



Ministry of Environment Inspection Record

Environmental
Protection
Division

Inspection Number: 18407		Inspection Status: FINAL	
EP System: <u>AMS</u>		Inspection Date: 2015-02-02	
EP System Number: 11678		EP System Status: <u>Active</u>	
Region: <u>Cariboo</u>		Office: <u>Williams Lake</u>	
Trigger: <u>Incident</u>		Incidents of Non-Compliance Observed: <u>Yes</u>	
Non-Compliance Decision Matrix Level: <u>Level 1</u>		Non-Compliance Decision Matrix Category: <u>Category B</u>	
Inspector Name(s): Jack Green		CPIX: <u>1 to 2 = Medium</u>	
Audit:		Total Non-Compliance(s): 2	
Regulated Party: Mount Polley Mining Corporation			
Regulated Party Contact(s): Colleen Hughes			
Legal Address: PO Box 12 Likely, BC V0L 1N0			
Phone No: (250)790-2215		Fax No:	
Contact Email: <u>chughes@mountpolley.com</u>			
Location Description or Site Address: Mount Polley is an open pit copper/gold mine located near Likely, BC.			
Latitude: 52.54547 N		Longitude: 121.63433 W	
Receiving Environment(s): <u>Surfacewater</u>			

Summary

MONITORING AND REPORTING REQUIREMENTS	
Inspection Period: From: 2015-01-16 To: 2015-02-02	
Requirement Source: Permit	
Activity: <u>Office Review</u>	Waste Type: <u>Effluent</u>
Inspection Summary: <p>On 2 February 2015 I received an email from Katie McMahan, containing an incident report for a bypass of sewage material of the authorized works. No notification of this incident had been provided prior to this email.</p> <p>The incident report stated:</p> <p>"This is a bypass of works authorized under Ministry of Environment Permit 11678."</p> <p>No notification of this bypass was received and therefore, no approval or authorization for this bypass was provided by the Director.</p> <p>A root cause analysis was carried out and steps have been taken to prevent a reoccurrence of this incident. See incident report for full details.</p>	Response: <u>Advisory</u>
ACTIONS REQUIRED BY REGULATED PARTY:	
Please ensure all staff involved in incident management are aware of the reporting requirements.	
ADDITIONAL COMMENTS:	

Compliance Summary	In	Out	N/A	N/D
Operations	0	1	0	0
Reporting	0	1	0	0

Inspection Details

Requirement Type: <u>Reporting</u>
Requirement Description:
2.1 Maintenance of Works and Emergency Procedures

The Permittee must inspect the pollution control works regularly and maintain them in good working order. In the event of an emergency or condition beyond the control of the Permittee which prevents continuing operation of the approved method of pollution control or which impairs the operation of approved works, the Permittee must notify Environmental Protection:
By telephone (250-398-4530) if the condition occurs between the hours of 08:00 and 16:30, Monday to Friday on normal working days; and,

By facsimile transmission (250-398-4214) if the condition occurs at any other time.

All such reports must be received within 24 hours of detection of the occurrence.

In addition, emergencies involving spills to the environment (as defined in the Spill Reporting Regulation) must be reported immediately to the Provincial Emergency Program (1-800-663-3456).

Details/Findings:

The cold weather froze the sewage line, impairing the operation of the works. Despite this, no notification was provided.

Compliance: Out

Requirement Type: Operations

Requirement Description:

2.2 Bypasses

The discharge of effluent which has bypassed the designated treatment works is prohibited unless the approval of the Director is obtained and confirmed in writing.

Details/Findings:

Due to the unexpected nature of this incident, no approval was obtained from the Director.

Compliance: Out

Were the following collected during inspection:

Samples? ☐ Photos? ☐ EMS Number

Other (please specify)

Is the Inspection related to an EA Project? ☐ EA Project Certificate Number:

INSPECTION CONDUCTED BY:

Signature

Jack Green

Date Signed

2015-02-05

ENCLOSURE(S) TO REGULATED PARTY & DESCRIPTION:

CVIS Archives

REGULATORY CONSIDERATIONS:

DISCLAIMER:

Please note that sections of the permit, regulation or code of practice referenced in this inspection record are for guidance and are not the official version. Please refer to the original permit, regulation or code of practice.

To see the most up to date version of regulations and codes of practices please visit:
<http://www.bclaws.ca/>

If you require a copy of the original permit, please contact the inspector noted on this inspection record or visit: <http://www2.gov.bc.ca/gov/topic.page?id=DF89089126D042FD96DF5D8C1D8B1E41&title=Publicly%20Viewable%20Authorizations>

It is also important to note that this inspection record does not necessarily reflect each requirement or condition of the authorization therefore compliance is noted only for the requirements or conditions listed in the inspection record.

Ministry of Environment	Cariboo	Mailing Address:	Phone: (250) 398-4530
	Region	400-640 Borland St	Fax: (250) 398-4214
	Environmental Protection Division	Williams Lake, BC V2G 4T1	Website: http://www.gov.bc.ca/env

Payette, Leslie ENV:EX

From: Green, Jack E ENV:EX
Sent: Thursday, February 5, 2015 3:20 PM
To: 'Colleen Hughes'
Subject: RE: PE11678 Inspection Report
Attachments: 2015-01-16 PE11678 Inspection Report.pdf

Sorry about that!

