Appendix D

Sequence of Events and Actions Taken by Spill Report and Other Concerns (With Photos)

Appendix D.1 - Spill Report 16-158 - Sheardown Lake Tributaries and Sheardown Lake

May 7 Sheardown Lake tributaries, LDFG and SDLT, discovered discharging turbid water into Sheardown Lake . Source of the discoloured, Lurabid water is thought to be anowned downwind of the Mine Site Cruster Pot intributaries, LDFG and SDLT, to settle out sadiments prior to discharge. Monitoring locations established in both affected Sheardown Lake tributaries. May 8 Initial report submitted to Environment Canada, DFO, and INAC via e-mail. Daily sampling program initiated and continued until June 8 at established monitoring locations along bot affected tributaries. Water samples were primarily analyzed for TSS, TDS, pH and turbibity. Additional sampling was conducted on May 10, May 19 and May 23 for additional parameters, including acute toxici netals, nutrients, hybrocarbons and major ions. Berms built up along road loar culverts, CV-186 and CV-187, to prevent road runoff from directly discharging to the State of the State o	May 7	
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June 17 - 21 Kemira Chemicals Chemist arrives onsite to assist Baffinland in developing and optimizing mobile water treatment systems using flocculants.	_	
treatment systems using flocculants.	June 12	
		Kemira Chemicals Chemist arrives onsite to assist Baffinland in developing and optimizing mobile water
		1

Appendix D.1 - Photos



Photo 1 – Silt fence installation along road to prevent road runoff from directly discharging into Sheardown Lake Tributary (SDLT) near CV186.



Photo 2 – May 9th 2016. Flocculant stations installed along Sheardown Lake Tributary SDLT and LDFG.



Photo 3 – Treated Jute installed at Check Dam #1 to capture sediments within runoff.



Photo 4 – Sand bag check dams installed along Sheardown Lake Tributary LDFG near landfill access road.



Photo 5 - Improved water clarity and total suspended solid levels at outfall of Sheardown Lake Tributary SDLT following implementation of siltation control measures.

Appendix D.2 - Spill Report 16-176 - Camp Lake Tributaries and Camp Lake

Table D.2 - Spill Rep	oort 16-176 - Sequence of Events and Action Taken
	Runoff containing sediments observed flowing from the Mine Site airstrip into Camp Lake Tributary # 1 (CLT1) and Camp Lake.
	Siltation control measures (silt fences, flocculent, jute) installed along CLT1 and airstrip drainages to settle out sediments prior to discharge.
May 17	Airstrip swale draining into Camp Lake Tributary #1 lined with 6" aggregate. Culvert installed at North end of airstrip to prevent airstrip runoff from crossing the road into Camp Lake Tributary #1.
	Sediment release to Camp Lake Tributary #1 and Camp Lake reported to the NT-NU Spill Line and regulators (NT-NU Spill Report- 16-176).
	Camp Lake Sedimentation Ponds near the Camp Lake water intake jetty repaired to settle out and capture sediment entrained in runoff from the Exploration Camp pad at the Mine Site.
May 18	Monitoring locations established along Camp Lake Tributary #1 and downstream of the Camp Lake Sedimentation Ponds (refer to Figure 1).
	Environment Canada and AANDC inspectors arrive onsite and inspect Milne Port and Tote Road.
May 18 - June 8	Conducted daily sampling until June 8 at established monitoring locations. Daily water samples were primarily analyzed for TSS, TDS, pH and turbidity. Additional sampling was conducted on May 23 for additional parameters, including acute toxicity, metals, nutrients, hydrocarbons and major ions.
May 18	Environment Canada and INAC inspectors arrive onsite and inspect Milne Port and Tote Road.
	Environment Canada and INAC inspectors inspect Mine Site.
May 19	Environment Canada, INAC and Baffinland collect water samples downstream of the Camp Lake Sedimentation Ponds
May 20	Environment Canada and INAC inspectors notify Baffinland that directions under the Fisheries Act will be issued to the Company as a result of surface water runoff conditions observed during their inspection.
May 24	Kemira Chemicals and AMEC-Foster Wheeler contracted to assist Baffinland in developing and optimizing mobile flocculant treatment systems.
ividy 24	Turbid water samples sent to Kemira Chemicals and AMEC-Fost Wheeler for initial flocculant bucket testing.
June 1 - 15	AMEC-Foster Wheeler Engineer arrives onsite to develop flocculant treatment systems and pilot test additional siltation controls including geotubes
June 8	Sampling program discontinued as a result of compliant, baseline TSS levels observed consistently over the past several days at the outfalls of CLT1 and the Camp Lake Sedimentation Ponds.
June 17 - 21	Kemira Chemicals Chemist arrives onsite to assist Baffinland in developing and optimizing mobile water treatment systems using flocculants.

