

Spring 2020 Geotechnical Inspection

Prepared by:

Minto Explorations Ltd.

Minto Mine

June 2020

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Appendix A: Inspection Reports

1 Facilities Inspected

Geotechnical inspections of surface facilities at Minto were carried out from May 23 – 29, 2020 by Todd Swenson, Environmental Professional, Haydn Dufty, Senior Geotechnical specialist, and Sebastien Tolgyesi, Professional Engineer and Professional Geologist. Inspections were reviewed by Sebastien Tolgyesi, P.Eng. of Minto Explorations Ltd. Inspections are conducted semi-annually and include visual observations and a review of monitoring instrumentation (where applicable) to assess geotechnical conditions and stability. The following facilities were inspected:

- Access Road
- Area 118 In-Pit Dump
- Area 2 Pit Stage 2 and Stage 3 Expansion Pits
- Big Creek Bridge
- Camp Site
- Dry Stack Tailings Storage Facility (DSTSF) and Mill Valley Fill Extension 2 (MVFE2)
- Fuel Containment Facility
- Main Pit (Area 1 Pit), SAT Dump, and In-Pit Dumps
- Main Pit Dump (MPD)
- Main Waste Dump, Main Waste Dump Expansion, and Main Waste Dump Wrap
- Mill Site
- Minto North Pit
- Reclamation Overburden Dump
- Southwest Waste Dump (SWD)
- Stockpiles
- Tailings Diversion Ditch
- Water Storage Pond Dam

Summaries of responses to previous recommendations, and observations and recommendations from the fall inspection are contained in the following sections.

1

2 Response to 2019 Inspection Recommendations

The following are a summary of responses to recommendations in the Q2 and Q4, 2019 inspection reports from SRK (surface facilities Q2) Golder (underground workings), and Minto Explorations Ltd. (Q4).

Table 1: Summary of Recommendations - SRK, Golder, and MEL 2019 Inspections

Facility	Ref. No.	Recommendation/Action	Response
Access Road	2019.2.1.1	Consider repairs to access road km 0 – km 0.25 - Large erosion gullies on North Ditch.	 Repairs made with grader, but could be improved.
Area 2 Stage 2 and Stage 3 Expansion Pits	2019.1.3.1	Stage 2 Continue to monitor the crests and slopes as part of the monthly visual inspection for signs of worsening cracking to determine if any slope stabilization measures are required.	This will be monitored.
Area 2 Stage 2 and Stage 3 Expansion Pits	2019.1.3.2	Stage 3 (Medium Priority) Implement measures to redirect runoff from the Underground Access Road away from the erosion gully that has formed into the pit (e.g. regrade the road). Longer-term, the erosion gully should be stabilized and armored.	The Road was re-graded prior to freshet, resulting in silting in of sump.
	2019.1.3.3	(High Priority) When the Underground Shop begins to be used again, the inspection frequency of the "Dumas Shop" survey hubs (DS-1 to DS-4) should be increased to weekly. Hubs DS-1 and DS-2 need to be repaired and recommissioned for use.	Weekly Survey Hub readings at DS01-DS04 resumed in July 2019.
	2019.1.3.4	(Medium Priority) The Underground Shop should be inspected by a suitably qualified structural engineer to ensure it remains suitable for use.	To be completed Q3, 2020.
	2019.1.3.5	Continue to monitor the pit for any changes i.e. further slumping/cracking due to permafrost thaw and further instability at the area of the historical rockfall.	This will be monitored
Big Creek Bridge	2019.1.4.1	Continue regular annual monitoring of sediment accumulation in the culverts and clean out if sediments continue to accumulate.	Will continue to be done as part of the semi- annual inspections.
	2019.1.4.2	Limit the material graded from the road at the culvert locations, or muck out some of the gravel buildup, taking care not to damage the culvert.	Minor amounts of material remain.
	2019.1.4.3	If the alignment of Big Creek changes and it appears that the culverts may be utilized, tree clearing and sediment removal immediately upstream and downstream of the culverts is recommended.	This will be monitored.