Jack Green

Environmental Protection Officer
Ministry of Environment
Southern Interior Region
Phone: 250-398-4544
Fax: 250-398-4214

24 hour RAPP (Report All Poachers and Polluters) tip-line: 1-877-952-7277
(Conservation Officer Service)

24 hour Spill/Environmental Emergency Reporting: 1-800-663-3456
(Conservation Officer Service)

www.gov.bc.ca

From: Colleen Hughes [<mailto:chughes@mountpolley.com>]
Sent: Thursday, February 5, 2015 3:10 PM
To: Green, Jack E ENV:EX
Subject: RE: PE11678 Inspection Report

Oops, no attachment.

C

From: Green, Jack E ENV:EX [<mailto:Jack.Green@gov.bc.ca>]
Sent: Thursday, February 05, 2015 2:54 PM
To: Colleen Hughes
Cc: Katie McMahan
Subject: PE11678 Inspection Report

Hi Colleen,

Please find attached the inspection report regarding the incident involving the frozen sewage line of 16 January 2015.

If you would like to discuss this further, please call.

Regards,

Jack Green

Environmental Protection Officer
Ministry of Environment
Southern Interior Region
Phone: 250-398-4544
Fax: 250-398-4214

24 hour RAPP (Report All Poachers and Polluters) tip-line: 1-877-952-7277
(Conservation Officer Service)

24 hour Spill/Environmental Emergency Reporting: 1-800-663-3456
(Conservation Officer Service)

www.gov.bc.ca



Ministry of Environment Inspection Record

Environmental
Protection
Division

Inspection Number: 19552		Inspection Status: FINAL	
EP System: <u>AMS</u>		Inspection Date: 2015-02-23	
EP System Number: 11678		EP System Status: <u>Active</u>	
Region: <u>Cariboo</u>		Office: <u>Williams Lake</u>	
Trigger: <u>Incident</u>		Incidents of Non-Compliance Observed: <u>Yes</u>	
Non-Compliance Decision Matrix Level: <u>Level 1</u>		Non-Compliance Decision Matrix Category: <u>Category B</u>	
Inspector Name(s): Jack Green		CPIX: <u>1 to 2 = Medium</u>	
Audit:		Total Non-Compliance(s): 3	
Regulated Party: Mount Polley Mining Corporation			
Regulated Party Contact(s): Colleen Hughes			
Legal Address: PO Box 12 Likely, BC V0L 1N0			
Phone No: (250)790-2215		Fax No:	
Contact Email: <u>chughes@mountpolley.com</u>			
Location Description or Site Address: Mount Polley is an open pit copper/gold mine located near Likely, BC.			
Latitude: 52.54547 N		Longitude: 121.63433 W	
Receiving Environment(s): <u>Surfacewater</u>			

Summary

MONITORING AND REPORTING REQUIREMENTS	
Inspection Period: From: 2015-02-12 To: 2015-02-12	
Requirement Source: Permit	
Activity: <u>Office Review</u>	Waste Type: <u>Effluent</u>
<p>Inspection Summary:</p> <p>On 13 February 2015 Hubert Bunce received notification from Colleen Hughes regarding water overflowing Bootjack Sump into Bootjack Creek. This was first noticed during a routine inspection at 8:00pm on 12 February 2015.</p> <p>Earthworks that separated contact and non-contact water experienced a partial failure, resulting in non-contact water draining into bootjack sump. As a result, the sump overflowed into Bootjack Creek. A pump was installed to reduce water levels in the sump by 12:30pm on 13 February.</p> <p>Steps taken by Mount Polley staff include:</p> <ul style="list-style-type: none"> - straw bales installed downstream of overflow pipe to reduce sedimentation; - second pump installed at Bootjack Sump to move water directly to Serd Sump; - temporary pump installed upstream to direct non-contact water away from Bootjack Sump; - temporary sump installed upstream to redirect water while berm is repaired. <p>The root cause of the incident was identified as water moving through the berm along the culverts possibly due to inadequate packing down of this material.</p> <p>The total volume of water to enter Bootjack Creek from the sump is unknown. No samples were collected at the time of the incident, although previous water quality results for Bootjack Sump were provided.</p>	<p>Response: <u>Advisory</u></p>
ACTIONS REQUIRED BY REGULATED PARTY:	
<p>In response to the advisory letter issued to Mount Polley of 18 February 2015, which has since been withdrawn, Mount Polley has provided the required information regarding the results of inspections of all mine-affected water control works, the adequacy and integrity of mine-affected water control works and improvements undertaken. No further actions are required.</p>	
ADDITIONAL COMMENTS:	

Compliance Summary	In	Out	N/A	N/D
Discharge	0	1	0	0
Operations	0	1	0	0

Inspection Details

Requirement Type: Reporting

Requirement Description:

2.1 Maintenance of Works and Emergency Procedures

The Permittee must inspect the pollution control works regularly and maintain them in good working order. In the event of an emergency or condition beyond the control of the Permittee which prevents continuing operation of the approved method of pollution control or which impairs the operation of approved works, the Permittee must notify Environmental Protection:

By telephone (250-398-4530) if the condition occurs between the hours of 08:00 and 16:30, Monday to Friday on normal working days; and,

By facsimile transmission (250-398-4214) if the condition occurs at any other time.

All such reports must be received within 24 hours of detection of the occurrence.

In addition, emergencies involving spills to the environment (as defined in the Spill Reporting Regulation) must be reported immediately to the Provincial Emergency Program (1-800-663-3456).

Details/Findings:

Inspections of all sumps are conducted daily.