Appendix D.2 – Photos



Photo 1 –Airstrip runoff entering Camp Lake Tributary #1.



Photo 2 – Swale draining airstrip runoff lined with 6" aggregate and treated jute to capture sediments.

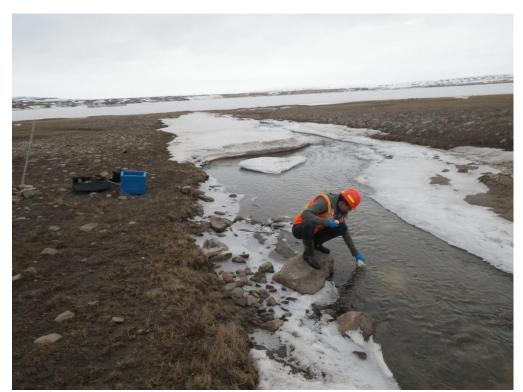


Photo 3 – May 30th 2016. Daily sampling and monitoring of Camp Lake Tributary #1 discharge at Camp Lake outfall.



Photo 4 – Improved water clarity and total suspended solid levels at Camp Lake Tributary #1 following implementation of siltation control measures.

Table D.3 Spill Report 16-181 - Mine Haul Road to Mary River and Sheardown Lake Tributary

uence of Events and	Actions Taken
	Divide a superiories and income a superiories of the Military
	Runoff containing sediments was obsevered flowing from the surface of the Mil
	Haul Road through "berm punch outs" on the outer edge of the road and into the
May 20	Mary River and Sheardown Lake tributary SDLT.
	Sediment deposit discovered near upper reaches of tributary SDLT directly
	downstream of km 104.5 Mine Haul Road "berm punch out".
	Sediment release to Mary River and Sheardown Lake reported to the NT-NU Spi
	Line and regulators (NT-NU Spill Report- 16-181).
May 21	Mine Haul Road "berm punch outs" are sealed to redirect runoff to check dams
	and natural sumps to settle out and capture sediment entrained in runoff from
	the Mine Haul Road.
	Constructed Check Dam #3 near entrance of magazine access road to collect
May 22	Mine Haul Road runoff and capture sediment.
	Flocculant installed upstream of Check Dam # 3 on Mine Haul Road.
	Constructed Check Dam #4 at the end of magazine access road to collect Mine
	Haul Road runoff.
	Constructed check dam directly downstream of the Mine Haul Road "berm
May 23	punchout" at km 104.5 to collect Mine Haul Road runoff and capture any
	additional sediment releases from the Mine Haul Road. (Runoff through this Mi
	Haul Road berm punchout had resulted in the development of a sediment delta
	near the upper reaches of tributary SDLT)
May 24	Flocculant installed upstream of Check Dam #4 on Mine Haul Road.
	Installed geotextile over the upstream face of Check Dam #4.
May 26	Water samples taken upstream and downstream of Check Dam #4
	Golder Associates geotechnical engineer arrives at site to provide guidance,
May 27 - 31	assess risk, and develop a list of priority drainage works along the Mine Haul
141dy 27 31	Road
	Removed lose sediment from sediment deposit located downstream of the Mir
May 27 - June 23	Haul Road "berm punch out" at km 104.5. (Sediment deposit situated near the
iviay 27 - Julie 23	bank of tributary SDLT.)
	AMEC-Foster Wheeler Engineer arrives onsite to develop flocculant treatment
June 1 - June 15	
June 1 - June 15	systems and pilot test additional siltation controls including geotubes.
	Constructed three (3) check dams upstream of SDLT along Mine Haul Road
	(Sheardown Valley) to allow for water treatment (flocculants) of Mine Haul Roa
June 12	runoff before entering SDLT.
Julie 12	Installed silt fences and flocculant stations upstream and throughout Sheardow
	Valley.
	Water samples taken upstream and downstream of Check Dam #4.