Facility	Ref. No.	Recommendation/Action	Response
Camp Site	2019.2.4.1	Continue to monitor the erosion channels below the camp pad as part of the routine visual inspections and following larger rainfall events. If erosion continues, implement mitigation measures. Measures to consider include surface regrading, fill placement to direct flow away from the slope, installation of a sump/drainage system.	Following large rainfall even in July, saw significant erosion of walking access from warehouse, but camp slope remained secure.
Dry Stack Tailings Storage Facility and Mill Valley Fill Extension 2	2019.1.5.1	As part of the routine visual inspections, continue to monitor the following for any changes in condition: - identified slump at the south end of the DSTSF to determine if any slope stabilization measures are required. - the cracking present at the south end of the DSTSF, as well as - erosion gullies observed in the cover material on the northern and eastern slopes.	Cracking and slumping at south end of DSTSF have not changed significantly since 2019. Erosion gullies enlarged with July 30 Rainfall event, but are proving to be self-armouring.
Main Pit (Area 1 Pit), SAT Dump, and In-Pit Dumps	2019.1.6.1	As part of the routine visual inspections, continue to monitor the extent of the long crack in the Main Pit Dump Ramp for any changes in condition.	This will be monitored
Mill Site	2019.2.7.1	(High Priority) Backfill the over-steepened slope at the toe of the high wall immediately north of the mill to ensure that the original design requirements are met (EBA 1994). Continue to place concrete jersey barriers as a protection barrier against minor rockfall.	Site Services to do ASAP
Tailings Diversion Ditch	2019.1.8.1	(High Priority) The vegetation in the western portion of the Tailings Diversion Ditch should be cleared.	Completed October 2019.
	2019.1.8.2	(High Priority) Obstructions within the Overflow Spillway should be removed to ensure that the flow capacity is not impeded if the spillway is utilized.	Completed prior to freshet.

Facility	Ref. No.	Recommendation/Action	Response
	2019.1.8.3	Remaining construction should be completed prior to snowfall in order to be in-place by the 2020 freshet If construction is not able to be completed in 2019, a management plan must be developed to ensure water does not overflow the channel during 2020 freshet, and the construction works must then be completed in 2020. The management plan should ensure that appropriate resources are available during freshet that would be able to manage the freshet flows (pumps, heavy equipment to construct temporary berms or diversions channels) to prevent overtopping of water towards the DSTSF.	A management plan for 2020 freshet was created as recommended.
	2019.1.8.4	Construction of the Inlet Channel should be completed in a manner that meets all design requirements documented in the SRK design memo that include minimum channel dimensions, grades, rip-rap gradations and thicknesses. During construction, survey and visual inspections of the channel should be implemented to confirm adequate rip-rap gradations.	
	2019.1.8.5	(High Priority) During routine instrumentation readings, inspect and photograph the identified potential sinkhole located 5 m NW of WSPT-8 (See Photo 72 in Appendix A) to monitor for any change in condition.	This is being monitored
Instrumen- tation	2019.1.9.1	(High Priority) A review of the survey reading methodology for the survey hubs is recommended to reduce reading variability. Potential changes to consider include longer duration readings and/or use of an extension rod with the GSP receiver.	This suggestion has been implemented.

3 Spring 2020 Inspection Recommendations

Observations, photos, and summaries of instrumentation data are contained in Appendix A for each facility inspected. Table 2 below contains a summary of action items for each facility that were not already covered by the recommendations in Table 1.