The berm failure indicates that it wasn't maintained in good working order.

Notification was provided to Environmental Protection and PEP as required.

Compliance: Out

Requirement Type: Discharge

Requirement Description:

2.2 Bypasses

The discharge of effluent which has bypassed the designated treatment works is prohibited unless the approval of the Director is obtained and confirmed in writing.

Details/Findings:

Due to the unexpected nature of this incident, no approval was obtained from the Director.

Compliance: Out

Requirement Type: Operations

Requirement Description:

2.4.3 Surface run-off control works must be provided for all areas disturbed by roads, open pits, rock disposal sites, and the mill and ore storage area. The surface runoff control system must convey all flows up to a 1 in 10 year 24-hour storm event, and must withstand all flows up to a 1 in 200 year 24-hour storm event without significant damage.

Details/Findings:

The berm failure was not caused by a specific storm event, but by high flows from snowmelt. It is therefore unlikely that the berm could have withstood flows from a 1 in 200 year 24-hour storm event.

Compliance: Out

Were the following collected during inspection:

Samples? <input type="checkbox"/>	Photos? <input type="checkbox"/>	EMS Number <input type="text"/>
Other (please specify) <input type="text"/>		
Is the Inspection related to an EA Project? <input type="checkbox"/>	EA Project Certificate Number: <input type="text"/>	

INSPECTION CONDUCTED BY:	
<i>Signature</i> Jack Green	<i>Date Signed</i> 2015-02-26
ENCLOSURE(S) TO REGULATED PARTY & DESCRIPTION: <input type="text"/>	
CVIS Archives	
REGULATORY CONSIDERATIONS: <input type="text"/>	
DISCLAIMER:	
<p>Please note that sections of the permit, regulation or code of practice referenced in this inspection record are for guidance and are not the official version. Please refer to the original permit, regulation or code of practice.</p> <p>To see the most up to date version of regulations and codes of practices please visit: http://www.bclaws.ca/</p> <p>If you require a copy of the original permit, please contact the inspector noted on this inspection record or visit: http://www2.gov.bc.ca/gov/topic.page?id=DF89089126D042FD96DF5D8C1D8B1E41&title=Publicly%20Viewable%20Authorizations</p> <p>It is also important to note that this inspection record does not necessarily reflect each requirement or condition of the authorization therefore compliance is noted only for the requirements or conditions listed in the inspection record.</p>	

Ministry of Environment	Cariboo	Mailing Address:	Phone: (250) 398-4530
	Region	400-640 Borland St	Fax: (250) 398-4214
	Environmental Protection Division	Williams Lake, BC V2G 4T1	Website:
			http://www.gov.bc.ca/env



Ministry of Environment Inspection Record

Environmental
Protection
Division

Inspection Number: 19565		Inspection Status: FINAL	
EP System: <u>AMS</u>		Inspection Date: 2015-02-25	
EP System Number: 11678		EP System Status: <u>Active</u>	
Region: <u>Cariboo</u>		Office: <u>Williams Lake</u>	
Trigger: <u>Incident</u>		Incidents of Non-Compliance Observed: <u>Yes</u>	
Non-Compliance Decision Matrix Level: <u>Level 1</u>		Non-Compliance Decision Matrix Category: <u>Category B</u>	
Inspector Name(s): Jack Green		CPIX: <u>1 to 2 = Medium</u>	
Audit:		Total Non-Compliance(s): 3	
Regulated Party: Mount Polley Mining Corporation			
Regulated Party Contact(s): Colleen Hughes			
Legal Address: PO Box 12 Likely, BC V0L 1N0			
Phone No: (250)790-2215		Fax No:	
Contact Email: <u>chughes@mountpolley.com</u>			
Location Description or Site Address: Mount Polley is an open pit copper/gold mine located near Likely, BC.			
Latitude: 52.54547 N		Longitude: 121.63433 W	
Receiving Environment(s): <u>Surfacewater</u>			

Summary

MONITORING AND REPORTING REQUIREMENTS		
Inspection Period: From: 2015-02-14 To: 2015-02-14		
Requirement Source: Permit		
Activity: <u>Office Review</u>		Waste Type: <u>Effluent</u>
Inspection Summary: <p>At 1:00am on 14 February 2015 the pump watch labourer at the Central Collection Sump (CCS) noticed that the berm at the overflow culverts at the SE corner of the CCS had been washed out by water and that water was flowing along the Polley Access Road (PAR) and ultimately into Hazeltine Creek.</p> <p>By 2:00am a berm had been constructed to divert this flow away from Hazeltine Creek and into the Till Borrow Pit. This proved effective in redirecting the majority of the flow, however there was some ongoing seepage through the berm, into Hazeltine Creek. By 12:00pm this berm had been reinforced and seepage had ceased.</p> <p>A third vertical turbine pump was connected at the CCS and the water level was lowered to below the outlet culverts, however, due to the extent of the initial washout, there is still some seepage to the Till Borrow Pit.</p> <p>The water level in the Till Borrow Pit remains low and extra pumps have been installed as a contingency.</p> <p>The root causes of the berm failure have been identified as:</p> <ul style="list-style-type: none"> - an extreme rainfall event (approximately 10mm/hr) which occurred between 7:30pm and 8:00pm on the evening of 13 February 2015; - possible inadequate compaction of the material surrounding the culverts; and - blockage of the culverts under the PAR road which would have directed the flow towards the Till Borrow Pits, away from Hazeltine Creek. <p>The total volume of the water to enter Hazeltine Creek is unknown and no samples were collected at the time of the incident, although previous water quality results of the CCS were provided.</p>		Response: <u>Advisory</u>
ACTIONS REQUIRED BY REGULATED PARTY: <p>In response to the advisory letter issued to Mount Polley of 18 February 2015, which has since been withdrawn, Mount Polley has provided the required information regarding the results of inspections of all mine-affected water control works, the adequacy and integrity of mine-affected water control works and improvements undertaken. No further actions are required.</p>		
ADDITIONAL COMMENTS: <div style="border: 1px solid black; height: 50px; width: 100%;"></div>		

