HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-10-30
Project	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
1358t	441				3740.0	1901.5	5641.5	4.8	1333c	1334c	1358b
1360t	441				3620.0	1901.1	5521.1	4.8	1335c	1336c	1360b
1362t	441	445			3651.2	1913.8	5565.0	4.8	1337c	1338c	1362b
1364t	441	445			3429.8	1913.4	5343.2	4.8	1339c	1340c	1364b
1366t	437				3445.3	1901.8	5347.1	4.8	1341c	1342c	1366b
1368t	437				3467.5	1895.3	5362.8	4.8	1343c	1344c	1368b
1370t	300	316			3426.4	1897.1	5323.5	4.8	1345c	1346c	1370b
1372t	300	316			3466.3	1896.4	5362.7	4.8	1347c	1348c	1372b
1374t	316	388			3442.6	1906.9	5349.5	4.8	1349c	1350c	1374b
1376t	316	388			3535.4	1909.5	5444.9	4.8	1351c	1352c	1376b
1378t	388	392			3998.9	1906.5	5905.4	4.8	1353c	1354c	1378b
1380t	388	392			3470.0	1902.3	5372.3	4.8	1355c	1356c	1380b
1382t	392				3493.3	1904.5	5397.8	4.8	1357c	1358c	1382b
1384t	392				3481.6	1899.6	5381.2	4.8	1359c	1360c	1384b
1386t	445	441	437		3502.8	1909.8	5412.6	9.6	1361c	1362c	1386b
1388t	445	441	437		3457.4	1898.1	5355.5	9.6	1363c	1364c	1388b
1390t	473				3504.1	1901.1	5405.2	9.6	1365c	1366c	1390b
1392t	473				3470.7	1905.2	5375.9	9.6	1367c	1368c	1392b
						TOTAL:	97867.4				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-10-30
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
1394t	473	477			3477.5	1908.6	5386.1	9.6	1369c	1370c	1394b
1396t	473	477			3501.8	1903.7	5405.5	9.6	1371c	1372c	1396b
1398t	477	481			3172.6	1910.1	5082.7	9.6	1373c	1374c	1398b
1400t	477	481			3476.7	1911.3	5388.0	9.6	1375c	1376c	1400b
1402t	481	489	493		3650.0	1910.4	5560.4	4.8	1377c	1378c	1402b
1404t	481	489	493		3610.0	1897.3	5507.3	4.8	1379c	1380c	1404b
1406t	493	477	481		3600.0	1917.9	5517.9	4.8	1381c	1382c	1406b
1408t	493	477	481		3600.0	1928.4	5528.4	4.8	1383c	1384c	1408b
1410t					3620.0	1912.1	5532.1	4.8	1385c	1386c	1410b
1412t					3610.0	1915.9	5525.9	4.8	1387c	1388c	1412b
1414t	330				3600.0	1906.0	5506.0	4.8	1389c	1390c	1414b
1416t	330				3600.0	1918.1	5518.1	4.8	1391c	1392c	1416b
1418t	330	348			3650.0	1912.1	5562.1	4.8	1393c	1394c	1418b
1420t	330	348			3630.0	1911.0	5541.0	4.8	1395c	1396c	1420b
1422t	348	344			3610.0	1909.7	5519.7	4.8	1397c	1398c	1422b
1424t	348	344			3600.0	1920.0	5520.0	4.8	1399c	1400c	1424b
1426t	344	352			3620.0	1921.0	5541.0	4.8	1401c	1402c	1426b
1428t	344	352	300		3610.0	1895.0	5505.0	4.8	1403c	1404c	1428b
						TOTAL:	98647.2				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-10-30
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
1430t	352	521	300		3660.0	1905.1	5565.1	4.8	1405c	1406c	1430b
1432t	352	521	300		3600.0	1914.5	5514.5	4.8	1407c	1408c	1432b
1434t	521	525			3660.0	1920.5	5580.5	4.8	1409c	1410c	1434b
1436t	521	525			3720.0	1921.7	5641.7	4.8	1411c	1412c	1436b
1438t	525	529			3620.0	1918.1	5538.1	4.8	1413c	1414c	1438b
1440t	525	529			3700.0	1912.1	5612.1	4.8	1415c	1416c	1440b
1442t	457	525	521		3600.0	1914.4	5514.4	4.8	1417c	1418c	1442b
1444t	457	525	521		3600.0	1939.6	5539.6	4.8	1419c	1420c	1444b
						TOTAL:	44506.1				