Table 2: Summary of Recommendations – Minto May 2020 Inspection

Facility	Ref. no.	Recommendation	Responsible Party / Target Date
Access Road	2020.1.1.1	(Medium Priority) Consider repairs to access road km 0 – km 0.25 - Large erosion gullies on north ditch.	Site Services / Summer 2020
Area 2 Stage 2 and Stage 3 Expansion	2020.1.2.1	Stage 2: Tailings discharge pipe to be monitored during monthly inspections to ensure discharge into pit is not affected.	Mill / Ongoing
Pits	2020.1.2.2	Stage 3: Continue to monitor water levels and pumping rates	Environment / Ongoing
	2020.1.2.3	Stage 3: Monitor overburden slope for erosion and slumping. Check crest of overburden slope for tension cracking and monitor survey hubs for accelerated movement.	Mine Tech / Ongoing
Big Creek Bridge	2020.1.3.1	(Medium Priority) Consider clearing vegetation from first culvert west of bridge.	Site Services / Summer 2020
Camp Site	2020.1.4.1	Continue to monitor erosion of slopes, especially following heavy rainfalls.	Site services / Ongoing
Dry Stack Tailings Storage Facility and Mill Valley Fill Extension 2	2020.1.5.1	Monitor erosion of newly placed soils.	Environment / Ongoing
Main Pit (Area 1 Pit), SAT Dump, and In-Pit Dumps	2020.1.6.1	Long term plan for SAT (PAG) material to be developed.	Mine Tech / Ongoing
Main Waste Dump, Main Waste Dump Expansion, and Main Waste Dump Wrap	2020.1.7.1	Continue to monitor as per Physical Monitoring Program, SRK to analyze data monthly/quarterly.	Environment / Mine Tech / Ongoing
Mill Site	2020.1.8.1	(High Priority) Complete backfill of over-excavated toe of slope for fence installation.	Site Services / ASAP
	2020.1.8.2	Monitor displacement of lock blocks.	Mill / Ongoing
	2020.1.8.3	Consider adding second row of lock blocks.	Mill / Ongoing
Minto North Pit	into North Pit 2020.1.9.1 Monitor "Nose" feature for further visual changes.		Mine Tech / Ongoing
Southwest Waste Dump	2020.1.10.1	Monitor crack on north Crest of dump.	Mine Tech / ongoing
Tailings Diversion Ditch	2020.1.11.1	(High Priority) Repair removed portion of the ditch berm (breach) as shown in the inspection photos (Appendix Page 42) .	Mine Tech / October 2020
Water Storage Pond Dam	2020.1.12.1	(High Priority) Continue with efforts to remove debris along face of Dam	Environment / complete in summer 2020.

This report, "Spring 2020 Geotechnical Inspection, Minto Mine, YT" was prepared by:

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All data used as source material plus the text, tables, figures, and attachments of this document have been reviewed and prepared in accordance with generally accepted professional engineering and environmental practices.

Appendix A: Inspection Reports

Access Road

Area 118 In-Pit Dump

Area 2 Pit Stage 2 and Stage 3 Expansion Pits

Big Creek Bridge

Camp Site

Dry Stack Tailings Storage Facility (DSTSF) and Mill Valley Fill Extension 2 (MVFE2)

Fuel Containment Facility

Main Pit (Area 1 Pit), SAT Dump, and In-Pit Dumps

Main Pit Dump (MPD)

Main Waste Dump, Main Waste Dump Expansion, and Main Waste Dump Wrap

Mill Site

Minto North Pit

Reclamation Overburden Dump

Southwest Waste Dump (SWD)

Stockpiles

Tailings Diversion Ditch

Water Storage Pond Dam

Minto Geotechnical Inspection Form	Area Inspected:	Access Road
Date: May 29, 2020	Inspected by:	Todd Swenson, Haydn Duffty
Observations:		
- Road is in good condition, except at between km 0 to 0.25.		
- Apparent flows at Km 18.75 Culverts. evidence of recent repair	rs to road (unrepor	ted).
- Big Creek bridge abutments in good repair with no displaced ri	p-rap.	
Monitoring/Instrumentation Data Review:		
- None.		
Actions/Recommendations:		
- Repair erosion channels in road between km0 and km 0.25.		



Photo 1: Heavy Erosion channel on North ditch KM 0 - 0.25



Photo 2: Heavy Erosion channel on North ditch KM 0 - 0.25



Photo 3: Big Creek Overflow Area



Photo 4: Aparent new material placed at Km 18.75.

Minto G	eotechnical Inspection Form	Area Inspected:	Area 118 Backfill Dump
Date:	May 28, 2020	Inspected by:	Todd Swenson, Haydn Duffty
Observations	S:		
 Dumping ha No concerr No slumpin Cracking, d Vertical dro 	as not occured since Nov. 2017. Ins with highwalls. Ig or bulging toes observed. Ileformation, and sinkholes present in fill manary In p in road has not noticeably increased. In ermitted in this area due to settlement. Nev		
Monitoring/I	nstrumentation Data Review:		
- Survey hub	A210 is the closest monitoring instrument t	o the area and is showing	no movement.
- No other in	strumentation.		
Actions/Reco	ommendations:		
- Road access	s has been rerouted through Ridgetop Road	due to settlement. Contin	ue to restrict access to Area 118.



Photo 1: Settlement along road.



Photo 2: No slumping or issues with north/west highwall.