Compliance Summary	In	Out	N/A	N/D
Operations	0	2	0	0
Reporting	0	1	0	0

Inspection Details

Requirement Type: <u>Reporting</u>
Requirement Description: <p>2.1 Maintenance of Works and Emergency Procedures</p> <p>The Permittee must inspect the pollution control works regularly and maintain them in good working order. In the event of an emergency or condition beyond the control of the Permittee which prevents continuing operation of the approved method of pollution control or which impairs the operation of approved works, the Permittee must notify Environmental Protection: By telephone (250-398-4530) if the condition occurs between the hours of 08:00 and 16:30, Monday to Friday on normal working days; and, By facsimile transmission (250-398-4214) if the condition occurs at any other time.</p> <p>All such reports must be received within 24 hours of detection of the occurrence.</p> <p>In addition, emergencies involving spills to the environment (as defined in the Spill Reporting Regulation) must be reported immediately to the Provincial Emergency Program (1-800-663-3456).</p>
Details/Findings: <p>Inspections of all sumps are conducted daily. At 2:30pm on 13 February 2015 the CCS was inspected by Don Parsons and Lee Nikl (Golder Associates) and was found to have adequate freeboard.</p> <p>The fact that the sump failed indicates that it was not "in good working order".</p> <p>Notification was provided to Environmental Protection and to PEP as required.</p>
Compliance: <u>Out</u>
Requirement Type: <u>Operations</u>
Requirement Description: <p>2.2 Bypasses</p> <p>The discharge of effluent which has bypassed the designated treatment works is prohibited unless the approval of the Director is obtained and confirmed in writing.</p>
Details/Findings: <p>Due to the unexpected nature of this incident, no approval was obtained from the Director.</p>
Compliance: <u>Out</u>
Requirement Type: <u>Operations</u>
Requirement Description: <p>2.4.3 Surface runoff control works must be provided for all areas disturbed by roads, open pits, rock disposal sites, and the mill and ore storage area. The surface runoff control system must convey all flows up to a 1 in 10 year 24-hour storm event, and must withstand all flows up to a 1 in 200 year 24-hour storm event without significant damage.</p>
Details/Findings: <p>While there was a significant storm event on 13 February 2015, it did not constitute a 1 in 200 year 24-</p>

hour storm event and resulted in significant damage to the CCS.	
Compliance: <u>Out</u>	
Were the following collected during inspection:	
Samples? <input type="checkbox"/>	Photos? <input type="checkbox"/> EMS Number <input type="text"/>
Other (please specify) <input type="text"/>	
Is the Inspection related to an EA Project? <input type="checkbox"/>	EA Project Certificate Number: <input type="text"/>

INSPECTION CONDUCTED BY:	
<i>Signature</i> Jack Green	<i>Date Signed</i> 2015-03-05
ENCLOSURE(S) TO REGULATED PARTY & DESCRIPTION: <input type="text"/>	
CVIS Archives	
REGULATORY CONSIDERATIONS: <input type="text"/>	
DISCLAIMER:	
<p>Please note that sections of the permit, regulation or code of practice referenced in this inspection record are for guidance and are not the official version. Please refer to the original permit, regulation or code of practice.</p> <p>To see the most up to date version of regulations and codes of practices please visit: http://www.bclaws.ca/</p> <p>If you require a copy of the original permit, please contact the inspector noted on this inspection record or visit: http://www2.gov.bc.ca/gov/topic.page?id=DF89089126D042FD96DF5D8C1D8B1E41&title=Publicly%20Viewable%20Authorizations</p> <p>It is also important to note that this inspection record does not necessarily reflect each requirement or condition of the authorization therefore compliance is noted only for the requirements or conditions listed in the inspection record.</p>	

Ministry of Environment	Cariboo	Mailing Address:	Phone: (250) 398-4530
	Region	400-640 Borland St	Fax: (250) 398-4214
	Environmental Protection	Williams Lake, BC V2G	Website:
	Division	4T1	http://www.gov.bc.ca/env

Payette, Leslie ENV:EX

From: Green, Jack E ENV:EX
Sent: Wednesday, February 25, 2015 4:42 PM
To: 'dreimer@mountpolley.com'
Cc: Bourgeois, Jason ENV:EX; Bunce, Hubert ENV:EX; Hoffman, Al MEM:EX; Dahl, RK ENV:EX
Subject: Bootjack Sump and CCS Incident Follow-up
Attachments: 2015-02-25 PE11678 Letter.pdf; 2015-02-25 PE11678 Bootjack Sump Incident Inspection Report.pdf; 2015-02-25 PE11678 CCS Incident Inspection Report.pdf

Dale,

In response to your letter of 25 February 2015, please find attached letter and inspection reports.

