143	<1	10.
	QUR-1	2014 06 25	63.9	< 0.1	0.17	6.31	< 0.1	< 0.5	4 10	< 0.01	17,300	< 0.5	€ 0.1	2.31	53	< 0.05	< 0.5	1,980	2.85	1 .	0.284	4.0.5	46G	< 0.5	1,690	< 0.01	848	< 0.01	× 0.1	* 10	0.147	<1	3.4
	GUR-1-09:00	2014 08 25	65.2	< 0.1	0.19	6.47	≪ 0.1	4 0.5	× 10	< 0.01	17,400	< 0.5	× 0.1	2.14	9 03	< 0.05	< 0.6	1,960	3,07		0.315	40.5	479	* 0.5	1,680	4 0.01	853	* 0.01	< 0.1	s 10	0.149	. 41	43
	QUR-1	2014 08 25	68.4	<0.1	0.17	£47	< 0.1	1 0.5	4 10	< 0.01	(7,000	< 0.5	< 0.1	2.41	82	< 0.05	₹ 0.5	1,940	2.85		0.296	< 0.5	478	< 0.5	1,660	< 0.01	854	< 0.01	50.1	< 10	0.144	41	× 3
	GUH-1-1600	2014 00 25	47.6	< 0.1	D.16	9	< 0.1	< 0.5	4 10	< 0.01	17,500	< 0.5	< 0.1	WALES	3.0	0.117	0.57	1.990	2.32	1 .	0.33	< 0,5	478	< 0.5	1,640	< 0.0°	591	< 0.01	< 0.1	< 10	0.144	41	9.6
	QUR-1	2014 08 26	47.1	<0.1	0.13	€.24	< 0.1	×9.5	< 10	< 0.01	17.100	≠ 0.5	< 0.1	1.91	40	< 0.05	0.51	1.070	2,29	< 0.01	0.303	€ 0.5	480	405	1.610	<001	BSE	< 0.01	< 0.1	× 10	0.143	41	4.3
	QUR-1X	2014 00 26	48.5	< 0.1	0.13	0.06	× 0.1	405	× 10	< 0.01	17,000	< 0.5	€ 0.1	1.89	30	< 0.05	0.0	1,950	2.28	4 0.01	0.32	+ 0.5	450	< 0.5	t.590	= 0.01	BIGD	× 0.01	< 0.1		0.137	41	*3
	QAGOR	P5 William	SLORE DATES	CORUMNIA DE	DESCRIPTION OF THE PARTY OF THE	48 H 3 W	altin Juli	o minima o	Berthall .	CONTRACTOR OF THE PARTY OF THE	BELLEVILLE.	THE PERSON	District	Alimentalia	EZHEH7	Contraction of the	DOM: NO	White Barrie	THE PROPERTY OF	I CONTRACTOR	STORTER SHAPE	THE PERSON NAMED IN	INDICEDIATE	ASTRI DESI	HIN 1000	DESCRIPTION OF THE PARTY OF THE		BORNE AND RE		(ESCHENING)		SERVICE SERVICE	TOTAL V
	CLUR-1-00:00	2014 08 26	52.4	< 0.1	0.13	6,17	< 0.1	< 0.5	< 10	< 0.03	17,400	< 0.5	€ 0.1	2.12	38	< 0.05	0.55	1.970	2.23		0.343	< 0.5	475	+05	1.640	< 0.01	853	< 0.01	<0.1	5 10	0.142	61	4
	GUR-1-8:00	2014 00 26	41.2	× 0,1	0.15	1.05	# Q.1	< 0.5	× 10	× 0.01	17,000	₹ 0.5	< 0.1	1.58	31	4 0.05	0.57	1.940	2.06		0.396	× 0.5	489	- 05	1,610	< 0.61	873	< 0.01	< 0.1	4 10	0.145	41	*3
	GUR-1-16.00	2014 08 26	27.8	< 0.1	0.14	5.83	<0.1	< 0.5	× 10	< 0.01	16,500	< 0.5	<0.1	1.47	≈ 30	< 0.05	0.67	1,900	2.7		0.316	40.5	479	× 0.5	1.520	< 0.01	904	< 0.01	401	< 10	0.140	41	43
	QUR-1	2014 08 27	38.9	40,1	D.14	6,03	<01	405	< 10	< 0,01	16,500	< 0.5	< 0.1	1,84	32	4 0 05	0.64	1,940	2.29	< 0.01	0.310	< 0,5	433	405	1,560	< 0.01	902	< 0.01	+0.1	< 10	0.10	41	43
	QUR-1-00:00	2014 96 27	29.0	< 0.1	0.13	5.8	< 0.1	<05	× 10	< 0.01	15,8D0	₹0.5	× 0.1	1.53	< 30	< 0.05	0.65	1,840	1.68	4	0314	< 0.5	461	+ 0.5	1,480	< 0.91	898	* 0.01	<0.1	4 10	0.142	41	3.1
	QUR-1-08:00	2014 08 27	32.7	< 0.1	D 15	- 4	< 0.1	4 0.5	* 10	< 0.01	16,900	< 0.5	401	1.53	< 30	< 0.05	0.65	1,940	1.73	1	0.304	< 0.5	465	<05	1570	< 0.01	900	40.0%	< 0.1	× 10	0.143	51	3
	QUR-1-15:00	2014 69 27	42.5	< 0.1	0.14	5.04	< 0.1	\$ < 0.5	4.10	< 0.01	16,700	< 0.5	€ Q.1	1.47	34	< 0.05	0.62	1,930	2.11	-	0.306	4 0.5	478	< 0.5	1.580	< 0.01	880	10.01	4 0.1	< 10	0.136	41	3.2
	QUR-1	2014 00 26	40.5	€ 0.1			< 0.1	< 0.5		< 0.01	16,900	< 0,5	40.1	1,37	42	< 0.95	0.82	1.950	2.1	< 0.01	0.286	< 0.5	487	405	1,680	< 0.01	MRC	< 0.01	4 0.1	< 10	0.144	<1	4.3
	GUR-1-00:00	2014 28 26	41,7	< 0.1	0.14		₹0.1	₹ 0.5		開業(所)(2.43)	17,300	< 0.5	€ 0.1	1.58	40	= 0.05	0,6	1.970	2,35	7	0.303	€ 0.5	490	405	1,590	4 D.01	8565	4 Q.D1	< 0.1	× 10	0.141	41	4
	QUR-1-06:00	2914 08 26	29.1	< 0.1	0.14	18.2	€ 0.1	€ 0.5	4 10	< 0.01	17,200	< 0.5	< 0.1	1,24	< 30	< 0.05	0.50	1,980	1.45		0.303	< 0.5	483	-05	1,590	× 0.01	891	< 0.01	× 0.1	× 10	0,141	41	43
	QUR-1	2014 58 20	37.8	<01	0.23	5.69	< 0.1	40.5	110	< 0.01	16,700	≪0,5	0.49	1,31	37	* D.05	< 0.5	1,940	3.00	< 0.01	0.28	< 0.5	474	+ 0.5	1.550	< 0.01	857	× 0.0%	< 0.1	< 10	0.138	4.1	< 5
	QUR-1-0.00	2014 08 29	25,4	<0.1	0.36	5.06	≺ 0.1	<0.5	× 10	0.101	17,700	< 0.5	€ 0.1	1.19	₹ 30	≪ 0.06	< 0,6	3.040	1,47	- 4	0.296	4 0.5	474	0,93	1,620	< 0.01	849	< 0.01	< 0.1	4 10	0.142	-3	3.5
	QUR-1-8:00	2014 06 29	25.8	<0.1	1,56	5,45	< 0.1	< 0.5	× 10	0,412	17,400	€0.5	4 D.1	1,75	« 30	< 0.05	€ 0.5	2,010	1,48	-	D.298	0.82	465	0.76	1.580	< 0.01	835	40.01	40.1	4 10	0.137	<1	3.5
	QUR-1-10:00	2014 08 29	20.9	< 0.1	0.28	5.67	< D.1	× 0.5	c 10	0,056	18,000	€0.5	401	1.07	< 30	« D.05	40.6	2.070	1.39	147,1	0.300	< 0.5	482	* 0.6	1.640	× 0.01	801	< 0.01	< 0.1	< 10	0.144	€1	× 3
QULM	QUL-1	2014 08 09	21.7	<0.1	0,1	5.28	< 0.1	< 0.5	< 10	₹ 0.01	16,100	= 0.5	4 D.1	0,71	× 30	* 0,05	₹ 0.5	1,020	1.36	< 0.05	0.266	× 0.5	476	€.0.5	1,610	< 0.01	857	40.01		< 10	0.14	6.1	. 43
QUL-2	QUL-2	2914 98 96	17.6	< 0.1	0.11	5.34	< 0.1	< 0.5	< 10	< 0.01	15,900	€ 0.5	×0.1	0.62	₹30	< 0.05	× 0.5	1.910	1.4	< 0.05	0.302	€ 0.5	473	405	1.590	< 0.01	822	< 0.01	< 0.1	× 10	0.131	*1	×3
	QUL-2	2014 08 09	21.4	< 0.1	0.12	5.57	401	< 0.5	× 10	< 0.01	16.100	<0.5	< 0.1	0.67	< 30	< 0.05	0.61	1.000	1,03	< 0.05	0.303	= 0.5	484	< 0.5	1,550	¥ 0.01	828	< 0.05	< 0.1	< 10	0.130	41	× 3
	QUL-2	2014 08 11	17.5	<01	0.16	5.30	<01	<0.5		< 0.01	16,000	40.5	< 0.1		< 30	< 0.05	0.83	1.880	1.23	< 0.05	0.317	< 0.5	496	<05	1,530	< 0.01	349	- 0.01	× 0.1	× 10	0.131	4.1	×3
	CHR-2-OM	2014 08 18	18.0	< 9.1	0.14	5.52	< 0.1	< 0.5	-	< 0.01	16,000	< 0.5	<01		« 30	< 0.05	0.51	1.870	1,45		0.315	<0.5	477	*05	1.580	< 0.01	836	< 0.01			0.14	- 11	
	CIUE-2-10M	2014 08 15	21	< 0.1	0.11	5.31	101	403	********	< 0.01	16,500	< 0.5	401		× 30	< 0.05	0.52	1.840	1,07		0.268	<0.5	487	TOTAL CANADA	1,520	MONAY STOMATON	Charles Anna	MATERIAL PROPERTY.	< 0,1	< 10	BALLOUS	-	< 3
	CUL-2-30M	2014 08 16	120	<0.1	0.15	7.32	< 0.1	< 0.5	c 10	< 0.01	16,300	505	401		97	< 0.05	40.5			and the second second				× 0.5		< 0.01	810	<b>≠ 0.0</b> 1	<0.1	4 1D	0.151	e1	*3
	DUL-2-47M	2014 08 21	2,810	0.17	1.2	61.0	<01	€ 0.5		0.02	21,100	1018.60	1 25			1.03	2.25	3 150	7.03		0.358	< 0.5	522	< 0.5	1,080	< 0.01	267	* 0.01	< 0,1	4 10	0.198	<1	4.5
	CUL-2-0M	2014 08 25	16.8	<0.1	0.11		-01	*0.5		< 0.01	16,700	<05	<0.1		< 30	< 0.05	× 0.5	1.830	1.15		0.30k	1.6	1,740	<05	7,730	0,023	3,290	0.012	0.15	113	858.0	5.4	7.3
	QUE-2X-0M	2014 08 25	16	<0.1	0.13		*01	< 0.5	< 10	< 0.01	16,500	< 0.5	×0.1				e 0.5	1,830				< 0.5	477	« D.5	1,560	4 0.01	837	< 6.01	401	< 10	0.143	41	43
	QA/QD F		10	< 0.1 SEGERATION	0.13	1 2.30	# 0.1 1000 # 899	405	< 10	< 0.01	16,200	E 0,3	* U.T	U.83	< 30	< 0.03	- G.5	1,880	1.08	· Carrie Citie	0.260	< 0.5	485	< 0.5	1,520	< 0.01	831	< 0.01	< 5.1	~ 10	0.134	4.1	< 3
	GUL-2-BM	2014 08 25	16.2	<0.1	0.11	5.18	< 0.1	< 0.5	or produced in	< 0.01	17,300	<6.5	< 0.1	0.61	< 30	< 0.05	< 0.5	1.940	1,16	-	5.200			THE PARTY OF STREET	Min Sugar	SEASON AT LAKE	(4 <b>&lt;1</b> )	FOR STATE OF	1830,002	印刷不可以	STATE OF STREET	HISTORIES	Hill
	QUL-2-40M	2014 08 25	1.050	<0.1	0.55	28	401	40.5		< 0.01	19,400	0.65	Q.AZ		030	0.384	1.1		43.1	- 0.06	0.292	< 0.5	498	< D,5	1,570	× 0.01	874	4 0.01	< 0.1	< 10	0.148	-	4.3
	GLR-2-GM	2014 04 27	13.2	<0.1	0.11		*D1	< 0.5										2.420		< 0.05	1,56	0.05	686	< D.5	4.570	< 0.01	1.710	< 0.01	< 0.1	43	£1.309	2.1	4
	and the state of t			-		and the same of the same of	-			< 0.01	16,500	< 0.5	× 0.1			< 0.05	0.50	1,030	0,891	< 0.01	0.201	€ 0.5	454	< 0.5	1,510	< 0,D1	846	< 0.01	< 0.1	* 10	0 547	<1	4
	QUE-2-15M	2014 08 27	138	< 0.1	0.17	6.68	× 0.1	< 0.5	* 10	< 0.01	17,100	<05	0.11			o.can	0.83	2.010	5.62	< 0.01	0.306	€0.5	467	*0.5	1,790	< 0.01	876	< 0.01	401	11	0.155	*1	< 3
	QUE-2-42M	2014 08 27	2.440	0.17	1.11	53.0	< 0.1	< 0.5	< 10	0.016	21,200	1.16	0.87	-		0.826	1.55	2.930	84.7	4 0.01	3.52	1.24	1,870	× 0.5	7,590	0.017	2.950	0.011	< 0.1	92	0.506	4.4	4.6
	CIAL-2-081	2014 08 29	16,3	< 0.1	0.15	5.25	- C. 1	< 0.5	1 10	< 0.01	16,400	+0,5	× 0.1		< 30	< 0.05	< 0.5	1,930	1.23	< 0.01	0.274	€ 0,5	470	*05	1,500	4 0.01	838	≥0.01	<01	+ 10	0.14	×1	43
	DU4-2-37M	2014 08 29	556	<0.1	0.35	18.5	₹ 0.1	< 0.5	02.9	0,012	19.000	< 0.5	0.23	10.6	339	0.187	0.76	2.310	27.1	< 0.01	D.871	18.0	742	405	3,010	< 0.01	1.300	×0.01	<0.1	23	0.224	1.2	43

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

Location D  Couldellines  COWDO Aquatic Life (Ching) IA  COWDO Divining Water (DW)  Couldellines  COWDO Aquatic Life (Ching) IA  COWDO Aquatic Life (Ching) IA  COULDELLINES  COULDELLINES  COULDELLINES  COULDELINES				-	le 3 M	ysical Para	Tieleia.		-	-	Microbiok	giral Tests				,		Total	broaganics		***************************************			,		
	Sample	Sample Date (9999 inm cd)	Herdness (reg/L)	pH (fleid)	pět (pH)	Temperatura (Nobl)		Conductivity (uB/cm)	TOS tmg/Li	TES (regil)	DOC (regula)	Total Coldonn (MPNID.1L)	E. Cob	Total Kjeldichi Mitrogen (N) (mpA.)	Total Nitrogen (N) (mg/L)	Ammonia Milrogen sprik)	Nitropen (up/L)	Nitrika Nitrogen tirg/L)	Nitrogen byg(L)	Chloride (mg/L)	Pluoride (vp/L)	Sulpitate (mg/L)	Yotel Alkalinity (se CeCO3) (mg/L)	Bromide (mg/L)	Ortro- phosphate (mgiL)	Total Phosphosu (mg/L)
	-	1000	-	- Marida						1.50		1,432,233,127	11000000	Violence of the Control of the Contr			- W-V-)	018-12-1		1 1000		1 1 1 1 1 1	Just and	1.10-10-10		
BOWOG Agustic LI	re (AVV)"		n/a	6.5-0.0	8.5-9.0	n/-1 Degree	Change of 8	Na .	0.91	Change of 25	+20% of	nis	Ne	70	n/a	5,680-18,400*	32 800	60 (CH2)	32,800	900	1,224.5°	rive	n/a	n/a	nie	0.005-0.015
BCW99 Aqualic LI	To (20day) (AW)***		n/a	nia	nta	ctionge from emblent	Charlege of	n/a	n/a	Change of 5	beckground	n/a	N/s	n/a	n/e	1,090-1,770*	3,000	20 (CI+2)	3,000	150	n/a	128-309"	n/s	P/a	nia	n/a
			- Charles		6.5-8.5	n/el	Change of	rye.		0.0	n/a	63	0/100ml	-6	n/a	6/8	10.000	1.000	10,000	250	1 300	500	-6			0.01
		-	n/a		8.5-6.5	iva iva	nia'		500			n/a	0/100ml	15/0				1,000					n's	n/a	nrie	
		4444	rys.					6/8		N/H	n/a			n/o	n/a	dia	10,000		n/a	250	1,500	500	FVB.	rue	nie	nie
Location		2014 DS DS	47.5	80.6		20,E	0.34	93,1	57	<3	2.32	-	-	-	0,17	< 5	45,4	<1		40,5	33	5.57	44,1		< 0.001	< 0.002"
	QUL-3	2014 DB DB	48.3	7.94	7.89	18,7	0.4	P5.6	07	43	2.27		-		0.13	<5	55.4	41		< 0.5	34	5,52	42.8	-	< 0.001	< 0.002°
	QUL-3	2014 08 10	48.2	7,94	7.84	21.7	0.32	95.8	58	< 3	2.20			*	0.121	4.5	53.7	1.1		< 0.5	36	5.55	44,4		< 0.001	< 0.002*
	OUL-3X	2014 08 10	48.7	7.94	7.84	21,7	0.37	DO	80	⊀3	2.19		1		0.12	<5	54.4	<1		× 0.5	35	8.56	44.8		€ 0.001	* 0.002°
	QNQC 2	アウム・経済を持ち	<b>建筑的</b>	i i i i i i i i i i i i i i i i i i i	影測分析	S HANGER CHARGE		THE CHAR	<b>排版主机</b>	1850年6月1日		(海岸)等()	73144F18918	<b>建筑排除30000</b> 2	AND DESCRIPTION	用能制作混合性	<b>克尔托 高無</b>	部組織利利	district states	细胞细胞	BASE BUILD	ELSTIN	B 作用有机器 [4] 特别	<b>CENTRAL</b>	14年1月2日	排放物物品数
Countries	QUL-3	2014 08 11	48	7.80	7.91	20.5	0.54	87.2	56	43	2.15		-		9.136	< 5	51.1	<1		< 0.5	33	5.81	43.3		< 0.001	0.0033
	QUL-3	2014 08 12	47.4	8.02	7.97	21.0	0.28	85.3	67	4.5	1.0				0.128	< 5	45.7	<1		+ 0.5	36	5.65	44		0.0012	× 9.002*
Location   C	OUL-3	2014 08 13	47.2		7.99	20.8	0.25	\$7.6	60	43	2.18			-	0.132	₹5	44.1	41		< 0.5	23	5.63	44.7		< 0.001	< 0.002°
Location	QUL-3	2014 08 14	49	8,05	7.95	21.6	0.21	88.5	68	43	2	1			0.116	<5	48.6	43		< 0.5	35	5.66	64.5	1 .	< 0.001	< 0.002*
Location	QUL-3	2014 On 15	48.6	8.07	7.93	21.2	0.32	96.9	62	<3	1.0			-	D.105	<5	45.4	<1		< 0.5	35	5.00	44.2		< 0.001	0,0027
Location Guidelines Guidelines SCW00 Aquatic Life (AW) SCW00 Aquatic Life (AW) Guidelines Guideline		2014 06 16	47.9	0,06	7.98	20,1	0,33	96.3	as	<3	2.15	Acceptant manufacture	11-41-110	-	0.109	< 5	43.4	41		< 0.5	36	5.62	51,4	-	< 0.001	4 0.002°
		2014 D6 16	48.3	8.08	7.98		0.45	65.1	59	43	1.92		-	SAATS SALES	0.117			41	-					-		
Location: Glukialines Glukialines SCWOG Aquatic Life (AVA SCWOG Aquatic Life (	THE WHO WOOD	IPD WALESTON	050 4000		1.40	20.1	DE UCCASO		20	EZINEN UZE	1.02	2	*	SETSEMBLE PROPERTY.	MARKET WILLIAM	< 5 \$777,2777,8112,11111	43.4	10000165000	Marking Printers	< 0.5	37	5.63	43.8		< 0.001 SSBB@SUBB	< 0,000
		The state of the s	-	0	-	THE PLANE THE PARTY	-	STATE OF THE		a least the same		district arrays	NAME OF THE PARTY OF	REPORTED HOUSE	DESTRUCTED OF THE PARTY OF THE	Section of Section 2	SHEAT IS		NAMES AND SERVICE	DESTRUCTION OF THE PERSON OF T	BULLET	到底到的	<b>海州城广湖街</b> 鄉	<b>LEADER</b>	2000	The state of the s
		2014 06 17	48.3	7,94	7.98	20.6	0.3	1,06	QD	<3	2.38	-	· milano	CAME DONE IN	0.125	<5	42.2	4.1	-	< 0.5	34	5.54	43.0	180	+ 0.001	< 27005.
	CULS	2014 06 18	48.7	7.62	7.04	19,7	0,28	P6.6	75	43.	1.04				0.115	€ 5	44.6	<1		< 0.5	32	5.58	44		< 0.001	< 5.002°
Council Counci	QUL-3	2014 08 22	49.5		7.94	19.1	0.34	96.6	71	*3	2.00				0.138	*5	48.7	41	2	< 0.5	34	5.65	44.1		< 0.001	< 0.002*
	QUL-3-37M	2014 08 22	69.7		8.02	19.0	75.1	150	115	9.5	1.83				0.371	45.3	225	1.3		0.56	66	16.5	58.9		0.0069	0.0084
CUL-4	QULA	2014 08 06	45.6	8.03	7.95	21.4	0.81	64,9	61	63	2.17	-			0.146	<5	43.4	e1		<0.5	53	5.62	43.9		< 0.001	< 0.002*
OULS	QUIL-5	2014 De OC	46.1	8.01	7.94	21.4	0.76	85.0	57	43	216		- I Cherry		0.237	< 5	43.8	<1		€05	33	5,66	43.6		< 0.001	< 0.002*
		2014 08 06	48	8.05	7.99	21,3	0.83	\$.28	57	<3	2.23	-	-	*	0,168	₹5	44	41	-	< 0.5	33	5,76	44		< 0.001	< 0.002°
		2014 05 06	48	7.91	7.02	21,2	0.83	25	\$0	13	2.19				0.178	45	40.8	e1		€05	34	5.62	44,1	-	< 0.001	< 0.002°
			47.8	7.96	7.0	21.0		95.8	60	<3	2.27	-	designation of	-										-		
		2014 06 08					1.4		68	1 63			-		0.149	< 5	38.4	1.8		< 0.6	34	5.6?	44.5	-	< Q.D01	× 0.000*
OUC.4		2014 06 06	48.3	8,01	7,93	21.5	1.14	94.6			2.15		-		0.15	e 5	42.4	1.1		< 0.5	34	5,62	44.2		< 0.001	< 0.002*
		2014 06 09	49	7,84	7.84	16.8	0.76	96.7	70	<3	2,42	-		-	0,141	<5	57.6	*1	-	4 0,6	35	5,61	43.5		< 0.001	< 0,002*
	OUL-9	2014 08 10	40.2	7.81	7.04	20.7	0.56	86.5	68	< 3	2.33	T. Street			0.13	<5	54.4	*1		< 0.5	35	6.62	45,4		< 0.001	< 0.0024
	001.4	2014 00 12	47.1	7.96	7.06	20.6	0.32	86	64	<3	1,649		~		0.151	<.5	48.2	41		< 0.5	36	6.60	44.5		0,0011	< 0,000°
	QUL-9	2014 08 13	47.7		7.88	20.5	0.65	95.0	61	<3	2.69			-	0.115	< 5	12.8	1.1	-	< 0.5	24	9.8	45.1		- 0.001	< 0.002°
	QUL-9X	2014 08 13	45.1		7.92	7	0.54	98.7	60	43	7.68	-			0.125	< 5	11,0	1.2		< 0.5	33	5.50	44.9	)+0-	< 0.001	× 0.002*
	MINISTER GARACT	POS III	DESIGNATION	Ustrack()	(119/42)	Market Countries	B III	BURGE & History	14.2	18005.2006	BONG WINE	AUGUSTA STATE	STORY COURS	HARTING MANAGEMENT	STREET, STREET		HEALTH	CHARLESTIF	PRINTED BY	Station (b)	BRUSHE	1812 M 1918	Charles of Market	opened to	69695215811	DESCRIPTION
	QULA	2014 08 14	49	8.02	7,95	20.4	0.25	97.7	67	43	2.15				0.128	45	41.0	41	,	×0.5	36	5.65	43.8		< 0.001	5 0,002#
	QUL-0	2014 08 15	40.2	1	7.92		0.74	96.8	66	+3	1.07				0.102	45	27.6	1.3		< 0.5	36	5.84	43.6		0,0012	0,0023
	QUL-9	2014 08 16	49.3	6.07	7.96	20.4	0.31	65.6	60	< 3	2	1	-	-	0.116	45	42.0	41	-	<0.5	30	5.64	43.4	-	< 0.001	4 0.002°
		2014 08 17	48.4	7.62	7,94	21.2	0.36	96.7	82	43	2.5	-	-	Charles of Charles	0,136	<5	36.7	41		<05	34	5.03	43.0			< 0.002
		2014 08 19	47.7	7.84	7.92	20.0	0,24	96.7	65	<3	2,17	-	-	-	0,136	<5									< 0.001	
			49									-	west trains	_			42.6	41	-	< 0.5	32	5.54	44.2		< 0.001	< 0.002*
		2014 08 19		7.84	7.85	20.0	0.24	95.8	85	*3	2.03	-	-		0.113	< 5	42	< 1	*	< D.5	37	5.55	43.7	*	0.0026	< 0.002ª
	OMOO	A COA	3/11	1000	PERMIT	A STREET BY LOCAL	THURSDAY	PREMIEEE	0	AND DESCRIPTION	<b>美国的现在形</b>	THE PERSON	於如此所知	melti sivut	(自)(自己)(自)(自)	PROPERTY.	THE THE	MERCHINE.	<b>网络班巴斯尼</b>	自由記載符	demanded in the said	到的多知识	5件组织 1842年	HINANE	經濟學的	<b>经过出租间</b> 海损
	QUL9	2014 (III 22	50,3	7.74		19.8	1,73	98.3	69	43	2.3	-			C.138	< 5	42.4	*1	-	40,5	34	5.76	44.0		< 0.001	0.0026
	QUL-10	2014 08 06	47.7	8.08	7.06	21.4	0.41	94.9	65	43	2.1	*	-	- Committee	0.195	45	. 45	<1		< 0.5	33	5.58	44.2	100	< 0.001	< 0.002*
Club-11	QUL-11-0M	2014 08 07	49.2		7.79		2.43	95,4	74	3.5	2.5	*			0.122	45	35	- 41		< 0.5	36	5,79	44.7		< 0.001	≤ 0.002*
	QUL-11-5M	2014 GE D7	48.1		7.93	*	0.85	93	71	< 3	2.00		-		0.135	< 5	88.7	<1		< 0.5	34	5.52	44.4		< 0.001	< 0.002*
	QUL-11-540X	2014 00 07	48.5		7,95		0.58	93,4	779	< 3	2,12	* **			0.137	<5	68	<1		< 0.5	34	5,51	44.7		< 0.001	< 0.002*
	DOMO:	RPORUMEIS	MINE STAN	Mitrage.	1161	THE STATE OF THE S	30	SEMENTER.	No. of the	CONTRACTO	THE SHARE	THE REAL PROPERTY.	TORUS AND DESCRIPTION OF	HEREIGNESS AND AND ASSESSED.	PARTITION OF THE PARTY OF THE P	STREET, LEGIS	AUGUST COM	SSET	DESCRIPTION OF THE PARTY OF THE	Hall Span	DITTO S	THEFT	Blighter & Victoria	MARKET MARKS	ESPERINGED IN	AUTOMORPH OF
	QUL-17-10M	Z014 0e 07	50.6		7.0		1.3	98,2	76	< 3	2.02			-	0.171	₹5	112	41		< 0.5	35	5.76	40.7		< 0.001	< 0.002°
	QUL-17-1564	2014 08 07	53.4	1	7,91	-	0.59	103	84	< 3	1.65			-	0.181	+5	138	<1		< 0.5				-		
	QUL-11-2064	2014 08 U7	53,7	-	7.01		0.0	105	75	×3	1.78	-									36	6.05	48.8	-	< 0.001	4 0.002°
				-								-		-	0.166	4.6	141	- 51		< 0.5	36	6.06	49.1		< 0,001	< 0.002*
	QUL-11-24M	2014 08 07	63.6		7.01		0.60	105	76	< 3	1.54				0.191	< 6	140	× 1		505	36	6.14	40.5		< 0.001	4 0.002*

1556897 (1906097 (1906097 (1906097 (1906097 (1906097 (1906097 (1906097 (1906098 (1907098 (1907098 (1907098 (1907098 (1907098 (1907097 (190709

All terms callined within the body of SNC\_scalars report specified; connectedly,

4. Disnotes portestration less than habitated detection limit or RPD task than indicated views.

Devices analysis reliconstitution.

rise Centities no applicable standard.

NPDs are not normally obsoluted whose one or more concentrations are less than five class IAO.

Consumed for greater then DCWCG Aquete Law (AW) gusteine. Concurrentian greater than BCWGG Britaing Water (OW) guideline

Consentation present than OCYAGE Agastic Life (10de); (Aving guideline

ECO Concentration greaturishen or equal to Carrester Dihading Weter Couldy (VM) guranters

\* Listonstory detection from out of indige.

\* Princis Colonials Approved Matter Cluster Classific Colonials 2005 is detect, spoothed 2014.

\* Contraction is Moving Water Cluster Colonials Colonials for Financials for Financials updated August 35Md.

\* Contraction - safes with pit a motion enter Temperature on Hardware.

\* Hardin Canada Denting Wister Abudelines 2012.

\* Countries principle for Notice applied.

\* Countries for Notice applied.

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\* Countries for Notice for Notice applied for the profession of the profession of the Profession

621/17/2014 08 11

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

		Carmete																												
Sample	Sarreple IO	Sample Date (yyyy min dd)	Aluminum (agr.)	Calcium (mp.L)	Dissolved from (pg/L)	Magnes um (mg/L)	Manganese (ug/L)	Polasskim (mg/L)	Sodkum (mg/L)	Antimony (ug/L)	Areenic	Barken (un/L)	Berylkum (ugf)	Boron (µp/L)		Chromium šigAL)		Copper (µg/L)		Limium	Mercury	Moly bidenum (ug/L)	Nicial (ugil.)		Silver (Apple)		Titenium (up/L)	Uranium	Varuadium (un/Li	24
C Guidelines	-										,																			100
BCWGG Aquetto LI	Se (AVr)**		100*	n/w	350	n/e	15/4	n/e	Ne .	mia	1976	17/6	Na	ryte	Na	n/a	n/e	n/a	rya	15/8	n/a	Ne	r/a	n/e	Live	Na	79/4	6/4	rva.	UA
BCA/GG Aquatis. LI	lin (300sy) (ASV)****		50"	19/4	ryla	rée	nže	n/a	n/a	rula	rve	nia	n/a	n/a	nie	nta	r/a	re/a	n/a	n/a	n/a	IVa	n/a	rie	rie	6/8	n/a	nia	rya	n/s
SCWGG Danking V	Mater (Diana)		200	n/a	nda	n/a	nie	min	No	rs/s.	nie	ena.	n/a	nia	re/a	17/6	nia	n/a	rva.	n/n	nea	Na	re/a	rvie	rya.	0/9	n/a	ron.	rve	
Curedite Drinking		-	N/B	n/e	riva	n/a	ru/s	e/a	n/a	riva	n/a	n/a	ry'a	r/s	TV-6	n/a	N/W	n/a	170	r/a	27/00	n/a	10/8	rs/a	nia	0/8	n/a	C/B	rvia	DA DA
QUL-3	QUL-3	2014 56 D6	10.6	15.9	× 30	1,9	9,908	0.5	1,1	× 0.1	< 0.1	5,38	40.1	× 10	< 0.01	< 0.6	€ 0,1	0.58	< 0.05	0.54	< 0.05	0.421	< 0.5	€0,5	< 0.01	< 0.01	≤ 70	0.124	- 1	1 63
	QUL-3	2014 08 D9	10.6	18.3	< 30	1,88	0.598	0.473	0.831	× 0.1	< 0,1	5,38	< 9.1	< 10	< 0.01	< 0.5	< 0.1	0.51	40.05	0.67		0.339	4 0.5	< 0.5	< 0.01	< 0.01	×10	9.147	41	1
	QUL-3	2014 08 10	10.9	1 16,2	< 30	1,80	0,639	0.463	0.85	<0.1	0,11	5.24	<0.1	< 10	< 0,01	× 0.5	× 0,1	0.51	+ 0.05	< 0.5	**********	0.291	< 0.5	< 0.5	< 0.01	< 0.01	< 10	9.129	6.1	1
	QUL-3X	2014 08 10	11	16.4	< 30	1.88	0.667	0.478	0.847	*0.1	0.11	5.14	49.1	< ID	< 0.01	< 0.5	× 0.1	0.5	= 0.05			0.291	< 2.5			< 0.01	< 10	0.137	<1	1
		PD W	GERNAL .	BOOK STATE	165-1100	MERCEL SHOUSE			Bleville	DULATED	THE PARTY	111211	<b>生物的物</b>	a dilimit	DISTRIBUTE	HEISHIP BEEF	105 HA	BLO DELL	A PROPERTY.		FINANCE		ni Germ	SULLING TO	TOUR DE	United States	TO THE PARTY OF	E	BREEF BOOK	derite
	QUL-3	2014 08 11	11,8	15,1	< 30	1.68	0.734	9.496	0.857	#01	< 0.1	5,39	< 0.1	< 10	× 0.01	< 0.5	< 0.3	< 0.5	* 0.95	1.02		0.293	< 0.8	< 0.5	× 0.01	< 0.01	× 10	0.121	4.5	4
	QULD	2014 68 12	10.6	15.9	× 30	1.0	0.568	0.477	0.876	40.1	0.12	5.58	< 0.1	× 10	< 0.01	₹ 0.5	< 0.1	< 0.5		0.68	*	0.341	< 0.6	€ 0.5	« 0.01	< 0.01	< 10	0.132	41	1.
	OUL-3	2014 08 13	10	15.5	4 30	1.68	0.18	0.458	0.836	< 0.1	0.11	5.26	<0.1	* 10	< 0.01	< 0.5	<.0.1	< 0.5	< 0.05			0.324	€0.5	< 0.5	< 0.01	< 0.01	< 10	0.131	*1	10
	001-3	2014 68 14	11	15.5	< 30	1,88	0,516	0.457	0.798	< 0.1	0.1	5.08	×01	× 30	< 0.01	40.5	< 0.1	*05	< 0.05			0.174	< 0.5	< 0,5	< 0.01	< 0.6t	× 10	0.133	41	1
	GUL-3	2014 QB 15	10,2	16.4	< 30	1,5?	0.482	0.462	0.9	< 0.1	< 0.1	5,19	×0.1	< 10	< 0.01	< 0.6	< 0.1	405	< 0.05			0.301	4 0.5	435	< 0.01	< 0.01	e 10	0.138	51	4
	QUL-3	2014 08 16	10.7	19.1	< 30	1,85	0,486	0.475	0.815	*01	0.11	5.4	€0.1	< 10	< 0.01	< 0.5	<0.1	<0.5	< 0.05			0.288	€ 0.5	×0.5	< 0.01	< 0.01	< 10	0.132	41	1 4
	QUL-3X	2014 68 18	10.6	18.2	< 30	1.88	0.500	0.475	0.821	<0.1	0.12	5,47	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.51	× 0.05	0.7		0.299	€ 5.5	505	< 0.01	< 0.01	5 10	0.137	41	1.
	MERICAGO.	DOMESTICAL PROPERTY OF THE PARTY  <b>西斯斯斯斯斯斯</b>	BURNS CON	(MICLINIO	THE PERSON NAMED IN	CHAN ROW		1777 (C.S.) (U.	HAMMAN	THEOREM	<b>最级和国际</b>	(研究器)排	HILLARI	HEER PROPERTY.	<b>BRANCHUR</b>	A SISSEMBLE A	REGUEE	MELLER	1914 15164		STORES TO A	RIGGIO	(1)(1)(4)(1)(1)	HURRING	BHORNEY.	CONTRACTOR.	THE PERSON NAMED IN	MARK MARK	BITTE	
	QUL-3	2014 08 17	10.8	18.2	× 30	1.91	0.550	0.466	0.825	<0.1	< 0.1	5.27	< 0.1	× 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0,68		0.293	4 0,5	€ 0.5	< 0.01	< 0.01	e 10	0.139	<1	l ×
	QUL-3	2014 68 18	10,7	15,4	< 30	1,49	0,308	0.472	0.833	< 0.1	40.1	5.08	×0.1	< 10	< 0.01	* Q.5	× 0,1	< 0.5	< 0.05	0.74		0.275	< 0.5	< 0.5	< 0.01	< 0.01	4 10	0.133	41	1 4
	QUL-3	2014 08 22	10.4	15.6	< 30	1.93	0.6	0.467	0.822	× 0,1	4.1	5.3	×0.1	< 10	< 0.01	< 0.5	< 0.1	0.88	< 0.95	0.74		0.26	< 0.5	< 0.5	< 0.01	< 0.01	< 10	8.138	*1	1
	QUL-3-37M	2014 08 22	14,3	23.6	< 30	2.62	61.1	0.971	3.23	0.24	0.7	17.8	<01	< 10	< 0.01	< 0.5	= 0.1	4.0	< 0.05	1.05		5.04	< 0.5	0.55	< 0.01	< 0.01	< 1D	0.607	<1	
OUL-1	QUL-4	2014 08 08	10.3	15.3	< 30	1.(ed	1,43	0.504	1.09	40.1	0.11	5:52	40.1	4.10	< 0.01	< 0.5	< 0.1	0.68	< 0.05	-05	√ 0.05	0.494	< 0.5	< 0.5	< 0.01	< 0.01	4 10	0,128	41	4
CNIL-6	QULS	2014 08 08	11.8	78.1	4 30	1.92	1.5	0.632	1,09	# D.1	0.1	5.65	< 0.1	< 10	< 0.01	40,5	< 0.1	0,96	₹ 0.05	< 0,5	< 0.05	0.365	× 0.5	< 0,5	4 0,01	< 0.01	× 10	0.129	43	4
QUL-8	QUL-6	2014 08 08	11.3	15.7	< 30	1.01	1.31	0.517	1.06	× 0.1	0,1	5.52	A 0.1	< 10	4 0.01	< 0.5	< 0.1	0.67	< 0.05	< 0.5	× 0.06	0.407	= 0.5	< 0.6	< 0.01	< 0.01	< 10	0.127	41	-
CUL-7	QUL-7	2014 08 06	10.9	16.1	< 30	1.92	1.70	0.508	1.00	< 0.1	0.11	5.6	< 0.1	× 10	< 0.01	< 0.B	4 6.1	0.57	× 0.05	0.56	< 0.05	0.349	40.5	<0.5	< 0.01	< 0.01	< 10	0.124	41	-
CALL-9	QUL-6	2014 08 06	11,3	16	* 30	1.92	2.29	0.524	1.1	< 0.1	0.11	5.84	€ 0.1	4 10	4 0.01	< 0.5	< 8.1	0.51	< 0.05	< 0.5	< 0.05	0.358	<0.5	< 0.5	< 0.01	* 6.01	< 50	0.125	51	-
OUL-6	QUL-S	2014 08 08	11,8	16.2	< 30	1,92	2.43	0,525	1.07	× 0.1	0.12	5,71	< 0,1	× 10	< 0.01	< 0.5	< 2,1	0,84	< 0.05	0.52	× 0,05	0,347	< 0.5	< 0.5	< 0.01	< 0.01	e 10	0.126	41	-
	QUL-8	2014 08 08	10.1	16.5	4 30	1.(2)	1.2	0.47h	0.838	< 0,1	<0,1	5,43	<0.1	< 10	< 0.01	4 0.5	45.1	0.52	< 0.05	0.50		0,362	405	< 0.5	< 0.01	< 0.01	< 10	0.132	41	<
	QUL-5	2014 00 10	10.8	15.5	< 30	1.60	1.53	0.401	0.835	101	0.11	5.44	€0.1	4 10	< 0.01	< 0.5	< 0.1	0.54	× 0.95	0.52	-	0.293	< 0.5	4 Q.5	< 0.01	< 0.01	< 10	0,133	<1	•
	QUL-9	2014 08 12	10.5	15.8	< 30	1.65	0.406	0.488	2.83	× 0.1	< 0.1	5.20	£0.1	× 10	< 0.01	₹0.5	< 0.1	0.57	< 0.05	0.73		0.308	₹ D.5	< 0.5	< 0.01	< 0.01	s 10	0.129	41	-
	QULA	2014 08 13	8.4	16	< 30	1.58	3.00	0,544	0.846	< 0.1	0.12	8.14	×0.1	× 10	< 0.01	< 0.5	4 Q.1	0.55	× 0.05	1.06		0.313	< 0.5	405	< 0.01	× 0.01	< 10	0.122	*1	1
	QUL-9X	2014 08 13	9.5	10,1	< 30	1.91	3.59	0.57	0.884	≪ 0.1	0,1	6,34	×0,1	× 10	< 0.01	< 0.5	< 0.1	0.67	< 0.05	1.07		0.314	×05	< 0.5	< 0.01	× 0.01	< 10	0,123	41	*
	GAQC			MILETER	<b>BUILDING</b>	<b>開發 建酸</b>	<b>建加州</b>	国的18年3月1日	開原和陰	<b>提出 0</b> 键	THE REAL PROPERTY.	3073an	斯製調館	ELS. RIT	a later than the same of		BEAR SHE	THE REAL	103.77	<b>建设压力机</b>	SHEET HE	D20005 1 0 0 0 0 0	CHAME !	add Mar	1200	NUMBER OF	ala an	Mark The State of the State of		File
	QUL-9	2014 09 14	10.4	18.5	× 30	1.91	1,16	0.471	0.821	< 0.1	6.11	5.45	<0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.72	-	0.301	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.128	4.1	1
	CANT-6	2014 08 15	10,2	16,6	< 30	1,9	2.52	0,511	0.85	< 0.1	0.12	5.12	< 0.1	< 10	< 0.01	≪ 0.5	< 0.1	0.56	< 0.05	< 0.5		0,322	1 < 0.5	< 0.5	< 0.01	< 0.01	< 10	0.13	<1	1
	OUL-6	2014 09 16	10.1	16.2	< 30	1.68	0.489	0.484	0,799	< 0.1	0.11	5.4	< 0.1	×10	< 0.01	• 0.5	<01	× 0.5	< 0.05	0.00		0.259	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.131	4.5	
	OUL-0	2014 08 17	5.6	10.2	< 30	1,01	2.31	0,474	3.0	₹ 0.1	0.13	5,47	<0.1	< 10	< 0,01	< 0,5	401	40.5	< 0.05	0.59		0.267	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.131	41	4
	OUL-9	2014 08 19	10.2	16	< 30	1.87	0.465	0.453	0.815	4 0,1	0.11	5.19	< 0,1	4 10	< 0.01	₹ 0.5	< 0.1	<0.5	< 0.05	0,85		0.258	+ 05	< 0.5	4 0.01	< 0.01	< 10	0.13	41	1
	QUL-9X	2014 GB 16	9,8	18.5	< 30	1,9	0.432	0.442	0.766	< 0.4	< 0.1	4.58	e 0 1	× 10	< 0.01	*05	< 0.1	< 0.5	< 0.05	0.73		0.268	<05	×08	* 0.01		< 10	0.135	41	-
	TERMINI CARDO	<b>2017年</b>	建加合为标则	HALLES TORRE	inida selah	1000年100日生	到超级引起和	aphach, asympto	Mark Head		HANG AND	1911 3511	HE HEATTER	to the		EGG UE DOL	HULL BUR	超過期時	BELINE	超级图纸	<b>ABCOR</b>	0		MILE IN	STREET, STREET	Lilia di	THE RESERVE	SERVICE	WIGHT HER	THE PERSON
	GNIS	2014 08 22	. 11	18.9	< 30	1.64	0.956	0.461	0.843	< Ω,5	0,1	5.43	<.0.1	× 10	< 0.01	₹ 0.5	< 0.1	0.85	< 0.05	0,87		0,28	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.133	41	×
QUL-10	QUL-16	2014 08 96	11.4	16	4:30	1,91	0.913	0.506	1.06	4.0.1	0.1	5.19	< 0,5	* 10	< 0.01	< 0.5	× 0.1	0.60	< 0.05	₹0.5	< 0.05	0.328	405	< D.5	< 0,01		< 10	0.129	41	-
QUIL-11	QUL-11-0W	2014 08 07	9.8	16.5	< 30	1.95	4.34	0.558	0.975	⊀ 0.3	0.13	B.44	< 0.1	410	< 0.01	< 0.5	< 0.1	0.88	× 0.05	405		0.412	< 0.5	< 0.5	+ 0.09		4 10	0.131	61	4
	DUL-11-5M	2014 08 07	9.0	10.1	< 30	1.09	0.239	0.455	0.056	< 0.1	< 0.1	5.24	< 0.5	< 10	4 Q.D1	< 0.5	401	0.51	< 0.05	< 0.5	-	0.291	- 0.5	< 0.5	< 0.01		< 10	0.137	×1	×
	QUL-41-EMX	2014 DB 07	9.6	16.3	< 30	1.0	0,279	0.455	0.913	× 0,4	0.11	5,76	× 0,1	×10	< 0.01	< 0.6	₹ 0.1	0.76	< 0.05	€0.5		0.28	₹05	4 0.5	4 0.01		« 10	0.133	41	
	MILLION CANCOR	07-0216500	2005,4602	TERESTORY.	STORES OF STREET	Heleng is the sea	Harris India.	0	Mild . Hill	WHE MAN	10015-010	HER THE	ON BARRY	ALE NO	TRUE SELFE	of the second		E81112197	reserve.	CHIEF CO.	ana ann	THE PERSON	E EURES EUR	BUSINESS OF	01000	Pressure.	STREET, STREET,	THE PROPERTY.	1174718 (11)11	THE R
	QUIL-11-10M	2014 08 07	7.4	17.1	< 3/0	1,99	0,602	0.47	0.989	€ 0.1	0.12	5.38	< 0.5	< 10	< 0.01	< 0.5	< 0.1	0,57	< 0.05	0,58		0,278	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.144	<1	×
	QUL-11-15M	2014 08 07	6.3	18	<b>~ 30</b>	2,07	0.214	0.467	0.988	+ 0.1	< 0.1	5,08	×Q.1	4.10	+ C.D1	×0.5	×0.1	< 0.5	+ 0.05	0,68	-	0.256	< 0.5	< 0.5	× 0.01		× 10	0.151	+1	1
	OUL-11-20M	2014 08 07	5.2	18.1	< 30	2.08	0.71	9.48	0.964	< 0.1	< 0.1	5.17	<0.1	< 10	< 0.01	× 0.5	1 401	= 0.5	× 0.05	0.79		0.264	< 0.5	< 0.5	< 0.01		× 10	0.153	41	4
	QUL-11-24M	2014 08 07	5.1	18.1	< 30	2.08	1.18	0.468	1.03	× 0.1	401	5.31	€ 0.1	€ 10	4 0.01	× 0.5	<01		× 0.05	0.07	-	0.283	40.5	40.5	40.01		« 10	0.158	41	1 8

Amounted Aus Since 1.1-Marking (1-14/00075), Lindburg (1-14/00076), Lindburg (1-14/00776), 
All terms nettred within the body of SNC-4 analytic report (available open request).