Minto Geotechnical Inspection Form	Area Inspected:	Big Creek Bridge
Date: May 29, 2020	Inspected by:	Todd Swenson, Haydn Duffty
Observations:		
- Bridge abutments are in good condition. No concerns.		
- Minor amounts of gravel from road accumulating at group of	five culverts.	
- Second culvert west of bridge has minor sediment accumulation	on.	
- First culvert west of bridge between ditch blocks #2 and #3 is h	eavily vegetated at	one end.
- Ditch blocks are in satisfactory condition. No erosion observed		
Monitoring/Instrumentation Data Review:		
- None.		
Actions/Recommendations:		
- Clean up gravel accumulating around five culverts.		
- Consider clearing vegetation from first culvert west of bridge.		
- Continue monitoring culverts during inspections for sediment a	accumulation and o	ther impediments to flow.
		the impediments to how



Photo 1: East abutment of bridge



Photo 2: West abutment of bridge



Photo 3: Five culverts (north side looking east)



Photo 4: Second culvert west of bridge



Photo 5: Standing water showing gravel movement through culverts



Photo 6: Photo showing gravel movement through culverts

Minto Geotechnical Inspection Form	Area Inspected:	Camp Site
Date: May 28, 2020	Inspected by:	Todd Swenson Haydn Duffty
Observations:		
- Erosion on slopes to south and north of camp.		
 Erosion on slope south of camp has increased. Erosion channel Significant erosion event from 2019 and freshet 2020 has resu 0 - km 0.25. 	•	
Monitoring/Instrumentation Data Review:		
- None. Actions/Recommendations:		
- Fill in/repair km 0 - km 0.25 Continue to monitor erosion of slopes, especially following hea	vy rainfall.	



Photo 1: Slope behind camp looking east.



Photo 2: Slope below camp looking east. Note deep erosion channel in road prior to ditch.



Photo 3: Example of erosion under utilidor.

Mint	o Geotechnical Inspection Form	Area Inspected:	DSTSF / MVFE2
Date:	May 29, 2020	Inspected by:	Todd Swenson, Haydn Duffty
Observation	nc·		
Obsci vacio.	<u>13.</u>		
- No instabi	lity concerns. No bulging toes or slumping of slope	s seen.	
- Several loo where poss	cations of rilling or runoff erosion on MVFE2 Self-Alible.	rmouring but depth to	Waste rock should be confirmed
	on southern crest of DSTSF has two extensometers from exposure and rusting.	both of which have sh	own no movement. One extensometer
- No pondir	ng of water seen on DSTSF.		
	e construction mostly complete, some work from 2 removal completed in 2019.	:018 still remains. Wat	er in TDD flowing at time of inspection.
Monitoring	/Instrumentation Data Review:		
Survey hub No increase	es in movement rates.		
This sensor the current maximum.	rs Igust 23, 2019: Sensor exceeded Ru 0.6 threshold. has exceeded this threshold in the past and pressure is less than the historical A review of nearby survey hubs shows no movement rates		
Thermistor			
No significa	nt changes.		
Inclinometo No significa	er int changes.		
Actions/Red	commendations:		
- Continue 1 exposed.	to monitor erosion /runoff channels on MVFE2. No	te Self-armouring and	measure depth to waste rock where



Photo 1: Looking east at DSTSF revegetated slope.



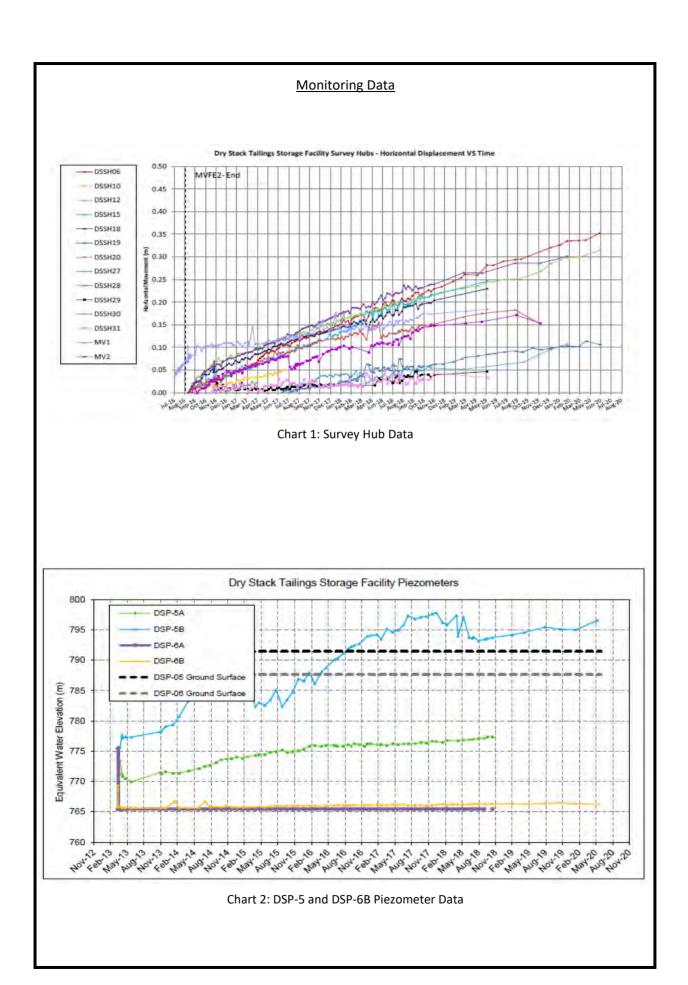
Photo 2: Looking north on MVFE2 at erosion crack (typical).