Regards,

Jack Green

Environmental Protection Officer
Ministry of Environment
Southern Interior Region
Phone: 250-398-4544
Fax: 250-398-4214

24 hour RAPP (Report All Poachers and Polluters) tip-line: 1-877-952-7277
(Conservation Officer Service)

24 hour Spill/Environmental Emergency Reporting: 1-800-663-3456
(Conservation Officer Service)

www.gov.bc.ca



PE11678

25 February 2015

****SENT VIA EMAIL****

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

Dear Mr. Dale Reimer

Thank you for your response to the advisory letter issued to Mount Polley on 18 February 2015. Upon reviewing the information you provided, we have decided to withdraw the advisory letter.

Please see the attached inspection reports ref. 19552 and 19565 regarding the bypasses which occurred from Bootjack Sump and the Central Collection Sump respectively.

If you have any questions or comments regarding these reports, please feel free to contact the undersigned at (250) 398 4544.

Yours truly,

Jack Green
Environmental Protection Officer
Cariboo Region

Encl: Inspection Reports ref. 193552 & 19565

cc: Jason Bourgeois, Section Head, Environmental Protection Division, Compliance Section
Hubert Bunce, Acting Director Mount Polley Operations, Ministry of Environment
Al Hoffman, Chief Inspector of Mines, Ministry of Energy and Mines
Detective Sergeant Kelly Dahl, Conservation Officer Service, Ministry of Environment



Memorandum

Ministry of Environment
Cariboo Region

400-640 Borland St. Williams Lake
BC V2G 4T1
Fax: 250-398-4214

Date: 2 March 2015

File: PE11678

To: Hubert Bunce

Re: Bootjack Sump and Central Collection Sump Bypasses Compliance Response

The inspection records issued to Mount Polley Mining Corporation on 25 February 2015, were prepared in response to the bypass of Bootjack Sump on 12 February 2015 and the Central Collection Sump (CCS) on 14 February 2015.

Originally the Ministry issued an Advisory letter in response to these incidents, dated 18 February 2015. This assessed the non-compliance of these incidents against the requirements of the Pollution Abatement Order (PAO), issued to Mount Polley Mining Corporation on 5 August 2015. Mount Polley provided a response to this Advisory letter on 25 February 2015, questioning whether these incidents were out of compliance with the PAO, and requesting the withdrawal of the Advisory letter.

After reviewing the information in Mount Polley's response, and following discussions with compliance staff it was decided that the Permit conditions (Permit PE11678) were more appropriate to measure compliance against for these incidents, than the conditions of the Order. On 25 February 2015 the Advisory letter was withdrawn and the inspection reports were issued.

Ministry of Environment - Photo Record Sheet

PE11678	Mount Polley Mining Corporation
August 19, 2015	Mount Polley Mine

Central Collection Sump. Inflow from the Long Ditch and West Ditch is at the far end.



Weir at head of Hazeltine Creek. Note the fish barrier upstream (left) of the weir.



Ministry of Environment - Photo Record Sheet

PE11678	Mount Polley Mining Corporation
August 19, 2015	Mount Polley Mine

Hazeltine Creek has been lined with rock the whole way down. The banks have been graded, seeded and planted with native shrubs and bushes.



Discharge channel leading from the sediment control ponds at the end of Hazeltine Creek, leading to Quesnel Lake. Edney Creek was being diverted through the ponds and this channel at the time of the inspection, while the new creek channel was under construction.



Ministry of Environment - Photo Record Sheet

PE11678	Mount Polley Mining Corporation
August 19, 2015	Mount Polley Mine

Edney Creek channel has been lined with rock material and logs have been anchored along the creek bed to create fish habitat.



Snow blowers/misters at the Main Embankment Seepage Pond to increase evaporation.



Ministry of Environment - Photo Record Sheet

PE11678	Mount Polley Mining Corporation
August 19, 2015	Mount Polley Mine

Springer Pit. The discharge from the mill is in the centre of the picture.



3 pumps in Springer Pit pumping water to the CCS for use as mill process water.





Ministry of Environment
Inspection Record

**Environmental
Protection
Division**

Inspection Number: 21927		Inspection Status: FINAL	
EP System: <u>AMS</u>		Inspection Date: 2015-08-19	
EP System Number: 15087		EP System Status: <u>Active</u>	
Region: <u>Cariboo</u>		Office: <u>Williams Lake</u>	
Trigger: <u>Planned</u>		Incidents of Non-Compliance Observed: <u>Yes</u>	
Non-Compliance Decision Matrix Level: <u>Level 2</u>		Non-Compliance Decision Matrix Category: <u>Category A</u>	
Inspector Name(s): Jack Green		CPIX: <u>Over 2 = High</u>	
Audit:		Total Non-Compliance(s): 1	
Regulated Party: Mount Polley Mining Corporation			
Regulated Party Contact(s): Colleen Hughes			
Legal Address: Box 12 Likely BC V0L1N0			
Phone No: (250)790-2617		Fax No: (999)999-9999	
Contact Email: chughes@mountpolley.com			
Location Description or Site Address: Mount Polley is an open pit copper/gold mine located near Likely, BC.			
Latitude: 52.54547 N		Longitude: 121.63433 W	
Receiving Environment(s): <u>Air</u>			