4. Opening porcentration less than included detaction less to IRPD less than motosted value.

· Denotes englists and syndrotes.

non Denotes to applicate standard.

"PFCs are not normally calculated where one or more concentrations are less than the three MDs.

Concertation greater than \$CMCC Aquete Life (AVV) guideline

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Comparisolary greater than or expanse Correction Drinking Wester Country (CMC gallow)ma

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8 Breet-Columba Approved Weles Dualey Cordethes 2006 Echium Indektor 2014.

8 Compensation of Wintering Weles's Qualing Gui/plubleme for Street Dobughdus, updated duglical Sobia

Couldedon volume, with pil a cycler o'Dian's Compositions on Streets.

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\* Securement of well to convent values, red, 30 key meets

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

		1		E .		_			1					7				Total Met	1	1	1			1	1						,	1	_
Sumple	Sample	Sample Date	Aketinam	Antimeny	Areanio	: Salum	Sary!Mor	SHOULD:	Borne	Gadasken	Calclum	Chroman	Cobat	Соврег	Iron	Lead	Lilhium	Magnesium	Mangamuse	Mercury	Molybownum	Michel	Polsesium	Solocium	Silican	Silver	Sotium	Thallium	Tio	Titanium	Useslan	Vanadium	Zh
Lesetten	ib	(yyyy mm 40)	(Ug/L)	(Joy)	Bapild	(Jun/L)	Augil	(s/g/-)	(Appl)	ingli.	(up/L)	braft.)	No.	(Jegl)	North)	App/L3	(Ligita)	\$19fL3	(Junita)	Light	(Jag/L)	(Jug/L)	(Jug/L)	(Junil.)	(M0/L)	Light	(Jugiti)	(Light)	days.	DIEG.	(Lipse)	(AgA)	(199)
Guitielines					-	4	·	-	1		·								- A 1600 W						Y								
ONOG Aqualis L	M. resente		auto.	200	5	5,000	nie	19/1	1,300	0.016-0.028	n/n	1 (Gr(+6))	110	6.0-S.24	1,000	27.3-57.7	APD	nja	1,000.6		2,000	25-65*	373,000- 432,000		1	0.14	n/a	9.3	n/a	2,000	300		23
	T. 1771	ALCOHOLD I C	reta	20	1111	3,000	September 1	- 701	1,200	2014-0020		i builded	110	0.0 84	1,000	Service and the service of	10011118000		An exercise to constant	Marry	Annex 11 (17 11 11 11 11 11 11 11 11 11 11 11 11 1	1		and the same	Pyla	411	1	minute Service		2,500	300		-
					100									-						ADDIÇAN PI					1								
2/9/2/3 Aquelle L	No (SDRey) (ANY) <sup>k+6</sup>		n/a	P/4	(sin	1,000	3.3	N/s	nia	tila	Na	PVis	4	2-34	n/a	4.4-5.5	14	n/o	781,1-840 <sup>5</sup>	programs	1,000	PVS	Ne	Prin	11/a	9.05	n/a	PLE .	(plg)	n/a	RPS	19/8	7.5
OVICE Drinking	Mindae (Philips		n/a	14	75	No		nre.	5,000	née	ev/m	Palm	ro/m	500	nte	50	nde	n/a	ed a	4	250	n/a	Na	16	rr/s	m/m	- mb	2	n/a	ri/m	HAPE	n/a	5.00
	Water Quality (DW)*	ALLANDA CAPTARIA FRANC	100		10	9,000	rela	TVI	5,000	5	P/B	50	er Reg	1,000	300	10	m/a	0/0	50	1	n/a	0/9	rs/w	10	n/e	(1/0	200,000	64	(p/B	P/0	20	9/0	0,0
OUL-1	QUL-3	2014 05 06	18,8	401	0.12		4 0.1		< 10	< 0.01	16,000	<05	40.1		< 30	< 0.05	< 0.8	1,942	3.47	< 0.05	0.327	404	486)	×0.5	1,820		835	< 0,01			0.13	4.1	<
	QUL-3	2014 06 09	23.7	< 0,1	0.13	5,53	401	40.5	410	< 0.01	19,200	40,5	4 C.1	0.74	< 30	4 0.03	0,60	1,916	1.45	1 40,06	0.322	40.8	486	1 < 0.5	9,590	4 0.01	855	< 0.01	40.1	4 10	0.14	<1	4
	QUL-3	2014 06 10	16.3	<81	0.13	6.62	# 0.1	< 0.5	< 10	< 0.01	16,200	< 0.5	≠ 0.1	0.50	< 30	< 0.05	< 0.5	1,919	1.16	< 0.06	0.303	< 9.5	484	< 0.6	1,800	< 0.01	873	< 0.01	< 0.1	< 10	0.13	41	~
	QUIL-SX	2014 08 10	14.4	<0.1	0.13		< 0.1	< 0.5		< 0.01	15,600	<08	4 0.1	0.58	< 30		< 0.5	1.800	1.08	< 0.06	0.304	< 0.5	474	< 0.5	1,530	< 0.01	854	< 0.01	< 0.1	< 10	0.13	<1	4
	40种级组织	C 22 PERSONNELLE	THE PUBLIC		HELLING		用耕物。		100)19466	Allfalation		av Hospital	WO'H	CHILL LINE	T Dall Control		fire the	TEACH THE	HIRTOR		MACCOUNT	o Hija jidi		litifity this		经银行	<b>新华 新打</b>	対しいはは		Hitta Hill		到的利用	椒鄉
	QUL-3	3014 08 11	97.1	< 0.1	0.13		₹0.1	< 0.5		4 0.01	15,700	< 0.5	40.1		< 30	4 0.05	0.82	1.870	1.41	< 0.05	0.322	< 0.5	484	< 0.5	1,540		830	< 0.01		< 10	0.120	41	4
	QUL-3	2014 08 12	14.4	< 0.1	0.13	5.63	*0.1	< 0.5	< 10 < 10	< 0.01	16,100	< 0.5	4 0.1		< 30	< 0.05	0.79	1,000	1.53	< 0.08	0.362	4 Q.S 4 Q.S	475	< D.S	1,840	4 0.01 4 8.01	878	< 0.01	<01	4 10	0,137	41	- 4
	QUL-3	2014 08 13	13.8	<0.1	0.11	5.34	<01	<05		< 0.01	16,400	< 0.0	40.1		< 30 < 30	4 0.05	0.80	1,950	1.02	< 0.05	0.341	40.5	481	< 0.5	1,540	< 0.01	855	< 0.01	<0.1	≈ 10 ≈ 10	0.14	<1	4
	QUL-3	2014 08 15	15	< 0.1	0.12		€ 0.1	< 0.5		< 0.01	16,400	6.74	< 0.1		< 30	4 0.05	< 0.5	1.860	1.1		0.96	<05	481	< 0.5	1,540	4 0.01	813	< 0.01	40.1	< 10	0.141	<1	<
	CUL-3	2014 08 18	10	<0.1	0.14		<01	405	< 1D		16,200	<0.5	< 0.1		< 30	< 0.05	< 0.5	1,670	1.33	-	0.294	< 0.5	466	< 0.5	1,540	= 0.01	815	0.013	<01	≤ 10	0.126	<1	4
	GUL-30X	2014 28 14	18.2	<0.1	0.12		<81	< 0.5		< 0.01	15,900		< 0.1		430	< 0.05	e 0.5	1.000	1,44		0.321	405	488	405	1.580						0.130	41	-
	Mangagan - Lanco	NO SHIRINGING		A MERCHANIAN S		O HERE WILL	<b>装铁头,被</b>	engalar		BHIS HIME	835H: 484	和周別時	THE RE	DESIGNATION OF THE PARTY OF THE	512612ELK	MUSKINER	DECASES	HORIFFE THE	Uplatiation	i riske i stoke	British British	MINER CHANGE		(Alemania)		HERITARIS		MARKSHATE		PERSONAL PROPERTY.	REGISTER	DOG BENEFIT	星花花
	QuL-3	2014 08 17	20.3	< 0.1	0.12	5,34	- K D.1	< 0.5	< 10	< 0.01	15,900	< 0.0	₩ 0.1	<b>41</b>	× 30	< 0.05	0,76	1,890	1,43	-	D.305	≠ 0.0	487	< 0.8	1.530	< 0.01	856	< 0.01	<0.1	4 10	0.141	41	1
	QUL-3	2014 08 19	15.2	<0.5	0.13	5.46	< 0.1	40.5	4 10	< 0.01	16,500	4 U.S	< 0.1		< 30	< 0.06	0.92	1,840	1.2		D 200	< Q.8	495	< 0.5	1,570	4 0,01	801	< 0.01	<0.1	< 10	0.141	41	4
	QUL-3	2014 08 22	28.2	401	D.11		< 0.1	< 0.5		< 0.01	16,500	< 0.5	< 0.1		< 30	< 0.05	0.72	1,845	1.54		0.524	₹0.6	480	< 0.6	1.670	4 0,04	18.28	< 0.01	40.1	€ 10	0.141	<1	-
	QUL-3-37M	2014 08 22	3,430	0.3	1,84		< 0.1	40.8		0.031	24,100	制作。用	1.54		11.	1.34	2.70	3,670	167		6.35	201	2.560	0.04	19,100		3,840	0.014	0.12	166	0.728	間光期	验(
QUL4	QUL-4	2014 08 08	47.2	<0.1	0.13		<0.1	< 05	< 10	< 0.01	19,100		< 0.1		46	< 0.05	4 0.5	\$,060 0.00	3.05	< 0.08	0.332	< 0.8	501	< 0.5	1,690	< 0.01	839	< 0.01	<0.1	< 10	0.133	4.1	<
QUL-6	QUL-6	2014 06 08	48.4	<0.1	0,11		< 0.1	€ 0,5		< 0.01	15,700		₹ 0.1		44	< 0.05	< 0.5	1,820	2.82	< 0,06	0,332	< 0.5	482	< 0,5	1,860	= 9.01	840	= Q.01			0,128	4.5	4
QUL	QUL-0	2014 08 08	83.0	401	0.13	6,22	≪ 0.1	< 0.5		4 0,01	10,200	40.8	< 0.1		40	4 0.00	* 0.0	1,070	2.04	< 0.05	0.337	40.8	807	< 0.6	1,710	< 0.01	888	< 0,01	<0.1	< 1D	0.132	41	
QUL-7	GUL-7	2014 CB 06	57.1	<01	0.13		« D.1	* D.5	4 10	< 0.01	16,100	< 0.5	< 0.1	1.72	42	< 0.65	0.53	1 970	231	< 0.05	D.332	*0,s	522	< 0.5	1,700		3079	< 0.01	<0.1	< 10	0.132	41	4
QUL-6	QUL-6	2014 08 08	93.8	<01	0.15	8.48	<0.1	<0.5	4 10	< 0.01	10,100	< 0.5	4 0.1	170	80	< 0.05	0.59	2,000	4.79	< 0.05	0.364	< 0.5	557	40.6	1,420	< 0.01	887	< 0.01	40.1		0.138	- 53	. 4
GOUP	CUL-5	2014 08 08	31.4	401	0.13		< D.1	<05		< 0.01	10.200	<0.6		1.00	< 30	< 0.65	0.63	1,960	2.54	< 0.05	0.33	< 0.5	498	<0.5	1,600	< 0.01	BHI	< 0.01			0.142	41	4
	QUL-0	2014 GB 10	22.7	<0.1	0.13	5.35	<0.1	< 0.5	= 10	< 0.01	15,600	< 0.5	≪ 0.1		< 30	< 0.05	405	1,790	1.84	< 0.05	0.31	+ 0.5	491	< 0.5	1,530	₹ 0.01	891	< 0.01	< 0.1	< 10	0.132	<1	-
	QULB	2014 08 12	17.2	e 0.5	0.13	5.28	+0.1	<05	< 10	< 0.01	16,100	<0.5	40.1	0.73	* 30	< 0.05	0.77	1,600	1.61	< 0.08	0.323	4 0.8	480	<0.5	1,600	< 0.01	846	4 0.01	4 D.9	< 1D	0.138	41	4
	Ghr-a	2014 98 13	20.8	401	0.16		401	1 <06		≠ 0.01	16,300	× 0,5	< 0.1	0.60	30	< 0.05	0.76	1,890	5.00	< 0.05	0.326	< 0.5	560	* 0.5	1,640	< 0.01	681	< 0.01	<0.1		0.13	41	4
	ONF-600	2014 08 13	38.9	< 0.1	0.15	0.52	40,5	405	< 10	< 0.01	14,700	< 0.5	<0.1	1.1	20	< 0.05	0.05	1,890	6.04	< 0.05	0,332	40.5	579	< 0.5	1.000	< 0.01	800	< 0.01	<0.1		0.131	44	4
	制度的 医抗性	12-1 MIRES	UEU-791U	1418; 1:02	BOARS .	HINE HA	和松田田	STEP THE	13233	Manfamin	1831F 1331	THE REAL PROPERTY.	HIGH	e dalak erak	THE ARE	FICHLERS.	ran san	GUILL CHAIN	WHEN THE BE			HU WH	<b>8時用F数加</b>	K-14-18 (2)	the oil	tertions.	151 H	the Losens	agagg	MEGHI	SSSCASSU	401611-000	E 2004
	GUL-9	2014 58 14	17.1	€ 0.1	0.12		4 0.1	< 0.5		< 0.01	16,300	< 0.5	₹ 0.1			4 D.05	0.62	1,610	2.2		0.33	< 0.5		< 0.8	1.620	< 0.01	844		< 0.1		0.138	4.5	<
	CULO	2014 66 15	43.1	< 0.1	0.17		< 0.1	<05		< 0.01	14,500	< 0.5	1 401	1.111	44	< 0.06	< 0.b	1,940	4.38		0.339	< Q.B	539	< 0.5	1,700	< 0.01	983	< 0.01	< 0.1	< 10	0,136	<b>«</b> 9	4
	GUI-0	2014 08 10	15,8	<0.9	0.13	5.44	-0.1	<05		< 0.01	14,300	< 0.5	< 0.1	0.0	< 30	< 0.05	< 0.5	1,900	1.34	*******	U.321	4 0.6	467	< 0.5	1,560	< 0.01	B14	< 0.01			0.138	43	4
	CULS	2014 98 17	10.1	<0.1	0.14		< 0.1	<05	-	< 0,01	16,000	40,5	<0.1		< 30	0.005	0.09	1,900	2.50	-	0.32	× 0.8	490	+ 0,5	1,560	< 0.01	843		40.1		0,143	41	<
	QUL-B	2014-08-19	15.2	<0.1	0.12	8.36	< 0.1	<05	< 10 < 10	< 0.01	16,600	< 0.5	×0.1		4 30	< 0.05	0.09	1,630	1.06		0,304	< 0.5	440	< 0.5	1,560	< 0.01	783	~ 0.01	4 0,1		0.143	41	4
	ATHERITY TO A	2014 08 19	THE STATE OF	SEUDENCIE					i Buraus		(121 at 211)			U.D4			LOSSES DESC.		1.14 Folial Sciences	FIRE PLANE	O.SOS RIPERTEDIAS	< 0.5	470	* 0.5	1,570	< 0.01	001 SPER 1106	< 0.01	< 0.1	< 10	0.142	< 1 (IIII) (IIII)	4 1141
	QULS	2014 88 22	79,5	< 0,1		7.13		<05		< 0.01	16,500	< 0.5	≤0.1	30 km	70	< 0.06	0.77	1,645	5.01	*	2.33	< 0.5		- 0.5		< 0.01					0.145	<1	4
QUL-10	QUI_10	2014 08 08	36.6	<0,1	0.13	5,44	< 0.1	<03		< 0.01	14,200	<0.5	< 0,1		< 30	< 0.05	< 0.5	1,040	1.79	< 0.05	0.326	< 0.5	801	< 0.5	1.650	< 0.01	895	< 0.01	<0.1	< 10	0.136	<1	-
QUL-11	DUL-11-OM	2014 08 07	142	< 0.1	0.21	8.55	40.1	<05	45 100	€ 0,01	16,200	< 0.0	0.1	24.0	1111	0.057	< 0.5	2,000	7.75	< 0.05	0.398	0.00	901	4 0.5	1,840	< 0.01	812	< 0.01		< 10	0.134	<1	1
	QUL-11-8M	2014 08 07	30.0	< 0.4	0.14	5,44	< 0.1	<05	< 10	< 9.01	16,000	< 0.5	421	2.84	< 30	≠ D.D%	<b>≈ Δ.</b> Ε	1,000	1.46	< 0.06	0,281	4 0.8	477	< 0.5	1,590	< 0.01	824	<0.01	-01	QI >>	0.14	41	1
	QUL-11-5MX	2014 06 07	20.2	<0.1	0.14	5,56	40,1	<05	4 10	< 0.01	14,000	< 0.5	< 0,1	1,29	< 30	< 0.05	4 0.5	1.910	1.53	< 0.08	El.284	< 0.5	475	< 0,5	1,580	4 0,01	018	< 0.01			0,130	<1	4
	SPACHEDI		Derit IIsh	ATTENDED		erates app	macau	4 RIXITORIT	HUILL	action in	THE PER	Helichini	46.48	1017113		HISTORY OF THE	1935 Arta	THE TANK	计算机线机算机		HILL WHILE	i all filth					PARTIE AND				1113 488	HINE BELL	計算器
	QUL-11-10M	2014 08 07	70.5	<0.1		0.37	< 0.1	<05		< 0.01	17,000	< 0,5	< 0,1		73	< 0,05	40,6	2,058	3.49	< 0.05	0.298	< 0.5	503	< 0,5	1,840	< 0,01	(Alto	< 0.01	-		0,148	<1	1
	QUL-11-15M	2014 06 07	20	<0,1	0.12	0.26	< 0,1	<05		< 0.01	17,400	< 0.5	< 0.1		< 30		0.50	2010	1.4	< 0.00	0,290	= 0.5	471	1 < 0.5	1,500	< 0.01	695	< 0.01	< 0.1	< 10	0,754	41	4
	QUL-11-20M	2014-08-07	40	< 0,1	0.15	5.77	< 0.1	< 0.5		10.0>	18,000	< 0.5	< 0.1		52	< 0.05	0.66	2,110	2.48	₹ 0.05	0.201	< 0.5	490	< 0.5	1,780	< 0.01	826	10.0 *	4 0.1	< 10	0.181	<1	4
	QUL-11-24M	2014 09 07	59.9	< 0.1	0.14	6.13	401	< 0.5	4 10	<0.01	18,700	< 0,1	1 5 0.1	1.38	42	< D,06	0.72	2,140	3.3	= 0.06	0,302	< 0.5	801	405	1.800	≪ 0.01	835	< 0.01	4 Q.1	< 10	0.167	41	. 4

- REPORT AND ASSESSMENT OF THE

[[[1]] MACON [[1]] Consentation greater than DOWGO Aquato Life [AW] guideline

#OLD Concentration greater than HCWCG Drinking Wister (DAY) guideline. Concentration greater than BCMCC Aspent. Life (20as); (ANY, guarater).

#34.2 Concentration growter than or equal to Consider Change Water Charley (139) guichine

621717/2014/00/11 (Milliann, 2016019)(ass (AssC st 2016/05/11

All Serries delical within this deed of BHC/Learnin's report (analysis, Learning, Lear

Into Consider the applicable standard.

PETER and notinedly calculated where one is stone consentiations are less than times letter.

<sup>\*</sup> Leterahory detection liest out of engle.

\* Strian Colambia Approved White Faulty (Suctiones 2006 Editor), updated 2014,

\* A Compandum of Wissiang Wester Quality Guidelines for Setten Colombia, loptional August 2006,

\* Cuddelin servers with pit, exident what Temperature or hardepea.

Societies character of charge value, not 30 day main? Octioning test miglicuble for site attention.

<sup>\*</sup> Health Consula Caroling Weier Guidelines, 2012. \* Cuicleire for Nitrata applicat.

The solid principlinas guestion is a measure of late producting and to bear an open product of an average of automat samples and as more applicable to single sample secults at the principle of the colorest

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

						Phy	yaical Para	rmeligra.				Microbiolo	gical Tests						Total)	inorganica						
Earnoles Location	Sample	Sample Date (yyyy mm dd)	Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NEYU)	Conductivity (µS/cm)	TDS (mg/L)	T\$5 (mp4.)	000 (mg/L)	Total Coliform (MPRO, 1L)	E. Coli (MPN/0.1L)	Total Kjeldatil Nitrogen (N) (mg/)	Tutel Nitropes (N) (mgil.)	Ammonia Nrbogen (µg/L)	Nitrata Nitrogen (UgiL)	Nilifts Nilfogen (ug/L)	Nitrale+Nitrale Nitragen (pg/L)	Chieride	Mucaida (MA)	Sulpheta (mg/i <sub>1</sub> )	Total Alkalinity (es CaCO3) (mgfL)	Braunide (mg/L)		Yotal Phospicou (ng/L)
C Guidelines																0.84			1000	122,122,	10/15-52		17-90-51	(circles)	builde to	( total
BCWDG Aquatic L	Jib (AW) <sup>k s</sup>		n/a	6.5-0.0	6.5-0.0	e/-1 Degree	Change of 8	n/e	IVa	Change of 25	720% of	e/An	n/p	rum	(zyp)	5,680-1e,400*	32,860	60 (CI+2)	32,800	600	988.2- 1,224.3*	rus.	rym.	ra/a	ru/p	0,005-0.015
BOWDS Aquello L	Jile (30dey) (AM)****		n/p	N/a	n/a	ohange from ambient	2	n/e	n/a	Change of 5	median beckground	n/s	ry/m	r/m	esia.	1.080-1,770*	3,000	20 (CI<2)	3,000	150	TVB	124-309	n/e	Did.	n/a	rs/a
BCWDG Drinleng	Markey (DAMA)		rve .		5.5-8,5	n'n'	Change of	n's	rva	IYa	T/W	n/a	GADDeni	Pirti	n/a	n/a	19,000	1,000	10,000	250	1,000	500	n/o	nie.	n/a	0.01
	Water Quality (ONV)*		No.		5.5-8.5		73/16	Na	500	PVQ.	R/Q	n/a	0/100ml	nia	No	F/0	10,000	1 000	n/e	250	1.500	500	n/u	n/e	n/a	n/a
QUL-12	QUL-12-0M	2014 0a 07	49,5	1 .	7,89	-	13,1	97.9	73	13,6	2.53	-	-	100	0.196	15	38.7	5.1	100	*05	30	5.86	a5 y	100	· 0.001	< 0.002
44.4.16	QUL-12-5M	2014 08 07	48.6		7.07		0.47	64.6	66	<3	7		*		0.135	<5	71.2	₹1	-	< 0.5	35	9.51	44.3		< 0.001	< 0.002*
	QUL-12-1046	2014 98 07	50,7	-	7.01		1.06	90.7	77	+3	2	-			0.164	<b>45</b>	112	41	-	< 0.5	35	5,77	47	-	< 0.001	< 0.002
	QUL-12-16M	2014 08 07	62.7	1	7.92		1.09	104	74	<3	1.88				0.181	45	139	41		*05	37	6.94	48.7	-	4 0.001	< 0.002
	QUL-12-20M	2014 08 07	53.5	1 .	7.91	-	0.7	105	74	<3	1.95				0.18	<5	140	41	-	~05	36	6,07	49	-	< 0.001	< 0.002*
QUL-13	QUL-13-0M	2014 08 07	47.9	-	7.94		3.01	94.6	65	3.2	2.21				0.113	15	54.8	41	-	=05	35	5.56	64.0		* 0.001	< 0.002"
GOL 10	QUL-13-5M	2014 98 07	48.2	-	7,98	_	0.49	94,5	66	43	2.08	-			0,176	<5	72.8	41		< 0.5	34	5.8	44.5	-	< 0.001	4 0.002°
	QUL-13-10M	2014 09 07	4D.8	1 Automorphism	7.93	Thursday	0.87	89.2	70	< 3	1.04	_	-		0.164	15	111	*1		<05	35	5.72	45.3	-	< 0.001	< 0.002°
	QUL-13-15M	2014 08 07	52.5	1	7.92	-	1.16	104	75	<3	1,84				0.174	65	138	41	-	405	36	6.02	45.3		< 0.001	< 0.002°
	QUL-13-2094	2014 06 67	50.2	-	7.94	-	0.61	108	68	43	1.79				0,185	×5	141	41	-	<0.6	36	6,08	49.2		< 0.001	< 0.002°
QUL-14	QUL-14-0M	2014 08 07	48.6	1	7,07	-	7.45	60.0	60	9.4	2.6%	> 2,420	236	-	D 124	45	27.5	41		<05	36	5,84	45.7		< 0.001	< 0.002°
docto	QUL-14-3M	2014 06 07	47.8	1	7,64		1.25	95.0	Gé	43	2.05		200	-	0.137	45	95.5	41	-	405	34	5.50	44.5		+ 0.001	< 0.002*
QUL-15	QUL-15-0M	2014 08 07	46.9	1.	7.91	-	2.26	07.5	69	43	2.54	> 2,420	461		0.127	45	34.8	41		<05	33	5.76	82.2		< 0.001	< 0.002*
402 10	QUL-15-4.5M	2014 06 07	48.1	1 -	7.92		1.15	95.d	67	*3	2.1		201		0,131	<5	70	41		<0.6	36	5,54	50		< 0.001	< 0.002*
CUL-16	QUL-18-0M	2014 08 07	48.3	-	7,03	***************************************	0.97	85	04	< 3	3.31	- ministrania			D,144	×5	56.7	41		405	34	5,53	643		< 0.001	< 0.002°
C05-14	GUL-18-4.5N	2014 08 07	48	1	7,98	-	0.5	95.3	61	<b>&lt;3</b>	2.07	-			0,13	<5	68	*1	-	< 0.5	33	6.5	44.3		< 0.001	< 0.002
OUL-17	QUL-17	2014 08 08	48,7	8.01	7.97	17.3	1.31	\$6.5	60	₹3	2.45	46	2		0.122	<5	65.1	61			34	5.51				
Care	QUL-17	2014 08 09	49.5	7.88	7.88	18.2	0.44	96.3	68	<3	2.31	40	-		0.135	< 5	63	41	The same of the sa	< 0.5	34	5,40	442		< 0.001	< 0.002*
	QUL-17	2014 08 11	48	7.87	7.04	20.2	0.41	97.5	64	<3	2.38		-		0.133	<b>&lt;5</b>	52.4	41		< 0.5	34	5.00	43.3		< 0.001	0.0024
	QUL-17	2014 08 12	47	B.Gt	7.97	20.6	0.44	06.0	84	<3	1.91	-			0.135	<5	49.5	<1	-	405	34	5.05	44	-	0.0013	< 0.002*
	QUL-17	2014 08 13	47.5	- 500	7.69	20,8	0.39	97.8	58	e3	2.15	1			0.12	<5	42.7	41	-	-05	33	5.63	445	-	< 0.001	< 0.002°
	QUL-17	2014 08 14	49,4	7,95		20,9	0,29	97,5	63	<3	2.11	-			0.107	<b>*5</b>	43	41		<0.5	36	5,63	44,2		< 0.001	0.0024
	QUL-17X	2014 08 14	48.5	7.95	7.95	20.9	0.26	97.8	90	<3	2.15	-			0,111	45	43	41	-	<0.5	33	5.65	44.3	********	< 0.001	< 0.002
	ALICE CAUCE	Par unitalistic	SHITTING THE			Translations	SHEET THE	ETTOTI KINDS	1 1 M	University	DEPENDENCE.	THE RESIDE	STREET, STREET	STREET, STREET	USING DROVE	THURST CONTRACT	HAVE DELDI	FLORES (30)	(A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	MARIEMAN	5000000	III NEED ST	guntari z maraur	EGINEES	1518/1597/0111	CHECKER STREET
	QUL-17	2014 08 15	48.4	6.13	7.98	21,0	0.25	96.2	66	< 3	1.92			-	0.103	45	41.1	×1		< 0.5	36	5.63	43.7		< 0.001	< 0.002*
	QUL-17	2014 06 15	48.6	8.12	7,00	30,6	0.52	95.6	56	<3	2.04	-	-	-	0,117	45	46	<1		< 0.5	36	5.62	42.5	**********	* 0.001	< 0.002*
	QUL-17	2014 08 17	47.0	7.78	7.07	21.1	0.36	90.5	8.2	<3	2.32	-			0.122	45	40.6	41		< 0.5	34	5,54	43.5		< 0.001	< 0.002*
QUL-18	QUL-18-0N	2014 08 05	48.6	8.03	7.95	16.9	0.38	95.4	64	<2	2.07	27	1		0.129	<5	0.50	<1		< Q.5	34	5.5	44		< 0.001	< 0.002
	QUL-18-BM	2014 08 08	50,7	7.02	7,97	8.6	0,58	98,9	68	<3	1.02	Instant Processor	and the second		0.163	45	58.3	41		< 0.5	35	5.88	40,1		< 0.001	< 0.002*
	QUL-18-30M	2014 56 08	54.6	7.65		4.5	0.96	107	60	<3	1,89	-	-		0.185	< 5	143	-51	-	< 0.5	36	6.11	49.3		< 0.001	< 0.002°
	QUL-18-QM	2014 08 09	48.0	7.93	7.61	16.5	0.64	64.4	db	<3	2,03			-	0.143	45	04.4	<1	-	< 0.5	35	5.53	42.8		< 0.001	< 0.007
	QUL-18-IM	2014 08 09	40.6	7,55	7.67	11.8	0,37	97.1	73	<3	2.01				D.158	<5	87.7	<1	~	* 0.5	34	3.6	43.0		< 0.001	< 0.002"
	QUL-18-30M	2014 08 09	B4.5	7.50	7.67	4,5	3.4	108	75	<3	1.91		Table Lients		0.180	4.5	138	61		< 0.5	37	6.15	45	mention of	< 0.001	¢ 0.000°
	QUL-16	2014 08 10	48,6	7.77	7.91	20.5	0.36	86.3	63	43	2,25	1			0,136	45	56.3	<1		40.5	34	5.50	45		< 0.001	< 0.002*
	QUL-18	2014 08 11	47,B	7.73		20.3	0.38	B7.7	67	<3	2,22	-		-	0.203	<5	53.6	<1		× 0.5	34	5.63	44,3		< 0,001	1.0022
	QUL-18	2014 08 12	47.4	7.02		21.0	0.51	95.5	94	×3	1.00	-	-		0.126	4.5	51.1	*1		*05	36	5,67	44.1		< 0.001	0.002
	DUL-18-OM	2014 08 13	47.2	-	7,98	20.3	0.34	611.2	57	43	2.1	-			0.12	<5	44.0	<1		< 0.5	35	5.63	44.7	-	< 0.001	< 0.000°
	QUL-18-16M	2014 08 13	50,2	-	7,97	10.1	0.27	103	70	<3	1,65				0,173	45	111	41		+0.5	34	5.65	46.2	-	0.001	< 0,002°
	QUL-18-30M	2014 08 13	52.3		7.07		0.49	109	69	*3	1,91				0,186	<5	139	×1		< 0.5	35	0.71	48,9		* 0.001	< 0.002*
	QUL-16	2014 08 14	46.2	8.D4	7.07	21.2	0.22	97.9	87	<3	1.98			-	0.105	<5	45	41		.05	35	5.65	44.1		< 0.001	< 0.000°
	QUL-18	2014 08 15	45.9	6.09	7.93	21.0	0.28	94.7	66	<3	1.80	-	-		0.102	<5	42.1	<1		×05	36	5.02	43.3		< 0.001	P.0025
	QUL-15-0M	2014 08 16	49,3	9,08	7.95	20.4	0,62	84,7	64	<3	2.02	-	jan da artirontana		2,108	<5	41	<1		c 0.5	36	5.6	43.9		< 0.001	< 0.000°
	QUL-18-10M	2014 08 16	50	7.82	7.84	13.9	1.4	97.4	54	<3	2.06	4.4	-		0.136	45	87.0	*1	-	×0.5	36	0.82	44.0		< 0.001	< 0.002°
	QUL-18-30M	2014 08 16	54,6	7,60	7.91	4.7	3,17	100	60	43	1,7	*			0.173	45	141	41		<0.5	35	6,37	40.1		< 0.001	4 0,000
	QUL-18	2014 08 19	40,6	7,60	7.93	20 D	0.35	96.5	83	< 3	2.07				5.112	× 5	40.3	41		< 0.5	32	5.54	43.6	*	< 0.001	< 0.002*
	QUL-18	2014 DB 26	50.6	7.79	à	18.5	0.45	97.8	74	*3	2.2		E.		0,143	< 5	5D.7	*1		< 0.5	35	5.76	44.8	•	= 0.001	< 0.002*
	QUL-18X	2014 08 26	50.0	7.79	7.99	18.5	0.30	97.4	78	43	2.11	Section Classes	W 1994	-	0.12	<5	50.9	<b>41</b>	Inner on the	405	35	5.76	42.1	1	4 0.001	* 0.002*
		O SERVER		0			THE ROOM	0.0000000000000000000000000000000000000			STATISTICAL PROPERTY.	MANAGEMENT	HOSTI MONTH	HISTORY TRUBERS	CHIEFE PROPERTY	(CONTRACTOR NO.	110 × 110	1000000	Manual manager			1911.8 1111	ALTERNATIONS	POPPER DE	Caral Convo	DESCRIPTION OF THE

Assembled ALE Has & Lingston L

Concentration grades then SCAYCG Aquete Life (AW) guideline. Concurred on greater than (ICM/CIG Uniting Water (TW) guideline Commensus greater than DEMICG Aquest Lie (30der) (AM) guideline

BOLD Concentration greater there or equal to Concern (Mineray Water Guelly (TWI) quideline

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n'is Denzière no applicable sysridaris.

\* MS/Ca sie net normally calculated where one or milite concentrations are less literature lames MCL.

<sup>\*</sup> Luboristiery-associati limit nut el sungu.

\* Drafato Carbornous Apparented Waiter Clearing Galdoulines 2006 Eastern, ugaletud 2014.

\* A Compendision of Watserny Watser Clearing Gausseyman for Errano's Columbia, updated August 2006.

Controles union with phy mealur atther Temperature of Hardinaus.

<sup>4</sup> Handlik Danada Drestung Water Dukkiperes 2012.

<sup>\*</sup> Secondary strongs or cirents welve, not 30 day mean.

Cubilities for Cyber applied.

