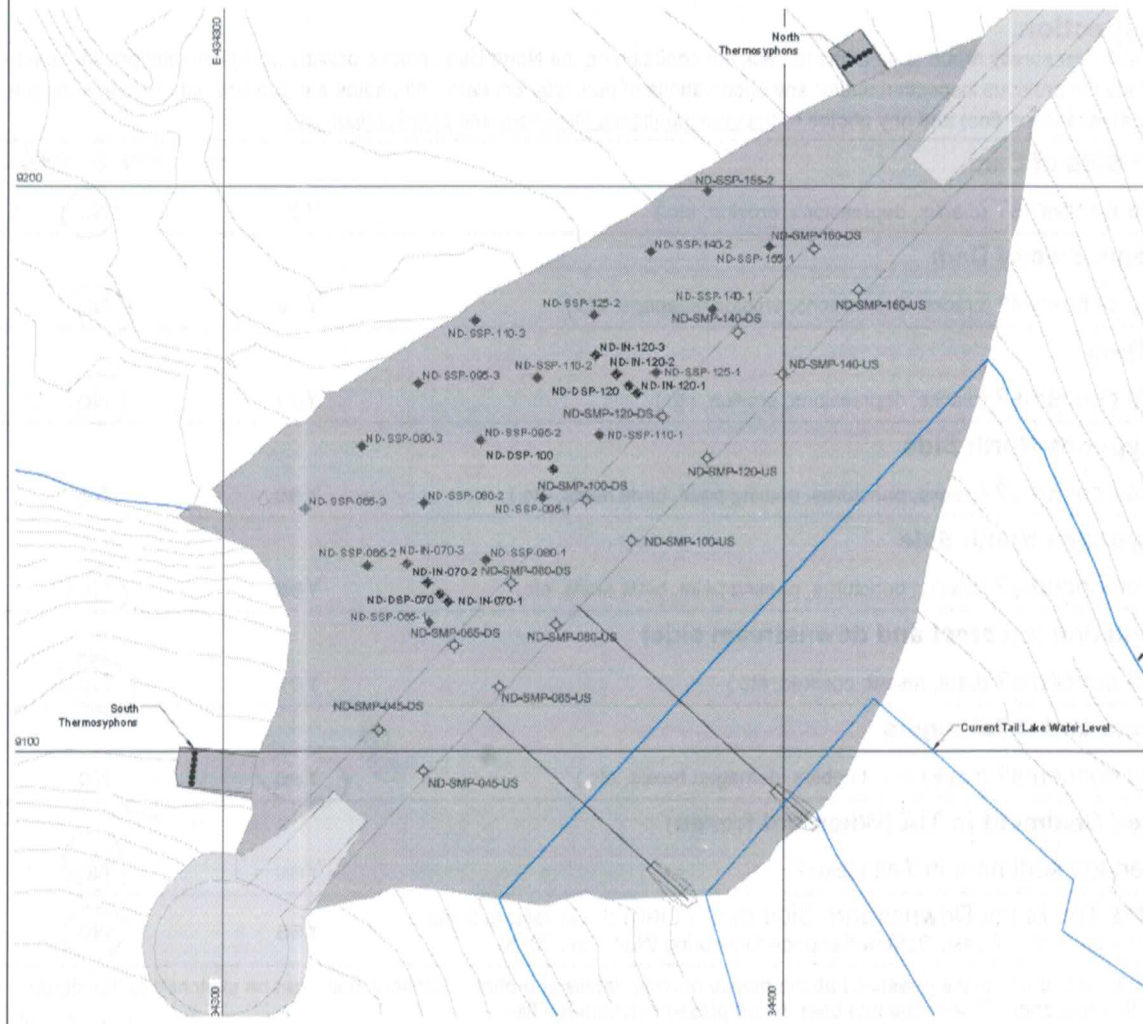


Please provide any other observations you have made or items that did not fit in the space above



Photos:

Please collect the following photos:

- Photo from north end looking south along the dam
- Photo from south end looking north along the dam