Summary

MONITORING AND REPORTING REQUIREMENTS		
Inspection Period:		
From: 2015-08-19	To: 2015-08-19	
Requirement Source:		
Permit		
Activity: <u>On Site</u>	Waste Type: <u>Air</u>	
Inspection Summary: <p>Site inspection with Chris Swan (MOE Impact Assessment Bio), accompanied by Colleen Hughes (MPMC Environmental Coordinator). The weather during the inspection was partly cloudy with little wind.</p> <p>Upon arrival at Mount Polley, significant fugitive dust was observed on the haul road leading up to the site.</p> <p>The water truck was undergoing repairs for much of the inspection. As a result there was considerable fugitive dust generation across the site, mainly caused by vehicular movement.</p> <p>There is only one large water truck on site. This truck focusses on dust suppression on the main haul roads around the mine which experience heavy vehicular traffic. The haul road leading to the site is not watered.</p> <p>Construction of the Edney Creek channel was underway which required loads of rock to be transported down from the mine site by 2 articulated dump trucks. These trucks generated considerable fugitive dust on the access road leading to the new channel, partly due to the fine particle size. No dust suppression techniques were in effect in this area at the time. While this area cannot be considered "within the operation area" as stated in section 2.5 of this permit, it is still MPMC's responsibility to prevent pollution that could be caused by the generation of fugitive dust.</p> <p>There are 6 large sprinklers set up along the North East perimeter of the tailings storage facility (TSF) (positioned according to prevailing wind direction). These are fed from the main embankment seepage pond and usually 2 of these sprinklers are operational at a time. When necessary, the water truck also travels along the perimeter of the TSF, spraying water over the tailings. MPMC have installed 4 new dust monitoring stations around the TSF. No fugitive dust issues were observed from the tailings impoundment.</p>		Response: <u>Advisory</u>
ACTIONS REQUIRED BY REGULATED PARTY:		
<p>When the water truck was out of service, there appeared to be no plan for suppressing fugitive dust, mainly generated by vehicular movement on site. This is not acceptable. Please provide a brief contingency plan detailing what actions will be taken to suppress fugitive dust in the operational area, during periods when the water truck is unavailable.</p> <p>The main haul road to the site, from the point where the road becomes mine property, is regarded as the "operational area", as it is part of the mine site that experiences mine traffic. MPMC is therefore expected to suppress fugitive dust in this area. Please provide a brief report detailing what actions will be taken to fulfill this requirement.</p>		

Please ensure these reports are submitted by 18 September 2015.

ADDITIONAL COMMENTS:

--

Compliance Summary	In	Out	N/A	N/D
Operations	0	1	0	0

Inspection Details

Requirement Type: Operations
Requirement Description: 2.5 FUGITIVE DUST CONTROL The permittee shall suppress fugitive dust created within the operation area. Any measured dustfall data shall be compared to the Ministry Objective value of 2.9mg/dm ² /d. If measured ambient air quality compares unfavourably to the Objective value, the Regional Waste Manager will evaluate the sensitivity of the receiving environment, the contribution of the permittee's dustfall sources to the measured ambient values, plus any other pertinent information and may, at his discretion, require the Permittee to implement additional control measures on fugitive dust sources.
Details/Findings: Failure to suppress fugitive dust within the operational area. There is only one water truck on site and this was down for repairs. There didn't appear to be a contingency plan in place for when the water truck was unavailable.
Compliance: Out
Were the following collected during inspection:
Samples? <input type="checkbox"/> Photos? <input checked="" type="checkbox"/> EMS Number <input type="text"/>
Other (please specify) <input type="text"/>
Is the Inspection related to an EA Project? <input type="checkbox"/> EA Project Certificate Number: <input type="text"/>

INSPECTION CONDUCTED BY:	
Signature Jack Green	Date Signed 2015-09-09
ENCLOSURE(S) TO REGULATED PARTY & DESCRIPTION: Photo record	
CVIS Archives	
REGULATORY CONSIDERATIONS: <input type="text"/>	
DISCLAIMER:	

Please note that sections of the permit, regulation or code of practice referenced in this inspection record are for guidance and are not the official version. Please refer to the original permit, regulation or code of practice.

To see the most up to date version of regulations and codes of practices please visit:

<http://www.bclaws.ca/>

If you require a copy of the original permit, please contact the inspector noted on this inspection record or visit: <http://www2.gov.bc.ca/gov/topic.page?id=DF89089126D042FD96DF5D8C1D8B1E41&title=Publicly%20Viewable%20Authorizations>

It is also important to note that this inspection record does not necessarily reflect each requirement or condition of the authorization therefore compliance is noted only for the requirements or conditions listed in the inspection record.

Ministry of Environment	Cariboo Region Environmental Protection Division	Mailing Address:	Phone: (250) 398-4530
		400-640 Borland St	Fax: (250) 398-4214
		Williams Lake, BC V2G 4T1	Website: http://www.gov.bc.ca/env

Ministry of Environment - Photo Record Sheet

PE11678	Mount Polley Mining Corporation
December 3, 2015	Mount Polley Mine

The weir below Polley Lake had been closed on the day of inspection.



Fish/debris barrier upstream of weir consists of 3 fences of graduated mesh.



Ministry of Environment - Photo Record Sheet

PE11678	Mount Polley Mining Corporation
December 3, 2015	Mount Polley Mine

Veolia Water Treatment Plant. The automatic shut off/diversion valves are painted red in the foreground.



Computer image of stages of treatment process.



Ministry of Environment - Photo Record Sheet

PE11678	Mount Polley Mining Corporation
December 3, 2015	Mount Polley Mine

Discharge to Hazeltine Creek.



Settling Pond 1.