The ball phosphere produces a restricted on the production of the produ

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

															Disactve	est Martinia														
Sample Location	Sumple ID	Sampia Date (vyyy mm dd)	Disselved Aluminum (ug/L)		Dissolved from bugita	Dissolved Magnesium (mg/L)	Dissolved Manganese (ug/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mgrt.)	Antimony (µg/L)	Armenic gages			Boron (m;/L)		Chromium (µ;pL)	Coball (pg/L)			Lithlan (ug/L)		tfolybdenum (sg/L)	Nickel (pgA_)			Freilium (japil.)		Uzanium (yg/L)		Zin
Guidelines		10201	-	~																										
CVAGG Aquetic Li	W IAMINA		1007	n/a	350	re's	na	risin	c/a	rva	n/e	es/in	N/a	15/4	n/e	n/a	nAt	irle	rve	n/a	n/s	n'e	rye	n/40	re/a	rve	0/8	r/a	n/L	MA
CIVIDG Aquato L	te (Yoday) (AM <sup>E, an</sup>		504	n/a	n/a	réa	nia	10/10	7/4	n/a	nie	6/8	nis	n/a	N/a	n/a	Na.	nfa	ts/a	n/a	nie	r/a	IV3	7/9	pre .	n/a	n/a	n/a	rva .	W)
SCWOG Drinking V	West (DW)**		200	n/a	17/8	n/s	rula	n/a	76	10/8	1/4	n/a	מינח	n/s	n'a	n/a	0/2	0/a	1578	n/a	rie	09	0/6	170	mia	re/a	rr/e	n/a	rve	P/s
	Vyater Quality (DVV)*		rt/m	6/8	n/a	r/a	nia	n/a	ryg	rs/s	riAi	er/as	ob	rvu	rea	nia	nita	10/4	13/0	n/a	n/s	n/a	n/a	n/s	n/a	n/a	rs/a	n/a	n/a	n/a
QUL-12	QUL-12-0M	2014 06 07	12.4	16.7	< 30	1,54	0.45	0,556	1,02	≪ 0,1	0.13	7.42	< 0.1	* 10	4 Q.D1	< 0.5	< 0.1	1.7	< 0.05	0.74		0413	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.134	4.1	1
	GUL-12-5M	2014 08 07	102	16,3	< 30	1.9	0.174	0.453	0.912	× 0.1	< 0,1	3.15	40.1	4 10	< 0.01	< 0.5	€ 0.1	< 0.5	4 0.05	0.81		0.79	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.135	<1	<
	QUL-12-1901	2014 06 97		17.1	< 3D	1,68	0.456	0.459	0.927	× 0.1	1.0	5.44	< 0.1	*10	< 0.01	< 0.5	< 0.1	0.51	< 0.05	0.84		0.274	40.5	< 0.8	< 0.01	< 0.01	< 10	0.142	41	4
	QUL-12-15M	2014 08 07	5.7	17.5	< 30	2.04	0.622	0.486	1.03	<01	011	5.34	<0.1	< 10	₹ 5,01	< 0.5	× 0.1	0.67	< 0.05	0.72	*	0.275	< 0.5	< 0.5	< 0.01	<0.01	× 30	0.149	<1	4
	QUL-12-20M	2014 08 D7	5.5	18	4.30	2.05	0.498	0.471	0.907	* Q.1	< 0.1	5.13	< 0.1	£ 10	< 0.01	< 0.5	€0,1	< 0.5	4 0.05	0.78	-	0.286	~ Q.6	< 0.6	40.03	< 0.01	4 20	0.152	- KI	15
GUL-13	QUL-13-0M	3014 08 07	11	16,1	₹ 30	1,68	2.03	0,49	1	1,0 >	0.11	5.94	< 0.1	× 10	< 0.01	< 0.5	< 0.1	0.70	< 0.05	6.0	-	0.37	< 0.5	< 0.8	× 0,03	< 0.01	e 10	0,132	4.1	
	QUL-13-5M	2014 00 07	10.4	18,2	< 30	1.57	0,150	0.481	0.004	× 0.1	< 0.1	8.21	< 0.1	< 10	4 0,01	× 0,5	*0.1	40.5	< 0.05	0,81		0.272	< 0.5	< 0.5	= 0.01	< Q.01	# 10	0.130	*1	1
	QUL-13-10M	2014 68 07	9.5	16.7	< 30	1,05	0.275	0.469	0.053	× Q.1	0.11	5.27	< 0.1	< 90	< 0.01	< 0.5	40.1	4 0.5	< 0.05	0.80		0.273	< 0.5	< 0.5			< 10	0.15	41	1
	QUL-13-15M	2014 06 07	5.1	17,7	< 30	2.03	0.267	0.47	0.966	< 0.1	0.1	5.08	<0.1	< 10	< 0.01	< 0.5	< 0.1	0.57	< 0.05	0.87		0.273	4 0.5	40.5	≈ 0.01	< 0.01		-	-	1
	GUL-13-20M	2014 08 07	8.1	10.9	< 30	1.95	0.342	2.478	1	< 0.1	<01	5.11	<0.1	< 10	< 0.01	< 0.5	< 0,1	0.57	< 0.05		-	0.260	< 0.5	< 0.5	< 0.01	< 0.01	4 10	0.15	×i	1
QUL-14	QUIL 14-6M	2014 04:07	11.1	16.3	< 30	1,92	6,63	0.578	0.981	₹ 0.1	0.14	6,99	*0.1	< 1D	* 0.01	< 0.5	< 0,1	1.39	< 0.05	0,66		0.305	405	4 0.5	10.0 >	< 0,0t	< 10	0.125	<1	
	QUL-14-38	2014 08 07	12.3	18.1	× 30	1.87	0.934	0.A78	0.937	× 0.1	< 0.1	5.42	<0.1	< 10	< 0.01	× 0.5	< 0.1	0.50	× 0.05	0.75		0,296	405	405	< 0.01	< 0.01	* 30	0.136	<1	1
QUL-15	QUL-15-0M	2014 08 07	28.6	18.4	< 30	1.05	6,24	0.90		4 0.1	0.3	5.19	<0.1	< 10 < 10	< 0.01 × 0.01	405	+01	0.51	< 0.05	0.75	-	0.374	<05	405	< 0.01	- 0.01	* 10	0.137	41	4
2012	QUL-15-4.5M	2014 08 07	10.3	16.2	< 30	1.99	2.18	0.506	0.901	401	0.1	5.71	401	4 10	×0,01	< 0.5	<0.1	0.04	× 0.05	0.75	-	0.315	405	+05	< 0.01	10.01	< 10	0.133	41	1
GUL-16	QUL-18-8M	2014 04 07				1.89	0.864	0.49	0.919	×01	0.13	5.36	<0.1	4 10	< 0.01	< 0.5	×01	0.58	× 0.05	0.78	-	6.29	< 0.5		< 0.01	< 0.01	< 10	0.133	41	4
	QUL-16-4.5M	2014 08 07	10.4	16.1	4 30	The same a same than become	TOWAS THE STREET	THE REAL PROPERTY.	-		-		< 0.1	* 10	< 0.01	< 0.5	<01	0.66	< 0.05	0.55		6.279	<0.5	<05	< 0.01	< 0.01	< 10	0.127	- 41	<
QUL-17	GUL-17	2014 08 08	12.2	16.4	< 30	1,91	0.754	0,464	0.830	*0.1	9.1	5.49	< 0.1	< 10	< 0.01		< 0.1	<0.5					405	*05	× 0.01	< 0.01	× 10	0.135		
	QUL-17	2014 08 09	9.9	18.4	< 30	1.88	0.856	0.503	0.639	<01	< 0.1 0.12	3.46	403	< 10	< 0.01	< 0.5	× 0.1	+ 0.5	< 0.05	1.04		0.296	< 0.5	4 0.5	< 0.01	< 0.01	4 1D	0.139	41	
	QUL-17	2014 08 11	10	15.1	4 3D	1.83	0.222	0.406	0.85	401	4 0.1	5.41	< 0.1	4 10	< 0.01	× 0.6	<01	4 0.5	* 0.05	0.77	-	0.311	< 0.5	× 0.5	× 0.01	× 0.01	< 10	0.138	61	4
		2014 GE 13	9.4	15.9	× 30	1.9	0.284	0,471	0.833	4 0,3	0.1	5,47	40.1	<10	4 Q.DI	< 0.6	4 0.1	4 0.5	< 0.05	0.80	-	0,352	< 0.5	< 0.5	= 0.01	< 0.01	* 10	0.13	<1	4
	QUL-17	2014 05 14	12.6	16.6	- 30	1.83	G.843	0.475	0.815	401	0.1	5.39	< 0.1	< 10	< 0.01	< 0.5	< D.1	<0.5	< 0.05		-:-	0.296	40.5	* 0.5	< 0.01	* D.D1	4 1B	0.125	<1	-
	QUL-17X	2014 06 14	10	16.3	< 30	1.88	0.602	0.481	0.829	< 0.1	0.12	5.33	4 0.1	< 10	< 0.01	<0.5	< 0.1	< 0.5	< 0.05			0.290	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.124	<1	-
	DAVOC.	PC STOTION	and the same	0.905408	detableam	HEREN STORAGE	and Glans		1111211	HAVE DIRECT	S161-08215	COLUMN TO	English .	12.200	Albert Chie	HEREN HEU	SHEET OF	THE SOL	MERIDA	HIT AT I	MATERIAL	ACCRECATE VALUE	A HARRI	BUSIN	ALC: NO.	SHARRE	SHOROUS	CONTRACT.	HERESTER.	G BES
	QUL-17	2014 08 15	9,6	16.3	< 30	1.86	0.574	0.473	0.836	< 0.1	0.12	5.52	<01	4 10	× 0.01	< 0.5	×0.1	< 0.5	< 0.05	< 0.5	*	0.301	< 0.5	< 0.5	₹ 0.01		< 10	0.127	<1	-
	QUL-17	2014 08 16	10.3	16.3	× 30	1,80	0.464	0.459	0.797	4 0.1	0.1	5.43	4 0.1	× 10	< 0.01	< 0.5	< 0.1	<0.5	< 0.05		*	0.267	< 0.5	< 0.5	« 0.01	< 0.01	4 10	0.134	<1	-
	QUL-17	2014 98 17	10	18.1	4.30	1.86	0.694	0.47	0.82	< 0.1	0.1	5.37	<0.1	4 10	4 0.01	< 0.5	×0.1	× 0.5	< 0.05	0.50		0.292	+0.5	* 0.5	× 0.01	< 0.D1	- 10	0.132	41	1
QUL-18	QUL-18-QM	2014 08 08	10.9	16.3	- 30	1,61	9.284	0.468	0.624	401	0.11	5.37	< 0.1	4 10	< 0.01	< 0.6	< 0.1	< 0.5	< 0.05	0.57		0.301	* 0.5	* Q.5	* 0.01	× Q.Q1	* 10	0.128	4.3	1.
	M3-87-1132	2014 On 08	11.1	17	< 30	1,97	0.100	0.46	0.656	< 0.1	<01	5.32	<0.1	< 10	< 0.01	< 0.5	< 0,1		< 0.05	0.62		0.282	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.136	<1	1
	QUL-18-30M	2014 09 08	5.9	18.4	< 30	2.11	1.73	0.462	0.911	<0.1	Q,1	5.25	< 0.1	< 10	£ 0.01	4 D.5	< 0.1	< 0.5	< 0,05	0.71		0.285	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0,143	4.1	
	QUL-18-0M	2014 DB D0	10.3	16.4	< 30	1.80	0.950	0.474	0,830	× 0.1	<01	5.42	€ 0.1	₹ 10	< 0.01	< 0.5	< 0,1	0.58	€ 0.05	<05		0,312	< 0.5	× 0.5	< 0.01	₹ 6.01	* 10	0.132	<1	1
	QUL-18-6M	2014 DB 09	9.4	16.8	* 30	1.9	0.149	0.469	0.533	* Q1	« Q1	5.02	40.1	× 10	< D.01	< 0.5	4 0, f	× 0.5	< 0.05	< 0.5		0.281	< 0,5	+ 05	< 0.01	4 0.01	4 10	0.142	<1	
	QUL-18-30M	2014 08 09	5,6	18.4	< 30	2.00	0.54	0.469	0.005	K 0.1	0.11	5.9	s 0.1	× 10	< D.01	< 0.5	× 0.1	0.62	× 0.05	0.64		0.297	< 0.5	+45	× 0.01	< 0.01	4 10	0.157	41	
	QUL-18	2014 00 10	11.4	10.4	< 30	1.89	1,18	0.493	0.654	× 0.1	0.1	5.53	< 0.1	< 10	< 0.01	+ 0.5	< 0.1	0.54	< 0.05	0.54		0.29	× 0.5	< 0.5	€ 0.01	4 0.01	< 10	0.131	41	4
	QUL-18	2014 09 11	12.3	16.1	× 30	1.86	3.07	0.485	0.829	< 0.1	0.11	6.55	<0.1	< 10	< D.01	<0.5	< 0.1	< 0.5	< 0.05	1,03		0.286	< 0.5	<05	× 0.01	< 0.01	4 10	0.13	×1	1
	QUL-18	2014 05 12	10.1	16	< 30	1.84	0.438	0.464	0.827	< 0.1	0.1	5.32	<01	< 10	< 0,£1	* 0.5	< 6,1		# 0.05	0.76	-	0.3	4 D.5	< 0.5	< 0.01	< 0.01	< 10	8.134	¥1	-
	QUIL-18-0M	2014 DE 13	9.2	15.6	< 30	1.87	0.224	0.463	0.834	< 0.1	0.1	5.43	< 0.1	× 10	< 0.01	< 0.5	€01	< 0.5	< 0.05		×	0.315	= 0,5		< D.01	< 0.01	4 ID	0.13	41	6
	CUL-18-16M	2014 DB 13	105	17	< 30	1,91	0,094	0.449	0,834	< 0.1	< 0,1	4.06	< 0,1	< 10	< 0.01	4 0.5	€ 0,1	< 0.5	< 0.05			0.257	< 0.5	< 0.5	× 0.01	<0.01	< 10	0.145	<1	
	QUIL-18-30M	2014 08 13	5.8	17.7	< 30	2	0.639	0.456	0.922	× 0.1	<0.1	4,66	< 0.1	× 10	< 0.01	405	< D,1	0.62	< 0.05			0.289	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.137	*1	1
	QUL-18	2014 08 14	10	18.6	× 30	1.9	0.493	0.450	0.808	< 0.1	×0.1	9.13	< 0.5	< 10	< 0.01	< 0.5	< 0.1	- 0.5	<0.05	GREAT STATE OF		0.291	< 0.5	s 0.5	< 0.01	< 0.01	< 10	0.129	<1	1
	OUL-15	2014 08 15	10.1	18.5	< 30	1.9	0.508	0.489	0.828	401	0.11	5.45	≥ 0.1	€ 9Q	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5		0.306	< 0.5	< 0.5	< 0.01	4 D.01	× 10	0.13	×1	
	QUL15-0M	2014 06 10	10.2	10.2	< 30	1,89	0,584	0.473	808,0	< 0.1	0,11	6.53	40,1	< 10.	< 0.01	× 0.5	* B.1	0,51	< 0.05		-	0.306	< 0.5	< 0.5	« D.01	< D.01	< 10	0,131	×1	
	QUL-18-10M	2014 06 16	10.5	16.0	< 30	1.87	0,544	0.470	9.83	4 0.1	< 0.1	6.38	+ 0,1	4 10	< 0.01	< 0.5	< 0.1	0.54	< 0.05			0.252	< 0.5	< 0,5	< 0,01	< 0.01	< 10	G,148	41	1
	CUL-18-30M	2014 08 16	6,1	16.5	< 30	2,56	4.41	0.497	6,946	< 0.1	0.12	8.1	< 0.1	< 10	4 0 01	< 0.5	< 0.1	1.07	< 0.05			0.335	< 0.5	< 0.5	< 0.01	< 0.01	∢ 10	0.109	<1	
	OUL-18	2014 05 19	9.1	10.3	< 30	1.9	0.495	0.415	0.74	< 0.1	481	4.75	=01	€ 10	< 0.01	× 0.5	< 0.1	405	< 0.05		*	0.267	< 0.5	<0.5	< 0.01	< 0.01	× 10	0.122	×1	13
	QUL-18	2014 00 26	0.0	17.1	- 30	1,93	0.625	0.431	0.784	< 0.1	× 0.1	5.19	* 0.1	€ 10	× 0.01	< 0.5	< 0.1	0.65	< 0.05			0.271	405	4 0.5	< 0.01	+ 0.01	≺ 10	0.124	* 1	
	QUL-18X	2014 06 26	9.7	17.2	< 30	1.95	0.673	0.45	0,709	40.1	0.1	5.20	<0.1	< 10	< 0.01	< 0.5	< 0.1	0.71	< 0.05		-	0.272	< 0.5	≺ 0.5	< 0.01	< 0.01	< 10	0.13	4.7	<
	DAGO	NPD & HILL	SERVING BUILDING	1. 100-4 100	I STEEL (ALL)	9 6 6 6 7 10 10 10 10	1 保持 多数	DESCRIPTION OF THE PARTY OF THE	2	(2) 自然有效的基础	Constitution of	2.0	CERTIFICATION OF THE PERSON OF	THE PERSON	CASSOCIATED COLOR	THESE COMMERCE	DERENGER STATES	15501 20776	THE HOLD	NEAR COLD	SOURCE STONE	<b>出现是广东州</b> 州	REPORT OF THE	EZ FOR FIRST LINE	1000000000	Santagan)	<b>国籍区景景</b>	THE REAL PROPERTY.	HUMAN THU	0.000

Associated #LB files \_ L400070 \_ L40

Dengties concentration tree than indicated datables limit or RPC less than indicated value.
 Denotes shall you not concluded.

Concerned a greater than BOWIK, Aquant Life (AVI) guideline

EQUE Concernation greater than BOWIER Distance (DW) guidalitie. 

EQUO Concertesion greates that int equal to Canadian thurstry Water Quelty (TM) guideline

\* Culturatery disjection first ext at earge.

Bertish Courmon Appeared Fifter Custing Guebelise 2006 Edibin, systema 2014.

A Gisspension of Virbing West Custing Custaline for Shifter Colorings. Lightlehir August 2004.

Guddeline version with plant, Section of Shifter 1 emperature or Headness.

\* Health Carada Estring Water Gustalines, 2012

Securidary sharms: or observic value, cost 50 day mount.

Gentainer and applicable for alle selections.

\* Togetime and improve uptime running management of the period of the pe

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nte Consces no applicable stordaro.

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

				_	1	1	1	_		_	ž.							Total Ma	CAME.	_		,							,	-		_	_
Sample Lacation	Sample Ki	Sample Date tyyyy mm dii)		Antimony			Seryillum					Chromium (sqll.)				Leed (yg/L)		Magnesium (Agig.	Manganess (I/SA.)	Maroury (Maroury	Melybdenum teg(L)		Poinssium (imil.)			Silver pop(L)					Uranium (xgL)	Variable:	
Quidelines		(77)7 100 00	400	1 Brillian	1 100000	March	1004	I PACS	- Contract I	994		(Party)	The same	Blick	Control .	(100-6)	(Market)	1000	(lotter)	1 0000	- Parel	The second	UI PAZ	The same	Collect	Ballines	the state of	- Bylin	Ballera	348443	(HD-)	Galdieri	1 Belle
OWOO Aquatic UI	le (ANN) <sup>k,u</sup>		role	30	5	8,000	m/e	prin	1,200	0,018-0.006	n/a	1 (Ca(-6))	110	0.0-0.2	1,000	27.2-67.7	870	refe.	1,000.8-	Noted	2.000	25-65*	373,000- 432,000	2	nia	0.10	n/a	0.3	n/a	2,000	300		33
total to an and make or blood	and the LaCottober		arra line			10000	Complete Comme		17.4	Mark College and A							1000			meternia in				10000731 111	1000/17 1		military -	month (Sec.)	1	director		***************************************	
OWGG Aquatic Lit	le (30dey) (AUV) <sup>6 s.).</sup>		rola	n/a	nia	1,000	5.3	nfa	Pria	na	0/3	6/a	4	3-3"	e/a	4.45.8	14	rVa	791.1-840	bollass	1,000	Na	hfa	n/a	N/a	0.054	cia	R/a	ri/a	6/8	e/a	n/a	7.5
CIARGIA Drinimy W			ris/da	14	75	nh	4	n/B	5,000	n/s	nh	n/a	mia	500	75/fa	50	n/a	n/a	n/a	1	230	8/h	Pròst	10	n/s	min	e/h	1	nla	m/m	n/e	19/8	5.00
ensalen Drinking V	Nater Quelty (DM)*		100	4	10	1,000	n/e	Dyk	5,000	5	19/9	50	n/a			10	6/8	n/a	56	1	6/8	10/40	n/a	10	nie	45/4	200,000	6/9	7/0	6/9	20	n/a	6,00
QUL-12	DUL-12-DM	2014 01 07	793	< 0.1	0,41	17.7	4 0.1	< 0.5	44 SQ	< 0,01	17,100	< 0.5	0,55				1.23	2.395	23.4	< 0.05	0.483	0.77	840	< 0.5	3.320		1,110	< 0.01	≈0.1	20	0.163	2	2,0
	QUL-12-5M	2014-06-07	23.3	< 0.1	0.13	8,48	< 0.1	< 0.5		< 0.01	18,430	< 0.6	< 0.1	1.0	< 30	< 0.05	0.61	1,990	1.27	< 0.05	0.281	< 0.5	473	< 0.6	1,600	< 0.64	824	< 0.01	40.1	< 10	0.142	<1	43
	OUL-12-10M	2014-09-07	\$8.2	< 0.1	0.16	4,13	≤ 0,1	< 0.6	- 10	< 0.01	17,100	< 0.5	4 0.1	1.44	66	< 0.06	0.71	2.020	7.63	= 0.06	0.267	< 0.8	496	4 0.6	1,700	< 0.01	982	< 0.01	40.1	< 10	0.152	41	€ 5
	QUL-13-15M	3014 96 07	56.1	< 0.1	0.14	5.65	40.1	<0.8	< 10	< 0.01	17,000	< 0.5	× 0.1	1.57	90	< 0.05	0.63	2,100	2.28	< 0.05	0.205	< 0.5	501	< 0,5	1,860	< 0.01	803	< 0.01	< 0.1	< 10	0,156	<1	< ;
	QUL-12-20M	2014 08 07	42.2	< 0.1	0.14	5.81	≤ 0.1	<0.6	= 10	< 0.01	14,200	4 0.6	< 0.1	1.21	43	< 0.05	0.64	2,120	2.08	≤ 0.06	0.278	0.0 >	402	< 0.6	1,800	= 0.01	921	< 0.01	40.1	< 10	0.150	41	41
QUL-13	QUL-13-0M	2014 08 07	164	<0.1	0.19	7.74	4 0.1	< 0.5	≪ 30	< 0.81	16,000	€ 0.5	0.11	114.34	125	0.056	0.73	1,860	5.68	< 0.05	9,338	< 0.5	544	< 0.5	1,590	< 0.01	872	< 0.01	40,1	4 10	0,143	41	€ 2
	QUL-13-5M	2014 08 07	22.4	< € € €	0.12	8.42	4 0.1	10.3	< 10	< 0.01	16,600	< 0.6	< 0.1	0.21	4 30	< 0.05	0.00	1,670	1.58	= 0,00	0.277	40.6	465	< 0.5	1.850	4 0.01	803	< 0.01	< 0.1	< 10	0,142	41	4
	QUL-53-10M	2014 08 07	30.2	<0.1	0.13	8.62	4 0.1	< 0.6	< 10	< 0.01	16,300	< 0.8	×0.1	1.00	37	< 0.06	0.5	1,600	1.77	= 0.06	0.204	< 0.6	473	< 0.6	1,860	< 0.01	836	< 0.01	40.1	< 10	0,147	41	4
	CUL-13-188	2014 08 07	88.2	< 0.1	0.14	8,1	< 0.1	< 0.5	< 10	< 0.01	17,300	< 9.5	< 0.1	1,84	58	< 0.05	0.77	2,050	2.5	< 0.05	0.276	< 0.5	482	< 0.8	1.780	< 0.01	004	< 0.01	<0.1	< 10	0.16	41	4
	QUL-13-20M	2014 08 07	36,2	< 0.1	0.12	6.43	< 0.1	< 0.5	< 10	4 0.01	17,800	< 0.5	< 0.1	1.04	24	< 0.86	0.50	2,070	1.01	< 0.08	0.278	<0.5	486	<0.5	1,780	< 0.01	600	< 0.01	< 0.1	< 10	0.156	41	4
QUL-14	QUL-14-0M	2014 00 07	442	≤ 0.1	0,3	12.0	< 0,1	< 0,5	< 10	< 0.61	16,400	≤0.6	0,31	<b>强印度</b>	346	0,134	0,8	2,16D	16.2	< 0.06	0.42	0,87	757	< 0,5	2,520	< 0,01	983	+ 0.01	< 0.1	23	0,146	1,2	4
	QUL-14-3M	2014 08 07	85,9	< 0,1	0.13	5.89	60.1	< 0.5	< 10	< 0.01	18,800	< 0.0	< 0.1	1.72	46	< D.DB	0.55	1,850	2.70	< 0.05	0.295	< 0.5	460	< 0.5	1,800	< 0.01	#14	< 0.01	< 0.1	< 10	0,137	-41	€;
QUL-15	QUL-15-004	2014 08 07	f3P	€0.1	0.18	8.57	× 0.1	40.5	< 10	< 0.01	18,000	< 5.5	4 D.1	41.4	109	4 0.06	0,0	1,860	9,06	< 0.08	0.373	< 0.5	620	4 D.S	1,860	< 0.01	901	4 0.01	40.1	4 10	0.137	41	· ·
	QUL-15-4.5M	2014 06 07	64.3	#0.1	0.14	6.87	<0.1	< 0.5	< 10	4 0.01	18,000	< 0.5	< D.4	1.34	93	< 0.00	0.00	1.94D	2.21	< 0.05	0.303	< 0.5	AND	< 0.8	1,840	< 0.01	812	< 0.01	< 0,1	< 10	0,143	41	4
QUL-10	QUIL-16-0M	2014 08 07	47.3	₹8,1	0.16	0.18	<0.1	< 0.5	4 10	< 0.01	18,200	< 0.5	<0.1	1,84	41	0.07	9.57	1,830	3,31	< 0.06	0.323	40.5	968	< 0.8	1,640	× 0.01	690	< 0.01	0.10	< 10	0.138	45	3.
400	QUE-18-4,5M	2014 08 07	50.2	< 0.1	0.14	6.71	< 0.1	< 0.9	4 10	< 0.01	18,400	< 0.5	40.1		< 30	< 0.05	0.57	1,880	1,86	< 0.05	0.293	< 0.5	487	< 0.6	1,670	< 0.01	826	< 0.01	49.1	= 10	0.137	45	-
QUL-17	DUL-17	2014 08 08	00,5	<0.1	6,15		< 0.1	< 0.5	4 10	< 0.01	18,600	< 0,5		1111		40.06	88.0	1.070	3,18	< 0.06	0.291	4 Q.B	811	< 0.6	1,760		876	< 0.01	< 0.1	< 10	0.138	<1	<
\$495-11	QUL-17	2014-08-08	23.9	< 0,1	0.12		< 0.1	<05	¥ 10	< 0.01	19,400	<0.5	< 0.1		< 30	< 0.05	0.63	1.910	1.36	< 0.05	0.396	< 0.8	407	<0.5	1,800	< 0.01	435	< 0.01	40.1	< 10	0,143	41	4
	QUL-17	3014 08 15	22.7	₹0.1	0.13		« 0.1	40.5	< 10	4001	15,800	< 0.6	401		< 30	< 0.06	0.0	1,880	2.15	< 0.05	0.302	< 0.5	515	<0.5	1,543	40.01	948	< D.01	40.1	« 10	0.139	41	4
	QUL-17	2014 08 12	15.0	<0.1	0.12	5.48	40.1	< 0.5	4 10	< 0.01	16,200	<0.5	401		< 30	4 0.05	0.86	1,91D	1,37	< 0.05	0.325	< 0.5	473	405	1 600	< 0.01	859	< 0.01	×0.1	≠ 10	0,142	41	4
	QUL-17	2014 08 13	13.9	<0.1	0.13	6.32	* CL1	40.8	9 10	< 0.01	15,500	< 6.5	×0.1		< 30	₹0.05	0.72	1,870	1.63	<0.05	0.32	< 0.5	453	405	1,500	< 0.01	824	< 0.01	<0.1	× 10	0.127	41	-
	QUL-17	2014 05 14	17.5	<0.1			< 0.1	40.5		< 0.01	18,400	< 0.8		0.61	4 30	< 0.05	0.62	1.930	1.74	1 -0.00	0.323	< 0.5	491	405	1,635	< 0.01	673	< 0.01	<03	= 10		41	-
	QUL-17X	2014 05 14	16.1	40.1	0.13		40.1	<0.5			18,200	<65	481			< 0.05	0.67	1,900	1.78	-	0.323	4 0.5	491	< 0.5	1.616		900	< 0.01	451	× 10		41	-
		U. D. BARRANIA		THE HASTE			STREET, STREET,	S S S S S S S S S S S S S S S S S S S		HUNGSTREEN	CONTRACTOR			Line Line		RUGSERRUSE	#45.2K)		PARTICIPALISADA			seem		SHEFFER			((4) (0)		TERRIT	-	Alto Tast		6 1328
	DUL-17	2014 08 15	19.6	< 0.1			< Q.1	< 0.5	9.10	< 0.01	16,000	< 0.5	~Q1	0.7	< 30	< 0.05	= 0.5	1,860	1.5	1 .	0.335	< 0.5	476	< 0.5	1,800	< 0.01		< 0.01	< 0.3	< 10		41	4
	QUR-17	2014 Q5 16	17.4	< 0.1	0,13	8.43	w G.1	<0.5	< 10	< 0.01	16,000	< 0.5	< 0.1		< 30	+ 0.05	40.5	1,840	1,27	1 -	0.278	4 Q.B	485	48.5	1,540	<0.01	826	< 0.01	< 0.1	< 10	0.120	41	4
	QUA-17	2014 08 17	10.0	<0.1	0,14	5,43	× 0.1	<0.6	< 10	< 0.01	15,700	< 0.5	<0.1	41	< 30	< 0.05	0.7	1,000	1,64	( A	0,308	< 0.5	486	40.6	1,520	<0.01	848	< 0.01	40.9	< 10	0.144	<1	4
QUL-18	QUL-19-0M	2014 08 08	24.2	461	0.93	6,38	< 0.1	< 0.9	€ 10	< 0.01	15,800	< 0.5	*0.7	0.66	< 30	< 0.05	0.02	1,900	1,17	< 0.03	0.386	< 0.5	608	= 0.5	1,540	< 0.01	829	<0.01	< 0.1	< 10	0.136	<1	-
COULTS	QUI-18-8M	2014 06 08	28.3	< 0.1	0.13		< 0.1	40.5	4 10	< 0.01	10,400	60,5	e0.1	0.94	4 30	< 2.05	0.56	1,930	1.38	40.05	0.278	<05	484	< 0.5	1,830	<0.01	847	<0.01	481	4 10	0.137	44	4
				< 0.1	0.13		< 0.1	< 0.9		< 0.01	18,100	< 0.5	< 0.1		87	< 0.06	0.86	2.110	3.61	< 0.05	0.365	405	481	< 0.5	1,830		843	< 0.01	< 0.1		0.155	<1	4
	CUL-18-30M	2014 08 06 2014 08 09	57,0	< 0.1	0,13		< 0.1	<0.8	< 10	< 0.01	18,000	< 0.5	<0.1		< 30	< 0.05	10.5	1,000	1.01	4 0.05	0.367	< 0.5	475	< 0.5	1,800	40.01	420	< 6.01	< 0.1	< 10	0.141	41	4
	GUR-19-6M	2014 GB GB	33,1	×0.1	0,11		< 0.1	<0.1	4 10	< 0.01	16,400	<0.5	<0.1		< 20	< 0.05	0.51	1,800	1,02	< 0.05	0.274	40.5	455	40.5	1,560	< 0.01	811	< 0.01	40.1	< 10	0,148	- 51	-
	A Designational Statement of Concession, St. Learning, St.	AND REAL PROPERTY AND ADDRESS OF THE PARTY OF THE						< 9.6				< 0.5		8 1		0.00	9.67	2,160	13.7	4 0.05	0.293	4 0.8	54t	< 0.8	2,170	<0.01	950	< 0.01		******		41	-
	OUL-18-30M	2014 08 09	206	< 0.1	0.19		≪ 0.1	100	4 10 4 10	4 0.01	18,200	40.5	40.1		< 30	4 0.05	<0.5	1,000	1.89	< 0.05	0.302	40.5	BESC	< 0.5	1,620	< 0.01	800	< 0.01	< 0.1	* 10	0.157	41	-
	QUL-18 QUL-18	2014 08 10 2014 08 11	23,3	< 0.1 < 0.1	0,13		< 0,1		< 10	< 0.01	18,200	<0.5		0.70	< 30		B-84	1,800	1.74	< 0.05	0.310	< 0.5	494			46.01	340	< 9.01	€ 0.1		0.14	41	-
	QULIN	2014-06-12	17.9	< 0.1				<0.5		< 0.01	16,000	<0.5		0.74			0.89		1.83	< 0.05	0,327	<0.5	460	×0.8	1,670				< 0,1	< 10		<1	1
		2014 08 13		< 0.1	0.13		< 0.1	40.8		< 0.01	15,600	<0.5	*Q.1		< 30	< 0.08	0.77	1,890	1.52	< 0.05	0,335	₹0.5	463	4 0.5	1,580	< 0.01	843	< 0.01	< 0.1	< 10	0.135	<1	-
	QUL-18-16M	2014 68 13	13.7	40,1	0.11	4,60	< 0.1	49,5	× 10	<001	15,800	< 0.5	< 0.1		< 30	< 0.06	0.01	1,820	0.802	< 0.05	0,330	< 0.5	448	< 0.5	1,570	< 0.01	836	< 0.01	< 0.1	< 10	9,148	41	1
					0.13			4 0,5			17,800	4 0.5			< 30	< 0.05	0.96	2,030	1.05	< 0.05	0.207	< 0.5	487	< 0.5	1,728	< 0.01	833	< 0.01	1 < 0.1	< 10	0,163		
	QUL-18-3068	2014 00 13	28.5	< 0.1			40.1		× 10	× 0.01			« Q, t							1 40.00												41	<
	QUL-18	2014 08 14	16,5	1.0 >	0.11	5.73	< 0.1	10.5	9 10	+0.01	16,300	< 0.5	+0.1	0.54	< 30	< 0.05	0.63	1,890	1.04	-	0.307	< 0.5	473	105	1,500	4 0.01	823 820	₹ 0.01	< 0.1	< 10	0.133	41	
	QUL-18	2014 98 15	16.7	40.1	0.15		<b>₹0.1</b>	2.0>	× 10	< 0.01	15,800	< 0.5	40.1	0.56	< 30	AAAA TEL CARE	<0.5			Chillian Contraction		405	William & Andrew	40.5		<0.01		< 0.01	1 dat - 100 to 1	< 10		41	
	QULINUM	2014 28 16	16.4	1,0 >	0.13	-	< 0.1	< 0,4	4 10	< 0.01	16,000	< 0.5	= 0,1	The Personal Printers	< 30	< 0.09	- 0.5	1,900	1,66	-	0,34	< 0.6	496		1,670	< 0.01	839	< 0,01	< 0,1	< 10	0.137	41	- 4
	QUL-18-10M	2014 08 16	88.7	< 0.1	0.12	-	€0.1	< 0.4	< 10	< 0.01	16,500	< 0.5	-0.1	2.1	48	< 0.05	4 0.5	1,000	2.5		0,261	< 0.5	464	<0.0	1,800	< 0.01	863	< 0.01	46,1	< 10	0.147	41	
	OUL-16-30M	2014-08-18	171	0,11	0.18		< 0.1	< 0.0	< 10	< 0.01	10,300	< 0.5	0.11	引起 an	149	0.067	<0.5	2,130	9.06		0.250	< 0.6	5.24	< 0.5	2,040	< 0.01	877	< 0.01	< 0.1	- 11	0,101	44	-
	OUL-1#	2014 08 19	15.3	45	6.13		< 0.9	< 0.5	4 10	< 0.01	10,400	< 0,5	< 0.1		< 30	< 0.05	1,05	1,820	1.79	*	0,323	< 0.5	468	20.9	1,570	< 0.01	349	10.01	< 0.1	< 10	0.14	41	11111111
	QUL-18	2014 00 26	30.4	4 0.1	0.12		40,8	4Q2	< 10	< 0.01	16,600	< 0.5	₩0,1		< 200	< 0.05	0.5	1,000	1.00	< 0.01	0.326	40.5	458	405	1,540	< 0.01	812	< 0.01	<0.1	< 10	0.138	×1	
	CAUL-18X	2014 06 26	28.3	< 0.1	0.43		4 0.1	<0.5	4 10	4 0,01	18,900	< 0.5	40,1		4 30	< 0,05	< 0.5	1,840	1,74	= 0.01	0,767	< 0.5	454	< 0.5	1,586	= 0.01	827	= 0.01	× 0,1	< 10	E,9489	4.1	4
	LIBERTON AND AND ADDRESS OF THE PERSON AND A	<b>计划的图片</b>		1 Sept 10 10 10 10 10 10 10 10 10 10 10 10 10	13 12 13 12	通知测验	PERMIT	\$4:11 (MIP. I	14 (48) (48)	THE PROPERTY OF	Glada Bran	<b>建设设置的</b>	SECTION AND ADDRESS.	10032:: 1513	17 213 10 113	Killia Leretti	東西記書を表する	11.14.13.13.13.11.13.1	E PARTICULATE DE	if diff. Rit	<b>计算机 计数据</b>	遊問以舊刊行	<b>出地</b> 超越 蘇 <b>拉</b> 耳	ETTER STATE OF THE	1333 133	<b>E14353B3833</b> 6	98132012	maarifice.	10376 (50)	<b>尼加森美術館</b>	1121727 DELLAS	200300000000000000000000000000000000000	E 1568

ADMINISTRAÇÃO ALO REAL LINGUISTO,

THE PROPERTY OF CONCESSION FROM THE STATE AGAIN LINE (AND PARTIES.

Concernation guester then DCH4C(D Aquatic Life (Milary) (Anti) guidalers. PGLO Connectation presist that is equal to Constitut Online Value Quality (DM) gastetra.

Laboratory describes here and of eatige.
 British Columbia Approved Heter Couling Qualitatives 2008 Edwary, updated 2014.
 A Compression in Wagning Wallow Quality Qualitatives for Berlein Cepturistic, updated August 2006.
 Guidaline varies with pm, Ander either Tampurature or Marcheles.

\* I bestift Carvelle Designey Wester Cuclellines, 2012.

1 Gusterlany chronic or directic value, not 30 day mean.

2 Gusterlan for historie opplied.

2 The scale before on a professional gusteries is a reseasure of sele productively scale becomes profession professional gusteries in a regional selection professional professional gusteries in a regional selection professional professional gusteries in a regional selection professional gusteries and an individual sample besit, not everage of 30 day residue.

3 Collections design on an individual sample besit, not everage of 30 day residue.

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THE Constitute the applicability standards.

\* HPTER and most conveniely excludated subsets once or more observableshed and been fine stress MEL...

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

				-	_	PIY	yale of Parm	nieless		_		MICHOUNCE	gical Yests	-					TOTAL	inorganics		-				
Sample	Sumple 1D	Sample Date (yyyy mm dd)	Hardness (mg/L)	pH (field) (pH)	pH (pH)	Yemperature (flets) (C)		Conductivity (u\$/cm)	TOS (mg/L)	TSS (mg/L)	DOC (mg/L)	Collions (MPN/0,1L)	E. Coli (ABPAVO.4L)	Total Kjeldahi Nitrogen (N) (mg/L)	Yotal Nitrogen (N) (mp/L)	Ammonia Mitrogen (µg/L)	Nitrata Nitragan (up/L)	Nitrogen (µg/L)	Nitrale+Nitrile Nitrogan (µg/L)	Chloride (mg/L)	Fluorida (ug/L)	Sulphate (mg/L)	Yatal Alkaliniiy (as CaCC3) (mg/L)	Stomide (mg/L)	Cirilio- phosphala (mg/L)	Total Phesphon (mg/L)
Quidelines							1-		_	_					1					·	1 man 7			-		
BCNYOR Aquello L	flo (AVV)**	-000	r/a	e.5 a.o	6.5-0.0	*/-1 Degree change from	Change of	rve .	nls	Change of 25 Change	*20% of median	rue	n/s	n4s	70/8	5,680-18,460*	32,800	60 (CI=2)	32,800	850	1 224.3	n/a	eyn	rva	ruie	0.005-0.01
SCWOG AQUER L	Ste (35day) (AVV) <sup>0.54</sup>		n/a	n/a	n/e	ambient	2	n/a	5h	of 5	background	n/s	n/a	rde	nie	1,090-1,770	3,000	20 (CI<2)	3,0007	150	n/a	126-309	n/a	rt/a	His	n/a
				1200			Change of												sa mend	-						
BCWGG Driving			n/a		5.5-8.5	n/ar	-04	N'a	N/a	TVIR	LV8	N/B	0/100mil	1/0	n/a	ria	10,000	1,000	10,000	250	1,030	500	n/a	n/m	/Va	0.01
	Water Quality (DW)*		réa		8.5-8.5		nia	Na.	500	19/8	69	15/8	0/100ml	niv	rVa	n/e	10,000	1,000	n/a	250	1,600	500	nia	11/3	N/A	= n/a < 0.002°
GUL-18	QUL18	2014 06 25	49.7	7,94	7,95	17,3	0.66	96.2	68	<3	1,01		-	-	D.151	<5	55.3	×1		×05	34	5.8	44,5		< 0.001	0.0021
	QUL-18	2014-06-27	49.0	7,96	7.99	18.7	0,32	96.4	69	<3	2,11	-	-		0.172	46	46.2	<1		< 0.5	34	5.75	44,6	-	< 0.001	
	QUL-18	2014 06 28	49	8.15	7.94	19,5	0.31	97.1	72	< 3	2.28				0,133	<5	45.2	41	-	< 0.5	35	5.76	45.1		< 0.001	< 0.00%
	QUL-18	2014 08 30	49.0	1 .	7,05		0.66	37.8	55	43	2.11			-	0.2	5.4	55	<1		< 0.5	43	5.91	44.5	-	< 0.001	× 0'005,
QUL-19	QU1-19	2014 08 08	48.4	8.10	7.00	16.7	0.37	25.3	61	<3	2.08	230	1		0.122	< 5	48.6	£1		< 0.5	34	5,51	43.8	*	< 0.001	< 0.002*
	QUL-19	2014 Dê Dû	46.5	7.93	7.0	17.9	0,34	95.5	87	× 3	2.25				0.126	-15	57.1	41	* 11 (14	* 0.5	35	6.5	42.6		< 0.001	< 0.002*
	QUL-19	2014 08 10	48.2	7,67	7.93	20,7	0.42	05,7	85	43	2.3			-	0.128	< 5	43,4	<1		< 0.5	35	5.63	45.5	*	< 0.001	< 0,002*
	QUL-19	2014 08 11	46.3	7.90	7,83	19.5	0.34	67.4	80	< 3	2.2			-	0.12	< 5	45.6	41		< 0.5	34	5.63	43.8		< 0.001	图图 人口
	QUL-19X	2014 06 11	46,1	7,99	7.90	19,5	0,36	or	67	€3	2,25			-	0.128	*5	47.5	<1		< 0.6	33	5,62	44		< 0.001	0,0028
	開催のほうなうる。	i. ) samulen	HATCH THE	<b>建</b>	1911 O 22	<b>第四位组织</b>	医眼辐射	指数形式规则数据		BILLION.	46074880	医医外侧部切除性神经	<b>開発进班</b>	mazielni filia	<b>国联发射2票加</b> 证	直向非常进程	到底提供	<b>建筑的</b> 的	<b>Habbershill</b>	自然经验的	班阿斯特	面影遊	<b>領導組工(項)</b> 面		MENTAL PROPERTY.	DIVINE IN
	QUL-19	2014 38 12	47.0	8.01	7.97	21.4	0.35	98	59	<3	1.68				0.112	45	54.6	<1		< 0.5	35	5,72	44.4	- 4	< 0.001	< 0.002°
	DUL-19	2014 06 13	47,5		7.69	20.0	0.38	90.5	54	*3	2.03				0.117	× 5	49,1	4.1		< 0.5	32	5.6	44.5		4 0.00%	€ 0.002°
	DUL-19	2014 08 14	49.4	8.15	7,06	22.0	0.23	98.3	67	<3	1.87				0,116	< 5	46.9	*1		< 0.5	35	5,69	44,4		< 0.001	< 0.002*
	QUL-19	2014 08 15	46.8	8.12	7.08	21.1	0.21	97.1	62	€3	1.84		-		0.102	< 6	47.7	< 1		× 0.5	35	5,68	43.0		< 0.001	< 0.002°
	QUL-10	2014 08 16	48.6	8.10	7.95	20.5	0.28	93.4	63	<3	2.07				0.105	₹5	42.4	41	-	≈ 0.6	35	6.67	43.5		< 0.001	< 0.002°
	QUL-19	2014 00 17	49.1	7.79	7.97	20.6	0.36	68.8	82	43	2.48			-	0.117	45	31,5	e 1		₹05	35	5.79	45		< 0.001	< 0 D02*
	QUL-19X	2014 08 17	46.7	7.79	7.99	20.5	0.39	98.5	67	*3	2.47	-		-	0.12	45	31.2	<1	-	405	35	5.81	44.2		< 0.001	< 0.002*
	DERAMINI DANCE		Tarrest Action	HILDING	1005	ASSERT OF THE	TO USOHO	EDISOR GOOD	HELES	225026127	STREET OF THE	DESCRIPTION OF THE PARTY.	HIMSERI	EDITOR STREET	SELECTION OF THE PERSON	INCOME TO COLUMN	ENGLASIVE.	MINNESS.	CONTRACTOR	minuscus	DESIGNATION OF THE PARTY OF THE	ADSORAL PROPERTY.	AND DESCRIPTION	SHAD STATE	CHEROMORE	THE PROPERTY OF THE PARTY OF TH
	QUL-19	2014 98 19	48.5	7.08	7.85	19.8	0.3	98.4	67	< 3	2.01			-	0,112	-5	41.8	<1		×05	33	5.56	50.4	*	D 5051	0.0024
	QUL-19	2014 08 21	49.7	0.35	7.0	10.0	0.39	96	82	<3	2.04	discount or said			0.12	45	45.9	41	-	405	36	5.64	43.7	-	< 0.001	< 0.002*
	QUL-19-0M	2014 08 27	49.8	7.96	7.9	19.0	0.27	97.6	70	<3	1,91	1			0,172	45	45,9	<1		× 05	33	5.78	44.1	1	0.0011	4 0 902°
		2014 DB 27	53.9	7.45	7.55	5.1	3.23	106	55	43	1.84	Charles Service Company	-	-	0.184	<5	124	*1	-	405	36	6.44	48.2	-	0.0011	< 0.002°
	QUL-19-35M											:			0.194		145			< 0.5		6.31		-		0.0021
	QUE-16-55M	2014 08 27	53,0	7.35	7,93	4,0	0.49	100	67	< 3	1,9				_	4.5		41	-		30		48,G	-	0.0015	
QUL-20	QUI20	2014 08 08	52.5	7,76	7,65	8.1	0.43	104	66	<3	2.04	15	<1	*	0.184	4.5	123	<1	-	40.5	36	5.88	47.7		< 0.001	< 0.002⁴
	GUT-50X	2014 08 08	52.7	7,78	7.96	- DUIGHANDSH	0.45	104	69	× 3	1,69	15	< 1 000000000000000000000000000000000000	-	0.174	4 B	123	< 1 172101811111	1	4 Q.5	35	5.9	46.5	-	< 0.001	< 0.002°
	The second secon		differential		11(16.5)		-	0	2711381237	CONTRACTOR OF THE	A CONTRACTOR CONTRACTO	CONTRACTOR	The second second	<b>加州国际经济</b>	THE RESERVE THE PERSON NAMED IN		0	ALL DESCRIPTION OF	THE RESIDENCE	A DESCRIPTION OF	A REAL PROPERTY.	単にお知	PARTY BULL	Hamilton	THE COLUMN TWO IS NOT THE PARTY.	omental de la company
	QUL-20	2014 08 00	50.6	7.73	7.84	11.0	0.46	100	66	< 3	2.14				0.174	45	104	41		< 0.5	34	5.77	45	ALLOW LINES	< 0.001	× 0.002
	QUL-20	2014 08 11	47.5	7.89	7.93	16.2	0.41	98.9	71	43	2.26		*		0.183	₹5	73	61		< 0.5	34	5.67	44.7		< 0.001	0.0023
	OUL-20	2014 DB 12	47.5	8.00	7.9	17,3	0.26	97.2	68	< 3	1,83		-		0.144	< 5	65.7	×1		< 0.5	33	5.64	44,2		40,001	< 0.002*
	QUL-20	2014 08 13	47.8		7.98	19.2	0.53	98,2	59	< 3	2.16	-		-	0.13	4.5	51,5	<1		< 0.5	33	5.52	44.8		< 0.001	< 0.002°
	QUL-29	2014 08 14	49.3	30.8	7.96	19.3	0.26	99.1	FO	< 3	2.17		San San		0.130	45	49.4	41		< 0.5	36	5.83	44.4		< 0.001	4 0.002"
	OU1-20	2014 00 15	49.4	8.05	7.89	17.0	0.4	97.6	62	< 3	1.85				0.123	45	62	4.1		< 0.5	38	5.65	43.7	-	< 0.001	< 0.902
	QUL-20X	2014 98 15	49.0	8.06	7.96	17,6	0.28	97.6	65	43	1.79				0 123	< 5	59,5	41		< 0.5	26	5.65	43.8		< 0.001	4 0.002°
	HATTER GAGES	AD SHURRING	19001245900	開開電視	Silles!	医部分性 计连续	FIRE LANGE	<b>运用指收加多</b> 组	<b>料 [25]</b> 第	制作的	<b>计图别标题</b>			HEIDEN TOTAL	TOTAL PROPERTY AND ADDRESS.	<b>建物的工作的</b>	<b>非国际期</b> 组	author	自由指数性质量组织	HOMSHIN	I BERETE BESTELL	ROTH QUART	Diestre 2 missis	1 12 17 17 17 12 12 12 12 12 12 12 12 12 12 12 12 12	出世界為地	<b>有种的数据</b>
	QUL-20	2014 08 16	48	7,94	7.97	17.7	0.31	95.6	66	43	1.95				0.114	<5	57.5	×1		< 0.5	35	5.64	43.6		< 0.001	< 0.002°
	GAT-50	2014 06 17	47.5	7,79	7,97	17.9	0.37	07.2	63	*3	2.5			-	0.144	4.5	58.8	-1		+ 0.5	34	5.65	44		< 0.001	< 0.002°
	QUL20	2014 06 22	50.4	7.80	7.85	13.5	1	98.2	69	< 3	2.51	1 -			0.162	<5	81.4	41		< 0.5	34	57.8	44.4		< 0.001	< 0.002
	QUL-20-0M	2014 06 23	50.5	7.73	7.8	14.3	0.64	99.0	62	<3	2.18	1 .	-		0.184	6.8	84.2	41		< 0.5	39	5.75	44.5	1 .	< 0.001	< 0.002°
	QUL-20-10M	2014 08 23	50.6	7.48	7.88	13,7	1	102	65	43	2.13	1		111111111111111111111111111111111111111	0.162	<5	80.5	61		40,5	35	5.70	45.0	1	0.0025	0.0036
	QUL-20-20M	2014 08 23	83.8	7.43	7,86	12.1	1.06	101	57	< 2	2.1		- A Part of the Control of the Contr	president requirement	0.15	15	95.1	4.5	em drain	₹ 0.5	35	5.76	45.8		< 0.00t	0.0024
	QUL-20	2014 DE 26	50.5	7.57	7.08	16,7	0.63	97.1	71	43	2.2				0.17	<5	63.5	4.5	-	× 0.5	37	0.62	84,8		* Q.001	0.0021
	QU1-20	2014 08 27	50.3	7.90	7.96	17.5	0.76	09.2	70	43	2.21	1	-	-	0.126	*5	35.6	61		40.5	34	5.8	44.1		< 0.001	0.0022
	QUL-20	2014 08 27	50	7.90	7.93	17.5	0.87	101	59	<3	1.94	1	transmirran		0.145	4.9	84.2	<1		< 0.5	35	5.84	45.2	-	0.0011	0.0023
	G07-50	2014 08 29	50	8.12	7.97	17.9	0.71	96	55	43	2.16			· :	0.145	5,3	51.8	61	1	< 0.5	34	5.76	45.8	-	< 0.001	0.0024
	QUL-20	2014 08 29	40.4	4.12	7.96	177,0	0.45	97.1	62	*3	2.1	-	-	-	0.125	4.5	48.5	41	1	< 0.5	35	5.73	44.2		* 0.001	< 0.002*
			- Committee of the later of the	-		Description.						1-1-		1												
	QUL-20	2014 08 30	48.1	6.10	7.94	17.6	0.58	97,5	40	< 3	1.90				0.134	5.6	49.7	<1		< 0.5	34	5.69	44.5		< 0.001	< 0.002°

ASSESSMENT ALS BASE LINGUISES, LI

SHOULANALIN INC

Concentration greater than SCHAGG Arquite Life (AM) qualefue.