NOTES

TOP UPS

Tanks:		**Piles:**
1386t	1388t	433, 429, 461, 465
1390t	1392t	469
1406t	1408t	473
1410t	1412t	390, 441, 445, 316, 433, 437
1414t	1416t	304, 308, 312
1418t	1420t	320
1430t	1432t	481, 469, 473, 477, 489, 493

HFDI Production Control

Project Number	1814	**Date**	2018-10-30
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	20	217.65	166.52	241.02	44.7%

Daily pile Completion:	2.03%	**Daily Cement used in KG**	76674.00
Piles Poured to Date:	406	**Total Cement used to date KG**	1274023.00
Daily L/M of Drilling:	242.50	**Daily Bentonite used in KG**	9705.50
		Total Bentonite used in KG	153838.00
		Daily Water consumption	215520.00
		Total Water Consumption	3290211.00

HFDI Representative: Alex Zapantis (Name) — (Signature)

KCG Representative: Frédéric Tremblya, P. Eng. (Name) — (Signature)

2018-10-31 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-10-31	Shift: 24hr
		Site Conditions: -7C, intermittent snow	

FOREMAN'S SAFETY/ QUALITY MEETING

Use of lock out tags, safe work procedures, working around heavy equipment

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Repair work done on TEAM mixing plant - placement of spare parts that arrived with Don
Produced grout, poured piles, drilled piles, rock hammer
Hard facing and welding for auger
Swapped out cluster drill and prepared for rebuiling the used one

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-10-31
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Hammer : Shift	Casing Length[1] (m)	Rock Depth[2] (m)	Casing Depth[3] (m)	Final Length[4] (m)	Target Length[5] (m)	Number of Calyx Baskets
0338	Night	Night	12	11.30	11.70	12.50	12.28	2
0358	Night	Night	17	15.80	16.10	17.05	16.85	2.5
0364	Night		14	13.50				
0370	Day	Day	11	10.40	10.90	12.00	11.80	2.5
0376	Day	Night	11	10	10.50	11.6	11.10	1
0390	Night	Night	11	10.20	10.60	11.60	11.22	2
0400	Night	Night	11	10.40	10.80	11.50	11.37	1
0431	Night	Night	10	8.25	8.87	9.90	9.70	1.5
0443	Day	Night		8.30	8.50	9.65	9.42	1.25
0463	Day	Night	10	8.20	8.80	9.50	9.33	2
0467	Day	Night	9	7.80	8.60	9.15	8.94	1.5
0471	Night		9	8.72	9.40			
0475	Night		9	7.58	8.16			
0479	Night		9	7.72	8.95			
0485	Day	Day	9	7.20	8.30	9.30	9.05	2
0491	Night		10	7.74	8.09			
0497	Day	Day	9	7.60	8.10	8.65	8.50	2
0501	Day	Day	9	7.7	8.10	8.68	8.4	2
					TOTAL	141.08		

NOTES

[1] Total length of casing section used

[2] Depth of encountered bedrock

[3] Buried depth of casing after being seated in rock

[4] Total depth of pile

[5] Target depth determined by survey

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-10-31
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Hammer : Shift	Casing Length[1] (m)	Rock Depth[2] (m)	Casing Depth[3] (m)	Final Length[4] (m)	Target Length[5] (m)	Number of Calyx Baskets
0505	Day	Day	10	7.50	8.00	8.80	8.50	1.5
0509	Day	Night		7.20	7.70	8.70	8.45	2
0513	Day	Night	9	7.30	7.70	8.60	8.40	2
0517	Day	Night	12	7.10	8.00	8.50	8.32	2
0527	Night		9	7.45	7.90			
0533	Day	Day	10	8.20	8.60	9.50	9.20	1
0537	Day	Day	10	7.90	8.40	8.85	8.50	1
0541	Day	Day	9	7.50	8.00	8.70	8.40	1.5
0565	Night		10	7.32	7.84			
					TOTAL	61.65		