Photo 3: Extensometer that remains, No movement since 2017.



Photo 4: Western extensometer, wire has broken, but no apparent movement.



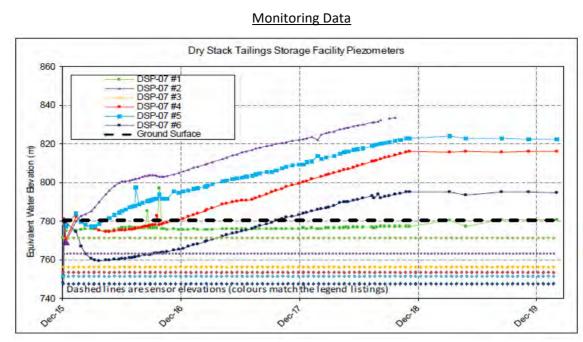


Chart 3: DSP-7 Piezometer Data

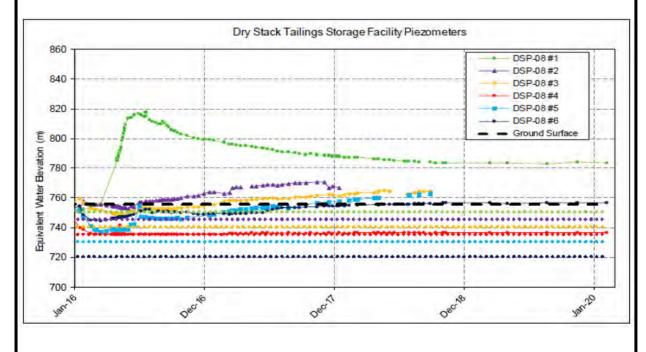
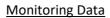