☒

☒

Other photos, please describe



North Dam Weekly Walkover Survey Report

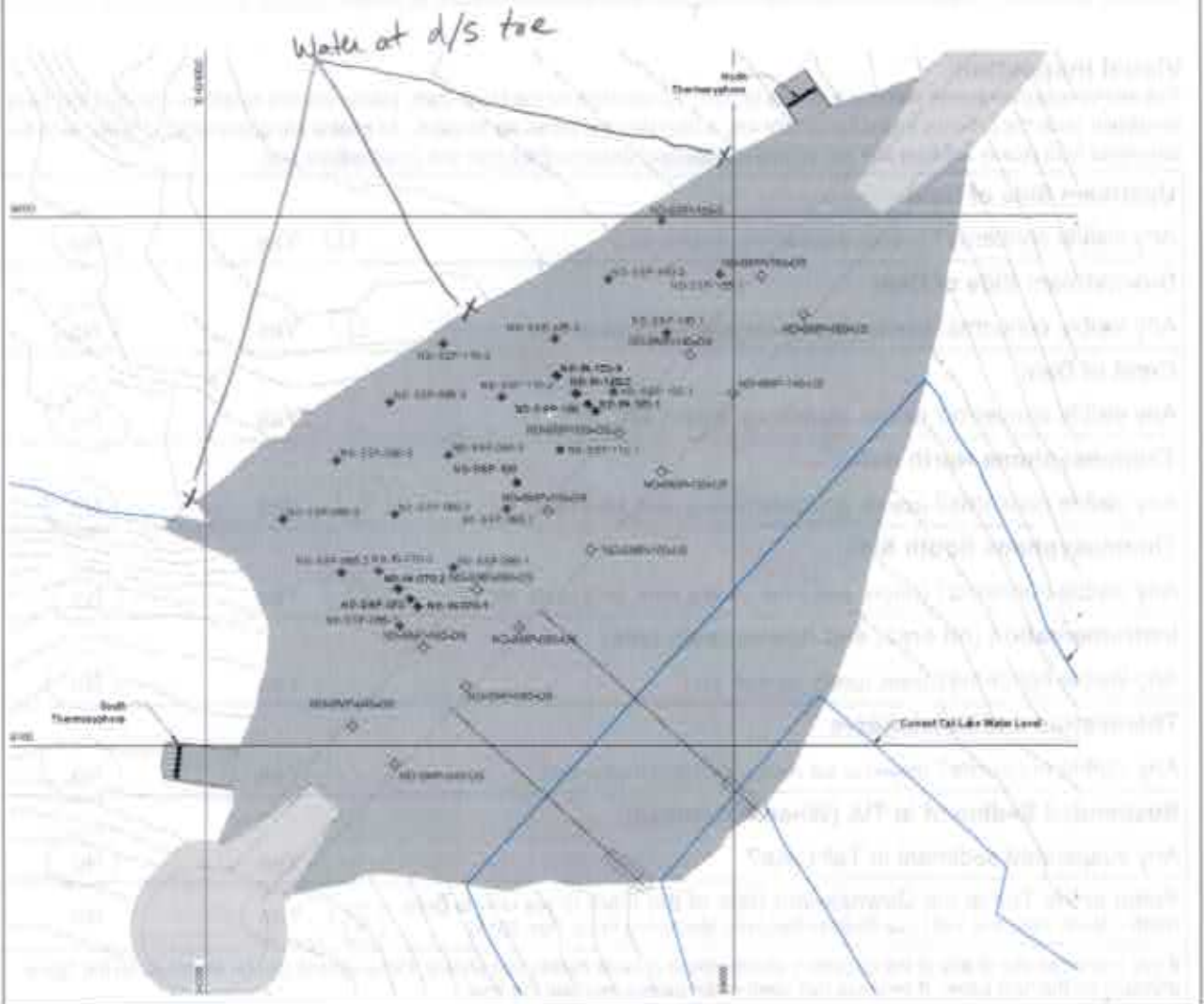
Date:	AUGUST 8/2015
Inspected By:	SARAH WARNOCK
Conditions:	(ie. snow on ground, clear) CLEAR