NOTES

[1] Total length of casing section used

[2] Depth of encountered bedrock

[3] Buried depth of casing after being seated in rock

[4] Total depth of pile

[5] Target depth determined by survey

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-10-31
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
1421c	874.00	696.00	4:28:00	1422c	875.00	717.00	4:40:00	1749.00	1413.00	0.808
1423c	875.00	715.00	5:02:00	1424c	866.00	696.00	5:11:00	1741.00	1411.00	0.810
1425c	873.00	717.00	5:22:00	1426c	874.00	715.00	5:29:00	1747.00	1432.00	0.820
1427c	872.00	715.00	5:52:00	1428c	876.00	705.00	5:59:00	1748.00	1420.00	0.812
1429c	874.00	713.00	6:10:00	1430c	875.00	713.00	6:18:00	1749.00	1426.00	0.815
1431c	875.00	696.00	6:47:00	1432c	870.00	705.00	6:54:00	1745.00	1401.00	0.803
1433c	872.00	696.00	7:11:00	1434c	873.00	696.00	7:20:00	1745.00	1392.00	0.798
1435c	873.00	699.00	7:47:00	1436c	872.00	703.00	7:54:00	1745.00	1402.00	0.803
1437c	874.00	711.00	8:16:00	1438c	876.00	702.00	8:23:00	1750.00	1413.00	0.807
1439c	874.00	698.00	8:51:00	1440c	874.00	710.00	9:00:00	1748.00	1408.00	0.805
1441c	872.00	697.00	9:16:00	1442c	873.00	699.00	9:25:00	1745.00	1396.00	0.800
1443c	875.00	705.00	9:50:00	1444c	875.00	710.00	9:57:00	1750.00	1415.00	0.809
1445c	872.00	709.00	10:18:00	1446c	872.00	702.00	10:26:00	1744.00	1411.00	0.809
1447c	873.00	704.00	10:49:00	1448c	872.00	710.00	11:00:00	1745.00	1414.00	0.810
1449c	871.00	699.00	11:34:00	1450c	877.00	716.00	11:42:00	1748.00	1415.00	0.809
1451c	872.00	695.00	12:03:00	1452c	873.00	695.00	12:11:00	1745.00	1390.00	0.797
1453c	874.00	697.00	12:27:00	1454c	870.00	696.00	12:34:00	1744.00	1393.00	0.799
1455c	868.00	700.00	13:01:00	1456c	871.00	698.00	13:09:00	1739.00	1398.00	0.804
							TOTAL:	31427.00	25350.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-10-31
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
1457c	873.00	711.00	13:29:00	1458c	868.00	701.00	13:38:00	1741.00	1412.00	0.811
1459c	873.00	696.00	14:05:00	1460c	869.00	705.00	14:12:00	1742.00	1401.00	0.804
1461c	871.00	711.00	14:31:00	1462c	876.00	711.00	14:37:00	1747.00	1422.00	0.814
1463c	871.00	697.00	14:56:00	1464c	870.00	702.00	15:03:00	1741.00	1399.00	0.804
1465c	875.00	700.00	15:34:00	1466c	875.00	700.00	14:41:00	1750.00	1400.00	0.800
1467c	865.00	700.00	16:08:00	1468c	880.00	700.00	16:14:00	1745.00	1400.00	0.802
1469c	890.00	709.00	16:34:00	1470c	880.00	710.00	16:40:00	1770.00	1419.00	0.802
1471c	890.00	715.00	17:07:00	1472c	880.00	710.00	17:12:00	1770.00	1425.00	0.805
1473c	893.00	700.00	17:25:00	1474c	875.00	715.00	17:34:00	1768.00	1415.00	0.800
1475c	875.00	710.00	18:14:00	1476c	875.00	720.00	18:22:00	1750.00	1430.00	0.817