BOLD Concentration greater from SCHAGG Drivering Wetter (CNY) guideline. Concertration greater Inan SK/WCKI Aquatic Life (SDday) (AA) guidelite. Consensation greater than or expall to Caredian Drivery water Guality (DAY) guideline

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621717/2010/00 11

<sup>1/2</sup> Denotes no applicable afercand.

RPDs are no normally decurated whose electricity concentrations are less than the times MOL.

<sup>\*</sup> Laboursory signations hind out of menga.

\* (Issue) (6.5)-white Agreement Wisser Chastley (Listathree 2005 Fighton Openied 2014

\* (Gregorous) or (Wolfrey Wester Chastley Custodianes for Interface Calarises, uppointed awages 2000)

\* Outdoffine visited viding M.E. amafer exten Yemperialurs in Handhores.

<sup>\*</sup> Hausti Canada Christog Wister Cubidatines, 2012.

\* Suscenders districts or city innervative, not 30 day innerva.

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\* Cubidatine continue problement goodsine is a measure of feet present-rick or a sport or existed announce of commer delegation and is not expeditional complex parts.

\* Cubidatine Cased into in cell-feet and average and 30 day results.

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

											·				Dissaive	d Metals														
Sample Location	Sample 10	Sample Date (yyyy mm dd)	Dissolved Alunchium gunt.)	Dissolved Calcium (mg/L)	Cleactead Iron (pg/L)	Dissolved Magnestum (mg/L)	Dissolved Manganese jug(L)	Dissolved Putascrum (mg/L)	Dissolved Sadium (mgiL)				Berylltum (ug/L)								Mercury (pg/L)	Molybdenum (pg/L)	(ugiL)			Thattiom		Uranium iyoʻi.)	Vanadium	Zie
Guidelines				,																										
CWGG Aques: L	life (AVV) <sup>6-1</sup>		1004	17/6	350	n/e	n/e	1VB	19/6	TUNK	ive	N/a	IVe	Ne	IVB	n/a	rute	n/w	n/a	n/a	ME	n/e	rve	776	A/a	n/s	IVS	n/a	n/e	nvi
CWOG Aquetic L	life (30day) (AVV)***		50°	nia	n/e	7/6	nia	n/a	n/e	O/a	0.00	N/B	Ne	n/a	n/a	bla	na	n/e	n/a	nia	hy/m	000	n/a	n/a	n/a	n/a	n/a	n/a	nia	mi
CWGG Dinking			200	çi/a	n/s	nis	n/a	r/a	rva.	n/a	nia	PS'P	TVB	n/a	17/8	D/A	rvs	ri/e	0/4	n/e	P/B	r/e	1/2	1/8	nie	n/e	n/a	r/a	Ne	n/s
	Water Quality (DW)*		yua	e/a	rva	מימ	PI/O	n/a	6/4	D/B	n/o	refu	n/a	n/a	T/b	DVB	ruin	n/o	n/a	rvu -	מוח	1940	TUE	Nu	Th/di	n/a	ri/b	rva.	N/a	D)
QUL-18	QUL18	2014 08 25	10.8	16.8	< 30	1.8	0.806	0.455	0.831	× 0.1	0.1	5.5	<01	< 10	* D.D1	* 05	=01	0.06	< 0.05	+0.5	-	0.20	< 0.5	« D.9	× 0.01		× 10	0.133	*1	. 43
402-10	QUIL-18	2014 08 27	10.4	16.7	e 30	1,93	D.406	0.463	0.857	< 0.1	0.11	5.24	< 0.1	× 10	< 0.01	+0.5	< 0.1	< 0.5	< 0.05	0.68	**********	0.277	<05	× 0.6	× 0.01		< 10	0,135	<1	1 4
	GUL-18	2014 DB 28	9.1	16.5	< 3/0	1.92	2.508	0,444	0.804	< 0.1	0.11	5,45	<0.1	< 10	< 0,01	< 0.5	-01	0.53	× 0.05	+0.5	-	0.291	< 0.5	< 0.5		10,01	× 10	0.141	<1	-
	QUL-18	2014 00 30	9.3	16.7	< 3/0	1,96	0.577	0,491	0.835	× 0.1	0.12	5.43	× 0.1	410	< 0.01	< 0.5	<01	9.76	× 0.05	405	-	0.277	< 0.5	< 0.5	< 0.01		- 10	0,133	61	-
		2014 08 08	10.7	10.1	< 30	1,90	2.816	0.450	0.877	10.1	0.13	5,88	< 0.1	4 10	< 0.01	< 0.5	< 0.1	40.5	< 0.00	40.5	-	0.346	< 0.5	< 0.5	< 0.01		< 10	0.116	- 61	
QUL-10	CUL-19																	-	_							****			CONTRACTOR OF THE PARTY OF	1
	OUL-19	2014 08 09	10.1	10.3	4 30	1.68	0.443	0.472	0.638	< 0.1	€ 0.1	5,26	< 0,1	4 10	10.0 *	4 0.5	- 0.5	× 0.5	< 0.05	0,54		0.216	€ 0.5	× 0.5	< 0.01	< 0.01	4 10	0.136	*1	1
	QUL-19	2014 08 10	11.2	16	< 30	3	1,68	0.524	0.944	< 0.1	0.17	0.17	< 0.1	< 10	4 Q.Q1	* 0.5	×01	0.56	< 0.05	< 0.5		0.394	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.122	<1	*
	QUL-19	2014 08 11	12	15.4	< 30	1.87	0.745	0.490	0.871	4 6.1	0.12	5,69	<0.1	< 10	€ 0.01	< 0.5	<0.1	< 0.5	< 0.05	39.0	. 4	0.328	< 0.5	<0.5	< 0.01		4 10	0.123	<1	1 4
	DUL-18X	2014 08 11	10.7	15.4	< 30	1.89	0.938	0.510	0.900	<01	0.12		< 0.1	< 10	< 0.01	< 0.5	< 0.1		< 0.05		CHINALANA	0.353	< 0.5	< 0.5	< 0.01	< 0.01	« 10	0,123	< 1	<
		AND KINDLE	面视图画	RESIDENCE INC	Title List		23	HERMANNE	THE SEC	AND SHE	35560	2	CHICAGO CO.		STATE OF		tillitelli.	110000	120,716,036,03	Vill 1/81	S HERE	AND AND	計和制度	3900 H3740	1071125	MHARETE	in the same	THE OTHER	HEHIELD	i iioli
	QUL-19	2014 68 12	0,7	162	< 30	1.8	0,17	0.439	0.763	< 0.1	€01	4,85	×0.1	< 1D	4001	< 0.5	< 0.1	< 0.5	< 0.05	0.80		0.243	₹ 0.5	405	< 0.01	<0.01	< 10	0.145	*1	1.5
	OUL-19	2014 88 13	9.6	16	< 30	1.83	0,098	0.436	0.769	40.1	<0.1	4,79	401	< 10	< 0.01	< 0.5	<0.1	< 0.5	< 0.05	1.01		0.282	< 0.5	< 0.8	€ 0.01	< 0,01	< 10	0.142	41	
	QUL-10	2014 08 14	12	16.7	< 38	1,88	0.381	0.449	0.783	× 0.1	<0.1	4,98	< 0.1	< 10	4 0.01	< 0.5	4 0.1	< 0.5	< 0.05	0.73		0.250	< 0.5	40.5	< 0.01	< 0.01	< 10	0,135	- 1	1
	QUL-19	2014 08 15	10	10.5	* 30	1.86	0.367	0.463	0.768	× 0.1	< 0.1	5,31	< 0.1	4 1D	< 0.01	< 0.5	×01	×0.5	< 0.95	< 0.5		0.285	< 0.5	< 0.5	× 0.01	4 0.01	× 3D	0.138	41	
	QUL-19	2014 08 16	8.D	16.3	4 30	1.94	0.442	0.464	0.625	40.1	0.11	5.54	< 0.1	* 10	£ 0.01	4 0.5	< 0,1	< 0.5	< 0.05	0.76		0.318	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.133	41	1
	QUL-16	2014 08 17	6.0	16.2	< 30	2.12	0.987	0.507	0.945	« D1	0.15	6.33	<0.1	× 10	× 0.01	< 0.5	< 0.1	€0.5	< 0.05	0.55		0.43	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.121	41	
	QUIL-19K	2014 08 17	8.6	16	4 30	2.00	0,977	0,522	0,865	×01	0,17	6,45	×01	* 10	× 0.01	4 0.5	×0.1		× 0.98	< 5.5		0.441	× 0.5	< 0.5	₹ 0.01		× 10	0.125	4.1	4
	CAGO	RPO NUMBER	BURE WALL	E3514 H571	THE PERSON	HOUSE TO LOT	amous gene	I Supplied	THE REAL	STORES EN P	FIRE SIDE	2.5	BHHESIAG	100		DITTO LEGISLA	THE PERSON	Dismissi	TOTAL BASE	100131200	COLUMN TO SERVE	REPORT STREET	PRINCIPAL STREET	WEBSEL	157/4017	BALLING DEEL	31116311111	THE STATE	RUMAN MARKET	W. 124
	QUL-19	2014 09 19	10.2	16.3	4 30	1.97	0.322	0.477	0.843	< D.1	0.11	5.4	<0.1	- 10	× 0.91	< 0.5	< 0.1	0.52	« D.05	0.71	Na Carlot of the	0.308	< 0.5	< 0.5	< Q.Q1	< 0.01	< 5D	0.133	€1	<
	QUL-16	2014 08 21	0.3	10.7	< 30	1.92	0.344	0,454	0,814	*0.1	0.11	5.2	40.1	~ 10	« D.01	× 0.5	+ 0.1	-0.5	< 0.05	0.83	*	0.292	405	< 0.5	× 0,01	* Q.01	× 1D	0.130	41	4
				***************************************																****										
	QUL-19-011	2014 08 27	9,7	16.8	× 30	1.89	0.218	0,437	0.811	< 0.1	< 0.t	4.92	₹ 0.1	4 10	< 0.01	4 0,5	4 0.1	< 0.5	< 0.05	0.75		0.244	+05	< 0.5	€ 0.01	< 0.01	< 10	0.139	*1	
	QUL-19-35M	2014 09 27	0.1	16.2	< 30	2.05	3.23	0,479	6,088	< 0.1	0.1	3,53	<0.1	< 10	< 0.01	× 0.5	< 0.1	12.0	< 0,05	0,84		0.369	< 0.5	< 0.8	< 0.01	< 0.01	× 10	0.167	*1	<
	DUL-19-55M	2014 08 27	4.8	10.7	< 30	2.08	0.342	0,450	0.924	× 0,1	< 0,1	5.04	< 0.1	< 10	< 0.01	< 0.5	× 0.1	< 0.5	< 0.08	0.01	*	0.254	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.156	41	4
Onf-10	QUE-20	2014 08 08	7,4	17.7	4.30	2.04	0.365	0.453	0.692	< 0.1	0.11	5.25	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.73	-	0.276	< 0.5	< 0.5	< 9.01		< 10	Q.136	51	1
	QUL-20X	2014 09 08	7,5	17.7	< 30	2.04	0.339	0.468	0.602	× 0.1	< Q.5	5.14	< 0.5	< 10	< 0.01	< 0.5	<01	< 0.5	< 0.05	0.88	*	0.203	< 0.5	< 0.5	< 0.01		× 10	0.137	41	×
	MAN GANCE	RPD WIROHEIL	ATHE ENGINE	REMARKS	THE PARTY AND ADDRESS OF	THE OWNER	DOME THE		0	<b>BERTAIN</b>	HISTERN.	GREE HERE	湖北部路	路縣耕	BUSHIE	Section 1	HENDSHIPS	Blan man		FORTSHIP	<b>建物针发酵料</b>	promine summ	S STREET	SHIP SHIP	報なが		DEFERRE	MARK E MAR	THE PERSON	11113
	001-20	2014 DB 09	8.1	17,1	< 30	1.95	0.355	0.459	0.647	< 0.1	<01	5.12	< 0.1	< 10	< 0.01	< 0.5	<0.1	< 0.5	< 0.05			0.267	<05	< 0.5	< 0.01	< 0.01	× 10	0.138	<1	
	GINT-50	2014 08 11	12.1	16	< 30	1.83	0.301	0.480	0.847	401	D.11	5.22	< 0.1	< 10	4 0,01	< 0.5	+ 0.1	0.51	# Q.05	1.07		0.26	0.53	< 0.5	< 0.01	* 0.01	× 10	0.132	61	1 4
	GUL-20	2014 08 12	9,9	16.1	< 30	1.82	0.127	0.463	0.523	< 0.1	< 0.1	5.51	< 0.1	< 10	< 0.01	< 0.5	<01	₹ 0.5	< 0.05	0.75		0.299	<05	< 0.5	< 0.01	< 0.01	< 10	0,107	41	1 <
	QUL-20	2014 06 13	0.6	16.1	< 30	1.68	0.163	0.478	0.847	< 0.1	1 = 0.1	5.3	< 0.1	< 10	< 0.01	< 0.5	< D.1	< 0.5	< 0.05	1.04		9.312	< 0.5	< 0.5	-0.01	= 0.Ds	< 10	0.135	×1	1 4
	QUI-20	2014 08 14	10.6	16.0	× 303	1,69	0.362	0.471	0.825	# 0.1	0.11	5.26	< 0.1	4 10	4 0.01	4 D.5	< 0.1	× Q.5	< 0.05	0,7	1.9	0.290	10.5	< 0.5	< 0.01	- 0.04	4 10	0.13	×1.	1
	GUL-20	2014 08 15	0.9	16.7	* 30	1.9	0.354	0.469	0.926	× 0.1	0.12	5.73	< 0.1	× 10	< 0.01	* D.5	× 0.1	< 0.5	4 0,05	< 0.5		0.3	* D.5	*05	× 0.01	< 0.01	× 10	0.139	× 1	4
	O'DE-SOX	2014 08 15	1 10.1	16.7	< 30	1.86	0.35	0.472	ć.82 <del>0</del>	4 0.1	0.11	5.05	4 0.1	€ 10	< 0.01	< 0.5	× 0.1	< 0.5	< 0.05	< 0.5		0.290	< 0.5	€0.5	4 0.01	4001	< 10	0.138	w 1	4
	MINITED AND A	REC W. III	LEAD IS A DIST	0.00	PRINCIPLE OF THE PARTY.	DESCRIPTION OF THE PARTY.	MARKET MEET	HOUR REPORT	0	100	STEEL AS BE	DESCRIPTION OF THE PERSON OF T	that other	Minusia.	<b>斜层的</b> 菌科	STATE OF THE PARTY	STATE OF	20012400	<b>HEATON</b>	HEREIN	HEATTERN .	HILL GOISE	(1) (1) (1)	<b>HERESTER</b>	of Lines Addition	nasana		30 4110	\$50.55 (C.2010)	1 111
	QUL-20	2014 06 16	9.9	16.4	< 30	1.93	0.333	0.45	0.701	< 0.1	0.11	5.18	<0.1	1 < 10	< 0.01	< 0.5	× 0.1	< 0.5	< 0.05	< 0.5	-	0.241	< 0.5	< 0.5	< 0.01	< 0.01	< 1D	0.132	<1	4
	QUL-20	2014 08 17	9,9	16	₹ 30	1.60	0,423	0.471	0.832	< 0.1	0.11	528	<0.1	4 10	< 0.01	< 0.5	< 0.1		< 0.05		MALESCOTTON CO.	D.25	× 0.5	40.5	< 0.01	< 0.01	4 10	0.137	<1	4
	QUIZE	2014 06 22	10.2	17	< 30	1.91	0,767	0.451	0.037	<01	0.1	5.51	<0.1	× 10	< 0.01	< 0.5	< 0.1	0.65	< 0.05			0.287	× 0.5	< 0.5	< 0.01		< 1D	0.138	<1	*
	QUL-20-0M	2014 06 23	10.7	17.1	4 30	1.02	0.646	0.512	0.872	< 0.1	< D.1	5.45	< 0.1	< 10	< 0.01	< 0.5	4 0.1	1.34	0.134	D.93		0.262	* D.5	40.5	× 0.01	< 0.01	4 10	0.139		-
	QUL-20-10M	2014 06 23	8.5	17.1	4 30	1.91	0.761	0.468	0.820	40.1	< 0.1	5.47	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.09	< 0.05	1.03		0.274	< 0.5	< 0.5	< 0.01	40.01	< 10	0.139	41	-
		2014 06 23	11.8	18.2	< 30	2.08	0.749	0.476	0.831	< 0.1	< 0.1	5.46	×0.1	< 10	< 0.01	< 0.5	< 0.1	1.01	< 0.05		-	0.273	< D.5	< 0.5	< 0.01	< 0.01	< 10	0,14	41	1
	QUL-20-20M		8,9	17		1.04	0,594	0,451	0,805		0.11		< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.99		0.62	Contract Contract	0.277	< 0.5				< 10	0.132	*1	
	QUL-20	2014 08 26			4.30					< 0.1		5,52							4 0.05		- Indiana			< 0.5	< 0.01	< 0.01				
	QUL-20	2014 06 27	10.1	17	< 30	1.83	0.57	0.465	0.874	< 0.1	0.11	5.5	< 0.1	× 10	< 0.01	< 0.5	< 0,1	0.03	< 0.05	0.75	*	0.270	< 0.5	< 0.5	< 0.01		< 10	0.139	61	4
	QUL-20	2014 08 27	10.1	16.9	< 30	1.03	0.617	0.491	0.897	< 0.1	0.12	5.49	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.94	< 0.05		-	0.288	< 0.5	< 0.5	< 0.01		< 10	0.132	<1	1
	OCT-50	2014 08 28	10	16,8	< 30	1,94	0,591	0,47	0.636	< 0,1	9,11	5.57	<0.1	< 10	< 0.01	< 0,5	10,1	0.85	< 0.05			0.299	< 0,5	< 0.5	< 0.01		< 10	0,141	4.1	
	QUL-20	2014 08 29	10.3	10.6	< 30	1.91	0.490	0.461	0.825	40.1	0.12	5.36	₹ 0.1	s 10	< 0.01	+ 0.5	< 0.1	0.78	< 0.05		- T-	0.279	4 0.5	4 0.5	« G.Q1		4 10	0.137	4.1	•
	QVI-70	2014 08 30	10	16.5	₹30	1.91	0.511	0.40	0.844	CO.5	< 0.1	5.33	× 0.5	4 10	< 0.01	< 0.5	< 0.1	0.68		< 0.5		0.263	< 0.5	< 0.5	2 C 64	< 0.01	< 10	0.138	6 5	

Reservation L.D. Prince | Language Concertation greater than DOVOG Aquello Life (AVV) guidatine. BOLD Corpordigate graphs than BOWGS Charles Water (LW) guidelina.

Concertation greater than DCNOG Aspatic Life (Orday; 14Yo greater)

Concertation greater from an exped to Consistan Brinking Water Coatty (WV) gustains

631717/3014-00-11 phttoses\_391etest.mar GAUG ET 3014-08-11

SHOW AVAILINING

THE Centries to applicable standard.

HIPDs are not nothingly opticidated where one or more peoperalizations are less than the times MCs.

<sup>Laboratory detector first cut of range.

Notice Columbia Associated Visitor Custory Guiltelines 1006 Edition, undefed 7014.

A Compendator of Working Water Quality Guildelines for finish Columbia, cutotted August 2078.</sup> 

Targothory shreefer on develor paying Counties Control of the Counties and Cou

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

		100000				1		1	1				1	T					1	1				1			1		1			1	T
Sample Location	Saughade ID	Sample Date (yyyy Rom dd)	Aluminum (un/L)				Bary (Kum			Cadmium		Chromium				Lead (µg/L)	Lithkom (MS/L)	Magnesium (VQ/L)	Mangarree	Mercury ērg/Li	Molybdanan (ag/L1	Nichel (ug/L)	Palassigm togst)				Fodium			Yataniyan (pap4.)		Vanadium (Hg/L)	
Suidelines	1 10	DIFFE RULE	241.07	diffini	1 400.0	30.4	Arther	The Real	1 deliber	2.7	April 10	19-81-61	I Galland	(and the		IPE ST	1000000				100 00				1,000	900 41	19.00		1,000	100 100		3536.77	-
					1							-							1,000.6-		1		273,000-	1		0.00		44.0				-	
WOO Aquatic L	The (AWA) ***		rva	20	. 5	5,000	rim.	rt/a	1,200	0.016-0.026	rea.	1 (Gr(+6))	110	6.0-0.2	1,000	27,3-57.7	870	n/a	1,370	Metry	2.000	25-65*	432 900	2	CVA	0.1	rs/a	0,3	11/0	5 000	300	Ø	
						1	100				1		. 1	1						Quarterity					1								
NOG Apuntic L	de (30day) (AW) heh		ry's	n/a	(1/a	1,000	5.3	n/a	n/a	mia	n/a	Na	4	2.30	No	4458	14	n/s	791.1-940*	progress	1 000	Na	n/a	Na	Na	U,05*	n/e	nia	etra	rue .	nia	10/8	
	The second second second	***************************************			1	11000														-						-					1		7
YQG Drinking Y			rio	14	25	IVA	4	N/B	5,000	n/b.	IVs.	n/a	N'S.	500	n/e	30	n/a	n/s	r/a	1	250	10/8	n/e	10	N/e	79/8	rva	2	n/a	rva	P/Q	rMe	4
	Visite Quality (DW)*		100		10	1,000	17/0	n/a	5,000	5	D/h	50	LIN	1,000	300	10	rs/a	rva	50	1	7/8	r/a	N/a	10	N/a	17/2	290,500		n/a	D/II	20	Lya	4
QUL-16	QULTA	2014 08 25	49	< 0.1	0.12	80.3	< 0.1	× 6.5		< 0.01	10,700	< 0.5	< 0.1	1,56	346	< 0.05	< 0.5	1,010	2,25		0,311	40.6	481	× 0.5	1,600	< 0.01	858	× 0.01	<0.1	< 10	0.146	41	
	QUL-18	2014 08 27	16.2	< 0.1	0.12		< 0,1	< C.5		< 0.01	16,300	< 0.5	<0.1		× 30	< 0,05 ▼ 0,05	< 0.5	1.010	1.21	< 0.01	0.295	< 0.6		< 0.5	1,510	< 0.01 < 0.01	858	< 0.01	< 0.1		0,143	-41	-
	QUL-18	2014 06 28	20,7	< 0.1	0.14		< 0.1	< 0.5		< 0.01	16,500							1,840	1.29			< 0.5			_		848			< 10	D.144	<1	4
QUL-19	QUL-19	2014 98 30 2014 98 98	10.0	< 0.1	0 15	5.53	< 0.1	4 6.5	* 10 * 10	< 0.01	16,500	< 0.5	× 0.1	0,6	330	< 0.05	< 0.5	1.850	2.49	× 0.05	0.373	× 0.5	479	< 0.5 < 0.5	1,510	< 0.01 < 0.01	852 867	< 0.01	+ 0.1	< 10	0.141	41	-
COCHI	QUL-19	2014 08 09	20	40,1	D.11	5.48	< 0.1	×C.5		< 0.01	16,200	< 0.5	401		< 30	< 0.05	< 0.5	1 910	1.27	₹ 0.05	0.377	<05	481	<05	1,590	5 D.01	834	€ 0.01	* Q.1	4 10	0.138	- 11	-
	QUL-19	2014 06 10	18.7	< 0.1	0.16	6.21	₹ 0.1	<0.5	× 10	< 0.01	15,800	€ 0.5	*01	0.63	35	< 0.05	<0.5	1,980	2.84	₹ 0.09	0.426	*05	519	+05	1.770	# D.01	948	* 0.01	- 0.1	< 10	0,125	41	Э
	QUL-19	2014 06 11	17,0	* Q.1	0.16		< 0.1	40.6		< 0.01	15,600		4 D.3		< 30	× 0.05	0.82	1.940	1,70	< 0.05	0.38	-05	504	< 0.5	1.630		885		× 0,1	e 10	0,133	41	-
	QUL-10X	2014 06 11	19	< 0.1	0.37		40.1	< 0.5		< 0.01	15,600	< 0.5	< 0.5		< 30	< 0.05	0.63	1,960	22	< 0.05	0.419	< 0.5	543	< 0.5	1.070	< 0.01	634	< 0.01	< €.1	< 10	0,131	41	_
		LON THE PROPERTY.	NAMES TANKS	<b>新梅香种树</b>	<b>新斯斯</b>	排化剂	HIMME	超過酸			WHITE THE		E WEST AND		HUNTER	<b>WEST BUIL</b>	E125.40		HOMES			urs age	所有性 有新	The second second	出版 基础				朝代朝	的外外的	雅斯 海州	HALLER	ű
	QUL-19	2014 08 12	15.2	< 0.1	< 0.1		< 0.1	<0.5		< 0.01	16,800	< 0.5	40.1		< 30	< 0.05	0.82	1,870	0.61	< 0.05	0.253	< 0.5	437	< 0.5	1,450	< 0.01	787	€0.01	<0.1	< 10	0.147	4.1	
	QUL-19	2014 05 13	13,5	× 0,1	0.11	5,14	< 0,1	405	< 10	< 0,01	16,800	< 0.5	< 0.1	< 0.5	< 30	< 0.05	0,9	1,930	0.823	< 0.05	0.287	< 0,5	455	< 0.5	1,530	< 0.01	824	< 0.01	< 0.1	< 10	0.153	41	
	QUL-10	2014 08 14	13.6	4.0.1	€01	4.96	* 0.1	< 0.5	4 10	< 0.01	16,400	× 0.5	< 0.1		< 30	< 0.05	89.0	1,850	0.61	1	0.282	< 0.5	447	< 0.5	1,510	< 0.01	807	< 0.01	<01	4.10	0.142	*1	
	QUL-19	2014 08 15	13.5	<01	0.12	5.28	€01	< 0.5	× 10	< 0.01	16,500	< 0.5	< 0.1	< 0.5	< 30	< 0.08	< 0.5	1,870	1,03	-	0.296	× 0.5	451	× 0.5	1,540	< 0.01	756	< 0.01	< 0.1	«10	0.144	<1	_
	QUI-19	2014 08 19	19.3	<01	0.13	5.58	<0.1	€ 0.5	< 10	< 0.01	16,300	< 0.5	40.1	0.59	< 30	< 0.05	< 0.5	1,930	1.68		0.345	< 0.5	478	< 0.5	1.560	4 0.03	840	< 0.01	<01	< 10	0.14	*1	
	DUL-19	2014 08 17	17.5	<0.1	0,16	6,58	< 0,1	< 0.5	4 10	< 0.01	18,000	< 0.8	4 0.1	41	34	< 0.05	0,67	2,120	3,67		0.458	< 0.5	520	40.5	1,790	4 0,01	977	€ 0,01	<0.1	× 10	0.131	<1	
	QUL-19X	2014 08 17	18.5	< 0.1	0.2	6,50	< 0,1	< 0.5	* 10	< 0,01	15,800	< 0,5	< 0.1	1 × 1	36	< 0.05	< 0.5	2,060	4.02	Carrier Santa	0.47	< 0.5	532	< 0.5	1,780		978	4 0,01	4 Q.1	* 10	0.138	< 1	9
	DUL-10	2014 08 19	14	×0.1	0.13		× 0.1	< 0.5	the distribution of	< 0.01	15,200	< 0.5	501	0.57	× 30	< 0.08	1	1,930	1.44	WANTED AND	0.333	× 0.5	486	< 0.5	1,570	ALTONOMICS CONTRACTOR	875	4 D.D1	+01	< 10	0.139	< 1	ü
	QUL-19	2014 08 21	22.1	401	0,12		« D.1	« CL5	× 10	< 0.01	10.300	4 0.5	×01		< 30	< 0.05	0.67	1.860	1,34	-	0.288	405	457	< 0.6	1,500		524	€ 0.01	<0.1	€ 10	0.140	41	
	QUL-19-0M	2014 08 27	13.5	×01	× 0.1	4,65	*01	< 0.5	< 10	< 0.01	10,000	* 0.5	< 0.1	0,51	< 30	×0.05	0,648	1,890	0.754	* Q.01	D.261	× 0,5	435	4 0.5	1,400	< 0.01	620	<0.01	<01	< 10	0.14	41	-
	QUL-19-35M	2014 08 27	100	<01	0.16	8.07	× 0.1	< 0.5	× 10	< 0.01	17,600	€ 0.5	40.1	4.83	102	0.06	0.83	2,060	7.5	4 0.01	0.411	< 0.5	521	< 0.5	1.970	< 0.01	1.010	€ 0.01	401	× 10	0.17E	4.1	
	QUL-19-55M	2014 08 27	30.6	<01	0.1	5.22	40.1	<0.5	4 10	4001	18,100	405	<0.1	0.78	+ 30	4 0.05	3.65	2,060	1.47	₹ 0.01	0.267	×Q.5	471	× 0.5	1,660	× 0.01	936	4 0.01	<01	× 10	0.165	<1	-
2UL-20	QUL-20	2014 DE DE	22.4	+ O.1	0.13	5.42	* Q.1	4 11,5	× 10	< 2.01	17,400	< 0.5	< 0.1	0,50	* 30	< 0.05	0.58	2.54D	1,48	< 0.05	0.298	<0.5	453	< 0.5	1.720	< 0.01	901	< 0.01	<0.1	< 10	G 145	×1.	-
	QUL-20X	2014 09 08	28.2	× 0.1	0.12		4 0,1	< 0.5	4 10	₹0,01	17,500	< 0.5	< 0.1		< 30	< 0.05	0.59	2.070	1,459	< 0.05	0.263	< 0.5	487	< 0.5	1,740	< 0.01	628	< 0.01	× 0.1	< 10	0.15	*1	1
	CHEET GAVOC	(PD#	TREASE CRAIM	LATTER! SPIES	A PLANTAGE			i fietili alee	il aparis		SECTION AND	<b>建制工工程</b>	SHAPA	THE REAL	<b>開放協議</b>	STREET, STREET, STREET,	ma.iii	<b>经验证</b> 新加		op salety a prior		自開放用線	<b>新典型於時</b>	學的學術的	翻動	的域性的	t Held John	<b>FRINKLISH</b>	HARLICK'S	和何和和	山道。暗	THE REAL PROPERTY.	ā
	QUL-20	2014 08 09	20	< 0.1	0,11	5,21	* 0,1	< 0.5	< 10	< 0.01	17,200	< 0.5	401	0.69	~ 30	< 0.05	0.56	1,580	1,24	< 0.05	0.261	< 0.5	475	< 0.5	1,670	< 0.01	567	< 0.01	< 0.1	< 10	0.148	*1	
	QUL-20	2014 06 11	73.4	< 0.1	0.14	5.25	< 0.1	₹0.5	< 10	< 0.01	15,900	< 0.5	<01	0.71	< 30	< 0.05	0.9	1,860	1,16	< 0.05	6.3	< 0.5	467	< 0.5	1,530	< 0.01	843	< 0.01	< 0.1	- 10	0,143	41	
	CHIL-2D	2014 06 12	19.9	< 0.1	0.12		< 0.1	< 0.6	< 10	< 0.01	16,300	< 0.5	× 0.1		4 30	< 0.05	0.82	1,850	1,18	< 0.05	0.293	< 0.5	471	< 0,5	1,560	< 0.01	836	=0.01	< 0.1	< 10	0.14	<1	_
	QUL-20	2014 05 13	16.8	*Q1	0,16		+ 0,1	≤ 0.6	< 10	< 0.01	16,600	< 0.5	< 0.1		4 30	< 0.05	0.65	1,940	1,28	< 0.05	0.31	< 0.5	460	< 0,5	1,600	< 0.01	871	< 0.01	< 0.1	4 90	0,141	45	_
	QUL-20	2014 08 14	17,1	< 0.1	0.12		< 0.1	< 0.5	< 10	< 9.01	16,300	< 0.5	<0.1		< 30	< 0.05	0.69	1,880	1.35		0.308	< 0.5	472	4 0,5	1,610	< 0.01	633	4 0.01	< 0,1	< 40	2.136	<1	,
	QUL-30	2014 06 13	20,3	≪ 0.1	0.13		< 0.1	< 0.5	< 10	< 0.01	16,500	< 0,5	× 0.1		< 30	< 0.05	< 0.5	1,690	1,31		0,323	408	472	< 0.5	1,500	× 0.01	633	< 0.01	< 0.1	< 10	0.14	×1	
	QUL-20X	2014 08 15	17.4 METER BETTER	< 0.1		5.93	* 0.1	× 0.5	× 10	× 0.01	18,500	< 0.5	< D.1	981	× 30	< 0.05	× 0.5	1,890	1,38	nusius	0.292	×0.5	470	< 0.5	1.610		848	< 0.01	= 0.1	« 10	0.134	20000000	
	OUL-20	2014 06 16	17.6	<0.1	1.08	and a proper proper	× 0.1	<0.5	× 10	0.034	18,000	< 0.5	×0.1		× 30	ADDRESS STREET,	0.56	1,870	1.28	2 11012111	0.303	₹0.5	465	¥ 0.5	1,540	< 0.01	821	× 0.01	< 0.1	< 10	0.145	×1.	ú
	QUL-20	2014 08 17	19	< 0.1	0.13		+ 0.1	< 0.5	< 10	< 0.01	16.100	< 0.5	<01		< 30		0.63	1,860	1.46	-	0.303	405	471	< 0.5	1,560	< 0.01	850	< 0.01	< 0.1	4 10	0.147	41	į
	QULZG	2014 08 22	50.6	< 0.1		5.82	< D.1	< 0.5	4 10		16,700	× 0.5		2.03	41		0.76	1.030	2.45		9.207	< 0.5		₹0.5			855		40.1		0,148	<1	
	OUT-50-0M	2014 08 23	59.6	< 0.1	0,14		< 0.1	< 0.5	< 10	< 0.01	16 900	< 0.5	<0.1	112.14	47	< 0.05	0.00	1.930	2.79	< 0.05	0.275	₹0.5	511	< 0.5	1.650	< 0.01	851	< 0.01	< 0,1	< 10	0.143	*1	
	QUL-20-10M	2014 08 23	50.0	<0.1	0.13	5	× 0.1	× 0.5	4 1D	₹ 0.01	17.000	× 0.5	40.1	2,16	47	< 0.05	0.93	1,930	2.56	< 0.05	0.303	< 0.5	477	40.5	1.66D	4 0.01	840	× 0.01	< 0.1	< 10	2.140	41	
	DUT-50-50M	2014 08 23	57.0	< 0.1	0.13	6.04	< 0.1	< 0.5	< 10	< 0.01	18,100	< 0.5	< 0.7	2.3	51	< 0.05	0.96	2,070	2.87	< 0.05	0.294	< 0.5	408	< 0.5	1.770	< 0.01	875	< 0.01	< 0.1	₹ 10	0.142	*1	
	OUC-30	2014 08 26	48.5	< 0.1	0,13	6.15	< 0.1	< 0.5	× 10	< 0.01	18,700	< 0.5	< 0.1	2.96	40	< 0.00	0.60	1.930	2.3	< 0.01	0.308	₹0.5	470	< 0.5	1,810	< 0.01	845	< 0.01	< 0.1	< 10	0.138	*1	
	QUL-20	2014 08 27	39.4	< 0,1	0.12	5.95	< 0.1	< 0.5	< 10	< 0.01	18,500	< 0.5	< 0.1	1.89	< 30	< 0.00	0.60	1,800	1,95	< 0.01	0.319	< 0.5	479	< 0.5	1,550	40.01	892	< 0.01	<0.1	< 10	0,152	<1	
	QUL-20	2014 08 27	38,1	< 0.1	0.15	5.0	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	1.6	31	< 0.00	0.67	1,870	2.04	< 0.01	0.314	< 0.5	464	< 0.5	1,630	-001	929	< 0.01	<0.1	< 10	0,145	41	
	QUL-30	2014 08 28	31,3	40.1	0,14		< 0,1	< 0,5	4.10	= 0.01	16,800	4 0,5	<0.1		< 30	40.05	< 0.5	1,950	1,93	10,0 >	0,317	* D.5	495	< 0,5	1,580		681	< 0.01	461	< 10	0.145	<1	_
	QUL-20	2014 08 29	20,3	4 D,1	0.13		< 0.1	< 0.5	× 10	< 0.01	16,100	₹0.5	≪ 0.1		< 30	< 0.05	0.5	1,870	1.26	< 0.01	0.278	× 0.5	451	€ 0.5	1,460	40.01	818	* 0.01	* D.1	× 10	0.14	41	
	QUL-20	2014 08 30	21.5	× 0.1	0,14	5.43	× 0.1	× 12.5	4 1D	× 0.01	16,400	< 0.5	401	1.03	× 30	< 0.05	< 0.5	1,890	1.47	< 0.01	0.294	405	454	× 0.5	1.480	* 0.01	926	* UDt	< 0.1	× 10	0.14	<1	

Convention greater litera DCAPCO Aquatio Life (AM) greatering 2010 Concentration greater than HCWOS Collining Water (CM) goodwine

Consertmen greater then DCWCG Aqueto Life (30dey) (AVI) guideline Concentration of each then at equal to Consider Dillhorg system country (DW) justicine

SHELAVALIN INT.

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Lazzratury detailor lend out of renge
 Potton Columbia Agronal Wester Zustley Guillatine. 2004 Esti ton upwaled 2014
 A Colingerouw of Westering Wester Chally Chastelines for Striken Celumbia. Spotser August 2006. Guideline vance with this amiliar either Temperature or Hardress.