Ministry of Environment - Photo Record Sheet

PE11678	Mount Polley Mining Corporation
December 3, 2015	Mount Polley Mine

Outfall from Settling Pond 1 to Quesnel Lake. Settling Pond 2 can be seen beyond the rock overflow.



Lower Hazeltine Creek diversion channel.





Ministry of Environment
Inspection Record

**Environmental
Protection
Division**

Inspection Number: 24325		Inspection Status: FINAL	
EP System: <u>AMS</u>		Inspection Date: 2015-12-03	
EP System Number: 11678		EP System Status: <u>Active</u>	
Region: <u>Cariboo</u>		Office: <u>Williams Lake</u>	
Trigger: <u>Planned</u>		Incidents of Non-Compliance Observed: <u>Yes</u>	
Non-Compliance Decision Matrix Level: <u>Level 1</u>		Non-Compliance Decision Matrix Category: <u>Category A</u>	
Inspector Name(s): Jack Green		CPIX: <u>Over 2 = High</u>	
Audit:		Total Non-Compliance(s): 1	
Regulated Party: Mount Polley Mining Corporation			
Regulated Party Contact(s): Colleen Hughes			
Legal Address: P.O. BOX 12 LIKELY, BC V0L 1N0			
Phone No: (250)790-2617		Fax No:	
Contact Email: <u>chughes@mountpolley.com</u>			
Location Description or Site Address: Mount Polley is an open pit copper/gold mine located near Likely, BC.			
Latitude: 52.54547 N		Longitude: 121.63433 W	
Receiving Environment(s): <u>Surfacewater</u>			

Summary

MONITORING AND REPORTING REQUIREMENTS				
Inspection Period:				
From: 2015-12-03		To: 2015-12-03		
Requirement Source:				
Permit				
Activity: <u>On Site</u>			Waste Type: <u>Effluent</u>	
Inspection Summary: <p>Site inspection carried out by Environmental Protection Officer Jack Green, accompanied by Chris Swan (MOE Impact Assessment Biologist), Carla Grimson (MOE Water Quality Technician), Alyssa Boivin (Junior Impact Assessment Biologist) and Shauna Litke (MPMC Metallurgist/Environmental Technician).</p> <p>Weather was overcast with approximately 4 inches of old snow on the ground.</p> <p>Scope of inspection was to assess compliance of reinstated Hazeltine discharge and associated water treatment infrastructure with the recently amended permit.</p> <p>The weir below Polley Lake was closed, abating the flow down Hazeltine Creek. Since the last inspection a new improved fish/debris barrier has been installed just upstream of the weir. This consists of three fences across the creek with graduated mesh.</p> <p>The Veolia Water Treatment Plant consists of 3 stages of treatment - Coagulation, flocculation and settlement/polishing. The discharge is continuously monitored and in the event of a permit discharge exceedance, a shut off valve is automatically activated, recirculating the discharge back to the Till Borrow Pit.</p> <p>The waste sludge from water treatment plant process is discharged to the sludge pond (Upper Till Borrow Pit), where solids settle out, leaving the process water to flow back to the Till Borrow Pit for recirculation in the treatment process.</p> <p>The outfall from Settling Pond 1 discharges to Quesnel Lake. Settling Pond 2 is effectively emergency storage in the event of the Quesnel Lake discharge being abated.</p>				Response: <u>Advisory</u>
ACTIONS REQUIRED BY REGULATED PARTY:				
Please provide photographic evidence once the signage required by subsection 2.4.7 has been installed.				
ADDITIONAL COMMENTS:				

Compliance Summary	In	Out	N/A	N/D
Discharge	1	0	0	0
Operations	3	1	0	0

Inspection Details

Requirement Type: <u>Discharge</u>
Requirement Description: 1.3.1 The authorized maximum discharge rate is 0.3 cubic meters per second.
Details/Findings: At the time of the inspection, the discharge rate was approximately 0.22 m3/sec.
Compliance: <u>In</u>
Requirement Type: <u>Operations</u>
Requirement Description: 1.3.5 The Permittee must maintain a diversion and two settling ponds in lower Hazeltine Creek and an associated submerged discharge into Quesnel Lake. The Permittee must cease discharging to Hazeltine Creek immediately if this settling pond is overflowing.
Details/Findings: There is in excess of 0.5 metres of freeboard on Settling Pond 1 at the overflow to Settling Pond 2, which is dry (primarily for use as emergency storage if Quesnel Lake discharge is abated). Diversion channel and Settling ponds all appeared well maintained.
Compliance: <u>In</u>
Requirement Type: <u>Operations</u>
Requirement Description: 1.3.9 The authorized works are the Springer Pit, mine contact water collection system, mine tailings effluent, Perimeter Embankment Till Borrow pond, Veolia treatment system, pipeline, flow control valve, continuous flow meter and outlet structure, settling ponds, and submerged diffuser discharge structures. 1.3.10 The authorized works must be complete and in operation when the discharge commences.
Details/Findings: All authorized works were complete and in operation.
Compliance: <u>In</u>
Requirement Type: <u>Operations</u>
Requirement Description: 2.4.4 The tailings impoundment must provide 1.0 meter of freeboard plus storage for the Probable Maximum Precipitation (PMP), and all other effluent storage ponds, seepage ponds, and surface runoff ponds must provide at least 0.5 meter of freeboard, up to a 1 in 200 year 24-hour storm event. If at any time the freeboard in the tailings impoundment is reduced to less than 1.0 meters plus the PMP, or less than 0.5 meters in any other pond, the Permittee must notify Environmental Protection following procedures in Section 2.1 of this permit. After initially reporting such an occurrence, the Permittee must report the freeboard weekly until such time as the required freeboard is re-established. Freeboard is defined as the difference in elevation between the contained liquid level and

the top of the berm structure at its lowest point. The lowest point does not include a spillway where a discharge is authorized or where the supernatant over flows to a downstream collection pond that is part of the authorized works.