Chart 4: DSP-8 Piezometer Data



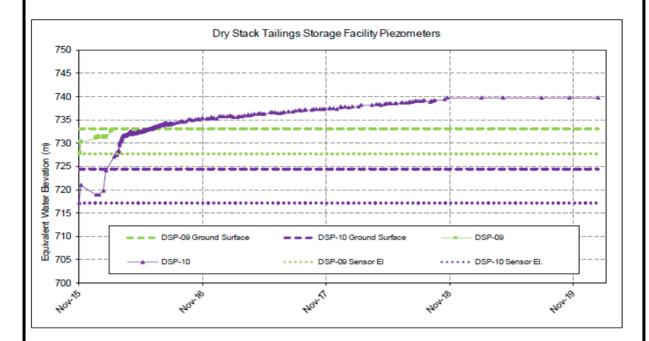
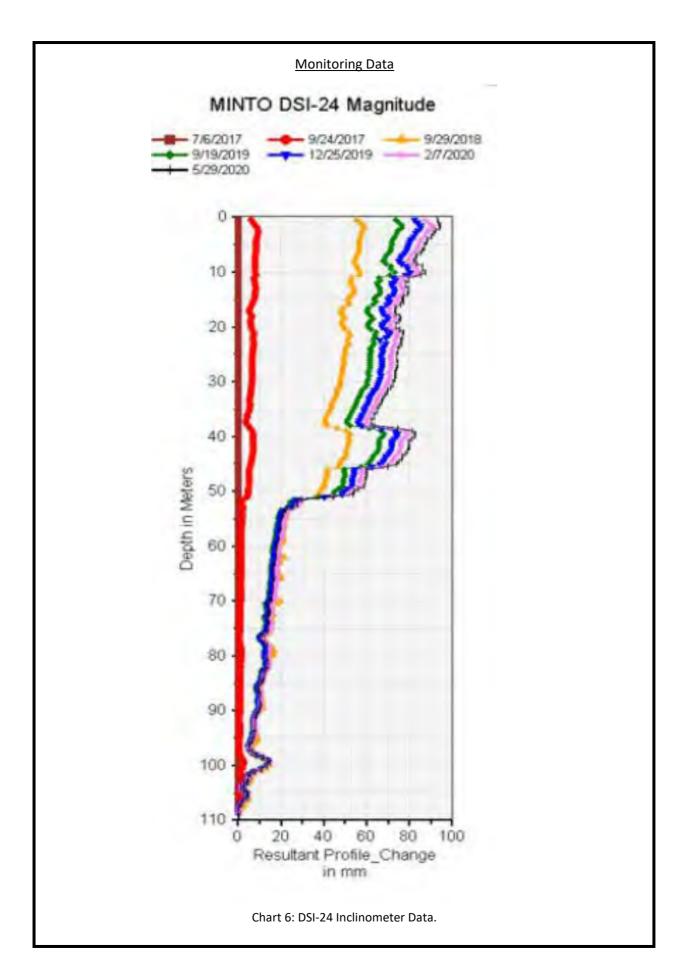


Chart 5: DSP-10 Piezometer Data



Minto Geotechnical Inspection Form	Area Inspected:	Fuel Containment Facility
Date: May 28, 2020	Inspected by:	Todd Swenson, Haydn Duffty
Observations:		
 No defects seen in liner. Bear has damaged filter cloth, but no Minimal ponded water on liner. Falling rock signs in place and no visble rock fall on road. Safety berm placed along crest Aug 31/2018 to prevent rockfa 		
Monitoring/Instrumentation Data Review:		
- None.		
Actions/Recommendations:		
- None.		



Photo 1: Looking west



Photo 2: Looking north



Photo 3: Looking inside containment, bear has damaged filter cloth, but no damage to liner.



Photo 4: Looking west along slope on north side of facility. Falling rock signs in place.

Minto Geotechnical Inspection Form	Area Inspected:	Main Pit, SAT Dump, In-Pit Dumps
Date: May 28, 2020	Inspected by:	Todd Swenson, Haydn Duffty
Observations:		
- No activity in this area since October 2018.		
- No observed changes to rockfall on walls of Main Pit.		
-No concerns noted.		
Monitoring/Instrumentation Data Review:		
- No concerns. Rates for survey hubs are static or decelerating.		
Actions/Recommendations:		
- Long-term plan for SAT (PAG) material to be buried.		



Photo 1: In-Pit PAG Dump Looking Northeast.



Photo 2: Looking East.

Minto Geotechnical Inspection Form		Area Inspected:	MWD/MWDE/MWDW
Date: May 28, 2020	Inspected by:	Todd Swenson, Haydn Sebastien Tolgyesi	Duffty,
Observations:			
- Settlement on side of road on west wide of wrap looks like it has stabilized.			
- Significant ponding of water on top of MWD, has found away to breakthrough and drain itself. No significant signs of erosion resulting.			
- No visible change to cracking and settlement on top tier of wrap.			
- No progression of bulging seen by SRK in Spring 2019.			
Monitoring/Instrumentation Data Review:			
No Issues with Inclinometer Readings			
- Trends of movement in new hubs arewell established through 2019. MWDH06 had been trending toward 1-2mm/day in September, but has shown continual decceleration, and MWDH05 has shown a steady rate of movement.			
- MWDH01 experienced a reset in 2018, but has shown very stable to no movement since.			
Actions/Recommendations:			
	a Navanahan 1	1010 due te tempo ememo	alaassa
- Inspections of the area were decreased to quarterly in November 2018, due to temporary closure.			
- Continue to review data from new survey hubs. Notify SRK of rates of movement.			



Photo 1: Ponded water drained through "rathole"



Photo 2: Surface erosion on top of MWD.



Photo 3: Top of MWD, showing ponded erosion from wave action and high wateer mark.



Photo 4: Area below "rathole" - No significant erosional damage.