<sup>\*</sup> Newto Cannas Crowing Wilder Charledner, 2013;

Charledner on Nothing action

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

						Ph	yidaal Pare	melesa				Microbiolo	gical Tests				·		Total	Prorganica					1	-
Sample Location	Sample ID	Sample Cate (vyvy mm dd)	Hardness (mg/L)	(Field) (pH)	pH (pH)	Temperature (field) (C)		Conductivity	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Colling (MPN/0.1L)	E. Coll	Total Kjeldahi Mitrogen (N) (mg/L)	Total Nikrogen (N) (mg/L)	Ammonia Nitrogen (ug/L)	Nitrogen (Hg/L)	Narido Niltrogen (sept.)	Nitrate-Mitrile Nitrogen (ug/L)	Chlorkie (mgA.)		Sulphate	Total Alkalinity (to CaCO3) (mg/L)	Bromide (mg/L)	Phosphate (rigit)	Total Phosphoru (mg/L)
Guldelinas				4				the state of the s	A.K.IMICE					2 77							-	1	100			A 1969
SCYVOG Aqualic Li	te (AVVI**	1	n'a	0.5-0.0	8.5-0.0	v/∗1 Degrees	Change of B	eva.	n/a	Change of 25	174 +20% of	nis	Na	n/a	n/h	5,680-16,400*	32 800	50 (CF-2)	32 100	900	988.2- 1,224.3 <sup>4</sup>	n/a	N/A	U/0	rvig	0.905-0.01
BCWOG Aquate Li	fe (30day) (AVV) <sup>k,c)</sup>		Ne	n/a	n/a	change from amblent	Change of 2	n/e	H/s	Charge of 5	median besiground	n/e	Na	n/e	nia	1,090-1,7704	3,000	20 (CI<2)	3,000	150	Na	125-300*	rya	rsia .	n/s	n/a
						No.	Duenge of			1000	Car					-				-						
BCWDG Drinking V			n/a		6.5-8.5		100	n/a	n/a	19/4	rve	n/s	Ortobal	n/s	n/a	N/a	10.000	1.000	10,000	250	1,000	600	r/a	EMI	NIE.	0.01
Canadian Orinking (		4441 AV III	TV4		6.5-6.5			IV'N	500	n/a	rva	rula*	Oraciani	n/a	n/q	nip	10,000	1,000	R/B	250	1,500	500	n/a	n/B	n/g	nie
QUL-21	QU1-21-0M	2014 08 08	49.5	7,90	7,91	14.7	0.29	87.6	72	43	2,51				0.159	<.5	85,6	<1		= 0,5	34	5,57	43,6		< 0.001	< 5,002"
	QUL-21-7M	2014 08 08	50.7	7.95	7.91	4.5	0.25	99.5	72	€3	2.11			-	0.174	< 5	100	<1	-	< 0.5	35	5.86	44.5		<0,001	≠ 0.002 <sup>a</sup>
	QUL-21-30M	2014 08 08	54.3	7.62	7.9	4.4	0.78	108	17	<3	2.16				0.193	< 5	141	<1		< 0.5	30	0.12	45		< 0.001	< 0.002 <sup>4</sup>
	QUL-21	3014 08 09	49.3	7,81	7.88	16,1	0.38	96.7	60	<3	2.33			*	0.137	< 5	73.9	<1	•	<0.5	34	5.82	43.2		< 0.001	< 0.002*
	OUL-21	2014 08 11	47.8	7.90	7.02	19,7	0.77	97.8	- 66	<3	2.27	in the same of			0.132	*5	57.3	- 41		< 0.5	33	5.64	44	-	<0.001	< 0.002
	QUL-21-DM	2014 08 12	48.1	7.98	7.96	-	0,4	95.9	65	< 3	1.97	-	*		0,13	< 5	55,1	<1		< 0,5	36	5.86	43,5		< 0.001	< 0.002°
	QUL-21X	2014 08 12	48.9	7.98	F.96	Anna transport	0.49	56.3	55	<b>₹</b> 3	1,95	A CONTRACTOR OF THE CONTRACTOR	VIII OF SOUR	and the same of th	0.128	< 5	54.1	41		C.0 >	26	5.84	44.3		< 0.001	< 0.002*
	MINISTER OF STREET			0	4.1	managet	مبغون ويسلمنك تهم	(i))[( <b>4.2</b> (10))	0 1	distantantial lines		SEED SHORE	anne-prin	BOTTO SECTION		THE PERSON NAMED IN	1001 22110	ENTENTE	MESSION STREET	THE REAL PROPERTY.	THE PERSON	48P 1 (1)	14/15/2006	10000000	iking alin	CALMACTUME
	QUL-21-12M	2014 08 12	48.2	8.15	7.94	12.9	0.55	96.7	68	<3	1.87	-		*	0.171	45	88.2	<1	-	< 0.5	36	6.77	44.6	-	< 0.001	< 0.002*
	QUL-21-30M	2014 08 12	54.3	7,57	7.96	4.6	0.36	107	15	43	1.74	-		*	0.101	< 5	139	<1	-	< 0.6	34	6.19	49.5		< 0.001	< 0.002*
	GUL-21	2014 08 13	47.6	*	4	20.9	0.29	98.2	50	63	2.00			*	0.138	< 5	44.2	€1		< 0.5	3.2	5.62	44.4	*	< 0.001	< 0.002°
	QUL-21	2014 08 14	49.6	7,85	7.06	21,3	0.22	67,2	63	<3	2.11				0.108	< 5	41.5	<1		4 0.5	15	5.62	43.4		< 0.001	1.0027
	GUL-21-0M	2014 66 15	48,7	8.12	7.95	20,7	0,22	95.4	56	<3	1.05	-			0.102	<b>&lt;5</b>	39.7	<1		< 0.5	36	5.64	43.1		< 0.001	0.0022
	QUL-21-10M	2014 96 15	50.3	7.92	7.84	13.1	0.3	20.3	87	<3	1.73				0.138	<5	0.08	<1		< 0.5	35	5.76	44.6	and a	= 0.001	0.042
	OUL-21-30M	2014 06 15	53.5	7.85	7.9	4,5	0.35	106	73	<3	1.65				0.175	4.5	140	<1	-	< 0.5	38	6.17	48	-	< 0.001	1.0024
	QUL-21	2014 GB 16	48.2	B.21	7.97	20.4	0.24	95.1	715	43	1,61				0.108	×5	42	4.1		× 0.5	36	5.60	43.6		100.0>	< 0.002°
	QUL-21	2014 08 17	48	7.76	7.07	20.6	0.3	96.3	01	<3	2.4				0.128	< 5	40.6	< 7	-	< 0.5	34	5.63	43.9		< 0.001	< 0.00%
	QUL-21-0M	2014 08 23	50.3	7.77	7.87	16.6	0.55	99.4	61	×3	2.37	*	-		0.133	< 5	63.4	41		< 0.5	36	5,66	4.6		< 0.001	< 0.002*
	OUT-51-50W	2014 68 23	54	7,38	7,84	5,2	0.84	107	129	<3	2,11	-	-	-	0.159	45	138	<1	*	< 0.5	37	6.05	48,2	-	0.0016	HHIE X0027
	QUL-21-46M	2014 08 23	74	7,53	7.05	6.0	85.1	156	104	42.4	2.19				0.397	53.9	237	1,6	-	0.65	75	10,0	60.3		< 0.001	0.0856
	QUL-21-0M	2014 (8) 25	50	7.76	7,96	17.5	0.82	58,3	66	×3	1.82		*		0,137	< 5	62.6	< 1	- 4	< 0.5	34	5.81	44.4	1.6	< 0.001	< 0.002°
	QUL-21-9M	2014 08 25	50.7	7.85	7.95	14.2	1.11	99.6	67	< 3	1.87				0.164	< 3	75.9	<1		< 0,5	34	5.95	44.5	4	0.0193	0.0183
	GUL-21-49M	2014 08 25	70.3	7.53	8	6.2	72	153	107	16.8	1.76		-	Maria Maria	0.300	45.8	235	2		0.54	ED.	16.7	55.6		6,0031	0.0069
	CUL-\$1-0M	2014 06 26	49.8	7.03	7.90	17.5	0.53	67.0	66	*3	2.11				0.12	< 5	57.2	*1		< 0.5	35	5.77	44.7		< 0.001	< 0.002*
	DUL-21-21M	2014 08 26	50.9	7.43	7.89	5.7	1.3	89.3	66	4.3	2.21				0.228	× 5	75.9	41		< 0.5	35	8	44.9		*0.001	< 0.002*
	QUL-21-47M	2014 08 26	70.1	7.59	8.01	6.0	0.18	153	113	17.5	2.15		-		0.306	49.2	237	2.7		0,54	đá	17	59.5		0.0024	0.0059
	QUE-21-0M	2014 DB 26	49	8,10	7.64	18.3	0.32	06.5	64	< 3	2.27				0.142	< 9	47.3	41.	South out	< 0.5	34	5 76	45		< 0.001	< 0.002*
	OUL-21-15M	3014 DB 26	50.7	7.75	7.88	10,3	1,91	100	56	× 3	2.45				0,199	7.2	104	41		< 0,5	35	5.96	40.0		< 0.001	< 0,002*
	QUIL-21-46A1	2014 08 28	70.2	7.89	7.96	8.1	79.1	153	104	38.2	2.14	-		-	0.396	59.3	236	1.9		0.58	73	17.4	61.5		< 0.001	0,0042
QUL-22	QUL-22	2014 Se Ds	49.6	7.85	7.01	13,6	0.34	99.5	70	43	2.21	-			0.102	< 5	85.5	< 1		< 0.5	34	5.80	44.2		< 0.001	< 0.002°
	QUL-22	2014 08 09	49.5	7,77	7.87	16.8	0,4	97.1	68	€3	2.26				0.148	< 5	78.6	<1		< 0.5	35	5.6	43		4 0.001	< 0.002°
	QUL-22	2014 08 10	48.7	7.00	7,52	18.4	9.35	96.3	64	e 3	2.26				0.135	<5	67.4	<1		< 0.5	35	5.50	45.4		< 0.001	< 0.002°
	OUL-22	2014 08 11	47.3	7.81	7.94	20.0	0.51	98.5	67	<3	7.23				0.144	< 5	1,00	45		= 0,6	34	5.54	44,3	4	< 0.001	≠ 0.002°
	QUL-22	2014 08 12	47,3	8.01	7.97	20.4	0.51	85.3	(1.4	< 3	1.04		-		0.132	4.5	56.2	<1	-	< 0.5	34	5.50	44.3		0.0014	< 0.002*
	QUL-22	2014 06 13	47.A		7.08	20.6	0.32	98.1	60	< 3	2.2				0.123	45	44.6	41		< 0.5	32	0.00	44.5		< 0.001	< 0.002*
	QUL-22	2014 08 14	49.6	7.84	7.91	21,1	0.31	97.2	65	e3	2.1				0.106	<5	41.2	41	-	< 0.5	36	5.52	43.3		× 0.001	< 0.002ª
	QUL-22	2014 58 15	45.2	8,11	7.99	29.7	0.21	95.9	70	<3	1.80				0.101	<5	40.1	41		405	35	8.81	43.7		4 0.001	0.0024
	CHUL-22	2014 06 16	47.0	8.19	7,61	20.7	9.29	94.2	63	×3	2.00		-		0.106	*5	40.6	41		< 0.5	36	5.50	43.4		< 0.001	< 0.002
	OUL-22	2014 08 17	47.4	7.50	7.98	21.1	0.29	90.0	63	<3	2,4			-	0.123	< 5	41,3	< 1	-	< 0,5	34	5.91	44.2		4 0.001	4 0.002°
	QUL-22	2014 06 19	48.5	7,00	7,02	20.1	9.44	96.7	44	×3	2.1		· ·		0.118	< 5	30	41	-	< 0.5	32	5.53	44,3		< 0.001	< 0.002°
	OUL-22	2014 08 21	49.5	8.25	7.76	17.4	0.65	96.6	63	<3	1.86	-			0.131	•5	80,7	<1		₹ 0.5	35	5.67	45		< 0.001	4 0 002"
	QUL22	2014 08 22	49.B	7.98	7.92	173	0.54	96.9	66	€3	2.41			-	0.138	< 5	64,5	<1	111111111111111111111111111111111111111	< 0.5	34	5.71	51.2	-	< 0.001	0,0061
	OH1755	2014 08 23	49.B	7,85	7.86	17.1	0.55	99.2	63	< 3	2.2		-	7.57 19	0.132	< 5	50	<1	*	< 0.5	32	5.50	44.7		= 0.001	< 0.002
	QUI22-064	2014 00 26	49.6	7.78	7.98	17.3	0.52	66,9	68	<3	2,16		*		0.124	< 5	50.0	<1	-	< 0.5	35	5.77	4	*	< 0.001	0.0021
	QUL-22-6M	2014 08 26	50.1	7.75	0	17.2	0.64	07.4	67	< 3	2.1	-			0.133	<5	57.0	<1	*	< 0.5	36	5,70	44.7		0.0023	0.4634
	QUL-22-6M	2014 08 20	50.5	7.73	8.01	16.1	0.7	87.5	67	€3	2.1				0.136	<5	61.4	41		< 0.5	35	5.8	44.7		4 0.001	0.0023
	QUL-22-0M	2014 08 28	49.2	8.10	7.93	10.0	0.37	97.2	50	43	2.19				0.131	< 8	47.7	*1	4	* 0.5	34	5,76	45.5		< 0.001	< 0.002°
	QUL-22-0M	2014 06 28	49.0	8.05			0.6	67.3	58	<3	2.17		-	*	D.131	45	53.6	41		< 0.5	34	5.79	45.5	The same of	+ 0.001	0.0021

Concentration poster than BCANCAS Acastic Life (AMI) guidaline

BOLD Conventation greater transitional Distribute Week (DAY) Quitainne [[][[] INTAKEND [1] []] Concentration greater than DOWOU Agrate Life (Struy) (ANY granules.

Gancentration greater from or equal to Consisten Dynjvery Writer Quarte, \$700) guidaline

SNG-LAVALPI ING

<sup>Letecrytary detection hints out of renge.

Strong Columnia Approved Where Classify Guierians 1996 Eddon, opdated 2014.

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

															Dissolve	rd Metala							_							
Sample Location	Sample 10	Sample Date (yyyy mm dd)	Dissolved Aluminum (µg/L)	Dissolved Catchen (mg/L)	Discolved Iron (Lg/L)	Descrived Magnetium (mg/.)	Dissolved Manganess (Pg-L)		Dissolved Sed kim (mg/L)				Baryllium								Morcury (pg4.)	Mulybalenum 943-1								
Quidelines				,			,									,	,								,					
NAVOO Aqualic LI	He (AW).		1004	PPM	350	NA	n/u	n/e	n/s	nie .	0.0	n/e	n/a	rve	1/4	//e	n/a	r/a	1/4	nie	11/6	n/n	n/k	n/a	ruis	NE	rs/a	3V6s	15/8	6/8
CANGO Aquatic Li	ite (30gmg) (AVV)***		50"	nía	nva	n/a	n/a	0/8	rs/a	n/a	n'a	17/0	Na	n/a	f6'8	D/a	19/4	n/m	īva .	n/a	n/s	r/a	n/a	n/a	nia	nie	n/a	nie	DVB	17/1
CWQ3 Dainling v	Alater (DA)		200	n/a	rs/a	n/a	n/a	n/s	n/a	n/a	n/a	n/a	D/B	TV/m	7VB	n/a	19/8	ri/m	n/a	000	r/n	20/00	n/a	77/1	68	n/a	reig	l/e	riva	na
	Water Chally (DW)*		rus	nia	75/4	nia	nie	194	n/a	n/a	n/a	tup	n/u	n/a	F/N	19/4	n/a	eva	n/a	TUNE	FI/O	16 A	F3/34	rvia	fusi	n/u	rva.	ryio	rva	n/a
QUL-21	QUL-21-0M	2014 08 08	9.5	16.7	₹ 30	1.93	0.368	0.452	0.832	× 0.1	< 0.1	5.21	< 0.1	< 10	< 0.01	× 0.5	< 0.1	40.5	< 0.05	405		0,272	× 0.5	4.05	40.01	< 0.01	* 10	0.168	6.1	4
	QUL-21-TM	2014 09 08	0.0	17.1	s 30	1.9-1	6.2	0.478	0.663	<₽1	< 0.1	5.2	× 0.1	< 10	< 0.01	× 0.5	40.1	+ 0.5	< 0.05	× 0.5		0.269	< 0.5		4 D.01	€ 0.01	< 10	0.163	< 1	
	QUL-21-30W	2014 09 08	4.0	14.3	< 30	2.08	2.20	0.474	0.619	× 0.1	× 0.1	5.26	< 0.1	< 10	4 0.01	405	< 0.1		< 0.05	0.61		0.269	< 0.5	< 0.5	< D.01	< 0.01	< 10	0.176	41	-
	CUL-21	2014 08 09	10	18.6	< 30	1,8	0.49	0.465	0.83	< 0.1	D.11	5.28	*01	< 10	< 0.01	< 0.5	< 0.1		< 0.05	0.56		0.296	< 0.3	< 0.5	< 0.01	< 0.01	< 10	0.132	<1	<
	QUL-21	2014 OB 11	10.3	16.1	< 30	1.64	0.673	0.467	0.832	< 0.1	0,11	5.27	+0.1	< 10	< 0.01	405	<01	0.6	40.05	1.02	*	0.283	< 0.5	< 0.5	« Q.01	< 0.01	< 10	0.179	41	4
	OUL-21-DM	2014 00 12		16.1	× 30	1.94	0.275	0.488	0,655	40.1	0.1	5	4 0.1	< 10	× 0.01	+ 0.5	< 0.1	× 0.5	< 0.05			0.324	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.08	<1	4
	QUL-21X	2014 08 12	11	16.4	4 30	1.92	0.853	0.454	0.023	< D.1	0.11	5.37	< 0.1	< 10	< 0.01	₹05	< 0.1		< 0,05	0.54		0.276	×0.5		< 0.01		× 10	Q.13	41	<
	SANCE		CANAL PROPERTY.	DINING THE	. Service and the	1046504	WARRANT MARRIED	KARL HARA	auter (1989)	<b>BERLEVIU</b>	THE REAL	7	THEFT		HUMBUR	SERVICE STREET				tritable.	<b>HEALTH</b>	EDGEN! BUT		CLUMB ALLEY	( Which carrie		THERAUL	HANNY ENGL	UNIVERSITE	B
	QUL-21-12M	2914 08 12	10.5	16.3	× 30	1.82	0.212	0.46	2.815	< 0.1	< 0.1	5.06	< 0.1	< 10	* 0.01	- 0.5	× 13,1	0,9	< 0.05	0.77	-	0.284	< 0.5	< 0.5	< 0.01	< 0.01	× 10	0.146	<1	4
	QUL-21-30M	2014 08 12	6	15.3	< 30	2.00	0.407	0.468	2,919	< 0.1	0.1	4.90	< 0.1	× 10	÷ 0,01	< 0.5	* D.1	< 0.5	< 0.05	0.66		0.258	< 0.5	< 0.5	< 0.01	< 0.01	× 10	0.149	< 1	-
	CUL-21	2014 08 13	B.5	18	< 30	1.86	0.222	0.473	D.833	< E.1	0,11	6.34	<0.1	< 10	< 0.01	< 0.5	<0.1	40.5	< 0.05	0.80		0.314	₹ D.5	-0.5	× 0,01	< D.01	< 10	0.127	×1	<
	QUL-21	2014 08 14	10.3	16.7	× 30	194	0.721	0.463	0.812	4 0.1	0.1	5.26	<01	= 10	* 0.01	×0.5	<0.1	< 0.5	€0.05	0.58		0.294	< 0.5	< 0.5	× 0.51	< 0.01	< 10	0.128	×1	4
	QUL-21-0M	2014 08 15	10.4	18.4	4 30	1,827	0,499	0.45	0.837	× Q.1	0.12	5.54	* D.1	e 10	< 0.01	×05	e 0.1	* Q.5	< 0.05	≈ Q.5		0.299	< 0.5	< 0.5	< 0.01	< 0.01	× 10	0,119	<1	•
	QUL-21-10M	2014 06 15	10	17.1	× 30	1.8"	0,143	0.488	0.632	≪ D.1	< 0,1	5.12	< 0.1	< 10	< 0.01	< 0.5	< 0.1	× 0.5	× 0.05	0.52		0.262	₹ 0.5	< 0.5	€ D.D1	< 0.01	< 10	0.164	×1	-
	QUL-21-30M	2014 06 15	6	18.1	< 30	2.03	0.345	0.479	0.02	< 0,5	< 0.1	5,29	< 0,1	< 10	× 0.01	< 0.5	× 0.1	405	4 0.05	0.66		0.272	1 < 0.5	< 0.6	< 0.01	< 0.01	< 10	0.177	×1	4
	QUL-21	2014 06 18	9.7	18.2	< 30	1.9	0.415	0.479	6.822	< 0.1	0.12	5.41	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.58		0.29	₹ 0.5	< 0.5	4 0.01	< 0.01	* 10	0.12	<1	1
	QUL-21	2014 06 17	9.0	16.1	¥ 30	1.5	0.545	0.454	0.623	< 0.1	0.12	5.47	< 0.1	4 10	< 0.01	< 0.5	< 0.1	0,5	< 0.05	0.54		0.295	< 0.5	< 0.5	4001	< 0.01	× 10	0.137	€\$	
	QUL-21-0M	2014-08-23	10.5	16.0	* 30	1,94	0.886	0.458	0.615	< 0.1	< 0.1	5.4	× 0,1	4 10	< 0.01	≠ 0.5	< 0.1	0.97	< 0.05	0.96		0.283	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.13	<1	4
	QUL-21-20M	2014 06 23	6,4	18.2	< 30	2,03	0.629	0.49	0,902	≪ 0,1	40.1	6,02	< 0.1	5 40	< 0.01	< 0,5	~ Q1	0,71	€ 0.05	0.00		0,255	≠ 0.5	< 0.5	< 0.01	< 0.01	< 10	0,146	<1	K
	QUL-25-46M	2014 06 23	13.2	25	< 30	2.8	108	0,952	3.2	C.23	0.72	17.9	< Q.1	€ 10	< 0.01	€0,5	< 0.1	4,5	≈ 0,05	1.17		4,38	< 0,5	0.59	< 0.01	* 0.01	4 10	0,643	<1	1
	QUL-21-0M	2014 08 25	10	16.9	< 30	1.00	0.724	0.461	0.805	< 0,1	<0.1	5.48	< 0.1	s 10	4.0.01	< 0.5	× 0.1	0.93	× 0.05	× 0.5	-	0.256	< 0.5	< 0.5	< 0.01	< 0.01	4 10	0.133	1.7	1 4
	QUL-21-8M	2014 05 25	0.0	17.2	< 30	1.91	1.24	0.443	0.851	× 0.1	< 0.1	5.68	< 0.1	< 10	≪ 6.01	< 0.B	< 0.1	1.37	< 0.05	< 0.5		0.293	< 0.5	4 0.5	< 0.01	< 0.01	≠ 10	0.14	41	1 4
	QUL-21-45M	2014 06 25	12.9	23,8	× 30	2.63	94,7	0.95	3.00	0.22	0.66	17.5	< 0.1	< 10	< 9.01	< 0.5	< 0.1	4.65	< 0.03	0.61	-	4.66	< 0.5	0.63	< 0.01	< 0.01	< 10	0.58	< 1	4
	QUL-21-048	2014 06 28	9.3	0.62	< 30	1.68	0.699	0.448	0.793	< 0.1	0.12	8.5	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.68	< 0.05	0.64		0.287	< 0.5	< 0.5	< 0.01	4 D.01	4 10	0.125	× t	1 4
	QUL-21-21M	2014 08 26	9.8	17.2	€.30	1,9-1	1,01	0.452	0.62	<0.1	EQ.1	5.62	€0.1	< 10	< 0.01	< 0.5	< 0.1	1.21	< 0.05	0.57	-	0.284	< 0,5	< 0.5	< 0.01	4 D,D1	< 10	0,128	45	4
	QUL-21-47M	2014 08 26	11.7	23.7	< 30	2.61	95,8	0.907	2.99	0.21	0.66	17,3	< 0.1	< 10	< 0.01	< 0.5	< 0.1	4,54	* 0.05	0.75	-	4.63	< 0.5	0.54	< 0.01	< 0.01	× 10	0.501	×1	<
	QUL-21-01	2014 06 28	10.1	16.5	€ 30	1.92	0.508	0.458	0.623	€0.1	0.11	5.3	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0,58	€ 0.05	< 0.6		0.270	< 0.5	+ 0.0	* 0.01	< 0.61	× 10	0.138	K 5	1.3
	QUL-21-16M	2014 DE 25	9.4	17.1	* 30	1.84	1.04	0.486	0,863	< 0.1	< 0.1	8.59	< 0.1	× 10	< 0.01	< 0.5	₹ 0.1	1.17	< 0.08	405		0.272	< 0.5	< 0.5	< 0.01	< 0.01	× 10	0.151	*1	4
	QUL-21-46M	2014 08 28	15.3	23.7	< 30	2.61	95,8	1.03	3,59	0.26	0.76	16.8	< 0.1	< 10	0.036	< 0.5	4 0.1	5.32	< 0.05	0.8		5.51	< 0.5	0.67	0.018	0.011	4 10	0.671	41	6
Onr-53	QUL-22	2014 DB D6	0	16.7	< 30	1.92	0.518	0.460	6(8)0	< 0.1	< 0.1	5,15	<0.1	4 10	< 0.01	< 0.5	4 0,1	< 0,5	4 0.05	< 0.5		0.281	0.52	< 0.5	< 0.01	< 0.01	< 10	0.15	< 5	*
	QUL-22	2014 08 09	9,6	16.7	< 30	1.5	0.467	0.482	0.627	< 0.1	× 5,1	5.19	× 0,1	~ 10	* 0.01	* 0.5	< 0.1	< 0,5	* 0.05	0.6		0.263	< 0.5	€0.5	< 0.01	< 0.01	< 10	0.134	<1	1 4
	QUL-22	2014 DB 1G	10.8	15.4	* 30	1,84	0.53	0.478	0.845	< 0.1	9.11	5.16	< 0.1	× 10	< 0.01	< 0.5	< 0.1	0.5	< 0.05	<05		0.281	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.132	4.2	4
	QUL-22	2014 08 11	11.7	15.9	₹ 30	1,81	0,992	0.488	0,833	4 0,1	0.11	5,23	< 0.1	< 10	< 0,01	< 0.5	€ 0.1	4 0,5	< 0.05	1.02		0.271	< 0.5		< 0.01	< 9.01	< 10	0,125	41	1
	QUL-22	2014 08 12	10.4	15,9	× 30	1.05	0.36	0,471	0.831	< 0.1	0.11	5,00	<0.1	× 10	< 0.01	< 0.5	× 0.1	€0.6	× 0.05	0.71	4	0.308	405	< 0.5	< 0.0%	< 0.01	< 10	0.141	<1	
	QUL-22	2014 DE 13	10.6	15.9	= 30	1.51	0.155	0.487	0.825	< 5.1	0.1	5.31	<0.1	× 10	< 0.01	< 0.5	< 0.1	0,5	4005	1		0.259	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.135	61	×
	QUL-22	2014 08 14	10.2	16.7	× 30	1.91	0.579	0.487	0.83	< 0.1	0.11	5.42	< 0.1	< 10	< 0.01	< 0.5	< 0.1	× 0.5	× 0.05	0.62		0.312	< 0.5	< 0.5	< 0.0%	< 0.01	< 10	0.52	<1	
	QUL-22	2014 08 15	10.5	15.2	< 30	1.73	0.481	0.483	0.651	< 0.1	0.12	5.58	< 0.1	C 10	< 0.01	< 0.5	< 0.7	0,5	< 0.05	< 0.5		0.315	< 0.5	< 0.5	< 0.01		< 10	0.133	*1	
	QUL-22	2014 06 16	10.1	10.1	* 30	1,55	0.511	0.496	0.636	× 0.1	0.11	6.23	< 0.1	× 10	< 0.01	< 0.5	< 0.1	0.54	* 0.05	0.52		0.335	< 0.5	< 0.6	< 0.01		< 10	0.137	<1	1
	QUL-22	2014 08 17	10,7	15.8	< 30	1,83	0.517	0,475	0.847	< 0.1	0,12	5.37	< 0.1	< 10	< 0.01	< 0.5	<0.1	< 0.5	< 0.05	G.51		0.3	< 0.5	< 0.5	< 0.01		< 10	2.134	<1	<
	GNT-55	2014 08 19	9,7	16.3	< 30	1.91	0.449	0.467	0.619	4 0.1	0.11	5.4	< 0.1	× 10	4 0.01	4 0,5	< 0.1	405	< 0.05 °	0.74	*	0.31	< 0.5	< 0.5	4 0.01		< 10	0.13	4.1	1
	QUL-22	2014 08 21	10,8	16,7	× 30	1.0	0,7	0.465	0.622	< 0.1	< 0.1	5,30	*0.1	< 10	< 0.01	< 0.5	< 0.1	0.74	< 0.05	08,0		0.25	< 0.5	< 0.5	< 0.01	< 0.01	× 10	0.139	<1	1.
	GUL22	2014 08 22	11.6	16.8	< 30	1,6	0.771	0.472	0.85	= 0.1	< 0.1	5,37	*0.1	* 10	< 0.01	< 0.8	4 0.1	0.82	< 0.05	0.9	0.0	0.268	< 0.5	< 0.5	< 0.01		≪ 10	0.142	<1	
	QUL-22	2014 06 23	10.1	16.8	< 30	1.51	0.894	0.486	0.81	< 0.1	0.11	5.4	<01	< 10	< 0.01	< 0.5	401	0.88	< 0.05	0.00		0.277	< 0.5	< 0,5	< 0,03		< 10	0.13	4.1	1 4
	QUL-22-0M	2014 08 26	9.7	16.7	₹ 30	1,81	0.73	9.456	0.812	* 0.1	< 0.1	5,49	* 0.1	4 10	< C.01	< 0,5	< 0.1	1,01	≠ Q.05	0,59		0.28	< 0.5	< 0.5	< 0.01	< 0.01	× 10	0.127	<1	1
	QUL-22-4M	2014 08 26	10.4	16.6	< 30	1.63	0.713	0.449	0.818	₹ 0.1	<0.1	5.54	< 0.1	4 10	< 0.01	< 0.5	< 0.1	1.01	< 0.05	0.59		0.263	< 0.5	< 0.5	< 0.01		< 10	0.13	41	4
	QUL-22-9M	2014 08 26	10	17	< 30	1.64	0.673	0.452	0.509	<01	0.1	5.43	<0.1	= 10	< 0.01	₹ 0.5	401	1,03	< 0.05	5.63		0.248	€ 0.5	* 0.5	₹ 0.01	₹ 0.01	< 10	0.127	<1	
	QUL-22-0M	2014 08 28	9.0	16.5	< 30	1.02	0.563	0.467	0.832	< 0.1	0.11	5.38	< 0.1	< 10	< 0.01	< 0.5	*01	0.65	< 0.05	< 0.5		0.261	< 0.5	<05	4 0 01	£0.01	< 10	0,136	* 1	1
	QUL-22-8M	2014 06 25	10.1	16.7	≥ 30	1.02	0.551	0.473	0.84	× 0.1	0.12	5.73	4.0.1	× 10	< 0.01	< 0.5	× 0.1	0.93	< 0.05	400		0.291	×0.5	< 0.5	× 0.01	< 001	6 10	0.142	4.1	1.5

Apprised ALS No. L-HOUSE L. L-HOU 130-0407, 130-0401, 130-04

Concentration greater their \$100000 Aquatic Life (AM) guideline. Curestano grade tren bosco (enting West (EMF) gradeline.

Consentation greater than SCWGG Access Life (DOSay) (AW) gradules Gordenstation greater than or equal to Compoun (Innium) Water Quality (INV) gradules

\* Lobandary defection fivel (vi) of range.
\* detection Collection Approved Visited Existing Collections (2008 bination, legislates 2014.
\* A Companisation of Visitancy Wisine (about 7 Collection) in the bination Collection, updated August 2004.
\* Collection variety with per lambire stories Temperature on Navightings.

\* Hospin Carvada Dirihing Water Guidhance, 1912.

\* Skidden fol Statute Applied.

Becomber strong or phone value, not 30 der means

\* Codestrie not applicable for site advartism,

The latel procubance guidates in a mensure of later productively and its based on sparsp eventum or an evenup of restricted deligible and its rect explosible to every sample results of the point in this
 Calculated based on an individual sample based, yet evenue of 30 day results

621717/2014 09 11 philippo\_grams (6.6pc clape of 20 to 22 12

Denotes concertables was Part Indicated delutrary land or REC feas their indicated value.
 Canocas analysis not concertain.

I've. Denotes no egalicación atantana:

1640s ere not resmulty calculated where one or more concentrations ore less than five times MDL.

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

		2							1								7	Total Mel	lale							********	-				-		-
Sample Location	Sample	Sample Date (yyyy mm dd)		Antimony (pgAL)			Beryllium (PD%)				Calcium	Chromium (pp/L)				Lead (µg/L)		Magnesium (ug/L)	Mariganose (µg/L)	Mercury (agr.)	Molybdenum tugt_}	Mickel (pg/L)		Sejenium jugiL)			Sodium tugich	Thailium		Transum (up/L)		Yanadium (up/L)	
luideliven									,					,						· · · · · · · · · · · · · · · · · · ·		,	,	,	,				,				
WOO Aquatic L	Se (AVV) <sup>k.</sup>		rea	30	3	5,000	n/a	n/e	1.200	0.016-0.026	Print .	1 (0((+8))	110	6.0-0.2*	1,000	27.3-57.7	870	n/a	1,000.6-	merculy.	2,000	25-60*	432,000	2	n/s	0.1*	10k	0.3	n'a	2,000	300		
WOO Aquetic U	4e (30day) (AV/)***		n/e	6/4	e/a	1,000	5.3	eta	7/39	nis	nta	ela		23"	15/4	4.4-5.0"	14"	Na	791.5-940	Equilidar Tunckers to	1,000	n/e	11/8	nve	N/a	0.054	n/3	re'n	nrie	nia	nie	וועמ	
WOO Drinking to	Vater (DWY)		rva	14	25	nla	4	nh	5,000	1/4	Na	et/a	n/a	500	19/8	50	In a	n/a	Ne	1	250	IVA	n/a	10	n/a	n/a	rve.	2	IVA	nin	n/a	nra	
	Weter Qualky (DW)*		100	6	10	1.000	rve	rva	5,000	6	rs/ar	50	nva	1,000	200	10	n/a	n/a	50	1	n/p	n/e	N/S	10	n/o	7/8	200 000	nto	rve.	n/a	20	n/a	1 5
QUL-Q1	QUL-21-0M	2014 06 08	17,4	= 0.1	0.12	5.43	≤ 0.5	= O.5	< 10	< 0.01	15,700	≠ 0.6	× 0.1	0.6	< 30	< 0.35	0.63	1,960	1.04	< 0.05	0.305	< 0.5	473	< 0.5	1.650	< 0.01	847	× 0,01	<0.1	€ 10	0.167	41	1
	QUL-21-TM	2014 06 Qe	18.7	<.0.1	0.11	5.24	< 0,1	₹0.5	× 10	< 0.91	15,900	< 0.5	40.1	0.58	< 30	< 0.05	4 0.5	1,970	1,00	< 9.05	0.298	* Q.5		* 0.5	1,640	< 0.01	854		1 40.1		0.167	*1	-
	GUL-21-30M	2014 00 08	70.4	< 0.1	0.13	5.05	< 0.1	< 0.9	× 10	< 0.01	18,600	405	<01	1,64	67	< 0,05	0.74	2,170	4.07	< 0.00	0.283	< 0.6	454	< 0.5	1,870	< 0.01	913	< 0.01	1 <01	< 10	0.18	41	1
	Q1/21	7014 QB G9	17.8	< 0.1	011	5.42	< 0.1	40.5	4 10	< 0.9n	18,400	405	<0.1	0.56	4 30	< 0.25	0.63	1,910	0,024	× 0.05	0.311	405	471	*05	1,580	< 0.01	34C	≤ C.01	×0.1	< 10	0.14	4.1	T
	QUL-21	2014 08 11	22 5	- 0.1	0.14	5.51	€ 0.1	<0.5	× 10	< 0.01	15,500	405	× 0.1	0,79	×30	< 0.05	0.82	1,550	1.25	- 0.05	0.291	4 0.5	493	× 0.5	1,520	< 0.01	845	« G.D1	40.1	< 10	0.133	41	T
	QUL-21-0M	2014 06 12	16.4	< 0.1	0.12	5,30	< 0.1	< 0.5	4 10	< 0.01	10,000	4.0.5	×0.1	0.71	< 30	< 0.05	0.75	1,560	1.24	< 0.05	9.322	4 0.5	478	405	1,580	< 0.01	849	< 0,01	< 0.1	€ 10	D.136	41	1
	QUL-21X	2014 08 12	18	< 0.1	0.12	5.45	× 0.1	< 0.5	× 10	< 0.01	16,303	< 0.5	<0.1	0.73	< 30	< 0.05	0.58	1,940	1,25	< 0.05	0.299	₹ 0.5	467	< 0.5	1,570	< 0.01	835	< 0.01	40.1	< 10	0.143	41	7
	CAVOC	RID YELLER		HOLES			4000年20	相同特別		MERCE BEN	Refr des	超過機能	MARKET AND		PHATE	REMARKA	BER ALIK	100	Letter in the second	a Maria Angli	arabié irani	BANCANIC	WHAT STATE	######################################	報送業			STREET, STREET,	1 排列工程等	adminute		<b>MATERIA</b>	đ
	OUL-21-12M	2014 06 12	20.6	< 0.1	0.1	5.15	< 0.1	< 0.5	× 10	< 0.01	16,600	< 0.5	< 0.1	0.84	< 30	< 0.06	8,0	1,900	1.00	< 0.05	0.289	< 0.5	475	e 0.5	1,500	< 0.01	354	< 0.01	<0.1	< 10	0,146	41	1
	QUL-21-30M	2014 08 12	17.6	< 0.1	0.12	5.3	c 0.1	₹0.5	* 10	< 0.01	18,500	< 0.5	< 0.1	0.71	< 30	4 0.95	0.77	2,110	1.02	< 0.05	0.282	₹ 0.5	480	× 0.5	1,730	< 0.01	831	₹ 0,01	< Q.1	4 10	0.163	4.1	ij
	QUE-21	2014 09 13	15.4	* 0.1	0.14	5,54	× 0,1	< 0.5	× 10	< 0.01	18,500	<0.5	<0.1	0.67	× 30	< 0.05	0.66	1,960	1.6	~ D.05	0.332	< 0.5	458	* 0.5	1.640	< 0.01	872	+ 0.01	< 0,1	< 10	0.134	41	•
	QUL-21	2014 05 14	17	< 0.1	0,13	5.42	× 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	0,51	< 30	< 0.05	0.50	1.040	1.56		9.34	< 0.5	ASIG	< 0.5	1.850	< 0.01	860	< 0.01	< 0.1	< 10	0.133	41	
	QUL-214M	2014 05 15	14.8	+ Q.1	0.13	5.49	4 0.1	< 0.5	4 10	< 0.01	16,100	€ 0.5	€0.1	0.58	₹ 30	< 0.05	€0.5	1,850	1.37		0.234	< 0.5	479	< 0.5	1.610	< 0.01	842	< 0.01	<01	< 10	0.136	41	ĺ
	QUE-21-10M	2014 08 15	17	40.1	0.1	6,01	40.1	< 0.5	< 10	4 0.01	16,600	< 0.5	× 0.1	0.57	< 30	< 0.06	< 0.5	1.84C	0.008		0.271	405	450	<05	1,550	« 0.01	817	< 0.01	< 0, 1	* 10	0.146	*1	ĺ
	QUL-21-30M	3014 DB 16	10.3	< 0.1	0,1	5.28	€ 0,1	405	< 10	40,01	18,100	< 0.5	£ 0.1	2.79	< 30	< 0.05	4 0.5	2.040	1.43		0.296	4 0,5	488	*05	1,760	≠ 0.01	938	* 0.01	< 0.1	< 10	0.156	41	
	QUL-21	2014 08 16	14.5	40.1	0.13	5.40	< 0.1	+ 0.5	× 10	< 0.01	15,000	< 0.5	×0.1	0.54	< 30	× 0.05	₹ 0.5	1,870	1.22		0.324	- 0.5	467	< 0.5	1,580	< 0.01	821	* 0.01	4 G.1	< 10	0.136	<1	į
	QU1-21	2014 05 17	16.7	< 0.1	0 13	5.49	4 0.1	1 405	< 10	< 0.01	15,700	< 0.5	< 0.1	<1	< 30	< 0.05	0.66	1.870	1.39		0.319	4 0.5	470	< 0.5	1,540	< 0.01	852	* 0.01	< 0.1	< 10	0.14	< 1	
	QUL-21-0W	2014 08 23	35.1	<0.1	0.1	6,13	4 6.1	< 0.5	< 10	< 0.01	15,700	< 0.5	< 0.1	1,56	30	4 0.05	0.88	1,800	1,77	< 0.05	0.33	₹ 0,5	448	₹0.5	1,530	< 0.01	783	< 0.01	< 0.8	< 10	0,137	<b>*1</b>	
	QUL-21-20M	2014-05-23	50.6	< 0,1	0.13	5,56	× 0.1	-05		< 0.01	17,500	< 0.5	E 0.1		48	< 0,05	1.03	2.070	3,10	< 0.05	0,276	4 D.5	494	< 0.5	1.030	< 0.01	915	+ 0.01	< 0.1	* 10	0.157	41	
	QUE-21-46M	2014 08 23	3.910	0,3	1,89		< 0.1	40.5			25,400	2.15	1.65		2,600		2.94	3,950	179	< 0.05	5.03	2,20	2,420	0.67	11,100	0.031	3,700	0.013	0,12	150	0.732	经批准制	Į
	QUL-21-0M	2014 08 25	31.1	€0.1	0.1	5,65	< 0.1	<0.5	× 10	< 0.01	10,200	< 0.5	< 0.7		< 30	< 0.05	= 0,5	1,830	1.5	< 0.05	0.297	4 0.5	474	< 0.5	1,530	< 0.01	836	+ 0.01	< Q.9	< 10	0.137	× 9	
	QUL-21-9M	2014 08 25	70.9	< 0.1	0.54	6.78	40.1	< 0.5	× 10	< 0.01	17,100	< 0.5	< 0.1	3.04	83	< 0.05	≥ 0.5	1,930	3.55	< 0.05	0.334	< 0.5	458	*05	1,650	≈ 0.01	172	< 0.01	< 5.1	< 10	0,153	41	
	QUE-21-45M	2014 08 25	2,510	0.29	1.76	25,4	= 0.1	< 0.3			24,600	48(K))46		70,1			2.24	3,630	157	< 0.05	5,08	2.01	2,330	0.61	10.300		3,890	0.012	0.11	140	0.733		Ì
	QUL-21-0M	2614 06 28	36	< 0.1	0.12	5.85	< 0.1	₹0.5	< 16	< 6.01	16,600	< 0.5	≤0,1	1.59	< 30	< 0.05	0.54	1.930	1.77	< 0.01	0.301	405	464	< 0.5	1.570	< D.01	823	< 0.01	< 0.1	< 10	0,137	*1	
	DUL-21-21M	2014 08 26	61.9	<0.1	0.52	6,44	*01	<05	< 10	< 0,01	16,300	< 0.5	< 0.1	2.1	53	< 0.05	0.54	1,860	3.07	< 0.01	0.321	< 0.5	450	<0.5	1,560	< 0.01	825	4 0.01	< 0.1	< 1D	0.141	< 1	
	QUL-21-47M	2014 08 25	3,560	0.25	1.76	86.1	401	40.5	< 10	0.022	23,600	2.01	1,44		2,900		2.44	3,510	169	< 0.01	4.64	2.02	2,350	0.63	9,740	0.028	3.780	0.013	0.11	133	0.694	推進之前	j
	QUL-21-0W	2014 06 25	21.5	*01	0.13	5.53	-01	₹0.5	< 10	< 0.01	16,400	<0.5	×0.1	0.82	< 30	< 0.05	405	1,930	1.25	< 0.01	0.301	< 0.5	476	€ 0.5	1,520	< 0.01	843	~ 0.01	40.4	< 10	0.144	41	
	QUI-21-16M	2014 DB 25	54.9	<0.1	0,14	0,0%	×0.1	405	< 10	< 0.06°	16,800	< 0.5	₹0.1	2,99		0.086	<0.5	1,950	3.64	< 0.01	0.293	* D.5	490	¥0.5	1,720	< 0.D1	874	< 0.01	< 0.1	< 10	0.154	41	
	QU1-21-46M	2014 08 28	3,700	0.31	1.87	94.7	< 0.1	<0.5	10	< 0.05°	24,600	2.1	1.45		2,110	1.31	2.02	3,660	168	< 0.01	5,73	2.02	2,540	0.71	10,000		4,220	0.011	0,12	140	0.802	7.3	Ì
11.32	QUL-22	2014 OR DD	18	<0.1	0.12	5.4	€ D.1	< 0.5	< 10	4 0.01	19,500	< 0.5	< 0.1		< 30	€ 0.05	0.54	1,840	1.14	< 0.05	0.201	< 0.5	471	< 0.5	1,530	< 0.01	049	4 0.G1	< 0.1	< 10	0.154	<1	
	GNT-55	2014 08 09	22.3	×0.1	0.11		< 0.1	40.5	× 10	< 0.01	16,500	40.5	×0.1		* 30	60.05	0.58	1,820	0.647	< 0.05	0.306	< 0.5	457	* 0.5	1,610	< 0.D1	825	< 0.01	< 0.1	< 1D	11.136	61	
	QUL-22	2014 08 10	21.8	×0.1	0.13	5,68	< 0.1	< 0.5	e 10	< 0.01	16,400	<0.5	< 0.1	0.6	× 30	< 0.05	< 0.5	1,890	1.12	< 0.09	0.288	< 0.5	496	< 0.5	1,610	₹0.01	877	< 0.01	40.1	× 10	0.131	41	
	QUL-22	2014 08 11	23	< 0.1	0.14	5.31	40.1	< 0.5	e 10	< 0,01	16,400	< 0.5	< 0.1			< 0.05	0.89	1,910	1.26	< 0.05	0,307	< 0.5	488	< 0.5	1,570	4 0.01	840	< 0.01	₹ 0.1	4 10	0.137	<1	
	QUL-22	2014 08 12	17.1	< 0.1	0.11	5,14	× 0.1	<0.5	€ 10	≈ 0.01	16,000	<0.5	× 0.1	2.65	× 30	< 0,05	0,81	1,870	1.29	< 0.05	0.304	× 0.5	460	₹05	1,570	< 0.01	837	< 0.01	< 0.1	< 10	0.136	<1	
	QUL-22	2014 08 13	15.8	<01	0.14	5,43	401	< 0.5	< 10	< 0,01	18,500	<05	< 0.3	0.50	< 30	< 0.05	0.78	1,650	1.17	* G-D5	0.316	< DS	677	< 0.5	1,610	< 0.01	452	< 0.01	< 0.1	< 1D	0.136	<b>41</b>	
	QUL-22	2014 08 14	15.4	<0.1	0.11	5,40	< 0.1	< 0.5	< 10	× 0.01	18,400	< 0.5	<0.5	0.83	< 30	< 0.05	1,00	1,910	1.41	*	0,334	< 0.5	476	< 0.5	1,846	< 0.01	803	< 0.01	<0.1	4 10	0.137	<1	
	QUL-22	2014 08 15	16	<01	0.14	5.56	<01	< 0.5	< 10	< 0.01	16,000	<05	< 0.1	0.63	× 30	< 0.05	< 0.8	1,870	1.37		0.324	< 0.5	472	< 0.5	1,610	< 0.01	843	< 9.01	< 0.1	< 10	0.136	41	į
	QUL-22	2014 08 16	13.4	*01	0.17	5,45	€ 0.1	< 0.5	< 10	< 0.01	15,000	<0.5	<0.1	0.63	< 30	€0.05	< 0.5	1,860	1.29	*	0.206	*05	469	< 0.5	1,570	* 0.01	827	~ 0.01	<0.1	< 10	0.129	<1	
	QUL-72	2014 QU 17	14.8	× 0.1	0,14	5.36	× 0.1	< 0.5	< 10	< 0.01	15,700	<0.5	× 0.5	41	< 30	< 0,05	D.64	1,860	1,18	,	0.32	< 2.5	401	× 0.5	1,550	≪ 0.01	88G	< 0.01	× 0.1	4 10	0.136	K 1	
	GNT-53	2014 08 19	16.1	40,1	0.12	5,46	401	< 0.5	< 10	< 0.01	18,200	<0.5	< 0.1		< 30	< 0.05	0.86	1,920	1.17		0.324	< 0.5	478	< 0.5	1,580	* 0.01	843	< 0.01	4.0.1	< 10	0.136	<1	
	GDT-55	2014 08 21	48.4	< 0.1	0.15	5.88	<0.1	< 0.5	< 10	< 0.01	18,500	< 0.5	< 0.1	1,65	41	× 0.05	0.75	1,940	2.04		0,325	< 0.5	468	<05	1,500	< 0.D1	823	< 0.01	< 0.1	4 10	0.146	<1	į
	QUL22	2014 08 22	35.4	< 0.1	0.12	5.83	< 0.1	< 0.5	< 10	< 0.01	16,800	< 0.5	< 0.1	1,58	× 30	< 0,06	0.78	1,840	1.58	-	0.293	< 0.5	494	< 0.5	1,560	< 0.Ω)	873	< 0.01	< 0.1	4 10	0.143	81	
	QUL-22	2014 08 23	37.4	<0.1	0.12	5,61	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	= 0.5		< 30	< 0.05	1	1,830	1.8	< 0.05	0.31	< 0.5	508	< 0.5	1,620	< 0.01	897	< 0.01	<0.1	< 10	0.352	<1	į
	GURL-22-0M	2014 06 26	39.1	< 0.1	0.13	5.70	< 0.1	< 0.5	< 10	< 0.01	18,400	< 0.5	< 0.1		31	< 0.05	0.62	1,910	1.98	< 0.01	0.322	< 0,5	456	< 0.5	1,580	< 0.D1	1126	* 0.01	< 0,1	~ 10	0.107	41	į
	CUE-22-4M	2014 08 26	THE RESERVED TO SERVED	<0.1	Contract mark	6.03	< 0.1	< 0.5	< 10 < 10	4 0.01	18,500	<0.5	≪ G.1	1.79	32	< 0.05	0.64	1.900	1.88	* 0.01	0.331	< 0.5	481	× 0.5	1,580	~ 0.D1	849	+ 0.01	₹0.1	< 10	0.130	41	
	OUT-22-0M	2014 08 26	37.5	<0.1	0.11	5.87	< 0.1	< 0.5	* 10	STANSON OF PROPERTY.	16,100	<0.5	< 0.5	1.02	32	< 0.05	0.86	1,870	1.0	+ 0.D1	0.300	× 0,5	428	< 0.5	1,530	≠ 0.01	747	= 0.G1	< 0.1	410	0.132	41	į
	QUL-22-9M	2014 08 28	30	<0.1	0.14	5.07	×0.1	< 0.5 < 0.5		0.414	16,400	< 0.5	≈ C.1		< 30	0.11	<0.5	1,910	1.81	< 0.01	0,336	× 0.5	477	< 0.5	1.510	< 0.01	860	< 0.01	< 0.1	410	0.153	<1	į
	COF-51-31M	2014-08-28	30	1 - 0.1	V.12	13/07	- 0.1	1 -0.3	1 - 10	< 0.01	16,500	= 0.5	×0.1	17	31	< 0.05	< 0.5	1,940	1.98	< 9.01	0.31	€ D.S	480	<05	1,560	≠ D.D1	458	- 001	< 0.1	< 10	0.245	<1	

Assertiable ALS flow L'HARSTY, L'HAR

Consensation gramm than BCMCG Aquest Use (AM) guarina

Cohcerdwises greater their BCWOG Littleing Wister (DM) guideline

Concentration greater than BOVIDs Aquato Life (Strain) (AVI) guardine. Commission greater than at wait to Commison Driving Water Cuality (1794) guidaine

- Leboralary delasion timit out of himps:
  International contents Approved Materials and Catalathone (2016 Edition), lipolated 2016
  International Catalatha Approved Materials Catalatha Cat
- \* Heady Careda Ditterny Water Guidelines, 2012.