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	① Yes	No
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	① Yes	No
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Thermosyphons North Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	② Yes	No
Thermosyphons South Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	② Yes	No
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	No
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	No
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	No
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North - North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)	③ Yes	No
If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.		
<p>① No new depressions marked. No change to previously identified depressions.</p> <p>② Rust noted previously - no change</p> <p>③ Water at toe of dam identified in three locations. Thick vegetation along toe made it difficult to identify source location. Appears to run from North end of d/s toe to south end. Field measurements collected for pH, EC, temp, ORP.</p>		

Please provide any other observations you have made or items that did not fit in the space above



Photos:

Please collect the following photos:

Photo from north end looking south along the dam

Photo from south end looking north along the dam



Other photos, please describe *South seep location*





North Dam Weekly Walkover Survey Report

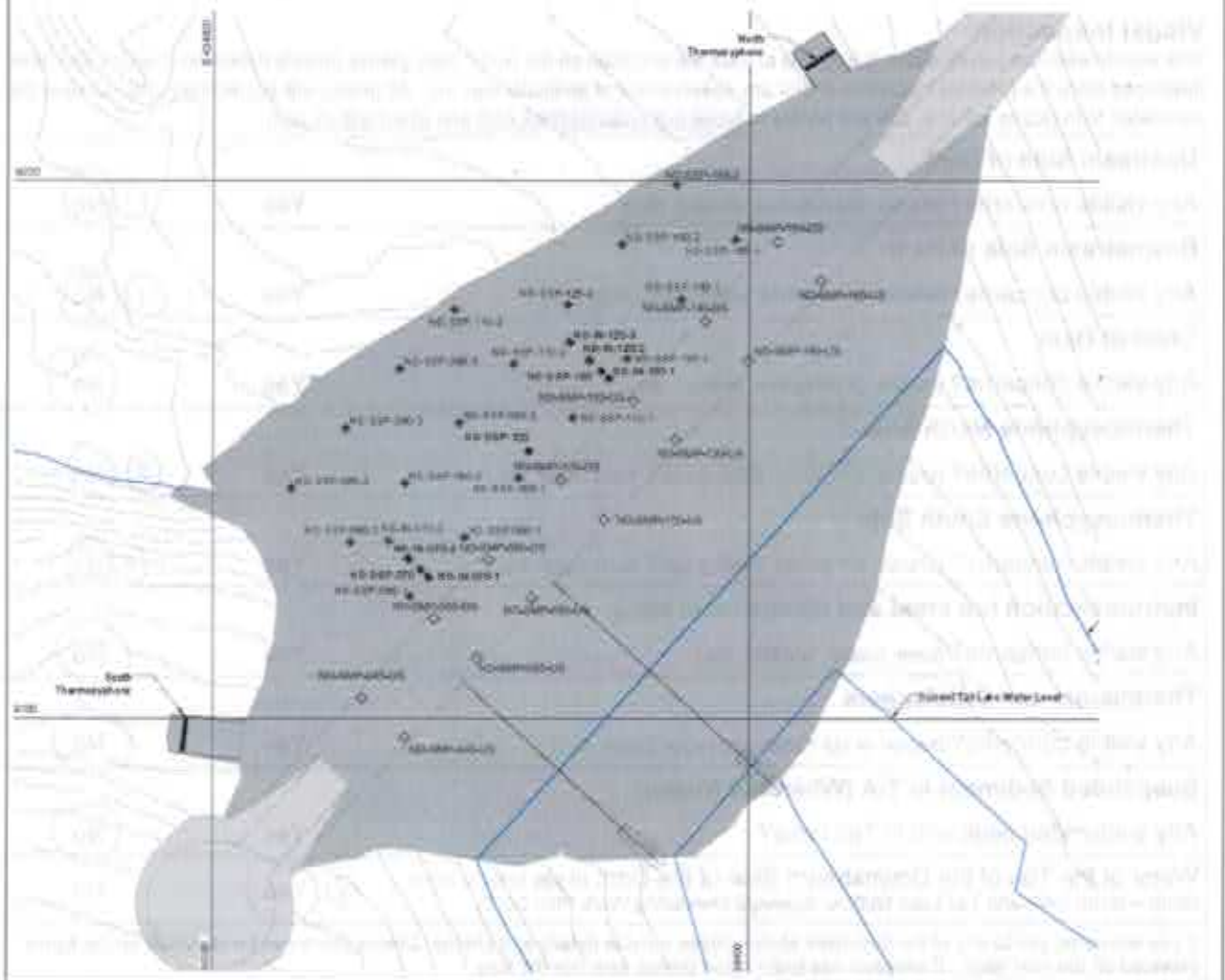
Date:	AUG 16, 2015
Inspected By:	SARAH WARNOCK
Conditions:	(ie. snow on ground, clear) CLEAR