Details/Findings:

Central Collection Sump, Till Borrow Pits and Settling Ponds all had in excess of 0.5 metres of freeboard.

Compliance: In

Requirement Type: Operations

Requirement Description:

2.4.7 A sign must be erected along the alignment of the outfall above the high water mark. The sign must identify the nature of works. The wording and size of the sign must be acceptable to the Director. Signs must be posted along the effluent pipeline right-of-way at points of public access that identifies the right-of-way and provides emergency contact information.

Details/Findings:

No sign has been erected.

Compliance: Out

Were the following collected during inspection:

Samples? ☐ Photos? ☒ EMS Number

Other (please specify)

Is the Inspection related to an EA Project? ☐ EA Project Certificate Number:

INSPECTION CONDUCTED BY:

Signature

Jack Green

Date Signed

2016-01-11

ENCLOSURE(S) TO REGULATED PARTY & DESCRIPTION:

Photo Record

CVIS Archives

REGULATORY CONSIDERATIONS:

DISCLAIMER:

Please note that sections of the permit, regulation or code of practice referenced in this inspection record are for guidance and are not the official version. Please refer to the original permit, regulation or code of practice.

To see the most up to date version of regulations and codes of practices please visit:

<http://www.bclaws.ca/>

If you require a copy of the original permit, please contact the inspector noted on this inspection record or visit: <http://www2.gov.bc.ca/gov/topic.page?id=DF89089126D042FD96DF5D8C1D8B1E41&title=Publicly%20Viewable%20Authorizations>

It is also important to note that this inspection record does not necessarily reflect each requirement or condition of the authorization therefore compliance is noted only for the requirements or conditions listed in the inspection record.

Ministry of Environment	Cariboo	Mailing Address:	Phone: (250) 398-4530
	Region	400-640 Borland St	Fax: (250) 398-4214
	Environmental Protection Division	Williams Lake, BC V2G 4T1	Website: http://www.gov.bc.ca/env

Payette, Leslie ENV:EX

From: Colleen Hughes <chughes@mountpolley.com>
Sent: Wednesday, December 30, 2015 8:29 AM
To: Green, Jack E ENV:EX
Cc: Bunce, Hubert ENV:EX; Dale Reimer; Art Frye
Subject: RE: PE11678 Inspection Report
Attachments: DSCN1044.JPG

Hi Jack

The signage for the pipeline right of way was installed on December 23rd and the attached photo was taken on December 29th. After re-reading your inspection report I am not clear if you saw the sign that was previously installed at the lake shore that indicates "no-anchorage". I do not have a photo of this one but it was in place when you did your inspection. Please let me know if you saw that one or would like a photo. Access is a bit challenging right now but we can try to get one from the lake itself.

Best Regards,

Colleen

From: Green, Jack E ENV:EX [<mailto:Jack.Green@gov.bc.ca>]
Sent: Monday, December 14, 2015 10:53 AM
To: Colleen Hughes
Cc: Bunce, Hubert ENV:EX
Subject: PE11678 Inspection Report

Hi Colleen,

Please find attached the inspection report and accompanying photo record for my site visit of 3 December 2015.

As discussed, the only issue of non-compliance identified during the inspection was regarding the lack of signage at the Quesnel Lake outfall, as required by subsection 2.4.7. The appropriate compliance response for this issue has been determined to be an Advisory of Non-Compliance. Please note the 'Actions Required by Regulated Party' section of the report.

If you have any questions, please call.

Regards,

Jack Green
Environmental Protection Officer
Ministry of Environment
Phone: 250-398-4544
Fax: 250-398-4214

24 hour RAPP (Report All Poachers and Polluters) tip-line: 1-877-952-7277
(Conservation Officer Service)

24 hour Spill/Environmental Emergency Reporting: 1-800-663-3456
(Conservation Officer Service)

www.gov.bc.ca

Payette, Leslie ENV:EX

From: Green, Jack E ENV:EX
Sent: Monday, December 14, 2015 10:53 AM
To: 'Colleen Hughes'
Cc: Bunce, Hubert ENV:EX
Subject: PE11678 Inspection Report
Attachments: 2015-12-03 PE11678 Inspection Report.pdf; 2015-12-03 PE11678 Inspection Photos.pdf

Hi Colleen,

Please find attached the inspection report and accompanying photo record for my site visit of 3 December 2015.

As discussed, the only issue of non-compliance identified during the inspection was regarding the lack of signage at the Quesnel Lake outfall, as required by subsection 2.4.7. The appropriate compliance response for this issue has been determined to be an Advisory of Non-Compliance. Please note the 'Actions Required by Regulated Party' section of the report.

If you have any questions, please call.

Regards,

Jack Green

Environmental Protection Officer
Ministry of Environment
Phone: 250-398-4544
Fax: 250-398-4214

24 hour RAPP (Report All Poachers and Polluters) tip-line: 1-877-952-7277
(Conservation Officer Service)

24 hour Spill/Environmental Emergency Reporting: 1-800-663-3456
(Conservation Officer Service)

www.gov.bc.ca