  Usdaline for Nilse is applied,
- Seniorately districts of childred status, not 30 alsy maters.

  Condition not continuable for this actualizes
- \* The behild introduction on a minister of this productively and is based on opening creature or an everage of surrence assembles and is not applicable to simple damples couldn't are power in these

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

						Ph	yaitat Para	maters				Microbiolo	gical Testa			-		,	গ্ৰা	pergunica						
Semple	Sample (D	Sample Date	Haraness			Temperature (field)	Tartridity	Conductivity	TDS	TES	DOC	Total	li, Cali	Total Kjeinahi Kilingen (N)	Total Hitrogen (N)		Nitrata Hitrogen	Nikrita Nikrogen	Nitrales Mitrile Nitrogen	Chloride		Sulphate	Total Attalianty (se CaCO3)	Bromide		
Ouklelines	ID.	(yyyy mm dd)	(mg/L)	(pit)	{Hq}	(C)	(NTU)	(usion)	(mg/L)	(brg/L)	[mg/L]	INPINO.IL	(MPN/0,1L)	(mg/L)	(mg/L)	(ugA.)	(pg/L)	guar.;	(µg/L)	(mgs.)	(Jagal)	(mg/L)	(mg/L)	i (mg/L)	(mg/L)	(mp/L)
CYYOG Aquatic L	= (AW)**		n/e.	6.5-9.0	6.5-9.0	*/-1 Degree	Clunge of	n/a	nie	Change of 25	n/a +20% of	nia	n's	pr/mg	N/E	5.680-16.400*	32,800	60 (CH2)	32,860	600	1,224.5	n/a	n's	nie	nie	0.008-0.01
CWOG Aquatic L	ite (30day) (AW) <sup>hs.ir</sup>		n/a	nía	nie	change from	2	n/a	r/a	Change of 5	median	Na	n/s	nie	n/e	1,090-1,770	3.000	20 (C <2)	3,000	150	7/8	128-309"	nia	n/s	n/a	n'a
SCIVOG Drawing V	Sister (PUAPIF)		n/a	6545	5585	n/e'	C unigo of	nia	2/6	n/a		N/a	Q1100mt	nte	nie		10.000	1.000	10.000		1.000	***				-
	Water Canally (DW)*		2/0		6.5-8.5		n/a	n'a	500	n/a	N/R	lus.	D/100mt	0/8	n/a	n/s	10,000	1,000	n/a	250	1,000	500	Na Na	nia nia	n/a	2.01
QUL-23	QUL23	2014 06 25	49.9	7.96	7.97	17,4	3.25	99	67	< 3	1,46		-		0.145	45	54,7	*1	199	< 0.5	34	5.81	44.4	nis.	< 0.001	4 0,002°
	QUL23X	2014 08 23	49.7	7.95	7.94	17.4	0.71	98.9	43	<3	1.92			-	0.151	4.5	54.7	61		< 0.5	35	3.8	44.5			< 0.002*
	CHICAGO R		1002300	1111219	10(4)3	A CONTRACTOR	128	HERE STREET	500 5 S	SHEET STATES	HISBORIAN INC.	BUTTER STOR	MISSINGUERO	EMISSION CATEGORIES	AISHIS COURSE	STREET STREET	FIRE OUTE	100000000000000000000000000000000000000	MANUAL PROPERTY.	PERMITTE	(ISHI) ALIENS	THE THE	SIMILAR STREET	HILD PHILI	< 0.001	TROPING TOTAL
	QUL-23	2014 06 27	49.1	8.03	7.90	10.0	7.06	58.5	72	3,7	2.09	-	-		0.121	< S	£2,4	<1	ALLEGE PARTIES	< 0.5	35	5.77	45	*	0.001	< 0.002°
	QUL-23	2014 08 26	50.1	7.59		18.2	0,31	28	65	<3	2.29		-		0.138	45	43.8	1	-	< 0.5	35	5.77	44.9	-	< 0.001	0,0026
	QUL-23	2014 08 28	49.2	5.16	7.85	19.8	0.56	37	63	<3	2.78				G 134	+5	45.8	<1		+05	34	5,77	45.5	-	< 0.001	4 0.602°
	QUL-23	2014 06 29	60.3	20.00	7.89	-	0.08	97.8	60	43	2.17	-			0.112	<5	30.8	41		400	35	5,04	44.8	-	4 0 001	< 0.002°
CUL-26	QUL-28-0M	2014 26 11	40	7,37	7.0	18.4	0.82	09.2	60	<3	2.87		-	-	0.132	<5	41	41	-	105	34	5,71	44.7	1	< 0.001	0.0021
	QUL-26-13M	2014 06 11	50.3	7.74	7.92	9.5	0.7	102	88	<3	2.15			-	0.179	< 5	106	41		< 0.5	34	5,66	40.9	-	< 0.001	< 0.002°
	OUL-26-24M	2014 06 11	63.2	7.50	7.92	5.0	98.0	109	69	×3	1,94				0.189	-6	137	41		< 0.5	38	8.19	48.2		× 0.001	< 0.000°
	QUL-26	2016 08 12	47.B	7.67	7.93	20.2	0.4	90.1	db	<3	2,21		-		0,141	45	45.3	41		< 0.5	38	5.58	44.7	Personal Principals	4 0.001	< 0.000°
	QUL-26	2014 08 13	48.5	1	7.87	20.5	0.77	101	66	<3	3.22		-		0.138	<5	€5	41	************	< 0.5	35	5,55	46.2	-	< 0.001	< 0.002*
	QUL-26-CM	2014 08 14	49.3	7.85	7,95	20.7	0.34	97.7	84	<b>€3</b>	2.29	Corne	and the same	A.E. A. B.	0.116	<5	32.1			< 0.5	36	5.81	43.9	5	< 0.001	0.0025
	QUL-26-12M	2014 08 14	52.3	7.63	7.97	12.1	7.07	103	79	12.5	1.0			-	0,134	<5	63.3	41		₹ 0.5	37	6.18	46.2		< 0.001	< 0.002°
	QUL-26-27M	2014 Of 14	56	7.66	7.98	4.7	4.14	1 110	74	5.7	2.02		-		0.174	15	143	41	-	405	38	0.48	49.0		< 0.001	0.0022
	QUL-26	2014 00 15	49.1	7.97	7 97	22.0	0.34	97	62	43	1.96		******	-	0.109	<5	39.5	41		• 0.5	36	5.03	432	the section	< 0.001	< 0.002*
	QUL-25	2014 08 16	49.8	8.00	7.98	20.4	0.25	95	58	43	2.13			-	0.114	< 5	42.2	41		+ 0.5	36	5.62	43.8	-	< 0.001	0.0023
	QUL-26-0M	2014 Oh 17	47.5	8.75	7.9	20.3	0.43	96.6	70	<3	2.47		-		0.146	<6	20.9	41	-	<0.5	35	5.61	442	-	< 0.001	< 0.002
	QUL-26-1285	2014 08 17	51.6	7,65	7,95	8,8	4,85	103	60	9.7	2.1		-	months and he to	0,176	<5	111	41	-	405	36	5.98	46.4	-	< 0.001	4 0.002°
	QUL-26-26M	2014 08 17	54.4	7.40	7.64	4.7	3.31	106	97	4.6	2.09	-	-	-	0.2	<\$	148	41	-	<0.5	37	0.38	49.2	-:-	< 0.001	4 0.002
	QUL-25-0M	2014 08 19	40.9	7.78	7,93	19.9	0.30	96.5	80	<3	200				0.116	*5	42.7	41		405	32	6.93	43.9	- 11000	< 0.001	4 0.002
	OUL-26-10M	2014 00 19	50.4	7 77	7.92	14.4	8.47	100	89	5.5	1.93		-		D.15	5.7	75.2	41	*	* 0.5	33	5.97	45.6		< 0.001	< 0.002*
	CM7-56-50W	2014 08 19	62.5	- Minney	7.03		0.66	107	69	0.2	1.92	- areat-more			0,179	<5	131	41		< 0.5	34	6.08	48,7		< 0.001	< 0.002
	QUL-28-0M	2014 3D 21	49.2	8.27	7.87	18.9	1,07	95.1	82	43	2.16				0,114	- 6 5	40.9	41		< 0.5	30	5.71	44,3		< 0.001	< 0.002°
QUL-28	QUL-28-OM	2014 08 21	49.3	7.50	7,82	17.5	0.53	101	60	43	2.32	-			0.134	45	34.5	41	-:	< 0.5	36	5.71	45,E	-	< 0.001	0.0026
201.20	QUL-25	2014 08 12	45.1	7.73	7.93	20.9	0.77	96.8	62	43	2.06				0.121	- 45	45.9	×1	-	₹ 0.5	37	5.55	44.8		< 0.001	< 0.002°
	QUL-28	2014 00 13	47.6	3410	7.03	21.1	0.45	88.7	62	*3	2.61		and the same of the same of		0.125	< 5	33.2	medicine.	-	< 0.5	34	5.63	44.8	A Avenue and the	< 0.001	< 0.002°
QUL-30	QUL-30	2014 08 97	45	7.24	7.99	20.4	1,92	95.4	63	< 3	1,85	261	<1	0.066	0.141	45	54,8	×1		= 0.5	33					
QUL-31	QUL-31	2014 08 07	47.5	5.20	7.07	21.0	0.6	95.6	55	43	2.08	130	- de la constante	0.117	0.144	×6	67.3			< 0.5	33	5.62	46.7	-1	< 6.001	< 0.002°
DUL-32	QUL-32	2014 08 DE	48.7	0.20	7.98	21.0	0.34	101	81	43	1,89	130		0.517	0.162	4.5	77,0	1.5	79.4	< 0.5	34	5.6			< 0.001	4 0.002
DUL-33	QUL-32	2014-08-06	49	-	7.55	20.D	0.32	90	63	43	1.9	-			0.129	<5	63.0						46		< 0.001	
DUL-34	QUL-34-6M	2014 08 13	47.2	1	7.97	20.2	0.31	97.8	62	< 2	2.03	-	remreti-	-	0.118	<5	50.5	<1	8.68	< 0.5	34	5.63	45,6	-	< 0.001	< 0.002°
QUL-36	QUL-35-3M	2014 08 14 2014 08 14	48.8	8.18	7.9	21.1	0.34	97.5	65	43	2.1			-	0.110	45	40.6	STATE OF THE PARTY NAMED IN		< 0.5	32		43,7		< 0.001	< 0.000
QUL-36	QUL-36-BM	3014 DS 14	48.4	80.6	7.95	18,0	0.29	67.3	60	43	2.05		on the state of	and the same of	0.12	<5	52.1	41		4 0.5	36	5.62	43.7	-	< 0.001	< 0.002°
QUL-37	QUL-37-0M	2014 00 15	49.1	8.13		20.1	0.27	90.9	66	43	1.77	-	-		0.103	4.5	45.7	41		< 0.5	35	5.66	443	-	0.0011	10002T
aur.	QUL-37-7N	2014 08 15	49	8.13		18.0	0.28	97	60	<3	1.72	-		-	0.113	45	58.9	41	-	€ 0.5	38	5.84	43.6		100.0	0.0021
	QUL-ST-TAP	2014 08 15	49.4	0.12	1.01	100	0.32		63	3.9	1.68	-			0.111	×5	80,6	41		< 0.5	35	5.87	43.7	-	< 0.001	8,0021
QUL-38	CUL-36	2014 08 18	48.4	7.11	7.97	18.3	0.35	97.5	50	43	2.44	48	41		0.156	5,3	40.0	es	-	< 0.5	34	5.64	43.9	-	< 0.001	< 0.002°
daran	QUL-38-2N	2014 08 26	502	7.93	7.94	17.8	9.71	100	82	43	2.1		-	-	0.128	×8	50	<1		< 0.5	35	5.78	45.1	-	< 0.001	< 0.002°
DUL-39	QUL-39	2014 08 18	49.8	7.84	7.0	18.1	0.46	96	71	×3	2.3	24	41	-	0.163	5.6	80.3	41		4 0.5	34	5.75	44	-	<0.001	4 0.002°
DMI-80	QUL-80	2014 08 18	49.4	7.70	7.97	15.3	0.84	97.0	190	43	2.43	27	51		0.165	5.8	72.A	41	-	< 0.5	34	5.71	84.3		<0.001	- 0.002°
30.00	QUL-60-3M	2014 00 26	49.0	7.91	7.94	17.4	0.78	100	US	13	223		-		0.131	*5	50.5	41	- :	< 0.5	34	5.70	45		4 0.001	< 0.002°
QUL-81	QUL-61	2014 08 18	49.2	7.70	7,97	12.9	0.54	97.9	66	e3	2.25	15	<1		0.154	0.8	79.3	41		< 0.5	34	5.75	44,6		< 0.001	< 0.002
ant-al	QUL-61-2M	2014 06 26	50.2	7.93	7.09	17.0	0.67	100	62	43	2.2	12	and the same	Til Provide	0.13	< 5	56.2	-		€ 0.5	34	5.78	44.7	1	< 0.001	< 0.002
QUL-63	QUL-62	2014 08 18	48.5	7.63	7.67	17.7	0.35	96.9	67	43	2.4	31	*		0.252	5.2	57.5	41		< 0.5	34	5.66	44	-	< 0.001	< 0.002°
QU1-83	QUL-63	2014 08 18	48.9	7.81	7.96	17.4	0.45	97.4	67	<3	2.31	53	3	Committee or other land	0.137	62	60.5	THE PERSON NAMED IN		× 35	34	5.0A	44		< 0.001	< 0.002°
QUL-84	00L-64	2014 06 18	48.1	7.80	7.47	18.3	0.29	56.9	70	4.3	2.37	36	2		D.\$36	57	48.2	and the same	0.0	< 0.5	34	5.65	44.1	-	< 0.001	< 0.002°
WOL-G	DU1-64-2M	1014 08 27	49.7	8.03	7.05	17.7	0.78	66	71	<3	2.14	- 20		· · · · · · · · · · · · · · · · · · ·	0.122	< 5	52,0	51	-	< 0.5	34	5.79	44.4	-		
QUL 45	QUL65-45M	2014 06 19	72.7	7.83		8.4	104	180	112	28.2	1.9				0,488	33.0	243	1.9	-	0.62	70	10,3	00.3	-	< 0.001	0,0021
Ant' Mi	/ACTOL-1086	T TA IM 20 13	FRIT	1 1100	1 4.81	0.9	194	104	116	10.5	1.42				1 CARD	34.9	243	6.36		0.02	141	10,0	50.3		< 0.001	< 0.002°

[150497, [1509974, [1509974, [1509974, [1509977, [1509977, [1509977], [1509984, [1509794, [150794, [150794], [150794, [150794], [150794], [150797]]]]] Liscolegy (1900/14 Liscolegy) (1900/14 Liscole

Concentration greater their BOWARI Agents Life (AW) guideline 1919 Concentration greater than DCWOG (almost Water (CM) godeline. [25] HANDED [25] Concentration greater than BOWOS Access Life (39day) (AW) quetainer

Concentration greater than or equal to Conscious Stanlery Water Quality (CW) pudal-ne

\* Health Canabic Utribing Weller Occadelies, 2012

\* Seedinday Entonic or collectivation and 30 day mean

\* Cadative for blies decided

\* Too staff alteraphics guidance for a measure of faller productivity and is beautiful. As storing develope at an arrings at summer semiglas and is not appreciate to angle semiglar results at this point in time.

\* Calculated believed in an incirculate seaso, list is surveyed of 30 day results.

<sup>\*</sup> satorizatory delection first out at cargo.

\* institute Columbus Appareurs Visial Capitary Culominge 2006 in classes, updated 2014,

\* A Champendian of Visionia (2006 on the Vision) Culombine for Distrib Childredia, updated August 2006,

\* Capitalisms various with pirt, another the

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

														,	Dissolve	d Melals				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			, ,		7			,	-	
Sumple occition	Sample ID	Sample Date (yyyy mm dd)	Disserved Aluminum (µg/L)	Disnotved Galcium (mp/L)	Dissolved fron (ag/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese gugili	Potessium (mg/L)	Bodam (mg/L)				Bary Huns			Stirozelum (Mg/L)				Lithium (pg/L)		Molybdorum (µg/L)	Nickel (agric)			TheMum (MS/L)	Titarehum (MEML)	Uranium gig/L)	Vanadium (up/L)	Ziv
Guldelines																									-			,		,
SCWQD Aquatic Li	We (AYV)**		100*	rua	350	rya	11/6,	n/e	ive	n/a	(V4	19/66	n/a	n/a	n/a	n/a	nik	esta	rvia	n/s	nia	n/a	1976	Ne	rela	n/a	rue	r/ra	TVN	n's
CWGS Aqualic LI	Pa (3Dilay) (AW)*-*		50°	rua	n/a	r/a	nia	n/a	rie	r/a	n/a	Ne	Nb	194	Ne	nh	n/a	n/a	n/a	n/a	n/a	n/a	TVA	N/a	rele	n/a	Ne	r/s	rva	n/a
BOWGO OWNERD V	Nater (DW)**		200	n/a	1946	200	n/a	n/a	n/a	nte	nie	n/s	n/a	TVID	IVa .	nia	nis	n/a	nva	n/a	ri/a	D/a	ग्रंथ	n/a	n/a	n/a	n's	ti/s.	nie	nis
	Water Quality (DW)*		rva.	nia.	n/e.	n'e	F1/4	n/a	n/a	nia	N/q	n/s	N/A	rya	5/3	nia	74%	n/a	N/a	n/a	his	n/a	nie	r/a	(tVa)	is/a	N/e	n/s	N/s	nie
QUL-23	QULZ3	2014 08 25	11.5	16.8	< 30	1.91	1.57	0.466	0.831	< 0.1	0,11	5.7	< 0.1	410	10,0 >	< 0.5	CQ1		< 0.05			0.283	×0.5	< 0.5	< 0.01		< 10	0,138	41	×3
	OUL23X	2014 08 25	10,1	16.8	4 30	1.9	0.939	0.454	0.832	< 0.1	0.1	5.59	× Q.1	× 10	< 0.01	€ 0.5	1 < 0.1		4 0.05		-	0.268	×0.5	< 0.5	4 0.01	10,0 =	< 10	0.137	<1	× 3
	S OCIAGO	PONSE	维细胞排		信用為信息	問題為政治	13	<b>计算图图 利用</b>	创出关键			100	775 PARE	100002	沿岸部和島	TERRITOR .	क्षातमा		Minist	聯稅時和	Line Ball	STOLEN STOLE	HULTER	THE HAM	排除類	RESIDES	manage	的民主的	DESCRIPTION OF THE PERSON NAMED IN	a begge
	QUL23	3014 08 27	10.7	16.5	< 30	1,92	1.05	0.453	0.861	< 0.1	0.11	5,33	<0.1	< 10	< 0.01	< 0.5	€ 0.1		< 6.05	0,7	4	0.263	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0,137	41	43
	QUL-25	2014 08 26	9.0	16.9	< 3/0	1.91	3,67	0.49	66.0	< 0.1	< 0.1	5.94	< 0.1	< 10	< 0.01	= 0.6	< 0.1	0,68	< 0.05	0.62		0.238	< 0.5	< 0.5	< 0,01	< 0.01	× 10	0.128	<1	×2
	QUL-23	2014 08 28	102	16.5	< 30	1.93	0.6	0.47	0.839	- 0.1	0.12	5,30	× 0.1	< 10	0.013	< 0.5	€ 0,1	0.57	< 0.05	< 0.5	- 11	0,305	<0.5	< 0.5	< 0.01	< 0.01	< 10	0,145	*1	×3
	QUL-23	2014 38 29	9.8	18.0	< 30	1,95	3.6	0.494	0.848	< 0.1	0.12	5.92	< 0.1	4 10	< 0.01	< 0.6	<0.1	0.71	< 0.05	0,53		0.793	< 0.5	< 0.5	< 0,01	-	< 10	0.13		43
CUL-25	OUL-26-0M	2014 06 11	15,3	16.5	< 30	1.89	4,79	0.541	0.846	40.1	0.12	6.05	<0.1	< 10	< 0.D1	405	40.1	0.64	< 0.06	1.02		0.303	< 0.5	< 0.5	< 0.01	< 0.01	× 10	0.12 0.13t	51	43
	QUIL-26-13M	2014 08 11	0.6	17	4 3/0	1.93	0.226	0.486	0.856	< 0.1	<01	5.18	× 0.4	* 10	€ 0.01	< 0.5	401	< 0.5	< 0.05	1.01	SAIdeman & Colombia	0.202					< 10	0.143		
	OLR-26-24M	2014 08 11	5.7	17.0	< 30	2.03	0.677	0.401	0.911	*01	011	5.19	< 0.1	e 10	< 0.01 < 0.01	405	< 0.1	< 0.5 0.61	< 0.05	0.71		0.264	× 0.5	< 0.5	< 0.01 < 0.01	< 0.01	4 10	0.143	41	4
	QUL-26	2014 08 12	10.6	16,1	< 36	1.87	0.554	0.490	0.850	4 0,1	-	5.42					<0.1				***********		405	< 0.5	× 0.01		< 10	0.12	41	4
	QUL-26	2014 08 13	- 11	16.3	< 30	1.97	10.4	0.598	0.842	< 0.1	0.15	7,05	< 0.1	4 10	4 0.01	< 0.5		6.6	< 0.05	1.07	-	0.33	×05		< 0.01		< 10	0.130		-
	QUL-26-DM	2014 08 14	112	16.6	< 30	1.93	2.64	0.509	0.837	< 0.1	0.1	5.61	< 0.1	< 10	< 0.01	< 0.5	₹0.1	< 0.5	< 6.05	0.67				< 0.6		< 0.01	Street Steel Selver	Daniel School at the S	41	Train.
	GUL-26-12M	2014 08 14	11.7	17.8	4 30	1.93	5.07	0.483	0.878	< 0.1	011	8.11	< 0.1	e 10	< 0.01	<05	<01	2.82	< 0.05	0.71		0.404	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.145	41	1
	OUL-26-27M	2014 08 14	5.3	19	< 30	21	8.77	0.476	0.952	× 0.1	0.13	B.14	< 0.1	= 10	< 0.01	105	<0.1	1,03	< 0.06	0.05	-	0.375	< 0.5	< 0.5	4 0.01		× 10	0.136	41	1
	QUL-26	2014 08 15	10.2	16.5	< 30	1.92	0010	0.476	0.824	+ 0.1	0.12	5.94	< 0.1	< 10	< 0.01	-05	×0.1	0.51	< 0.05	€ 0.5	-	0.339	<05	< 0.5	< 0.01	< 0.01	4 10	0.125	*1	
	QUL-26	2014 08 16	10.2	16.4	< 30	1.0	3.09	0.476	0.816	< 0.1	0.12	5.4B 5.83	<0.1	< 10	4 0.01	< 0.5	< 0.1	0.52	< 0.05	0.72	-	0.258	< 0.5	40.5	×0.01		< 10	0.118	«1	43
	OUL-26-0M	2014 08 17	1.7	17.4	< 30	1.88 1.96	1.5	0.516	0.84	40.1	<0.1	6,02	< 0.1	< 10	< 0.01	< 0.5	<0.1	1.33	< 0.05		-	9.28	<05	< 0.5	< 0.01	THE PARTY OF STREET	< 10	0.130	<1	K3
	OUL-26-13M	2014 0B 17 2014 0B 17	5.1	18.3	< 30	2.09	4,49	0.482	0.935	< 0.1	D.11	5.72	< 0.1	< 10	4 0,01	< 9.5	< 0.1	1.01	< 0.05		-	0.348	4 0.5	< 0.5	< 0.01	-	4 10	0,181	<1	×3
	QUL-26-26M	THE CONTRACTOR STREET, NAME AND POST OFFI	ARREST LABOUR.		< 30	1.69	0.457	0.464	0.818	× 0.1	< 5.1	5.16	* 0.1	E 10	< 0.01	< 0.5	<01	* D.5	< 0.05	0.71		0.291	< 0.5	< 0.5	< 0.01		< 10	0.135	51	K3
	ONT-SE-OM	2014 08 19	10.3	17.1	< 30		-	the same of the same of	SHITTED PRINTED	The section of the least	0.11	7,32	* 0.1	ALC: U.S.	< 0.01	- 0.5	< 0.1	2.21	* 0.05		-	0.402	* 0.5	< 0.5	< 0.01	<0.01	4 10	0.143	41	4
	QUL-26-10M	2014 08 19	10.9		< 30	2.04	3.66	0.476	0.023	<0.1	0.11	8.14	< 0.1	< 10	< 0.01	< 0.6	<0.1	1,27	< 0.05			0.324	< 0.5	< 0.5	* 0.01		< 10	0.142	41	1
	DUL-20-20M	2014 DB 19 2014 DB 21	5.6	17.6	< 30	1,91	1,47	0.467	0.83	< 0.7	D.12	5,59	< 0.5	× 10	< 0.01	< 0.5	< 0.1	0.79	× 0.05	SALESSAN SALISAN	***********	0.312	405	< 0.6	* D.01		* 10	0.138	41	143
OIL SE	OHIL-26-0M	2014 08 11	11.4	16.0	< 30	1,91	7,17	0.531	0.843	< 0.1	0.12	6.0B	< 0.1	< 10	< 0,01	400	< 0.1	0.56	< 0.05		-	0.256	<05	4 0.5	< 0.01		4 10	0.129	41	K.3
QUL-28	QUL-28-OM			16.2	< 30	1,88	2.50	0.465	28.0	4 0,3	0.11	5,73	< 0.1	< 10	< 0.01	* 0.5	* D 1	0.56	4 0.05		-	0.312	*0.5	< 0.5	* 0.01		< 10	G.137	<1	× 5
	QUL-28	2014 GB 12 2014 GB 13	11.1	15.8	< 3/0	1,9	2.4	0.508	0.846	*01	014	5.63	×0.1	4 10	4 0.01	< 0.5	< 01	0.52	× 0.05	0.07	-	0.308	<05	< 0.5	< 0.01		< 10	0.123	41	43
ALC: 55	QUL-28	2014 0B 07	11.5	16.6	< 30	1.84	0.412	0.48	0.781	₹ 0.1	< 0.1	4.74	= 0.1	< 10	< 0.01	< 0.5	× 0.1	4 0.5	- 0.05	0.74	< 0.05	0.252	× 0.5	< 0.5	4 0.01		× 10	0.147	*1	×:
QUL-3D	QUL-31	2014 DB 07	11.4	15.9	< 30	1,89	0.789	0.485	0.837	40.1	0.12	5,10	< 0.1	< 10	× 0.01	105	401	* D.6	4 0.05		< 0.05	9.211	< 0.5	105	× 0.01		< 10	0.133	41	1
GUL-31					× 30	1.85	0.765	0,454	0.853	* O.1	€ 0.1	4.06	< 0.1	5 10	4 0.01	405	= 0.1	< 0.5	4 0.05	0.7	< 0.05	0.253	< D.5	< 0.5		< 0.01	< 10	0.142	41	1
On1-35	QUL-33	2014 09 96	10.9	16.6	< 30	1,84	0.237	0.434	0.767	< 0.1	< 0.1	4.61	< 0.1	4 10	4 0.01	+ 0.5	< 0.1	* D.5	× 0.05		< 0.05	0.225	405	< 0.5	< 0.01		< 10	0.14	<1	4
QUL-34	QUL-34-6M	2014 08 13	10.8	15.9	< 30	1.84	0.13	0.456	0.826	* 0,1	< 0.1	5.23	€ 0.1	* 10	< 0.01	-05	4 0.1	<0.5	< 0.05	0.74	-0.00	0.31	105	< 0.5	4 9.01		< 10	0.141	51	0
	QUL-35-3W	2014 08 14	11.1	18.4	4 30	1,91	0.547	0.486	0.658	× 0.3	0.11	5.37	< 0.1	* 10	< 0.01	× 0.5	<0.1	0.54	4 0.05			0.314	<05	<0.5	< 5.01		× 10	0.124	41	1
QUL-35	QUI-36-AV	2014 08 14	11.4	16.3	< 30	1.86	0.203	0.472	0.818	€ 0,1	0.11	5.2	×0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05			0.268	< 0.5	<05	40.01		< 10	0.126	<1	
QUL-37	QUL-37-0M	2014 08 15	10.3	16.6	4 30	1,86	0.27	0.456	0.808	40,1	101	5.05	10.1	< 10	< 0.01	< 0.B	< 0.1			Section and the second	-	0.29	< 0.5	< 0.5	< 0.03		< 10	0.138	41	-
001-31	QUL-37-7M	2014 0B 15	10.2	10.0	< 30	1,86	0,233	0,459	0.605	< 0.1	0.1	5.01	< 0.1	5 10	< 0.01	< 0.5	401		× 0.05		-	0.27	< 0.5	< 0.5		< 0.01	< 10	0.135	41	-
	OUL-37-TAP	2014 08 15	10.7	16,7	4 30	1,57	0.145	0.451	0.799	40,1	0.11		€ 0.1	< 10	< 0.01	408	4 0.1			-	-	0.302	< 0.5	< 0.5		< 0.01	4 10	0.143	<1	1
QUL-38	QUL-36	2014 08 18	9.8	16,2	< 30	1.9	0.386	0.462	0.822	× 0,5	0.11	5.28	×0.1	4 10	< 0.01	-05	<0.1		₹ 0.05		-	0.292	< 0.5	< 0.5		< 0.01	« 10	0.132	61	1
401.20	QUL-38-2M	2014 08 26	0.0	10.0	4 30	1.92	0.798	9,453	0.825	< 0.1	0.12	5,47	×0.5	× 10	< 0.01	= 0.5	< 0.1	0.90	< 0.05		-	0.301	< 0.5	< 0.5	5 D.01		4 10	0.129	41	1
QUL-30	CRU1-36	2014 08 18	60	16.0	<30	1.01	0,271	0.446	0.83	< 0.1	< 0.1	4.66	< 0.5	< 10	< 0.01	< 0.5	< 0.1	* D.5	< 0.05	0.79	-	0.262	< 05	< 0,5	< 0.01	BASE A CAME TO SE	< 10	D.137	45	E 3
QUL-60	CANT-90	2014 08 18	10.7	10.0	< 30	1.91	0.529	0.450	0.815	* 0.1	9.5	5.27	×0.1	*10	< 0.01	195	< 0.1	0.83	₹ 0.05	Contract to the Party		0.277	105	< 0.5	« D.05		< 10	0.134	<1	1
400-00	QUL-5D-3M	2014 08 26	10	18.0	< 30	1.91	0.847	0,452	0.806	€ 0.1	0.1	5.52	× 0.1	× 10	< 0.01	< 0.5	₹ 0,1	1.07	< 0,05			0.298	× 0.5	< 0.5	< 0.01	* 0.01	< 10	0.13	41	×
QU(-61	OUL-81	2014 08 18	10	10.0	< 30	1.59	0.412	0.456	0.818	4 0.1	D.1	5.22	× 0.1	* 10	< 0.01	* 0.5	< 0.1	0.57	< 0.05		-	0,269	* D.5	< 0.5	× 0.01		× 10	0,134	41	1
MUL-91	QUL-fit-2M	2014 08 26	10.5	17	4 30	1.02	0.000	2,463	0.03	401	0.11	5.47	+0.1	< 10	4 0.01	< 0.5	<0.1	1.01	< 0.05		-	0.293	105	< 0.5	4 0.03	< 0.01	× 10	D.133	41	4
DUC-62	CNJL-62	2014 08 18	8.4	18.3	× 30	1.68	0.328	0.458	0,816	* Q.1	0.11	5,23	× Q.1	4 10	< 0.01	405	* 0.1	0,51	< 0.05	CONTRACTOR OF REAL		0.287	1 . 05	× 0.5	* D.D1	< 0.01	< 10	0.137	**	-
	QUL-83	2014 08 18	12.6	16.4	430	1.9	0.503	0.45	0.82	401	0.11	5.39	×0.1	+ 10	€ 0.01	< 0.5	₹G1	0.53	< 0.05		1	0.285	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.135	41	1
QUL-83	QUL-84	2014 08 18	10.5	98.2	< 30	1,89	0.503	0.45	0.02	< 0.1	0.11	5.2k	<0.1	4 10	< 0.01	+ 0.5	<0.1	0.50	4 0.05		(non) brees	0.292	< 0.5	< 0.5	4 0.01	< 0.01	< 10	0.13	41	1
QUL-64	QUL-64-2M	2014 08 12	9.5	15.6	< 30	1.92	0,903	0,403	0.836	< 0,1	< 0.1	5,55	× 0.1	× 10		< 0.5	< 0.1		< 0.05			0.304	4 D.S		4 0.01		× 10	D 136	<1	1
QU: 45	QU1.65-45.4	2014 08 19	14.8	24.6	+ 30	2.75	113	1.07	3.7)		0.84				0.014	< 0.5		4.89				8.12	< 0.5			< 0.01	< 10	0,718	41	5.5
AACA5	00100-04	WALL DO 19	17.0	1000	42	Bal of	1.0	7,000	2077	4,44	244	L KIP (6)	1 70	-immercial	1 60014	7 9.0	- 4-1			2,24		Ant C		4.44		- 6/4/		1 m	deres conce	name.

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Concentration greater than BCWGS Advance Life (AM) guidaline Gurcanization greater than BOWQU Drinsing Wotor (LW) gardeline Current ration greater than or secol in Cenarism Denlong Water Guelly (DW) guidable.

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<sup>\*</sup> Laturahuy shelashuri herri uut of eurge.

\* Beren Columbia Applissed Willia Guilely Guidelines 2006 kisilom, updeten 2014.

\* Companishm of Westerg Wilder Caselly Guidelines to Tubbis Guidelines 2014.

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<sup>\*</sup> Feedell Clandon (Threshing Winter Cuclebray 2015): \* Security of the Security of Albande and Albander of Albander and Albander of Alband