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	<input checked="" type="radio"/> No
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	<input checked="" type="radio"/> No
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	<input checked="" type="radio"/> No
Thermosyphons North Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	<input checked="" type="radio"/> No
Thermosyphons South Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	<input checked="" type="radio"/> No
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	<input checked="" type="radio"/> No
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	<input checked="" type="radio"/> No
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	<input checked="" type="radio"/> No
Water at the Toe of the Downstream Side of the Dam (if yes refer to Doris North - North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)	<input checked="" type="radio"/> Yes	No
If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.		
<p>① No new depressions marked. No change to depressions marked in previous inspections.</p> <p>② Rust noted in previous inspections - no visible change</p> <p>③ water at the ^{d/s} noted in past inspection. No new areas. Thick vegetation prevents evaluation of source.</p>		

Please provide any other observations you have made or items that did not fit in the space above



Photos:

Please collect the following photos:

Photo from north end looking south along the dam

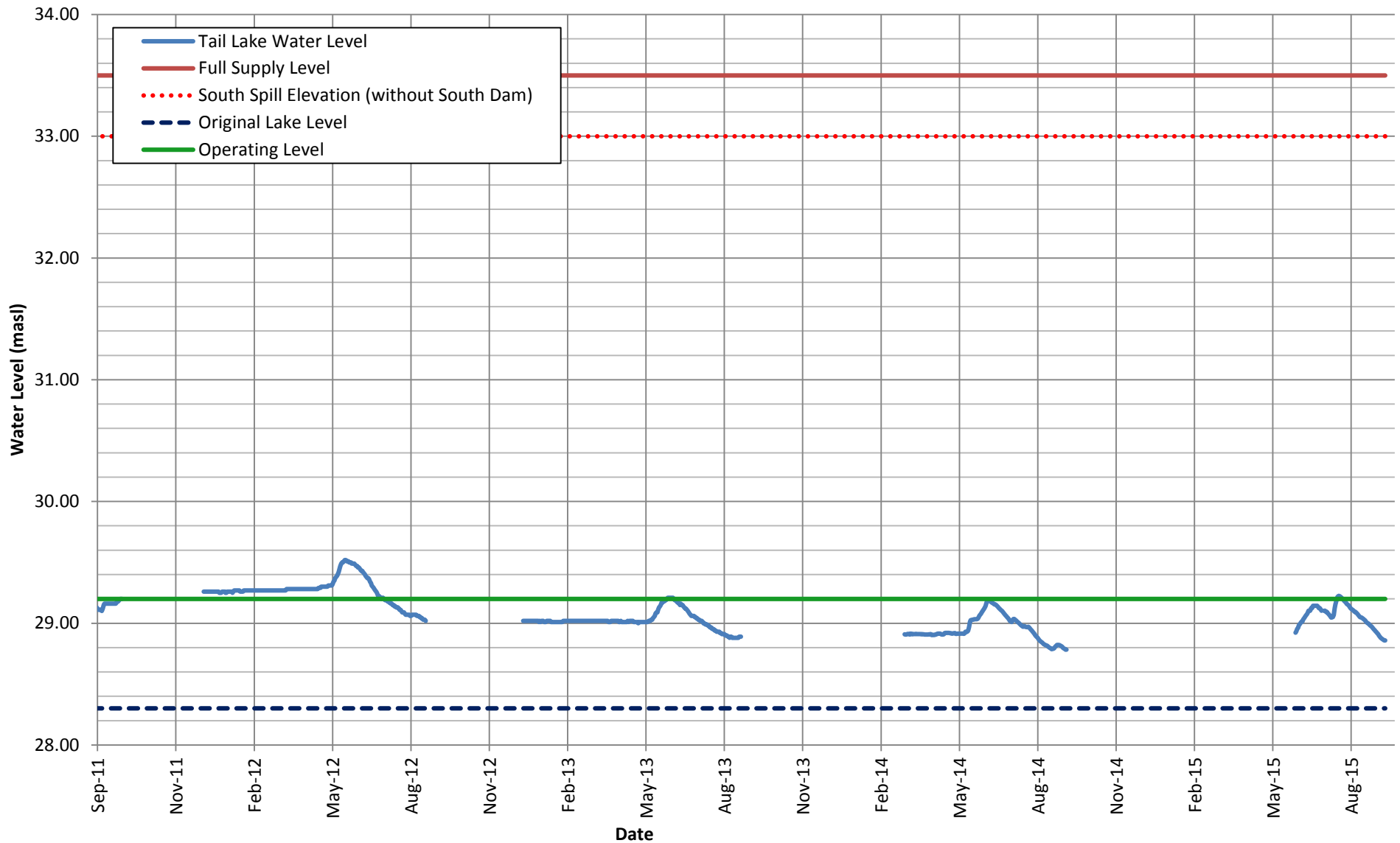
Photo from south end looking north along the dam