luma 10	Installed silt fences downstream of the Mine Haul Road culverts discharging to
June 16	Mary River.
June 17 - 21	Kemira Chemicals Chemist arrives onsite to assist Baffinland in developing and
	optimizing mobile water treatment systems using flocculants.
l 20 l 21	Pilot testing of coagulant/flocculant dosing system at Check Dam #4 (assissted by
June 20 - June 21	Kemira Chemicals).
	Installed additional siltation controls, including geotextile, silt fences and
June 21	flocculant, at km 108.5 of the Mine Haul Road.

Appendix D.3 – Photos



Photo 1– April 28th 2016. Construction of Check Dam # 4 near the end of Magazine Access Road.



Photo 2 – Mine Haul Road runoff pooling upstream of Check Dam # 4



Photo 3 – Flocculant dosing system treating water upstream of Check Dam #4.



Photo 4 – Discharge of flocculant dosing system at Check Dam #4.

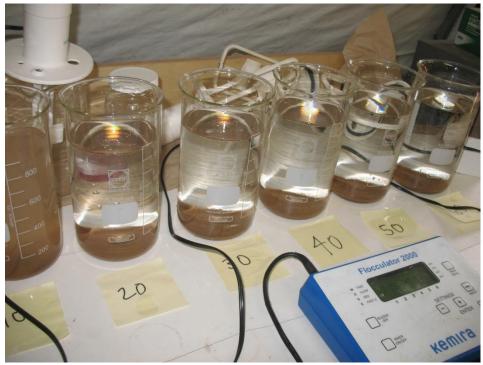


Photo 5 – Laboratory testing for flocculant dosing optimization.



Photo 6 – Check dam constructed at outlet of Sheardown Valley along Mine Haul Road.



Photo 7 – Sediment deposit removal along upper reaches of Sheardown Lake Tributary SDLT (downstream of km 104.5 of the Mine Haul Road).

Appendix D.4 - Spill Report 16-198 - Camp Lake Tributary 1

Table D.4 - Spill Report 16-198 - Sequence of Events and Actions Taken		
May 31	Sediment deposit along the bank of Camp Lake Tributary #1 (CLT1) discovered near the North end of the Mine Site airstrip. The source of the sediment deposit is determined to be from a slumping section of stream bank along Camp Lake Tributary #1.	
	Sediment release to Camp Lake Tributary #1 reported to the NT-NU Spill Line and regulators (NT-NU Spill Report 16-198).	
June 1	Installed silt fences around perimeter of sediment deposit to prevent migration of sediment into tributary.	
	Removed sediment deposit from stream bank. Lined face of slumping stream bank with geotextile and reinforced with 6" aggregate to prevent similar incidents.	
June 1 - 15	AMEC-Foster Wheeler Engineer arrives onsite to develop flocculant treatment systems and pilot test additional siltation controls including geotubes	
June 17 - 21	Kemira Chemicals Chemist arrives onsite to assist Baffinland in developing and optimizing mobile water treatment systems using flocculants.	

Appendix D.4 – Photos



Photo 1 – May 29th 2016. Silt fence installation around sediment deposit from slumping stream bank along Camp Lake Tributary #1.



Photo 2 – June 3rd 2016. Snow along slumping slope face and sediment deposit removed.



Photo 3 – June 3rd 2016. Slumping stream bank lined with geotextile to protect underlying soil from erosion.



Photo 4 – June 4th 2016.Slumping stream bank reinforced with 6" aggregate.