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

				,	-							_			_			Yound Med	tajs														
Sample	Sarrate	Sample Date	Pilari mare	Anthrony	Acaunto	Bartern	Beryllin	Manuath	Boren	Cadmium	Calokan	Chromitim	Cobalt	Conper	Ires	Lead	Lithiana	Magnesium	Mangenese	Mercuni	Malybdenum	Nichel	Potassium	Selenium	Silicen	Ellowr	lotium	The (thron	T-jus	Therium	Ozoniani	Vanadlum	20nc
Location	D	(yyyy min dat)						(MEAL)			heath						Supri.3		(typ/L)	(Applic)	Quel.5	(Appli)	(up(L)	(Hart)							(upfL)		
Guidelines						night																											
SCWQG Aquetto U	He (AW)**		n/a	20		5,000	n/h	n/a	1,200	0.016-0.036	rvia.	1 (Cr(+6))	110	6.042	1,000	27.3-57.7	870	n/a	1,000,6-	Reserved Projectory	2,000	25-65"	373,009- 432,006	22	role	0.1"	17/8	0,3	P9/80	2,000	300	. 6_	331
CWGG Aquatic U	89 (30dey) (AW) <sup>1,ph</sup>		rire	n/a	Na	1,000	9.3	N/a	n/e	n/a	s/a	n/a	4	2-31	rula	4.4-5.5	14	a/a	781,1-840*	BIGSION IN	1,000	n/a	14/1	ryte	Pe/a	0.054	n/a	n/a	nie	n/a	nia	nia	7.50
BOWGO Drividing V	Water (DW)		n/e	94	25	p/g	4	nh	5,000	n/a	6/8	n/a	n/e	800	ción	50	nia	n/a	760	3	290	p/a	ru/s.	10	nte	שנת	refer	2	m/a	nie	n/a	aria	5,000
Carredian Drinking	Water Quality (DM)*		100	-	10	1,000	26	17/9	5,000	5	明機	ió	FIA	1,000	300	10	arries .	1940	60	1 1	ryn,	:Wa	AM	10	PATE	nie	200,686	0/0	n/e	nia	20	NE	5.000
QUL-Z3	CIVI.29	2014 06 25	64.7	< 0,1	0,13	0.24	€ 0.1	< 0.5	< 10	< 0.01	16,700	< 0.6	< 0,9	批判3	67	< 0,05	< 0.5	1,910	3.02	1 -	0.357	= 0.5	467	€ 0.5	1,630	< 0,01	846	< 0.01	< 0.1	< 10	0,147	41	e3
	QUL23X	2014 95 25	47.5	₹0.1	0,14			€ 0.5	< 40	< 0.01	18,900	< 0.8	< 0.1	1.0	30	4 0.0%	< 0.5	1,930	2.44	-	0.336	< 0.5	478	< 0.5	1,630	< 3.01	890	€ 0,01	< 0.1	< 10 €	0.147	<1	43
	部部 単一に デ	]点:从:数据图记记	528)(A.U.))(b	THE CONTRACTOR OF THE CONTRACT	10000	With the second second	部所明的	CURRENCE	辨為學	自由的自由的	STATE FEET	病脱灰原	配供品到	対日をおれ	编编	排除消耗	249,846		S BROKE BRIEF	i distribiti	探索(項 对称)	音四次病	品的品 我说	10000000000000000000000000000000000000	部消耗	自由資訊	到侵稅	हास्ताम	111111111111	出版目现	RIVE THE	and the same	计级线
	QUIL-23	2014 06 27	736	= 0.1	0,15		€0,1	< 0.5		< 0.01	16,600	< 0,6	<0.1		135	0.051	0.77	1,970	5,5	< 0.01	0.336	=0.5	487	× 0.5	1,780	= 0.01	965	< D.01		< 10	0.148	<1	<3
	QUL-29	2014 CB 26	66.4	< 0.1	0,14		€0,1	< 0.5	< 10	4-0.01	15,200	< 0,0	< 0.1			< 0.05	0.57	1,880	4.33	< 0.01	0.311	< 0,6	467	< 0.5	1,570	4 0.01	803	4 D.01	<0,3	< 10	0.133	41	< 3
	QUL-23	2014 58 28	22.5	401	0.16	5.75	< 0.1	4 0.5	< 10	< 0.05°	16,700	105	€0.1		< 30	< 0.05	< 0.5	1,000	1.48	< 0.01	0,373	4 2.5	488	40.8	1,590	4 6.51	842	0.027	<0.5	< 10	0.167	<1	43
	OUL-S3	2014 56 39	48.3	€0.1	0.17	6.56	< 0.1	< 0.5	< 10	4 0.01	16,700	< 0.5	< 0.1		54	< 0,05	< 0.5	1,040	5,24	< 0.01	0.302	42,8	906	< 0.8	1,660	40.01	806	4 0.01	40.1	× 10	0.133	41	43
QUL-25	CONT-38-GRI	2014 06 11	28.1	+ 0.1	0,14		< 0.1	× 0.6	~ 10	< 0.01	18,400		< 0,1	****	4 30	< 0,05	0.91	1,010	427	< 0,000	0.332	< 0.5	630	< 0.5	1.970	< 0.04	W61				0.132	e4	43
	QUL-28-13M	2014 06 11	30.8	€0.1	0.51	5.48	< 0.1	≠ 0.5	< 10	4 0.01	17,800	<05	« 0.1	1	« 30	< 0.06	D/80	2,000	1.41	4 0.06	0.301	< 0.5	442	< 0.8	1,670	< 0.01	arı	0.014	40.1	< 10	0,781	<4	<3
	QUL-26-24M	2014 (0 11	41.7	< 0.1	0.54		40.1	< 0.5	« 10	4 0.01	18,100	<0.5	< 0.1	12	30	< 0.05	0.07	2.000	2.31	- 0.06	0.300	4 0.5	500	< 0.6	1,740	< 0.01	#23	< 0.01	< 0.1	a 10	0.164	41	43
	QUL-20	2014 06 12	20,4	< 0.1	0.14		< 0.1	40.5	< 10	10.01	19,400	< 0.5	< 0.1	0.00	< 30	40,05	0.76	1,930	2.33	1 × 0.05	0.338	8.6 P	515	< 0.5	1,820	< 0.01	880	< 0.01	< 0.1	4 10	0,139	1 44	43
	QUEST	2014 08 13	20.2	40.1	0.17	7,10	< 0.1	405	4 90	4 0.01	19,900	< 0.5	< 0.1		-41	< 0.06	0.04	1,980	n <sub>4</sub>	= 0.06	0.340	< 0.6	416	<0.5	1,850	< 0.01	888	< 0.01	< 0.1	4 10	0.123	<b>c1</b>	<3
	CUL-29-0M	2014 08 14	16.9	< 0.1	0.12	5.72	< 0.1	< □.\$	< 10	< 0.01	18,200	<0.5	< 0.1	0.67	< 30	< 0,05	0.75	1,900	3.7	< 0.05	0.328	< 0.5	509	< 0.5	1,610	= 0.01	854	< 0.01	<0.1	4 10	0.132	<1	<3
	QUL-26-12M	2014 DB 14	461	< 0.1	0.37	16.6	< 0.1	< 0.8	< 10	< 0.01	17,900	40.5	0.42		E30	0.146	warmen week		21,5		DAG	0.00	697	< 0.5	3,170	< 0.01	990	< 0.01	<0.1	43	0,171	1.0	3.6
	QUL-24-27M	2014 08 14	343	< 0.1	0.13		< 0.1	40.6		< 0,01	16,800	= 0.5	0.10				0.64	2.230	17.1	< 0.06	D.406	0.61	8D1	< D.5	2,470		1,030	< 0.01	401	18	0.141	41	< 3
	QUL-26	2014 08 16	16.3	<0.1	0.12		< 0.1	< 0.6	< 10 < 10	< 0.01 < 0.01	16,100	< 0.5	401		< 30	< 0.05	< 0.5	1,800	1.56	< 0.05	0.326	< 0.5	470	4 0.5	1,616	< 0.01	811	<0.01	<0.1	< 10	0.138	41	< 3
		3014 08 17	20.1	<0.1	0.13		40.1	< 0.5	< 10	< 0.01	15,800	< 0.5	401		< 30	< 0.05	0.73	1,860	3.46	< 0.05	0.303	4 D.B	618	< 0.5	1,540	< 0.01		< 0.01	< 0.1			<1	43
	CUL-26-12M	2014 08 17	317	< 0.1	0.25	10.4	< 0.1	<0.5	410	< 0.01	17,300	< 0.5			252	0.142	1	2,000	9.72	< 0.06	0.304	0.54	574	< 0.5	2,760	<0.01	830	< 0.01	< 0.1	× (t)	0.16	1.1	= 3
		2014 06 17		401		8,48	< 0.1	< 0.5	4 10	< 0.01	18,300	<0.5	0.12			0.064	1,91	2,180	0.72	< 0.05	0.325	< 0.5	562	4 0.5	2,190	< 0.01	\$85	< 0.01	-				_
	QU1-24-38M		271	40.1	0.2		< 0.1	< 0.5	< 10	< 0.01	18.400	40.5	4 0.1			< 0.06	0.88	1,900	1.07	4 0.03		< 0.8	483						₹ 0.1	13	0.173	41	43
	QUL-26-0M	2014 08 19	State information associated in					Pullet And Service A						THE ST	< 30				THE RESERVE AND ADDRESS.	+	0.318			< 0.6	1.540	<0.01	880	< 0.01	< 0.1	4 10	0.133		<3
	QUL-26-10M	2014 08 18	245	< 0.1	0.21	10.3	< 0.1	< 0.5	< 10	10.0 >	17,000	< 0.5	0,17		213	0.181	1.05	2,010	0.38	· · · · · · · · · · · · · · · · · · ·	0.364	0.53	566	<05	2,040	< 0.01	135	4 0.01	< 0.1	14	0.156	<1	< 3
	QU1-26-30M	2014 06 19	365	< 0,1	0.29	9.44	<01	<0.5	< 10	< 0.01	18,400	< 0.5	<0.1		230	0.176	0,77	2,240	12.5	< 0,06	0.325	1.01	800	< 0.5	2,470	(0,0)	982	< 0,01	< 0,1	28	0.102	1.2	<3
QUL-28	CNIL-28-OM	2014 08 31	70.7	< 0.1			40.1	< 0.5	4 90	< 0.01	14,200	< 0.6	<0.1		4 30	< 0.05	0.77	1,970	9.7	4 0.05	0.305	0.52	485 542	< 0.5	1,700		883	< 0.01	×0.1		0.143	41	<3
FIG. 128			51.3	₹0.1	Q.14	0.32	40,1	<0.5	4 10	< 0.01	14,500	< 2.5	401	1.88	_	< 0.05	0.84	1,800	4.5	< 0.06	0.30	< 0.5	807	40.5	1,689	< 0.01	574	< 0.01	_	< 10 < 10	D.120	41	<3
	QUL-26	2014 08 12			0.18	6.16	< 0.1		< 10	A COMPANY OF SAME PARKS.	14,400	< 0.5	<0.1	0.86	4 30	< 0.05	0.86	1,050	4.82	40.05	0.398		630		1,640	< 0.01			< 0.1		0.132	41	43
ANI 40	QUL-30	2014 08 13	22.2	< 0.1	0.12	8.08	< 0.1	< 0.5	< 10	< 0.013	17,300	< 0.5	*Q1	< 0.5	65	4 0.05	0.77	1,940	2.33	< 0.05	0.246	< 0.5	476	40.5	1,680	< 0.01	807	+ 0.01 + 0.01	< 0.1	< 10			43
901-10	QUL-01	2014 06 07	45.A 20.8	40.1	0.14		40,1	<0.5	< 10	* G.C1	16,200	40.5	<05		48	< 0.05	0.61	1,870	2.77	< 0.06	0,326	< 0.6	491	< 0.6	1,660	< 0.01	867	< 0.01	4 D.1	< 10	0.136	41	43
QUL-32	QUE-32	2014 06 09	81	40.1	0.12		40.1	< 0.3	< 10	* 0.01	17,400	<0.5	<0.1		87	< 0.05	0.43	2,010	2.8	< 0.08	0,256	+ 0,5		4 0.5	1,84D	< 0.01	1,000	< 0.01	4 D.1		0.155	1 41	43
GUL-33	QUL-33	2014 08 06	15.2	€0.1	0.1	4.81	<0.1	<0.5	< 10	< 0.01	17,000	< 0.6	< 0.1		< 30	< 0.08	0.66	1,950	0.075	< 0.06	0.238	40B	444	< 0.5	1,800	< 0.01	790	< 0.01	< 0.1		0.147	<1	< 3
QUL-34	QUL-34-6NI	2014 08 13	15.5	×0.1	0,14	5.33	4 0.1	< 0.6	< 10	< 0.01	15,800	< 0.5	< 0.1	0.67	< 30	< 0.00	+0,6	1,830	1,22	< 0.05	0.292	<0.5	458	< 0.5	1,530	< 0.01	851	4 0.01	=0.1	< 10	0.13	41	<3
CIUL-36	QUL-25-364	2014 08 14	17.2	<0.1	0.14	5.53	€0.1	< 0.5	< 10	< 0.01	18,300	< 0.5	<0.1		< 30	40.05	D.498	1,910	1,55	- 4000	0.371	< 0.5	400	< 0.5	1,640	10.0 >	878	< 0.01	<0.1	< 10	0.137	<1	×3
QUL30	QUE-38-6M	2014 08 14	15.5	<0.1	0.13	5.3	< 0.1	< 0.5	4 10	< 0.01	18,100	<0.5	€0.1		4 30	<0.05	0.00	1,860	124	- 101111	0.312	< 0.5	461	40.5	1,570	<0.01	831	< 0.01	401		0.130	-	42
QUL37	DUL-37-0M	2014 00 15	15	< 0,1	0.11		= 0,1	< 0.5	4 10	< 0.01	18,400		<0.1		× 30		40.5	1,860	1.00	1	0,250	< 0,5	450	< 0.5	1,530		619	4 6.01			0.143	41	13
denai	QUL-37-7M	2014 08 15		# 0,1	0,12		< 5.1	< 0.5	4 10	< 0.05	16,200		< 0.1		4 30	< 0.06	40.5		1,18	1	0,306	405	456	405	1,530		795				D.141	71	43
	QUL-37-YAP	2014 08 15	18	40.1	0.13		< 0.1	<0.5	< 10	₹0.01	19.700		< 0.1			0.350	< 0.5		0,786	1	0.308	1 < 0.5	472	4 0.0	1,550	< 0.01	815				0.14	<1	8.4
QUL-34	QUL-38	2014 08 18	17.7	< 0.1	0,12		4 0.1	< 0.6	< 10	≠0.01	18,200	< 0.5	< 0.1		< 30		0,76	1,930	1.22	1	0,302	< 0.5	480	< 0.6	1,580	< 0.01	854	- 0.01			0.142	e1	×3
	QUL-36-2M	2014 08 26	43.5	< 0.1	0.13		< 0.1	< 0.5	< 10	< 0.01	16.000	× 0.5	4 0.8		32	< 0.05	0.51	1.930	2.02	1 < 0.01	0.310	40.6	473	< 0.5	1,580	< 0.01	800	« 0.01	< 0.1	< 10	0.141	41	43
CUL-36	QUE-39	3014 08 18	23.4	< 0.1	0.11		481	< 0.5	× 10	< 0.01	18,300	< 0.5	< 6.1		< 30	4	0.72	1,870	1,14		0,265	405	481	€ 0.5	1,540	< 0.01	832	€ 0.01	< 0.1	< 10	0.147	61	43
QUL-00	GUL-60	2014 06 18	34.6	< 0.1	6.12	-	< 0.1	< 0.5	4 10	<0.01	16,400	40.5	40.1	A DESTRUCTION OF THE PARTY NAMED IN	= 30	< 0.06	0.76	1,800	1.76		0,360	<05	473	< 0.5	1,500	< 0.01	848	< 0.01	<0.1	< 10	0.148	<1	43
	QUL-ED-3M	2014 08 28	44	48.1	0,12		€ 0,1	< 0.5	× 10	< 0.01	18,600	<0.5	40.1		34	< 0.05	40.5	1.800	2.15	= 0,01	0.334	<20	473	40,5	1,500	40.01	850	< 0.01	4 D.1		0,136	41	43
QUL-81	QUL-61	2014 08 18	33.6	₹0.1	0.12		< 0.1	< 0.5	× 10	< 0.01	16,300	+0.5	+0.1		4 30	< 0.95	0.78	1,860	1,52	-	0,200	< 0.6	468	< 0.5	1,570	= 0.01	632	4 0.01	<0.1	< 10	0.141	41	+3
	QUL-81-218	2014 08 20	40.3	< 0.1	0 14		40.1	< 0.5	4 10	< 0.01	17,100	< 0.6	40.1	1.83	33	€ D.05	0,83	1,080	2,14	4 0.01	0.329	405	472	< 0.5	1,610	4 0.01	853	4 0.01	<0.1	< 10	0.143	<1	43
QUL-62	QUL-82	2014 06 18	10.5	< 0.9	0.13		< 0.1	40.5	4 10	< 0.03	16,100	<0.5	40.1		< 30	< 0.05	0.67	1,880	1.32		0.397	< 0.5	463	4 0.5	1,940	4 0.01	834	€ 0.01			0.143	*1	43
QUL-03	QUL-III	2014 08 18	21.8	<0.5	0.12		< 0.1	< 0.5	« 10	= 0.01	18,000	≠0.5	< 0.1	49	₹30	≠ 0.0%	0.40	1,880	1.66	a stresserium.	0.267	< 0.5	458	× 0.5	1,560	< 0.01	824	< 0.01	< 0.1	< 10	0.145	«.1	43
QULAN	QULM	2014 56 18	10.4	+01	0.12		< 0.1	40.5	< 10	< 0.05	16,100		< 0.1		< 30	< 0.05	0.82	1.880	1.21		0.305	-05	461	1405	1.570	= 0.01	048	4 0.01	<0.1	< 10	B.14	41	43
4	QUL-64-2M	2014 00 27	36.7	< 0.1	0.14			<0.5	< 10	< 0.01	16,500		< 0.1		< 30	< 0.05	0.62	1,910	2.07	1 4 0.01	0.315	< 0.5	467	1 4 0.5	1,950	4 0,01	879	4 0,04		4 10	0.142	<1	< 3
QUIL-85	CINTRO-SIM	2014 26 19				115		4 0,5	× 10			图 * 理					2.07	4.120	196	1	4.18	2.44			11,700			0.015			0.005	<b>建机 KI</b> II	1113

- Readable All Plans L, Heiselds, L, Heiseld

Concentration greater than BCARGO Argustic Life (AW) guidable BOLD Conveniention greater then DCV/CG Dravking Water (DAY) guideline. Concentration greater then BCWQC Aguett. Life (30asy) (AW) guidaline. 2010 Consentration (sector than or equal to Consider Drinking Water Clustry (DW) guideline.

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All terms defined sorble the looks of SPIC-Laveline report (predicts) upon research.

- Demands deficulateloss long it per indibated absorbles based in RPO face if my respected value.

<sup>·</sup> Denulus analysis not carebided.

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Hittish Columbia Applicated Water Quality Gustalimia 2008 Editori, lepidated 2014.

A Cumpannitum of Warring Water Duality Qualetimas for Dritish Gottmide, lepidated August 2016.

Gustalina valess with jot serbick atthat Temparatara or Insediceas.</sup> 

<sup>\*</sup> Health Counts Christing Whitel Cuelephne, 2012.

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

		1777000	-	1	1		ysical Pare	Indiana.				MICIBBIDIC	pical Tests		-				Total	horganic				-		
Sample	Sample (D	Semple Date (yyyy mra dd)	Hardness (mg/L)	pH (field) (pH)	pirt (pirt)	Temperature (field) (C)	V	Conductivity (uS/ent)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Colloms (MPN/0.1L)	E, Cell (MPN/0.1L)	Yotal Kjeldani Nitrogen (N) (mp/L)	Total filtrogen (N) (mg/L)	Ammonia Nitrogen (pg/L)	Narms Nitrogen Sig/L1	Nitrale Nitragen (ug/L)	Nitrate+Nitrite Nitrogen (ug/L)	Chloride (mg/L)	Fsuorida (µgA.)	Sulphate (mg/L)	Total Alkalimity (as CeCO3) (mgA)	Bromide Implij	Driho- phosphate (mg/L)	Phosphor (mg/L)
C Cluidelines				-	-		-	r		1		principalities.	-							,	- where-			,		,
BCWQG Aquetic Li	AH (AM)		n/s.	6.5-9.0	6.5-6.0	e/-1 Degrae change from	Change of	r/s	n/a	Change of 25	n/s =20% of median	NH	N/e	nip	rva	5,680-18,400*	32,800	60 (C)<2)	32,800	600	1.224.3	n/e	n/s	n/e	n/w	0.005-0.01
SCWOG Aquate Li	the (SDGRY) (AVV)		Wa	nh	We	ambient	2	rs/a	iva	of 5	Beckground	nis	Na	n/a	N/s	1.090-1.770*	3.000	20 (CH2)	3.000	150	Na	125-300°	n/a	n/a	rva	0/6
					2000		Change of					-				1,110									-	
BCW09 Drinking V			PVIL	6.5-a.5		n/al	1 1	U/B	0/8	IV/a	ri/a	nie	0/100ml	n/a	N/a.	19/9	10.000	1,600	10,000	250	1,000	500	N/a	TS <sup>2</sup> B	IVII	0.01
	Water Clustry (DW)*		n/a		8.5-8.5	n/a	n/a'	US	500	0/0	19'0	19/9	OrtObmi	n/a	U/B	n/u	10,000	1,000	rva	250	1,500	500	n/u	nta	ri/a	15/0
DUL-68	QUU66-40M	2014 08 19	72,5	7,81	8	61.69	122	159	113	32.9	1,9		-	-	0,376	46.0	232	1.7		0.63	73	16.2	60.6		< 0,001	< 0.002*
	CILIL 98-40MX	2014 08 19	72,9	7.81	7.00	6.5	127	159	117	40,9	1,93		-		0,375	50.6	230	1.6	-	0,61	72	14.1	<b>6</b> 0.4		< 0.001	4 0.002*
		POWERER	K11	0	10183	1000	100	0	112	A ALTERNATION NAMED	<b>HERMAN</b>	SHEET STATE	STORE STORE	ASSESSED BUILDINGS	THE STATE OF THE PARTY.	的控制。由特殊	THE RANGE	anskams	BARRACHER	<b>FEBRURY</b>	<b>WHITE STATE</b>	<b>经报告发展的</b>	<b>排程的程式的超过时</b>	學問題	10039001	
	OULDS-40M	2014 08 21	69,4	8.09	7,6	6,9	1111	146	108		1.86	,			0.339	40.1	209	1.4		0.56	649	16.5	58.5		× 0.001	# O.DO2*
	CHIL-GE-DM	2014 D6 26	50,5	7.70	7,07	18.6	1.85	86.5	63	< 3	2.26	-			0.132	<5	49,1	<1		€0.5	35	5,80	44.4		< 0.001	11110,002
	QUL-66-10M	2014 08 26	53	7.70	8	73.0	6.53	106	73	4.8	2.14		-	-	0,184	5.4	83,2	<b>*</b> †		<05	36	6,73	51.6		< 0.001	0,0625
	GUL-66-56M	2014 08 36	76,0	7.78	8,04	6.5	71.3	160	123	39,2	2,18		7		0.427	56	250	2,3		0.62	77	18.8	61.5	-	0.0016	0,0052
	OUL-66-0M	2014 08 78	49.3	8.10	7.97	18.9	0.4	07	63	6.5	2.71			1	0,116	5.2	< 80	<10		45	220	5.3	45.5		< 0.001	× 0.002*
	DUC-86-18M	2014 DB 28	54	8.02	7.05	9.4	17.3	107	66	20.6	2,17				0.185	7.5	115	41		<0.5	36	6.36	50		< 0.001	< 0.002*
	QUL-68-40M	2014 08 28	67.5	7.02	8	6.3	73.4	148	102	20.8	2.19				0,406	50.3	214	1.4	*	0.52	5.0	16.2	59.6	-	0.0011	0,004
	CUL-86K-40M	2014 DS 28	84.4	7.92	7.98	6.3	71.8	137	25	56.7	2.11		*		0.319	37.8	197	1.1		*0.5	63	13.0	51.3		< 0.001	0.0032
	HINI MACC	LI-X SHIERRE	CHILL THE	I III OIII	STEEL STEEL	DE TRANSPORTER	EIST PRINT	STEELS HE STEEL	SHE BU	D311	THE STREET	HEREIGH STREET	BROWN BELLEVILLE	SERVICES HITE	MINIST MINIST	STREET, STREET	STATE OF THE	SHEET THE	<b>BEIDERNESSEN</b>	STREET, SQUARE	DATES	THE STATE OF	CONTRACTOR NAMED AND ADDRESS OF	(INCHASE)	BECKER CORE	(TICH YOUR CALL)
	MO-385-JUD	2014 08 30	49.1	6.04	7,97	28.2	0.6	96.6	61	3.8	1.97		-		0.123	4.5	44.4	<1		405	34	5.49	44.7	-	< 0.001	< 0.002*
	DUL-95-16M	2014 08 30	53.4	7.85	7.98	10.5	7.06	105	65	7.0	1.92	-		*	0,177	6.8	108	41	- Indian	<06	36	6.17	40.6	-	< 0.001	< 0.002*
	QUL-66-39M	2014 DB 30	69.0	7,56		9.6	83.1	157	104	31.6	2.03	-			0,386	64.3	211	2,8		0.62						
QUL-67	QUL-67-34M	2014 DB 20	64.6	7.74	7.9	5.6	49.5	136	91	10	1.91		*		0.300	32.1					86	10,2	59.5		0,0017	0,0041
QUL-88	QUL-68-40M	2014 08 21	68.9	7.85	7.65	5.5	70.6	148		28.7	2						195	< 1	-	< 0.5	52	12.4	55.5		< 0.001	* 0,002°
On-40	OUL-69-37M	2014 08 21	58.6	7.72	7.84	5.1	26.5	110	100					*	0.384	42,2	225	1.5	V TO THE PERSON NAMED IN	< 0.6	65	15.3	57.2		0.008	0.0100
CUL-74	QUL-74-46M	2014 06 21	80.9	7.90	7.85	4.0	37.5	124	89	7.9	2.00	-	*		0.254	14.3	169	41	V	<05	46	8.97	51.0		0.0003	0.0143
QUL-75	QVL-75-40M	2014 D6 21		7.97							1.79				0.286	23	183	41		< 0.5	50	10.5	52.4		0,0188	0.0413
			62		7.85	5.4	42.5	127	90	4.7	1.84	-		*	0.301	27.2	191	<1	*	<06	50	11.3	53.9		0.017	300 F
QUL-77	QUL-77	2014 08 22	50.4	7.66	7.65	18.9	0.87	98,4	65	43	2,2		-	*	0.154	45	05,2	41		< 0.5	34	5.77	45		< 0.001	< 0.002*
CUL-70	QUL-79-0M	2014 08 25	42.3	7,99	7,89	18.3	D.28	97.2	65	< 3	1.91				0,127	45	44.4	4.1		< 0.8	35	0.76	43.6		4 0,001	< 0.002°
	QUL-79-27M	2014 OB 25	64.7	7.19	7.9	5.3	4,87	110	63	3.5	1.84				0.213	<5	147	41		< 0.5	34	6.85	49.6	*	0.0223	MILIONAL L
	OUL-79-79M	2014 DE 25	58	7,35	7,9	4,8	10.4	113	76	3.7	1,64				0.217	5.5	153	41		-05	40	7.50	50.4		0.0158	111110.138
	QUL-79-0M	2014 08 27	49,4	7.05	7.90	10.0	0.23	98.5	0.2	•3	1,00		-		0.112	45	43.0	* 1	*	× 0.5	34	6.75	44	-	< 0.001	< 0.002*
	QUL-79-55M	2014 08 27	54.7		7,93	*	2.69	108	66	43	1.0				0.106	<5	145	41		405	36	6.35	48,0		0.0019	0.0027
	QUL-79-0M	2014 08 29	49.7		7.96		5.22	06.5	60	43	2.18				0.12	<5	42.1	< 1		405	35	8.68	44.4		< 0.001	× 0.002*
	OUL-79-32M	2014 00 20	54.3		7.85		5.99	107	08	3	1.83	-	Þ	*	0.202	45	144	<1		×05	30	6.83	44.9		< 0.001	< 0.000*
CUL-82	OUL-82-2M	2014 08 25	49.7	8.51	7.95	16.1	0.33	99.4	70	43	2.27				0,133	45	47.0	*1	*	< 0.5	34	5.73	44.4	- September	0.0213	0.0254
	CIUL-82-TAP	2014 Db 25	49.6		7.94	*	5.24	99.5	67	43	2.27				0.141	46	62.1	41	-	*05	34	5.70	44.0	-	< 0.001	× 0.002*
DUL-83	OUL-83-2M	2014 08 25	49.6	7,94	7,94	16.3	0.25	0.89	65	×3	2.33			The Statement	0,122	45	46.9	# T		405	34	5.71	44.1			
QUL-84	QUL-64-1M	2014 D8 25	50.2	7.01	7.93	C.87	0.3	96.3	66	<b>43</b>	2.2			Maritim Suffers Interes	0.126	<5	47.7	**********						***************************************	< 0.001	× 0.002*
DUI_45	QUL-85-144	2014 08 25	49.6	7.93	7.68	18.4	0.4	89.3	67	<3	2.15				0.128	45	47.4	41		40.5	36	5.71	44.2	*	40.001	< 0.002*
CUL-86	QUL-86-1M	2014 Da 25	50.4	7.50	7.00	16.5	5.27	60.6	69	43	2.02		-		0.120	45	47.2	<1		< 0.5	34	5.76	44.0	- 7	< 0.001	0.0023
DUL-87	QUL-87-0M	2014 08 25	48.8	8.D2	7.99	19.4	0.26	97.3	71				-	THE RESERVE OF THE PARTY OF THE				SEPTIME AND ADDRESS.		< 0.5	34	5.76	45.3	-	< 0.001	< 0.002*
more and	OUL-87-13M	2014 08 25	51.2	7.79	7.99	11.5	0.20	103	69	*3	1.66	and a second			0.132	< 5	42.0	4.1	-	*0.5	34	5.69	44.1		< 0.001	< 0.002*
		2014 08 25													0.200	< 5	121	<1		< 0.5	35	8.01	49.4		0.0221	0.025
DIR CA	QUL-87-65M		53,6	7.29	7.85	5.1	0.28	107	75	43	1,76		-		0.207	45	144	1.4	A CONTRACTOR OF THE PARTY OF TH	+05	36	6.14	48		0.0072	DOM:
DUL-68	GDT89-5W	2014 08 26	EQ.5	7.83	7.98	19.0	2.27	100	62	43	2.10	-			0,114	45	41	* 1	*	« U.S	35	5.7	44.6		< 0.001	× 0.002*
DUL-10	OUL-89-1M	2014 08 27	49,5	8,00	7.0	17.8	3.85	99.2	67	*3	2,21			-	0.12	< 5	62.6	<1		405	34	5.79	24.6		0.0011	× 0.002*
GUL-60	Q111-90	2014 08 27	49.5	8.54	8.01	160	D. 761	98,7	ERR	43	2.21	-	-		0.133	< 5	40.1	41	*	405	35	5,73	45.1	-	4 0,001	0.0022
	QUL-60-TAP	2014 DB 27	76.1		7,71	*	0.3	143	20	< 3	5,46		-	-	0,119	8.7	21,2	×1		× 0.5	57	3.6	73.2		0.0017	0,0026
DUL-91	QUL-91	2014 08 28	40.3	7.98	7.01	18.0	1.33	96.7	65	< 3	2.11	-	-		0.131	5.2	59.7	< 1		< 0.5	34	5.8	49.1		< 0.001	< 0.002*
DUL-82	QUL-92	2014 08 28	49.5	8.01	7.93	17.9	3,59	97.7	63	< 3	2.13		140		0.143	<5	52.5	<1		- 0.5	34	5.79	48		< 0.001	0.0021
QUL-4/3	QUL-93-TAP	2014 08 28	157	7,71	8,06	B.0	10.1	282	168	44,4	1.18			*	0,133	4.5	124	61		2.87	50	0.94	147		× 0.001	0,0028
DUL-64	OUL-94	2014 On 16	50.7	8.24	7.06	18.8	3.94	99.2	62	3.4	2.34				0.157	45	46.0	41		< 0.5	35	5.45	47.4		< 0.001	0.0923

L100-9907, L100-9907, L100-997, L100 All terms defined within the body of 89C-Levelin's regard (unables upon request)

4. Deliates concentration lies from indicated detaction time of 65°C levelintes upon requests.

Dimotes eneighed not conducted.

n'il Denvies no applicatro element.

" MPDs ere not normally callabore where one or more conservations are less man fire times MD.

MANAGE THE CONTRACTOR GREAT THE NOVICE AGAIN LAS LAW GARDEN.

Garcentration greeter then Octricia Drivery Weter (DW) gustaine.

[1]] [ | Impaired | [1] [ Gunderfration greater train (ICVeCG equals); Life (20tery (Alle) guideline Gornandration granter than or oqual to Caracters Distriby Witter Caracters (DW) purpolate

\* Laboratory delection hirst out of range.
\* Drain Calumas Aspecial Water Cauding Gutdelines 2006 Celeurs, significant 2014.
\* Drain Calumas Aspecial Water Cauding Gutdelines 2006 Celeurs, significant 2014.
\* A Companyation of inforcing Vision Cauding Gutdelines of Enterin Columbia, updated August 2016.
\* Clustelines resides with pRI, endies within Tamperature or Water Gutdelines resides.

\* Freshth Calaydia Phenkery Mister Cubssides 2012

\*\*Guadester per fresht: a citizente value and 30 day maken

\*\*Cubester per septemble for alle shastier.

\*\*Cubester per septemble for alle shastier.

\*\*The table places

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

											,	-		-	Dissolve	d Metals				,	1									7
Sample Lacellan	Semple (D	Semple Date (yyyy mm dd)	Dissolved Align mon ggal.)	Dissolved Celclum (mg/L)	Dissolved from (sig/L)	Discolved Magnesium (mgd.)	Dissolved Mangarese grg3.)	Dissolved Potessium (mg/L)	Dissolved Sodium ImgA)	Antimony (ug/L)		Switze (ug/L)				Chronium (ug/L)					Morcury (ug/L)	Melybdenum (up/L)		Salerium (ug/L)			Titanium (ug/L)			Zin
Guldelines			-						-														1			-		_		1
CWOG Aquette El	III (AVV)**	VII - 100	100	n/q	350	nile	P/B	et/a	nh	nie	es.	n/a	ryn.	rve .	ne	n/a	role	n/e	n/a	n/e	n/m	15/8	eva	r/u	nie	MI	Ne	J¥#	(Ma)	n/a
SCWOG Aqualic Li	ile (Abley) (AVO***		504	n/a	n/a	ruis:	rela	n/a	r/s	n/a	A/B	N/a	Na	n/a	n/a	r/a	nia	n/a	n/a	rua	rdq	N/B	Na	rva	n/a	19/0	nra	rva	re'a	n/a
CWGG Brinking V	Maries (District)		200	n's	Prin	2/4	D/a	n/u	eva .	reta	N/a	TW's	Ne	2/8	n/a	n/a	et/a	rele	r/s	1940	TVO	n/a	n/a	n/a	rsip	nie	nón.	15/8	n/a	nis
	Water Quality (DW)*		D/II	n/a	P/NJ	n/a	rve	מית	m/a	n/a	rs a	ryla	Na	rvis	2/0	n/a	n/a	m/a	n/a	n/o	n/a	rvin	n/a	nia	n/w	n/a	ra'ss	6,43	i nte	n/a
GULeu	QUL68-ICM	2014 68 19	15,9	24.5	4 30	2.73	100	1.12	3.63	0.29	D.84	19.7	40.1	< 10	< 0.01	< 0.5	< 0.1		< 0.05	1.2		6.35	4 0.5	0.62	< 6.01	× 0.01	< 10	0.728	1	1 <3
40000	CULS6-4DMX	2014 08 19	16.8	24.7	+30	2.76	100	1.12	3.87	0.29	0.85	19.8	< 0.1	< 10	< 0.01	< 0.5	< 0,1	5.48	< 0.05	3.31		6.31	₹0.5	0.64	< 0.01	< 0.01	× 10	0.723	1	1 43
	HI WHILL QAYOU		B116 8 FF 12	DESIRE HOLD	San Marie	Salara para	RESIDENCE OF THE PARTY.	DESIRE OF THE	USE DE	offile dist	CHESTS.	1000	900000	E GUI	Marit Constitution		#422.E4	Line and	ana ana	<b>MESSES</b>	170131701	CHIEF TOWN	DELETE.	ABBIE HEB	REGISTR	NEWBIR	NOTE:	<b>当然区的</b>	ALCOHOL: THE	
	QUI.68-45M	2014 08 21	13.7	73.5	< 30	2.50	77.3	1.05	3.51	0.25	D.7	18.8	<0.1	≈ 10	< 0.01	< 0.5	₹ 0.1	5.52	< 0.05	0.55	< 0.05	5,66	<05	0.55	< 0.01	< 0.0f	× 10	0.656	<1	K.
	OUL-85-FM	2014-08-26	9.0	17.1	₹30	1.90	2,31	0.46	0,819	× 0.1	×01	5.74	€0.1	€ 10	< 0.01	< 0.5	< 0,1	0.96	< 0.05	Q.B1		0,298	< D,5	< 0.5	c 0.01	€ 0.01	< 10	0.132	<1	< 3
	QUL-66-10M	2014 09 20	9.6	17.8	< 30	2.01	6.44	0.40	0.874	< Q1	0.14	7.36	4.0.1	4 10	× 0.01	< 0,5	₹ 0.1	2.93	< 0.05	0.6	-	0.448	€ 0.5	< 0.5	< 0.01	4 0.01	K 10	0.147	4.3	4 2
	QUL-56-58M	2014 08 26	15.3	25.3	< 30	2.7:	108	1.02	3,50	0,28	0,61	19,1	<0.1	< 10	< 0.01	4 0.5	< 0.1	5.26	≈ 0.05	0.64		5.83	< D,5	0.66	< D.01	€ 0.01	< 10	0.673	4.1	4
	CYLL-65-OM	2014 08 28	10.1	18.6	< 30	1.93	0.447	0.471	0.822	≠ D.1	0.84	6.28	< 0.1	4 10	< 0.01	4 0.5	< 0.1	0.54	< 0.05	0.79		0.294	< 0.5	€ 0.5	< D.01	< 0.01	< 10	0.138	< 7	€:
	QUL-ec-18M	2014 DB 24	10.6	183	< 30	2.0	9.34	0.48	0.904	< 0.1	0.12	0.62	< 0.1	<b>4 10</b>	< 0.01	< 0.5	· 40.1	3.43	< 0.05	+ 0.5		0.367	< 0.5	< 0.5	< 0.01	< 0.01	× 10	0.152	4.5	
	Q4JL-06-40M	2014 05 28	35.3	72.8	< 30	2.54	69.3	0.961	3.3	0.24	0.7	17.1	<0.1	< 10	< 0.01	< 0.5	< 0.1	5.71	< 0.05	0.64		4,98	< 0.5	0.52	< 0.61	< 0.01	× 10	0.505	5.3	4
	CLR-06X-40M	2014 08 28	12.7	21.4	× 30	241	54,5	0.859	2.73	0.34	0.73	14.7	0.29	« 10	0.023	< 9.5	€ 0.1	5.01	0.156	0.85		3.94	× 0.5	425	< 0.01	× 0.01	< 10	0.552	61	6
	DANGE		GREEN ATTOM	HOME SHOW	THE PARTY NAMED IN	REGISTRY STREET	LINE STREET	Maria Carrier	aratta are	MILL HOUSE	BOOK WA	JE 15 FF	100000	831110114	adukanan	HERE LAND IN	THE AND	COLUMN TO SERVE	100	HOUSE	RODICEOUS	BREETE STORM	NUMBER	HATTA ATEM	加以過	STATE OF THE PARTY.	以份益額值	(1) in 5 120	mers, true	3366
	QUL-66-0M	2014 08 30	8.0	185	< 30	1.93	0.867	0.459	818.0	< 0.5	0.11	5.41	< 0.1	× 10	< 0.01	× 0.5	< 0.1	0.56	€ 0.05	0.56		0.269	< 0.5	4 0.5	4 0.01	< 0.01	s 10	0.139	<1	<
	QU1-66-16N	2014 09 30	9.3	18.1	< 30	1.90	7.88	0.488	0.911	× 0.1	0.12	8.36	40.1	K 10	< 0.01	4 0.5	< 0.1	3.87	4 0.05	0.62	-	0.353	< 0.5	< 0.5	« D.01	< 0.01	< 10	0,155	*1	
	CUL-66-33M	2014 98 3D	16.2	23.7	₹ 30	2.52	74.9	1.15	4.09	0.3	0,83	18,4	< 0.1	4 10	4 0.01	< 0.5	4 C.1	40,01	< 0,08	0.81	-	6.98	< 0,5	0.58	< 0.01	< 0.01	= 10	0,893	<1	K
QUL-67	QUL-57-34M	2014 06 20	11.0	21.6	× 30	247	79.0	0.70	2.37	0.15	0.52	15.6	× 0.1	< 10	< 0.01	< 0.5	s 0.1	3.97	< 0.05	0.53	-	2.14	< 0.5	< 0.5	× 0.01	40.01	~ 10	0.408	<1	43
OUL-68	QUL-68-40M	2014 05 21	11.7	23.3	< 30	2.87	108	0.889	3.46	0.2	0.67	17.3	< 0.1	< 10	< 0.01	₹ 8.6	< 0.1	4.2	× 0.05	1.06		4.45	< 0.5	0.51	× 0.01	< 0.01	< 18	0.593	< 5	1 4
OUL-10	QUIL-69-32M	2014 08 21	10.1	10.B	× 30	2.26	47.4	0.597	1.72	< 0.1	6.31	10.3	<0.1	€ 10	< 0.01	< 0.5	< 0.1	2,53	< 0.05	0.00		1,49	< 0.5	408	× 9 01	< 0.01	< 10	0.24?	4.1	4:
QUL-74	GUL-74-MM	2014 06 21	11,4	20.6	< 30	2.20	42.8	0.052	2.11	0.11	0.56	11.4	€ 0.1	< 10	< 0.01	< 0.5	40.1	3.33	< 0.05	0.85		2.09	< 0.5	< 0.5	< 0.01	€ 0.01	6 10	0.362	<1	4
QU175	QUL-75-4064	2014 06 21	10.5	21	≺ 30	2.35	40.1	0.445	2.08	0.12	0.42	12	< 0.1	€ 10	* D.01	< 0.5	< 0.1	3.20	< 0.05	1		2.51	< 0.5	< 0.5	# Q.01	< 0.01	N 10	0.408	<1	4
QUL-77	QUL-77	2014 06 22	10.2	17	< 30	1.83	0.945	0.458	0.829	< 0.1	< 0.1	5.50	€ 6.1	× 10	€ 0.01	< 0.5	< 0.1	1,08	< 0.05	0,85		0.272	< 0.5	40,5	4 0.01	< 0.01	4 10	0,137	<1	4
QUL-79	OUL-79-0M	2014 06 25	8.1	14.2	< 30	1.63	0.269	0.342	0.689	× 0.1	< 0.1	4.43	< 0.1	4 1D	< 0.01	< 0.5	40.1	< 0.5	< 0.05	405		0.329	€ 0.5	< 0.5	4 0.01	€ 0,01	× 10	0.111	*1	1 4
doction	CrUL-79-27M	2014 00 25	6.6	18.5	< 30	2.01	5.6	0.491	1,74	< 0,1	0.12	6.1	< 0.1	× 10	< 0.01	+ 0.5	= 0.1	1 82	< 0.05	0,5		0.608	< 0.5	< 0.5	< 0.01	< 0,01	< 10	0,177	<1	4
	DUL-79-76U	2014 08 25	6.3	19	< 30	2.11	8.68	0.517	1.32	< 0.1	0.17	6.65	₹0.1	e 10	< 0.01	+ 0.5	< 0.1	1.4	< 0.05	0.50	,	0.741	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.203	<1	×
	QUL-79-0M	2014 08 27	10.2	16.7	< 30	1.91	0.304	0,44	BIGD	* Q.1	<0.1	4.91	< 0.1	€ 10	< 0.01	< 0.5	< 0.1	< 0.5	€ 0.05			0.204	< 0.5	< 0.5	< 0.01	< 0.01	× 10	G.130	41	1
	QUL-79-55M	2014 00 27	4.0	18.5	× 30	2.93	0,562	0,46	0.923	< 0.1	< 0.1	5.16	< 0.1	4 10	< 0.01	< 0.5	< 0,1	0.51	× 0.05	0.8		0.27	< 0.5	€ 0.5	< 0.05	< 0.01	€ 10	0.152	41	€.
	QUL-79-0M	2014 08 29	10	15.5	< 30	1.0	0,293	D.449	0.763	=0.1	0.1	4.99	40.1	4 10	< 0.01	<05	₹0.1	<05	< 0.05			0,250	* D.5	< 0.5	40,01	= 0.01	× 10	0.14	*1	18
	QUL-79-32M	2014 06 29	6.7	16.3	× 30	2.03	5.41	0.490	1.05	= C.1	0.14	8.05	< 0.1	× 10	< 0.01	< 0.5	₹0.1	1.25	< 0.05	Same and some		0.888	405	< 0.8	< 0.0%		4 10	0.182	- 41	1 4
QUL-82	QUL-62-216	2014 08 25	0	16.7	e 30	181	0.499	0.465	1.01	« 0.1	0.11	5.20	< 0.1	× 10	« 0.01	< 0.5	< 0.1	405	< 0.05			0.279	< 0.5	< 0.5		1 < 0.01	× 10	2.131	41	1
CIODOL	GUL-82-TAP	2014 08 25	9	10.7	< 30	1,91	0.146	0.45	308.0	<0.1	0.1	6.29	<0.1	< 10	< 0.01	< 0.6	< 0.1	17.6	0.085		1	0.273	<05	< 0.5	< 0.03		< 10	0.13	4.1	4
QUI-43	QUL-83-2M	2014 68 25	9.1	16.7	< 36	1.92	0.368	0.469	0.631	<0.1	2,11	5.33	<0.1	< 10	< 0.01	< 0.5	< 0.1	<05	< 0.05		1	0.258	× 0.5		< 0.01		< 10	0,125	41	
		2014 00 25	9.8	16,0	× 30	1.25	D.405	0.467	0.524	401	+ 0,1	5,36	+ 0.1	< 10	< 0.01	< 0.5	* 0.1	40.5	< 0.05		1	9.719	*0.5	*05	₹ 0.01	< 0.01	4 10	0.128	<1	-
OUL-84	QUL-B4-1M	2014 08 25	8.8	16.7	< 30	1,62	0.416	0.46	0.522	< 0.1	0,13	5.34	< 0.1	4 10	< 0.01	4 0.5	< 0.1	<0.5	< 0.05		1	0.277	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.136	41	*
QUL-85	QUL-85-1M		9.8	THE LANSING PROPERTY AND	< 30	1.93	0.410	0.46	0.827	4 D.1	0.13	5.34	40.1	4 10	< 0.01	4 0.5	401	4 0.5	1 = 0.05		1	0.205	< 0.5	< 0.5	< 0.01	< 0.01	4 1D	9.14	41	1
QUL-86	QUL-88-1M	2014 06 25		17			0.41	0,450				5.07	<0.1	4 10	< 0.01	< 0.6	<0.1	40.5	< 0.05			0.273	× 0.5	< 0.5	< 0.01	< 0.01	< 10	9.13	×1	1
COLUMN	QUL-e7-CM	2014 08 25	10,3	16.4	< 30	1,83	0.41	0.495	1,04	× 0.1	< 0.1	4.98	< 0.1	< 10	< 0.01	< 0.6 ≤ 0.6	< 0.1	0.53	< 0.05		-	0.2/3	<0.5	< 0.5	× 0.01	< 0.01	= 10	0.13	41 41	-
	DUL-87-13AI	2014 08 25	8.1	17.3		1.93					< 0.1	4.91	4 G.1	< 10	4 0.01	< 0.5	<0.1	0.51	<0.03		1	0.246	<0.8	40,5	< 0.01		× 10	0,141	51	4
	GLFL-87-53M	2014 98 25	5.5	18,1	< 30	2.05	0.142	0.486	0.965	× C, 1	0.11	5.01	×0.1	= 10					- Company	-	+	0.258	< 0.5	< 0.5	< 0.01		< 10	0.13	<1	1
QUL-85	QUI,85-2M	2014 68 26	9.6	17	< 30	1,97	0.622	0.450	0.909	× 6.1	0.11	6.56	< 0.1	< 10	0.013	< 0.5	*Q1	1.02	× 0.05			0.295	< 0.5	* O.5	4 0.01		4 10	0.134	<1	1
CUL-89	QUI-59-1M	2014 08 27	10,3	15.7	4 30	1,91	0,781	0,474	0.871	< 0.1			× 0.1	< 10	4 0.01	« 0.5	* 0.1	0,83	< 0.05		-	0.293	< 0.5		< 0.01		4 10	0,134	1 1	1
QUL-50	QUL-90	2014 04 27	10	16,7	₹ 30	1.95	3.53	0.431	0.872	# Q,1	0.39	5,46									-		×0.5			< 0.01	NAME AND ADDRESS OF	0.13		
	QUL-40-TAP	2014 08 27	4.8	22.9	67	4.61	343	0.365	2,16	0.18	0.81	4.77	40,5			< 0.5	<0.1	1,85		< 0.5	-	0.273					< 10		41	4
QUL-91	QUL-91	2014 04 28	10,3	16.6	4 30	1.93	0.588	0.468	0.836	× 0.1	0.12	5,43	€ G.1	< 10	< 0.01	< D.5	< 0.1	0.66	< 0.05		+ .	0.294	405	< 0.5	< 0.01		× 10	0.135	<1	1
GUL-92	QUL-92	2014 08 29	9,9	19.7	* 30	1.95	0.580	0.481	0.831	< 0.1	0.12	5,47	< G.1	× 10	< 0.01	<0.5	< 0.1		< 0.06		-	0.295	= 65	< 6.5		< 0.01	< 10	0.136	*1	1 5
QUL-63	OUL-93-TAP	2014 08 28	< 3	43,6	4 30	11,7	1,02	0.539	3.74	0.16	0.63	7,8	< 0,1	< 1B	< 0.01	< 0,5	= 0.1				1 -	0.517	₹0.5			< 0.01	* 1D	0.18	< 1	25
QUL-94	QUL-84	2014 08 28	10,7	17	< 30	1.09	1,42	0.471	0.853	* 0.1	0.15	5,45	401	1 < 10	< 0.01	< 0.5	< 0.1	0.92	< 0.05	0.67	1 -	0,31	< 0.5	< 0.5	× 0.01	< 0.01	× 10	0.136	* 1	1 4

10-04-057, 1-10-04-077, 1-10-04-077, 1-10-04-08, 1-10-04-077, 1-10-04-08, 1-10-04-077, 1-10-04-08, 1-10-04-077, 1-10-04-08, 1-10-04-077, 1-10-04-08, 1

PDLD Conservation graphy than SchOG Contanty Water (DM) guideline

Concentration greates than SCHOOL Assets Life (Stitute (Arth) quantities

Committed graphs that or square in Committee Dhipton Water Guality (DW) (sections)

Laboration; certaintion ferrit cut und ranger
 Bittain Calumber Approved Water Stabler Student value 2006 Edition supplied VD19;
 A Compensation of Webber Water Causiller Guidelines for Detail Calumber (VD19);
 A Compensation of Webber Water Causiller Guidelines for Detail Calumber, updated August 2000
 Causilation variety and part of variety and the Temple (Island on Herdines).

\* Health Connate Divising Water Guatelines 2019.