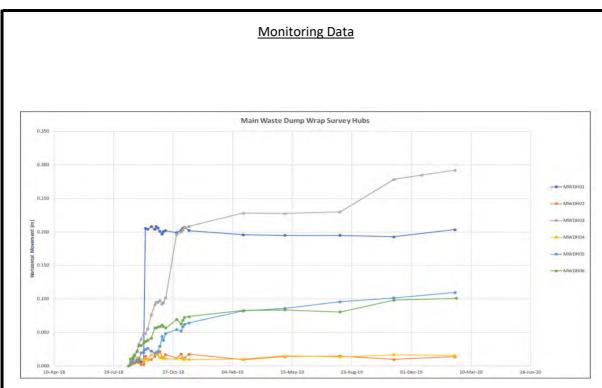


Chart 1: Survey hub data for hubs MWDH01 to MWDH06

Minto Geotechnical Inspection Form	Area Inspected:	Mill Site
Date: May 28, 2020	Inspected by:	Todd Swenson, Haydn Duffty
Observations:		
- Falling rocks warning signs in place at toe of slope below the f	[·] uel farm. Newly insta	illed Fence at base.
- No fallen rocks visible on roadway.		
 - Undercut slope (for the install of the fence) Needs backfilling ASAP. - Bulging lock blocks at mill feed conveyor still apparent. Could consider second row of blocks if sufficient travel space. 		
Monitoring/Instrumentation Data Review:		
- None. Actions/Recommendations:		
- Backfill over excavated slop at base of hill (Behind and below fencing)		
- Continue to Monitor displacement of lock blocks.		



Photo 1: Looking east along 2019 installed fencing



Photo 2: Slope below fuel farm/behind mill looking west. Note undercut slope that needs backfilling.



Photo 3: View of mill feed conveyor and bulging lock blocks.



Photo 4: View of mill feed conveyor and bulging lock blocks from the front.

Minto G	eotechnical Inspection Form	Area Inspected:	Minto North	
Date:	May 28, 2020	Inspected by:	Todd Swenson, Hadn Duffty, Sebastien Tolgyesi	
<u>Observations</u>	<u>:</u>			
- "Nose" feat East, north a	 No new slope failures on walls or visible increase to rockfall from existing failures "Nose" feature on south slope beside fallen wedge seems to be growing but does not appear to be emminent to fall. East, north and West walls seem very stable. Access to pit is granted for short durations, such as water sampling and elevation surveys. 			
Survey confi	med accuracy of water elevation scans.			
Monitoring/I	nstrumentation Data Review:			
- None.				
1101101				
Actions/Reco	ommendations:			
- Monitor "N	lose feature for visual changes.			



Photo 1: Wedge 1.5/South wall



Photo 2: North wall and Vertical Cracks in "Nose" feature

Minto Geo	otechnical Inspection F	orm Area Inspected:	Reclamation Overburden Dump
		Area inspected.	
Date:	May 28, 2020	Inspected by:	Todd Swenson, Haydn Duffty, Sebastien Tolgyesi
Observations:			
Observations.			
- No concerns concern.	. There is no work in this area.	Minor, ongoing sloughing of slopes	which is not a safety or stability
- No road acce	ss to area.		
ı			
Monitoring/Ins	strumentation Data Review:		
- None.			
Actions/Recom	nmendations:		
- None.			



Photo 1: Looking west



Photo 2: Looking southwest

Minto Ge	eotechnical Inspection Form	Area Inspected:	Southwest Waste Dump
Date:	May 28, 2020	Inspected by:	Todd Swenson Haydn Duffty, Sebastien Tolgyesi
Observations			
Observations	<u>.</u>		
- No stability		O has not shanged	
- No new crac	cking observed. The large crack observedin 201	9 has not changed.	
Monitoring/I	nstrumentation Data Review:		
- Survey Hub	s - Hubs appear to show decreasing rates of mo	vement. Rates of mo	vement are < 1mm/day.
- Piezometers - SDP-2B is not producing readings. SPD-2A and SPD-04A have Ru's below 0.40. SDP-3A, SDP-3B, and SDP-4B are all displaying negative Ru values.			
- Thermistors	- No change.		
Actions/Reco	mmendations:		
- Monitor cra since 2019	ck on north crest of dump Currently measure	ed at 150 m in length,	no apparent widening or new cracking
311CC 2013			



Photo 1: Looking southwest.