Other photos, please describe



Appendix G: TSF Water Level

Tail Lake Water Level



2015 Geotechnical Inspection

TIA Water Level

Job No: 1CT022.002
Filename: AppendixG_WaterLevel.pptx

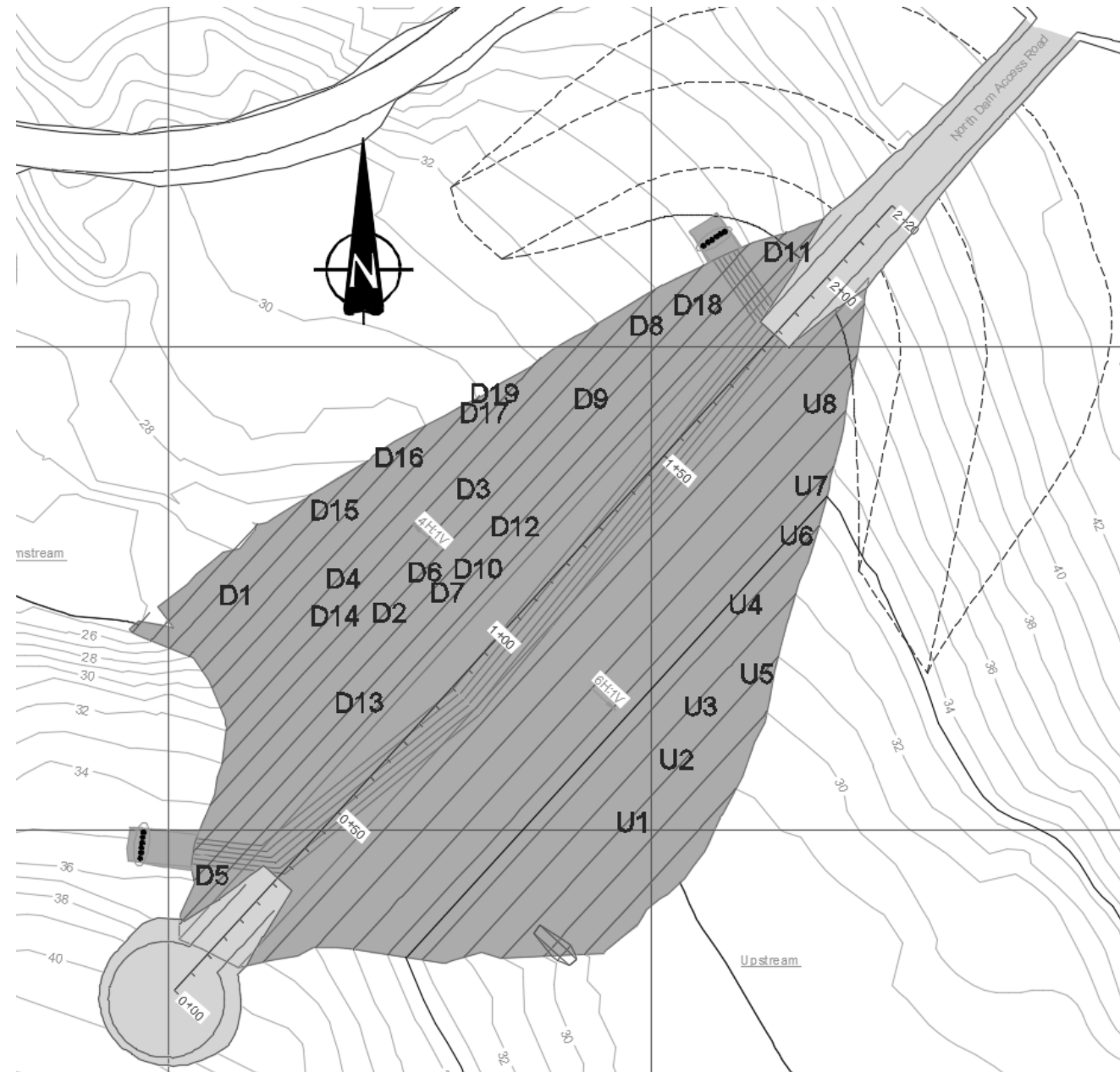
HOPE BAY MINING LTD.

Date:
Oct. 2015

Approved:
PDL

Figure: **G.1**

Appendix H: Depression Monitoring



DEPRESSION TRACKING

ID	Location	Comments
U1	Upstream	First noted June 2014 Boundaries spray painted and ID given July 2014
U2	Upstream	First noted June 2014 Boundaries spray painted and ID given July 2014
U3	Upstream	First noted June 2014 Boundaries spray painted and ID given July 2014 July 4, 2015 - Expanding toward U2
U4	Upstream	First noted June 19, 2015 in weekly reports - No significant change in 2015
U5	Upstream	First noted July 4, 2015 in weekly reports - No significant change in 2015
U6	Upstream	First noted July 4, 2015 in weekly reports - No significant change in 2015
U7	Upstream	First noted July 11, 2015 in weekly reports - No significant change in 2015
U8	Upstream	First noted July 11, 2015 in weekly reports - No significant change in 2015
D1	Downstream	Identified during 2014 annual geotechnical inspection, spray painted and given ID. September 1, 2014 - expanded towards the south September 20, 2014 - TMAC ESR noted the depression looks to have expanded, paint mark updated. July 4, 2015 - Slight expansion toward the crest was noted in the daily report
D2	Downstream	First noted in 2013 Annual Geotechnical Inspection September 14, 2014 - TMAC ESR noted that the depression may have expanded slightly
D3	Downstream	First noted in 2013 Annual Geotechnical Inspection August 10, 2014 - larger area marked
D4	Downstream	First noted August 16, 2014 in weekly report prepared by TMAC ESR. Roughly 0.5x0.5 m area