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\*\* Cabbillated based on an instantial surrigis based, not sentenge of 20 day results

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Charless (Indextra Lindoctin Lindoctin Charless (Indextra Charless Lindoctin Charles) Control Charless (Indextra Charless Charles

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

					,				,				,	,				Total Me	lais .	-	***********			-									
Sample	Sample	Sample Dale (yyyy min dd)								Caderium (og/L)						Lead (up/L)		Megreskum fund.)	Manganese (pg/L)	Mercury (vg/L)	Molybdenum (ug/L)	Nichel					Sodium				Uranium (pg/L)	Venedium	
Guicelines		(3 9 3 ) states com	Jan Jan	The state of the s	I PASS	192	1997-41		Lange	To. Park	(pg-c)	(mgray)	1000	- Brilland	204.4	grap and	1,100	- X	1	. 004													
						1													1.000,8-	T			373,000-	T									
CWQQ Aquetle U	Pe (AW)**		rva.	20	6	5,000	75'8	n/e	1,200	0.016-0 036*	rviu	1 (0:(16))	110	8002	1,000	27.3-57.7	870	n'e	1,370	Methyl	2,000	25-65"	432.900	2	D/R	0.1"	7500	0.3	n/s	2,000	300	6	33
and the second			-		- Total	10000		-				4	1	-	-					merciuy											7		
				100				100				200		1.4	- 20		44		mar a most	eriselysés in						0.85		-		a la	200	360	
CWICO Aquatic U	Pa (30day) (AW)		r)/e	n/a	pile.	1,000	5.3	n/a	16/8	rs/a	n/a	n/a	4	2-34	n/a	4455	14	C/a	791.1-940	tabliere	1,000	5/4	n/a	e/a	n/s	0.00	7/8	TV'H	R/s	nie	n/E	7/8	7.5
SCWQQ Drinking V	Hann Canali		PUB	14	23	n/a	4	n/e	5.000	N/a	rvie	IV9	rus	500	FIA	50	rs/a:	160	sva.		250	60	n/s	10	nie	n/e	n/a	2	rsia	n/a	TVB	פונה	5.00
	Water Greatly (DW),		100	-	10	1,000	n/a	n/a	5.000	6	U/D	50	nia	1.000	300	10	200	7/3	50	1	IVA	Fo/m	19/4	10	n/o	Na	200,000	PV D	n/p	n/a	20	0/0	5.00
	QULSS-40M	2014 08 19	5,490	0.34	2.41	125	D. 84	< 0.6	10	0,03	26,500	2.4	2.21		2,990	2.03	2.72	4.340	192		8.29	2.54	3.360	0.64	13,300	0.042	4,640	0,016		229	0,846	History	
QUL-60	QUILBS-40MK	2014 08 19	5,500	0.34	2.41		0.94	4 0.0		0.628	25.500	2.51	2.17	1154	3.090	2.03	9.62	4,370	793		0.16	2.54	3,420	0.64	13,500	0.041	4.770	0.019	=0.1	230	0.957	10.4	111
	DAVOO!		District Street	EGGTHAT SALL	THE COLUMN		ELECTRICAL COLUMN	application of the		STREET, STREET	Haller & Shirt	11111112-1-120	10023	515777 X 5122	HAROLLI	DOMESTICATE.	THE STREET	50002-1000	SHOWING THE	BOTTO WOLL	SELECT THE SE	1000	2417335-1503315	SECRET PLEYING	ES 13 (8 13 L) (1	STUNDED	Dinis Series	HARD STATES	Chen Fill	1007233307	BHEGGH	B	
	QULSE-ION	2014 08 21	4,940	0.34	2.27	119	0,13	< 0,15	4 10	0,032	24,800	DEPT. SI	1 2,06	101	2,090	1.8	3.04	4,110	768	< 0.05	5.89	2,53	3.060	0,63	12,900	0.043	4,500	0,016	0.15	216	0.821	開除了組	
	QUL-66-CM	2014 98 28	128	< 0.1	0.17		< 0.1	< 0.5		< 0.01	18,600	< 0.5	<0.5		138	0,068	6.62	1,640	6.19	4 0.01	0.314	<0.5	495	< 0.6	1,710	< 0.01	549	< 0.01		* 10	0,142	<1	<
	QUIL-68-10M	2014 08 26	257	€0.1	0.21	9.62	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	0.2	8.40	264	0,171	0.84	2,520	11.7	< 0.01	0.438	0.71	515	< 0.5	2,020	< 0.01	929	< 0.01	< 0.1	15	0,185	€1	•
	QUL-B6-58M	2014 08 28	3,690	9.32	1.84		< D.1	< 0,6	e 10	0.021	28,100	1.17	1,91	79.8	2.150	1.25	2.53	3,670	176	< 0.01	5.89	1.95	2 500	0,71	2.850	0.020	4,160	0.013	0.12	145	0,792	7.7	7
	OUL-66-CM	2014 08 28	22.5	< 0.1	0.12	5.6ê	€ 0.1	4 0.13	4 10	₹ 0.01	18,600	€0.5	× 0.1	0.00	= 30	< 0,05	4 0.5	1,960	1.52	< 0.01	0.315	× 0.5	409	€ 0.5	1,580	< 0.01	876	*-0.01	< 0.1	< 10	0.142	×1	
	QUL-86-10M	2014 08 28	950	< 0.1	0.57	21.1	< 0.1	× 0,6	4 10	< 0,05"	18,200	0.00	0.67	24	253	0.420	98,9	2,420	32.7	40.01	0.426	1.33	737	< 0.5	3,430	0.015	808	€ 0,01	< 0.1	58	0.192	2.7	7
	QUL-86-40M	2014 06 28	4,050	0.3	1,86	101	× 0.1	< 0.5	4 10	< 0.05°	23,900	1132	1.52	78.2	2,200	1,3	2.23	3,610	240	+ 0.01	5.34	2.02	2,740	0.6	11,000	G 034	4,070	2,014	0.14	185	0.701	7.4	7
	QUL-66X-40M	2014 68 28	4,860	5.27	2.20	105	0.11	< 0./3	< 10	< 0.05"	23,200	3.03	2.22	03.6	3.390	1.67	2,14	4,000	153	10.01	4.35	3.17	2.760	0.52	12,100		3,730	0.016	0.17	224	0.653	10.6	150
	MINISTER CANCE	るない。日本の日本	101111111111111111111111111111111111111	BESTELLI.	19	即此類的	開閉機能	ELIDATED)	i show	<b>建划线机器建</b> 机		THE PERSON	TO DE L	<b>BUDARY</b>	300	州南北北京	<b>地理特别的</b>	de l'Aour	中の可能を行う	ENGINEERS.	25		ANTERS ENDI	(Charles of the Control of the Contr	DINON	120年20月	<b>用取り版</b>		<b>LIMPAR</b>	570134 E3V	HILL AND	10000	損器基
	QUL-66-0M	2014 08 30	35.7	< 0.1	0.14	5.76	< 0.1	< 0,5	< 10	< 0.01	18,400	< 0.5	<01	1.86	32	0:058	< 0.5	1,940	2.05	< 0.01	0.594	< 0,8	484	¥ 0.5	1,550	< 0.01	841	c0.01	€0.1	< 10	0.138	41	4
	QUL-66-16M	2014 08 30	434	€ 0.1	0.31	14	< 0,1	< 0.5	< 10	< 0.01	17,700	< 0.5	0.32	18,6	415	0.233	0.76	2.160	18.6	4 0.01	0.367	0.71	595	< 0.5	2,450	< 0.01	941	< 0,01	× 0.1	24	0.167	1,4	4
	QUIL-66-3666	2014 08 30	4,240	0.37	1,50	108	D.1	< 0.5	10	0.628	24,400	1,89	1,56	194.6	2.140	1,45	2,48	3,650	243	10,01	7.02	1,94	3.030	0,63	11,100			0,013		150	0.798	AKODIC SERI	1007
QUL-07	QUL-87-34M	2014 38 20	2.570	0.21	1.44	60.0	< 0.1	× 0.15	4 50	0.019	22,100	1.89	1.29			1.09	1.89	3,320	143		3.60	1,65	1,660	< 0.5	0.760	0.026	2,900	< 0.01	< 0.1	108	D.56	5,6	6
QUL-66	QUL-458-4064	2014 08 21	4.060	0.27	1.0	46.0	0.51	× 0.5	4 10	0.024	23,700	2.61	1.61	76.9		1.55	3.04	3,800	107		4.67	2.51	2,370	0.57	10,500	0.008	3.540	0.016	D.13	164	0.700	MM3, 101	
QUL-89	QUL-09-32M	2014 05 21	1.040	5,91	0.97	30.4	< 0.1	×0,6	4 10	0.013	20,400		0.61	31,5	1.200	0.053	1.91	2,530	#9.1	-	1.71	1.34	1,270	< 0.6	6.580	0.015	1,860	4 0.01	e 0.1	84	0.362	3.9	4
QUL-74	QUL-74-48M	2014 08 21	2.080	0.15	1.03	45.7	< 0.1	< 0.11	< 10	0.015	20,500	1.38	0,08	40.3	1,650	0.79	2.13	5,900	89		2.32	1.51	1,360	< 0.5	6.000	0.016	2,110	- 0.01	< 0.1	00	0.421	4.4	- 5
QUL-75	QUIL-75-40M	2014 08 21	2.570	0.16	1.18	56.1	< 0.1	< 0.15	< 10	0.071	21,400	1.66	1,14		1.500	1.01	2.2	3,170	102		2.92	1.59	1,840	< 0.5	7.180	0,021	2,560	0.011	< 0.1	108	0.504	5.1	7
QUL-77	QUL-77	2014 08 22	84,3	×0.1	0.14	6.08	< 0.1	× 0.15	< 10	< 0.01	18,200	<0.5	<01	2,48	98	< 0.06	0.67	1,900	3,67		0.3	0.51	466	< 0.5	1,630	< 0.01	838	< 0.01	< 0.1	< 10	0.146	water the sales about	-
QUL-79	QUL-79-QW	2014 08 25	17,9	€ 0,1	0.12	8.35	<0.1	< 0.15	< 10	< 0.01	18,400	< 0.5	< 0.1		~ 30	< 0.0\$	× 0.5	1,920	1.22		0.296	< 0.5	460	< 0.5	1,560	< 0,01	629	< 0.01	< 0.1	< 10	0.138	41	<
	QUL-79-27M	2014 08 25	246	€0,1	0.21		< 0.1	< 0.5	< 10	< 6.01	18,000	< 0.5	0.11		167	0,119	83,0	2,100	12.4	< 0.05	0.581	< 0.5	573	€ 0.5	2.170	< 0.01	1.370	< 0.01		= 10	0.19	K1	4
	QUL-79-79M	2014 08 25	515	€ 0.1	0.3	16.4	+ 0.1	< 0.5	-	< 0.01	18,000	< 0.5	0.19	10.4	.908	0.192	0.63	2,240	0.888	4 0.01	0.857	< 0.5	720	< 0.6	1.450	4 0.01 4 0.01	1,420	< 0.01			0.227	4.1	4
	QUL-70-014	2014 08 27	13.5	< 0.1	0.1	5.74	401	< 0.15	< 10	- 0.01	18,400	× 0.5	< 0.1	1,08	< 30	< 0.06 < 0.06	0.72	1,920	1.0	± 0,01	0.273	<05	467	40.5	1,720	* 0.01	860	< 0.01	+ Q.1	× 10	0.142	61	- 2
	QUL-79-53M	2014 GB 27 2014 GB 20	13	<0.1	0,13	5.04	< 0.1	<0.15	< 10	< 0.01	16.700	< 0.5	<01	< D.5	4 30	< 0.05	< 0.5	1,900	0.866	4 0.01	0.271	<05	454	× 0.5	1.500	< 0.01	821	< 0.01	- 0.1	< 10	0.141	*1	1
	QUL-70-0M			50.1	0.26	12.2	< 0.1	4 (2.0)	110	< 0.01	18,400	< 0.5	0.14	6.76	216	0.137	2.66	2,170	13.9	< 0.01	0.697	0.5	828	<0.5	2.430	< 0.01	1,110	+ 0.01	<0.1	16	0.198	41	-
QUL-82	QUL-79-32M QUL-82-2M	2014 08 29	17.8	601	0.13	5.43	< 0.1	< 0,5	410	< 0.01	16,450	× 0.5	<0.1	0.58	< 30	< 0.05	× 0.5	1,890	1.35	14,01	0.298	₹0.5	455	*05	1,540	< 0.01	864	< 0.01	4 0.1	× 10	0.142	41	1
COLPOR	QUL-82-TAP	2014 06 25	13.6	= 0.1	0.14	5.20	191	< 0.5	< 10	< 0.01	16.600	< 0.5	401	16.7	< 30	0.127	< 0.5	1,610	0.586	1	2.793	< 0.6	456	× 0.5	1.550	< 0.01	818	# 0.01	* Q.T	× 10	0.137	41	5
610.41	QUL-83-2M	2014 GB 25	18.4	€0,1	0.14	6.43	= 0.1	*Q.6	4 10	< 0.01	18,500	40.5	×0.1	0.61	e 30	4 0.05	× 0.5	1,890	1.20	- Inches	0.292	< 0.5	466	405	1 540	4 D.01	823	< 0.01	401	× 10	0.142	41	
GUL-83	GUL-84-116	2014 08 25	15.3	< 0.1	0.15	5.30	+ 0.1	< 0.0	< 10	< 0.01	16 600	× 0.5	401	0.53	< 30	< 0.05	* 0.5	1,900	1,10	1	0.285	405	400	< 0.5	1,540	< 0.01	823	< 0.01	€0.1	× 10	0.14	41	-
QUL-84 QUL-85	QUL-85-1M	2014 98 25	15,2	€0.1	0.13	5.25	* 0.1	€ ₹,65	× 10	< 0.01	16.900	< 0.5	<01	< 0.5	4 30	< 0.06	105	1,860	1.15	-	0.292	€0.5	453	1 40.5	1,510	4 0.01	810	< 0.01	< 0.1	< 10	0.142	61	1
QUL-86	DUL-80-1M	2014 08 25	14.0	s 0.1	0.16	5.47	< 0.1	< 5.5	4 10	< 5.01	16,800	405	<0.1	< 0.5	< 30	4 0.05	< 0.5	1,64D	1,15		0.298	< 0.5	462	40.5	1.570	< 0.01	528	< 0.01		< 10	D.141	87	-
QUL-87	QUL-87-0M	2014 08 25	13.7	s 0.1	0.14	5 28	+01	40,5	× 10	< 0.01	18,300	× 0.5	<01	0.52	4 30	< 0.05	< 0.5	1.850	1.17	-	0.267	×0.5	452	× 0.5	1,530	× 0.01	819	< 0.01	4 0.1	< 10	0.142	61	-
The Page	QUL-97-13M	2014 08 25	24.6	< 0.1	0.11	5.38	< 0.1	× 0.6	4 10	< 0.01	17.800	=05	401	0.8	4 30	< 0.05	<0.5	1,950	1.42	1	0.265	405	471	< 0.5	1 850	< 0.01	1,180	< 0.01	401	< 10	D.151	<1	1
	QUL-87-65M	2014 08 25	16.1	€ 0.1	0.11	5.18	× 0.1	< 0.15	< 10	40.01	18.100	€0.5	<0.1	0.6	< 30	< 0.05	0.51	2,080	1.09	1	0.283	<05	475	405	1 500	< 0.01	1,050	4 0.01	< 0.1	< 10	0.151	51	-
OUL-96	QUL66-2M	2014 08 28	16,5	< 0.1	4.13	5.24	< 0.1	< 0.0	4 10	< 0.01	16.700	< 0.6	< 0.1	0.53	< 30	< 0.05	0.62	1,960	1,45	+ 0.01	0.308	<0.5	461	+ 0.6	1.550	< 0.91	834	< 0.01		= 10	0.139	<1	1
Chr-ab	GUL-89-1M	2014 08 27	36.4	40.1	0.13	5.72	4 0.1	< 0.15	< 10	< 0.01	16,000	₹0.5	< 0.1	1.73	31	< 0.08	0.52	1.860	1,88	= G.01	0.798	< 0.5	457	× 0.6	1.510	¥ 0.01	849	< 0.01	+0.1	< 10	D.142	×1	
QUL-90	QUL-90	2014 08 27	38,4	₹ 0.1	0,56		× 0.1	* G.IS	₹ 10	< 0.01	16,400	≥0.5	401		71	< 0.05	0.63	1,960	0,3	* 0,01	231e	405		< 0.5	1.580	4 D.D1	884		+0,1		0.134	51	-
400.00	QUL-BO-TAP	2014 08 27	10,4	0.17	0.72			< 0.5	× 10	< 0.01	22,400	r 0.5	< 0.1		74	< 0.05	< 0.5	4,580	3.74	< 0.01	0.287	< 0,5		< 0.5	4.450	< 0.01	2.220		+ C,1	< 10	0.024	<1	-
QUL-91	QUL-91	2014 08 28	37	×0.1	0.15		-	* Q.65		< 0.01	18.600	< 0.5	< 0.1		+ 30		0.67		1,09	< 0.01	0.322	<05	496	< 0.5	1,550	* Q.01	862	₹ 0.01		< 10	D.144	×1	-
QUL-92	QUL-92	2014 08 28	41.3	s-0.1	0.15	5.93	× 0.1	< 0.6	< 10	< 0.01	16,500	+ 0.5	<01		37	< 0.05	0.7	1,950	2.22	< 0.01	0.341	< 0.5	475	<05	1,570	< 0.01	837	< 0.01		₹ 10	0.143	×1	-
QUL-93	QUL-60-TAP	2014 00 28	43	0,17	0.86		4 0.1	< 0,5	< 10	+ 0.01	43,300	€ 0.5	< 0.1		5B	0.303	0.5	11.500	2,06	< 0.01	0.543	< 0.5	537	4 0,5	3.340	< 0.01	3,316	< 0.01			0.154	4.1	36
QUL-84	GUL-94	2014 08 25		< 0.1	0.10		× 0.1	< 0.5	< 10	< 0.01	16,700	40.5	1 401	1.50	60	4 D 06	0.72	1.9eD	3.28	₹ 0.01	0.331	< 0.5	496	105	1.820	€ 0.01	801	5 0.01	1 S D 1	× 10	0.149	41	-

BACAZINO | 11-111 Concentration greater from BCWGG forceto Life (ANY) guideane

BOLD Committee greater trans ECRCO Divising Water (CM) guideline.

Seader | Corcumption greater than (CACC Agente UPs (Score) [AN] quadeline. Germenthathujt greater there are around to Consultan Dantary Water Cupility (Delt) galaxies

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§ Brisk Defaction Approved Weller Qualler Unitations 2006 Edition updated 2514

§ A Cumparature of Warling Wester Shashly Justiatives for Edward Columbia, updated August 2006

\*Caudative values with jiet, emiddle street Entitionative or Heartwise.

\* receipt Consist Existing Water Laphindres, 2012.

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

Sample Location	Sample 60				Ph	ysical Paramet	ers													······
		Sample Date (yyyy mm dd)	Hardness (mg/l.)	pH (pH)	Turbidity	Conductivity (u8/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Fotal Nitrogen (N) Img/L)	Ammonia Mirogen (pgA.)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (va/L)	Altrain+Altrie Altrogen (vg/L)	Chioride (mg/L)	Fluoride ipu/L)	Sulpkate (mg/L)	Total Alkalinity (as CeCO3) (mg/L)	Ortho- phosphate (mg/L)	Total Phosphorus (mg/L)
C Standards		HIM																AND THE RESERVE TO TH		
BCWDG Aquato Life (AW) <sup>ks</sup>			rva	5,5-9.0	Change of 8	n/e	nia	Change of 25	nie	ps/e	5,680-18,400 <sup>4</sup>	32,800	50 (CI<2)	32,400	600	066,2- 1224,3 <sup>4</sup>	n/e	ri/a	c/ii	0.005-0.015
BCWGG Aquistic LF	s (30day) (AW) <sup>b.s.h</sup>	n/a	n/a	Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	1,000-1,770*	3,000	20 (CI<2)	3,000	150	nle	128-309*	rda	n/a	n/a	
BCWQG Drinking W	n/e	8.5-8.5	1	r/e	n/a	N/M	n/e	nte	nla	10,000	1.000	10,000	250	1,000	500	IV.	nia	0.01		
Consider Drinking V	Nater Quality (DW)*	nte	6.5-8.5	U <sub>1</sub> D <sub>1</sub>	r/o	500	n/g	to/si	nta	rota	10,000	1,000	nda	250	1,500	500	nte	néa	re/a	
OUL-EQUIPMENT BLANK	CULEOUPMENT SCAN	2014 06 12	< 0.5	6.67	< 0.1	<2	< 10	<3	< 0.5	< 0.05	< 5	< 5	<1		< 0.5	< 20	< 0.5	41	< 0,001	< 0.002
	GUL-ECILIPMENT ULAW	2014 08 14	< 0.5		< 0.1		< 10	43	< 0.5	< 0.05	< 5	< 5	<1		< 0.5	< 20	< 0.5	<1	< 0.001	€0.002
	GUL-EQUIPMENT BLAM	2014 08 15	< 0.5		< 0.1		<10	< 3	< 0.5	< 0.05	< 6	< 5	<1	***************************************	€0.5	< 23	< 0.5	<1	< 0.001	< 0.002
	GUL-EQUIPMENT BLANK	2014 08 16	< 0.5		< 0.1		< 10	< 3	< 0.5	< 0.05	< 5	45	<1	-	< 0.5	4 20	< 0.5	<1	< 0.001	< 0.002*
	EQUIPMENT BLANK	2014 08 19	< 0.5	5.85	0.25	€2	410	< 3	< 0.5	< 0.05	45	4.5	<1		< 0.5	< 20	< 0.5	<1	< 0.001	< 0.002
	GUL-LOLAPMENTICLATA	2014 08 19	< 0.5	3.1	< 0.1	<b>42</b>	< 10	< 3	< 0.5	< 0.05	< 5	< 5	41		< 0.5	< 20	< 0.5	<1	< 0.001	< 0.002*
	EQUIPMENT BLANK	2014 08 21	< 0.5	0.11	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	* 5	< 5	<1		< 0.5	< 20	< 0.5	×1	< 0.001	0,0223
	DI-BLANK	2014 08 28	< 0.5						-	-	-	*							-	
	FILTER-BLANK	2014 08 28	< 0.5	-					-							•			-	-
	KEM18	2014 08 28	< 0.5	5.40	0,15	< 2	€ 10	4.3	< 0.5	< 0.05	< 5	< 5	£1		< 0.5	< 50	< 0.5	5.1	< B.001	< 0.002*
OUL-FEELD BLANK	FIELD BLANK	2014 08 06		5.68	< 0.1	< 2	<10	< 3		< 0.05	< 5	< 6	×1	-	≤ 0.6	₹ 20	< 0.5	<1	# 0.001	< 0.002*
	FIELD BLANK DI	2014 08 08	< 0.5	5.48	< D.1	< 2	< 10	× 3	< 0.5	< 0.05	< 5	< 5	41	-	< 0.5	< 20	< 0.5	<1	< 0.901	4 0.002°
	FIELD BLANK	2014 08 10		5.97	< 0.1	<b>*2</b>	< 10	< 3		< 0.05	< 5	< 5	41		< 0.5	< 20	< 0.5	<1	< 0.001	< 0.002"
	QUL-FIELD BLANK	2014 09 15		*	<0.1		<10	< 3	-	< 0.05	< 6	< 6	< 1		< 0.5	< 20	< 0.5	<1	< 0.001	< 0.002€
	FIELDBLANK	2014 08 12	< 0.5	6.49	< 0.1	<2	< 10	<3		€ 0.05	<5	<b>45</b>	<1		< 0.5	< 20	< 0.5	* 1	× 0.001	< 0.002 <sup>4</sup>
	FIELDBLANK	2014 08 17	< 0.5	5.64	< 0.1	<2	< 10	<3		< 0.05	46	< 6	41	*	< 0.5	< 20	<0.5	< 1	< 0,001	< 0.002"
	ALS FIELD BLANK	2014 08 12	< 0.5	5.81	< 0.1	<2	< 10	< 3		< 0.05	< 5	< 6	<1	< 5.1	< 0.6	< 20	< 0.5	<1	< 0.001	< 0.002*
	FIELD BLANK	2014 08 12	< 0.5	6.49	< 0.1	< 2	< 10	<3	-	< 0.05	< 5	= 5	<1	-	< 0.5	< 20	< 0.5	e1	< 0.001	< 0.002*
	FIELD BLANK	2014 08 17	< 0.5	5.64	< 0.1	< 2	< 10	×3		c 0.06	< 5	4.5	<1		< 0.5	4 20	₹0.5	×1	< 0.001	< 0.002°
	QULFIELDBLANK	2014 08 19	< 0.5	5.69	< 0.1	<2	< 10	<3		< 0.05	< 5	45	<1		€ 0.5	< 20	< 0.5	<1	< 0.001	< 0.002*
	FIELD BLANK	2014 08 21	< 0.5	*	< 0.1		< 10	<3		< 0.05	< 5	< 5	<1		< 0.5	< 20	< 0.5	<1	< 0.001	< 0.002
	QUL-19-FB	2014 08 27	< 0.5	-	0.15		< 10	€3		< 0.05	4.5	4.5	41		< 0.5	< 20	₹0.5	<1	< 0.001	< 0.002°
QUL-ISCO-BLANK	ISCO-BLANK	2014 08 27	6.88										-			-	-		-	
QUL-TRIP BLANK	TRIP-BLANK	2014 08 27	< 0.5		< 0.1	-	< 10	< 3		< 0.05	4.5	< 5	<1		< 0.5	< 20	< 0.8	<1	< 0.001	4 8,002

- All terms defined within the body of SNG-Laveline report (are lightle upon enquent).

  \* Denotes conceptantion has then indicated detection limit or RPO less than indicated within
- · Dunetes emplyels not conducted.
- ale Denotes no explinable standard.
- \* RPDs are not normally calculated where any or man concentrations are true than the times MDL.

E-MACHED .	Concentration greater than BCHADG Aquatic Life (ARV) guideline.
BOLD	Concentration greater than ECVNQG Drinking Water (DW) guideline,
SHAQUID	Concentration preater than BCWGG Aquatic Life (30ds y) (AW) guideline.
POLO	Concentration greater than or equal to Carredian Drinking Water Quality (DVI) guideline.
	Concentration property than Sect.

- \* Laboratory detaction limit out of range,
  \* Straigh Columbia Approved Weter Quality Guidelines 2006 Edition, updated 2014.
- \* Health Careda Onniving Water Guidelines 2012.
- Secondary chronic or chronic value, not 30 day mean.

  Guideline not applicable for elle situation.
- Guideline for Nitrata applied

- A Composition varies with pht, and or Temperature or Hardness.

  \*\*Guideline varies with pht, and or Temperature or Hardness.

  \*\*Guideline varies with pht, and or Temperature or Hardness.

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  \*\*Guideline varies with pht, and or Temperature or Hardness.

  \*\*Guideline varies with pht, and or Temperature or Hardness.

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

Sample Location		Sample Date									·			Di	saolved Me	Cule		Calmar Anhard											
	Sample		Discolved Aluminum	Dissolved Celclum (mg/L)	Dissolved from	Dissolved Magnesium Ima/Li	Dissolved Manganese (ug/L)	Dissolved Potessium (mg/l.)	Dissolved Sodium (mg/L)	Antimony (ug/L)	Arsenic (µg/L)	Bartum (pofi.)	Beryllium tro/L)	Boron (µg/L)	Cadmium (wd/L)	Chromium (µg/L)	Cobelt (µµ/L)	Copper (ug/L)	Lond (µg/L)	Lithium (µg/L)	Molybdenum (up/L)	Nickel (pg/L)	Selenkum (µg/L)	Billyer (yg/L)		Titanium	tiranium (µg/L)	Vaxadium (ug/L)	
C Standards		(yyyy inm dd)	(1-2-1-)	V-0-01	76-7-7	(-55-5)	-grey	- Indian	- Graphic	- September	1616-17	ip-g-c1	ageg rasy	1.1646-5	Desprey	19-81	I Market	April 1	Take Ca	Ment /	Appar	grant	Helbury	Gran-7	(hghr.)	(bysc)	(hour)	1 1	(yg
BCWQG Aquatic Life (AW) <sup>b,c</sup>			100°	nia	350	n/a	n/a	n/a	n/a	n/s	nia	n/u	рJa	n/a	nAu	nés	n/s	nia	nie	ndu	rJa	n/a	n/a	na	relig	NVA	nia	h/a	nA
BCWDG Aquetic Life	(30day) (AW) <sup>hch</sup>		50 <sup>4</sup>	nda	rva	rvin	n/s	nia	du	nis	nia	n/a	rula	rida	r/u	n/a	rus	rsiu	n/a	FJA	n/m	(N/M	nia	nis	nia	ruis	nin	n/a	nii
BCWQG Orinking W	later (DW) <sup>0,0</sup>		200	n/a	rutes	n/a	nie	n/n	n/a	rule	mila	row	n/a	nia	n/a	nAu	TION	n/s	n/u	IUE	n/a	rs/a	rife.	rue	n/a	rua	rsAn	n/m	nā
Cenedian Danking V			r/a	mia	n/a	nig	n/p	ri/a	rela	nie	nZp	n/a	m/s	rs/a	ruja	nia	n/a	n/a	nte	n/a	rva	n/a	ri/n	nia	nás	rub	n/a	n/a	n/a
	OUL-EGUPMENT BLANK	2014 08 12	<3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1		< 0.05	× 0.5	< 0.05	× 0.5	< 0.5	< 0.01	10.6 >	< 10	< 0.01	51	1 8 3
BLANK	CUL-EQUIPMENT BLADER	2014/08/14	< 3	< 0.05	< 30	<01	< 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	4 0.01	51	9
	CUL EQUIPMENT BLANK	2014 06 15	< 3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	€ 0.05	< 0.1	<0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	₹10	× 0.01	51	
	GUL EQUIPMENT BLANK	2014 06 16	<3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	₹0.1	<01	< 0.06	< 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	K
	EQUIPMENT BLANK	2014 06 19	€3	0.129	< 30	< 0.1	0.448	< 0.05	< 0.05	< 0.1	<0.1	0.114	< 0.1	< 10	< 0.01	€0.5	< 0,1	< 0.5	< 0.05	<0.5	< 0.05	< 0.5	< 0.5	× 0.01	< 0.01	410	< 0.01	<1	*
	GU, -EQUIPMENTILLANK	2014 08 19	<3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	€ Ú.1	<01	< 0.05	× 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	<0.5	< 0.6	< 0.01	× 0.01	< 10	< 0.01	<1	4
	ECNIPMENT BLANK	2014 06 21	<3	0.121	< 30	< 0.1	0.186	< 0.05	0.574	< 0.1	<01	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	0,14	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	<1	
	DI-BLANK	2014 08 28	<3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	<01	< 0.05	< 0,1	≥ 10	< 0.01	< 0.5	40.1	< 0.5	< 0.05	< 0.5	< 0.05	<0.5	< 0.5	< 0.01	* 0.01	< 10	< 0.01	<1	4
	FILTER-BLANK	2014 08 28	<3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	<0.1	< 0.05	< 0.1	< 10	< G.C1	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	<1	1
	KEMIB	2014 08 28	€3	< 0.05	< 30	<01	< 0.05	≪ 0.05	< 0.05	< 0,1	401	< 0.05	< 0.1	4 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	€ 0.5	s 0.5	< 0.05	* 0.01	< 10	4 D.01	<1	-
JUL-FIELD BLANK	FIELD BLANK	2014 06 06	-	*		-	-	-	-			-					-	-	-	-		-	-	-				-	1 .
	FIELD BLANK DI	2014 08 08	43	< 0.05	< 30	CO1	< 0.05	< 0.05	< 0.05	< 0.1	<01	< 0.05	< 0.1	1 410	< 0.01	< 0.5	€0.1	< D.5	< 0.05	< 0.5	< 0.05	< 0.5	× 0.5	< 0.01	× 0.01	× 10	< 0.01	*1	1 4
	FIELD BLANK	2014 08 10	-			-	-	-	-		-					-			-	-	-	-						,	1
	QULIFIELD BLANK	2014 08 15	and and			-								-				-				-		14					- mark
	FIELDBLANK	2014 08 12	-				,									*	p.		-			-	*	-					
	FIELDBLANK	2014 08 17																											-
	ALS FIELD BLANK	2014 08 12		*								-			-								*						1
	FIELD BLANK	2014 08 12					4				-			-	-			-		*	-	-	-	-					1
	FIELD BLANK	2014 08 17	+	×	-4						-	*		-				-				-	-	-				-	1
	QUL-FIELDBLANK	2014 08 19	-		-	-	-				-				*		-		-			-							1
	FIELD BLANK	2014 08 21		*		-					-	*		-					-	4			A CONTRACTOR OF STREET	-			1		-
	QUL-19-FB	2014 06 27	-								-						-					-		-	at work or the control of	-		-	1
DUL-ISCO-BLANK	ISCO-BLANK	2014 08 27			*	-					-			-		*	-	-				-					-	-	1
QUL-TRIP BLANK	TRIP-BLANK	2014 09 27	-						1		1	-	-	*****		-constitutions	arapoint to	-	-	****		-		-	-		-	1	-

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

· Devotes concentration less than indicated delection Smit or RPO less than indicated value.

n'u Danolés ne applicable standard.

\* RPOs are not narreally calculated where one or more concentrations are (eas then tive times MDL.

ENADED Concentration greater than SCHOG Aquetic Life (AW) guideline. BOLD Concentration greater their BOWGO Dinking Water (DW) guidaline. SHADID Concentration greater than BCANG Aquatic Life (30sby) (AM) guideline.

Gancentration greater than or equal to Ganadian Divising Water Grailly (CW) guideline

DOLLY
Connections places rained and connection of the property

4 Guideline veries with pirt, and/or either Temperature or Hardness. \* Guideline varies will pit, and or Temperature or Hardness.

\* Healty Carmin Orintary White Gordalines, 2012.

\* Secondary channic as alregale uples, not 30 day creson \* Culpulno not applicable for alle attackers.

Guideline for Highest applied.

\* This local afterophanies pushed than it is intreased at false productively odd is, bound on appling covariant or an average of buttoner samples and is not applicable to a imple secretic results of the productively and is bound on a facilities of based on a familiarity of the productively and is a familiarity of the productively and is a familiarity of the productively and is a familiarity of the productively of the productive of the productively of the productive of the productive of the productive of the productive of the productive of the productive of the productive of the productive of the productive of the productive of the productive of the productive of the productive of the productive of the productive of the productive of the productive of the p

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

		Sample Date																Yotal Metals			_												
Sample Location	Bample		Aluminum	Antimony (up/L)	Araonic (sg/L)	: Sarium	Beryllium (ap/L)	Dismum	Beron (und )	Cadmism (µg/L)	Cajolum (up/L)	Chromium	Cobel	Copper	Iron Junii.)	Leed (up/L)	Lithium (pg/L)	Magnesium (ug/L)	Manganusa (µg/L)	Marcury (uall.)	Molybdanum (ua/L)	Nickel (upA.)	Potassium (po/L)	Salenium (µg/L)	Silicon (ug/L)		Bodlum (ug/L)	Theilium	Tin (part.)	Titaniem (ug/L)	Uranium Iug/L1	Vanadlum (yg/L)	n 21+
C Standards	100	(yyyy mm dd)	PACE	(paper)	1.1.1.1	(Para)	10-10-1-1	(Page 2)	- G- W	A-84	- 100	100	1012	11111		1,500	11-1-01	1000	- V-y														
C OTENATOR			-		1	1	Security of the second		1	011111111111111111111111111111111111111	1	1	-		- Control of the	-	Assistantisti	The state of the s		1			373,000-					-					1
BCWOG Adueto Life (AW) <sup>LC</sup>			nfe	30	5	5,000	U/B	n/a	1,200	0,016-0.026	n/a	1 (01(+6))	110	0.0-9.2	1,000	27,3-57,7	870	n/e	1000.6-1370		2,000	25-85°	432,000	2	rviu	0.14	n/a	0.3	nsa	2.000	300	é	33
BCYYCG Aquebe Life (30day) [AYV]***			née	N/a	nla	1,000	5.3	rifu	sila	nla	THÝS.	nis	4	2.34	rsle	4.4-5.8	14	ntu	791.1-040*	nactive marcury matheta in	1,000	nkı	n/a	nia	n/a	0.05	nfa	n/a	n/a	n/s	Ne	n/a	7.5
			I CONTRACT	The same of the sa				1	-		1	-		1		-					244		- 60							30	-		
BCMQG Drinking Wi			riéa	14	25	rifa	4	rija	5,000	nin	n/a	n/e	n/a	500	ri/s	50	rive	n/e	n/s	1	250	rila	ren.	10	n/a	nra	87/11	2	11/4	HAI	n/a	144	6.00
Consdian Drinking W	100	6	10	1.000	n/a	n/a	5,000	5	n/a	50	n/a		300	10	nia	n/a	50	1	rJa	nla	n/a	10	n/s	II/a	200,000		riva	6/a	20	nka	5.00		
	CHIPPONIMIEMA SPANIK		<3	< 0.1	< 0.1	AND DESCRIPTIONS OF THE PERSON NAMED IN COLUMN	< 0.1	< 0.5		< 0.01°	< 50	K 0.5		<0.8		< 0.06	< 0.5	< 100	< 0.05	< 0.05	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	- 50	4 0.01	× 0.1	× 10	< 0.01	<1	<,
	CUL-ECAHPMENT BLANK	ASSESSMENT AND DESCRIPTIONS AND DESCRIPT	<3	* D.1	< 0.1	-	< 0.1	< 0.8	< 10	< 0.01	< 50	* 0.5	< 0.1			< 0.05	< 0.5	< 100	< 0.05	b	< 0.05	< 0.5	< 50		< 50	< 0.01	< 50	< 0.01	1.0 -	< 10	< 0.01	51	< 5
	CALL-BOURNENT BLANK	2014 08 15	<3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01°	< 50	< 0.5	< 0.1	-05	~ 30	< 0,05	< 0.5	e 100	< 0.05		< 0.05	< 0.5	< 50	4 0.5	× 50	< 0.01	< 50	< 0.01	€0.1	< 10	< 0.01	harman a sa	6
	CAUL-EQUIPMENT BLANK	2014 05 16	<3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	* 10	< 0.01*	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05		< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	€ 10	< 0.01	51	4:
	EQUIPMENT BLANK	2014 08 19	11,4	< 0.1	< 0.1	0.272	< 0.1	€ 0,5	< 10	< 0.01*	84	< 0.5	< 0,1	< 0.5	< 30	0.11	< 0,5	< 100	0,314		< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0,1	< 10	< 0.01	<1	<;
	SUL-COURMENTELANK	2014 08 10	= 3	€ 0.1	<0,1	< 0.05	< 0.1	< 0.5	* 10	< 0.D1*	4 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	43
1	EQUIPMENT BLANK	2014 08 21	€3	< 0.1	< 0,1	< 0.05	< 0.1	< 0.5	< 10	< 0.01*	108	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	90.0		< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	428	< D.Q3	< 0.1	< 10	< 0.01	<1	€.
	DI-BLANK	2014 08 28	-		-				×		-								-			-		-	-	-				*	*	-	
	FILTER-BLANK	2014 08 28	1	*		-		-		,					~	-		-			-		-					-			*	9	1 .
	KEM10	2014 08 28	462	< 0,1	0.21	7.73	< 0.1	€ 0.5	4 10	« 0.01°	364	< 0.5	0.24		371	0.158	< 0.5	200	10.6	< 0.01	< 0.05	₹0.5	174	< 0.5	1.000	< 0.01	62		< 0.1	27	0.017	1.2	4
QUL-FIELD BLANK	FIELD BLANK	2014 08 08	43	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	1 10	< 0.01°	< 50	< 0.5	₹0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	< 0.05	< 0.05	40.5	< 50	< 0.5	× 50	< 0.01	* 50	< D.01	< 0.1	* 10	< 0.D1	41	1 4
	FIELD BLANK DI	2014 08 08	*3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	* 10	< 0.01°	< 50	< 0.5	< 0.1	4 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	< 0.05	< 0.05	< 0.5	< 50	< 0.5	× 50	≤ 0.01	< 50	< 0.01	< 0.1	* 10	< 0.01	< 1	4;
	FIELD BLANK	2014 08 10	< 3	< 0.1	× 0,1	< 0.05	< 0.1	< 0.5	4 10	<0.01ª	< 50	< 0.5	<0.1	< 0.5	< 30	< 0.06	< 0.5	< 100	< 0.05	< 0.05	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	1 4
	QUIL-FIELD BLANK	2014 08 15	<3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	× 10	< 0.01°	< 50	< 0.5	€0.1	< 0,5	< 30	< 0,05	< 0.5	< 100	< 0.05		< 0.05	< 0.5	< 50	< 0,5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	×:
	FIELDBLANK	2014 06 12	<3	< 0.1	€ 0.1	< 0.05	<0.1	< 0.5	4.10	< 0.01°	< 50	< 0.5	< 0.1	× 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	*	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	×01	< 10	< 0.01	41	<
	FIELDBLANK	2014 08 17	<b>43</b>	< 0.1	< 0.1	< 0.05	< 0.1	< Q.5	₹ 10	€ 0.01ª	< 50	< 0.5	<0.1	€ 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05		< 0.05	< 0.5	< 50	< 0.5	× 50	4 D.01	< 50	< 0.01	< 0.1	« 10	< 0.01	<1	<
	ALS FIELD BLANK	2014 06 12	×3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	* 10	< 0.01°	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	< 0.05	× 0.06	₹ 0.5	× 50	< 0,5	4 50	< 0.01	× 50	< 0.01	401	< 10	< 0.01	41	4
	FIELD BLANK	2014 08 12	43	< 0.1	€0.1	< 0.05	< 0.1	< 0.5	F 10	4 D.01°	< 50	< 0.5	<01	₹05	< 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 41	<:
	FIELD BLANK	2014 06 17	< 3	×9.1	< 0.1	< 0.05	< 0.1	4 0.5	* 10	« D.01 <sup>a</sup>	₹ 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	* 100	< 0.05		× 0.08	< 0.5	< 50	×0.5	< 50	< 0.D1	< 50	10,0 >	< 0.1	< 10	< D.Q1	51	43
	QUL-FIELDOLANK		<3	<0.1	<0.1	< 0.05	< 0.1	< 0.5	• 10	< 0.01*	× 50	< 0.5	K 0.1	< 0.5	< 30	< 0.05	<0.5	< 100	< 0.05	San at piece	< 0.05	€ 0.6	< 50	< 0.5	< 50	<0.01	< 50	< 0.01	<0.1	< 10	< 0.01	61	6
	FIELD BLANK	2014 08 21	<3	< 0.1	< 0.1	< 0.06	< 0.1	< 0.5	* 10	× 0.01*	< 50	< 0.5	<0.1			< 0.05	<05	< 100	< 0.05		< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	× 50	× 0.01	< 0.1	< 10	< 0.01	e.s	× ;
	QUL-18-FB	2014 08 27	43	< 0.1	<0.1	< 0.05	50.1	40.5	• 10	< 0.01°	< 50	< 0.5	<0.1		< 30	< 0.05	< 0.5	<100	< 0.06	< 0.01	< 0.05	< 0.5	< 50	<0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	4 10	< 0.01	<1	×:
QUL-ISCO-BLANK	ISCO-BLANK	2014 08 27	40.6	< 0.1	<01	1.26	< 0.1	< 0.5	- 10	< 0.01°	2,290	< 0.5	< 0.1	the same war to	50	< 0.05	× 0.5	280	2.64	1 -	0.081	< 0.5	75	< 0.5	302	< 0.01	132	< 0.01	< 0.1	< 10	0.015	<1	4.
OUL-TRIP BLANK	TRIP-BLANK	2014 06 27	5.3	< 0.1	-01	war best except the same	< 0.1	< 0,5	and the second	< 0.01°	< 50	< 0.5	= 0.1	-	< 30	< 0.05	-0.5	< 100	< 0.05	< 0.01	< 0.05	40,5	< 50	40.5	< 50	THE RESERVE	distance of the country	CONTRACTOR OF	s 0.1	< 10	< 0.01	s1	4.5

All forms defined within the body of SNG-Lauslin's report (swellighe open request).

Denotes eproprietion less than indicated detection limit or RPD less than indicated value.

- Denetes analysis not conducted.

tile. Denotes to espainable standers.

\* KPDs are not natively calculated where one or more concentrations are less than tive times MDL.

Concentration greater than ECWQQ Aquatic Life (AW) guideline. BOLO Concentration greater than BCWQQ Driving Water (DW) guideline. BHADRO Concentration greater than BCVMGC Aquatic Life (20day) (ANY) guideline. BOLD Concentration greater than or equal to Caredian Drinking Water Quality (DW) guideline.

Concentration greater than 5uDL \* Exhansiony detection land out of range.

\* British Columbia Approved Weber Classify Guidelines 2008 Edition, spicered 2014.

\* A Companyours of Working Water Curatify Guidelines for British Columbia, updated August 2006.

" Guidatino varies with pH, and/or either Temperature or Hardness.

\* Guideline varies with phi, and at Temperature or Hardness.

\* lessifit Consde Distring White Guttelines, 2012,

Guideline for Nitrain application or part of the production of applicable for the shunter.

Guideline not applicable for the shunter.

The cost procedures guideline is a measure of this productively and in second an arrange or surrows asymptes and in not applicable to single surrow or this point in term.

Catalizable based on an a realizable or arrain basis, not overage of 30 day results.

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