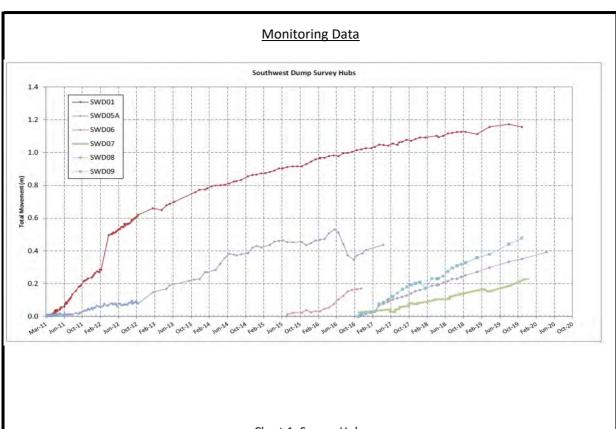


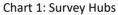
Photo 2: SWD Overview

Photos



Photo 3: Crack on north side of dump at crest.





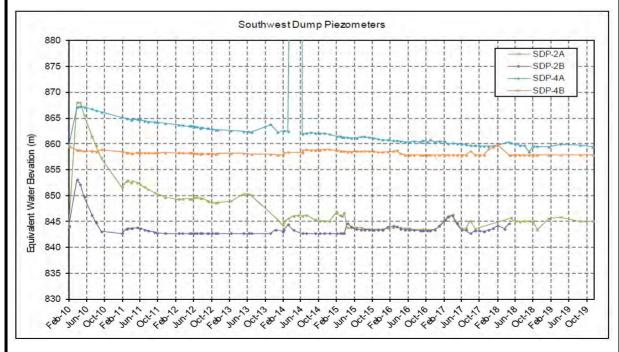


Chart 2: Piezometer Data

Minto Geotechnical Inspection Form		
	Area Inspected:	Tailings Diversion Ditch
Date: May 28, 2020	Inspected by:	Todd Swenson, Haydn Duffty
Observations:		
- Ditch is functional, water has not been diverted yet in 2020,	, but water from the I	hillside is flowing.
- Vegetation still absent from the entire length of the TDD sinc	e tree removal in Oct	ober 2019.
- No stability concerns.		
- Exposed geotextile at intake structure. To be resolved in fin	al construction, sum	mer 2020.
Monitoring/Instrumentation Data Review:		
- None.		
- Notie.		
Actions/Recommendations:		
- Complete TDD intake structure and overflow spillway construction to specifications (scheduled for summer 2020).		
- Repair removed portion of ditch berm (breach) in TDD (See photo 3).		

Photos



Photo 1: View of the TDD outlet structure looking east over area cleared of excess vegetation.



Photo 2: Looking west at TDD oulet channel.

Through area cleared of vegetation.

Photos



Photo 3: Portion of TDD that appears to have been breached. To be repaired.

Minto (Geotechnical Inspection Form	Area Inspected:	Water Storage Pond Dam
Date:	May 23, 2020	Inspected by:	Todd Swenson / Haydn Duffty
Observation - Pond leve	ns: el is still low, wave action seen in Q2 2019 not sig	nificant.	
	ment erosion from draining the WSP Discharge li ering the piezometers, and thermistors have bee		ld be considered for armouring.
Monitoring	/Instrumentation Data Review:		
- Survey Hu	bs - No significant change.		
- Piezomete	ers - Regular seasonal fluctuations.		
- Thermisto	ors - No significant change.		
- Water lev	el is at 709.05 m.		
Actions/Red	commendations:		
- Plan in pro	ogress to remove debris.		



Photo 1: Downstream slope of dam.

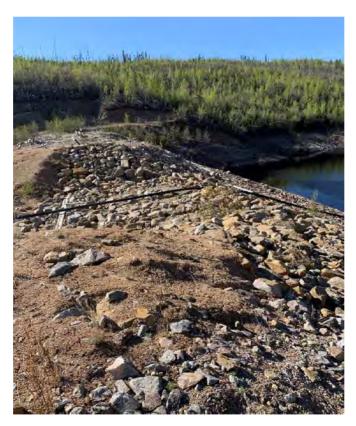


Photo 2: Looking across upstream slope of dam toward right abutment.



Photo 3: Looking at left abutment upstream



Photo 4: Seepage pond: Clear Water