D5	Downstream	First noted August 16, 2014 in weekly report prepared by TMAC ESR. TMAC ESR notes it could be animal burrows ~1x1 m wide disturbed area (August 2014) July 4, 2015 - Backfilled
D6	Downstream	First noted August 25, 2014 in weekly report prepared by TMAC ESR. 1.5x1.5 m area September 6, 2014 - Possible incremental sloughing (minimal)
D7	Downstream	First noted August 25, 2014 in weekly report prepared by TMAC ESR July 4, 2015 - Paint outline was expanded toward toe as noted in weekly walkover report
D8	Downstream	First noted August 25, 2014 in weekly report prepared by TMAC ESR. Area with signs of erosion. September 20, 2014 - TMAC ESR noted depression looks to have expanded on top right. Difficult to tell from photos, due to snow (and unlabeled photos). July 4, 2015 - Paint outline was expanded toward toe as noted in weekly walkover report
D9	Downstream	First noted September 14, 2014 in weekly report prepared by TMAC ESR
D10	Downstream	First noted June 19, 2015 in weekly reports - No significant change in 2015
D11	Downstream	First noted June 19, 2015 in weekly reports - No significant change in 2015
D12	Downstream	First noted June 27, 2015 in weekly reports - No significant change in 2015
D13	Downstream	First noted June 27, 2015 in weekly reports - No significant change in 2015
D14	Downstream	First noted July 4, 2015 in weekly reports - No significant change in 2015
D15	Downstream	First noted July 4, 2015 in weekly reports - No significant change in 2015
D16	Downstream	First noted July 4, 2015 in weekly reports - No significant change in 2015
D17	Downstream	First noted July 4, 2015 in weekly reports - No significant change in 2015
D18	Downstream	First noted July 11, 2015 in weekly reports - No significant change in 2015
D19	Downstream	First noted July 11, 2015 in weekly reports - No significant change in 2015

Notes:

- Depression locations are based on hand held GPS measurements, accuracy is at best +/- 4 m.
- The location of the depressions U4, D6, D7, D8, D10, D11, D12, D13 are based on field sketches, the accuracy of the location is not known.



Job No: 1CT022.002
Filename: Ndam_DepressionTracking.pptx



HOPE BAY MINING LTD.

2015 North Dam Geotechnical Inspection

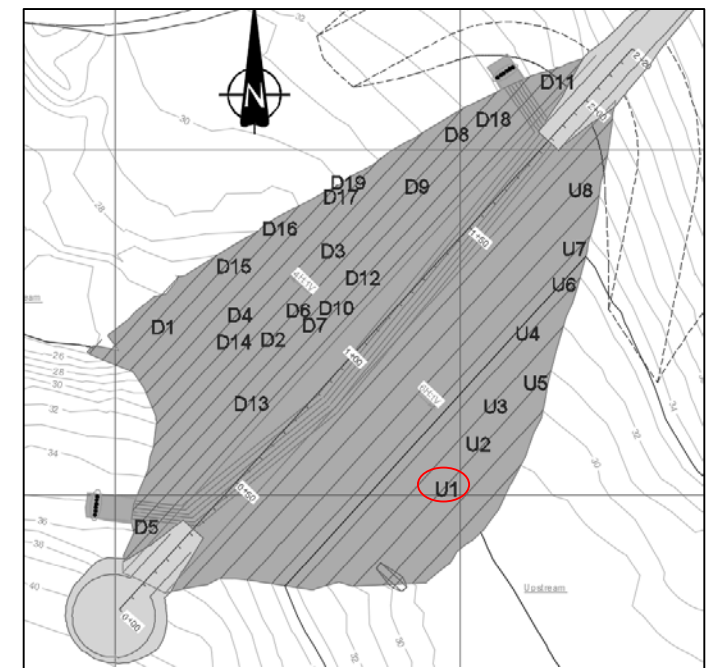
Depression Tracking Overview



Date: Oct. 2015
Approved: PDL
Figure: H.1



Notes:

1. Depression locations are based on hand held GPS measurements, accuracy is at best +/- 4 m.
2. Most photos courtesy of TMAC site personnel



 Job No: 1CT022.002 Filename: Ndam_DepressionTracking.pptx	 HOPE BAY MINING LTD.	2015 North Dam Geotechnical Inspection		
		Depression Tracking U1		
		Date: Oct. 2015	Approved: PDL	Figure: H.2