1477c	875.00	720.00	18:33:00	1478c	875.00	715.00	18:46:00	1750.00	1435.00	0.820
1479c	875.00	720.00	18:58:00	1480c	875.00	715.00	19:07:00	1750.00	1435.00	0.820
1481c	875.00	715.00	19:16:00	1482c	875.00	720.00	19:25:00	1750.00	1435.00	0.820
1483c	875.00	720.00	20:08:00	1484c	875.00	720.00	20:42:00	1750.00	1440.00	0.823
1485c	875.00	715.00	20:49:00	1486c	875.00	715.00	20:55:00	1750.00	1430.00	0.817
1487c	875.00	720.00	21:25:00	1488c	875.00	720.00	21:33:00	1750.00	1440.00	0.823
1489c	875.00	720.00	21:44:00	1490c	875.00	715.00	21:53:00	1750.00	1435.00	0.820
1491c	875.00	700.00	22:24:00	1492c	875.00	715.00	22:33:00	1750.00	1415.00	0.809
							TOTAL:	31524.00	25588.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-10-31
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
1493c	870.00	705.00	22:51:00	1494c	875.00	705.00	22:59:00	1745.00	1410.00	0.808
1495c	870.00	715.00	23:36:00	1496c	870.00	712.00	23:44:00	1740.00	1427.00	0.820
1497c	870.00	710.00	23:59:00	1498c	870.00	715.00	0:08:00	1740.00	1425.00	0.819
1499c	868.00	708.00	0:53:00	1500c	866.00	700.00	1:01:00	1734.00	1408.00	0.812
1501c	861.00	707.00	1:14:00	1502c	864.00	707.00	1:27:00	1725.00	1414.00	0.820
1503c	871.00	689.00	1:45:00	1504c	866.00	706.00	1:56:00	1737.00	1395.00	0.803
1505c	868.00	694.00	2:08:00	1506c	863.00	697.00	2:20:00	1731.00	1391.00	0.804
1507c	867.00	708.00	2:40:00	1508c	865.00	714.00	2:50:00	1732.00	1422.00	0.821
1509c	875.00	707.00	3:07:00	1510c	872.00	711.00	3:15:00	1747.00	1418.00	0.812
1511c	873.00	707.00	3:55:00	1512c	875.00	697.00	4:06:00	1748.00	1404.00	0.803
							TOTAL:	17379.00	14114.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-10-31
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
1446b	218.30	3468.00	15.89	5:06:00
1448b	217.20	3434.00	15.81	5:32:00
1450b	224.80	3554.00	15.81	5:53:00
1452b	217.70	3450.00	15.85	6:28:00
1454b	211.30	3342.00	15.82	6:51:00
1456b	214.30	3388.00	15.81	7:20:00
1458b	212.50	3362.00	15.82	7:57:00
1460b	216.80	3414.00	15.75	8:25:00
1462b	310.90	3350.00	10.78	8:54:00
1464b	216.40	3448.00	15.93	9:23:00
1466b	214.90	3394.00	15.79	9:53:00
1468b	218.40	3444.00	15.77	10:21:00
1470b	215.70	3408.00	15.80	10:55:00
1472b	215.80	3416.00	15.83	11:40:00
1474b	218.40	3474.00	15.91	12:06:00
1476b	209.70	3318.00	15.82	12:36:00
1478b	212.40	3358.00	15.81	13:04:00
1480b	209.10	3306.00	15.81	13:33:00
TOTAL:	3974.60	61328.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-10-31
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
1482b	215.20	3400.00	15.80	14:10:00
1484b	216.80	3426.00	15.80	14:35:00
1486b	219.80	3458.00	15.73	14:59:00
1488b	214.00	3398.00	15.88	15:39:00
1490b	210.20	3336.00	15.87	16:18:00
1492b	214.70	3382.00	15.75	16:41:00
1494b	213.20	3447.80	16.17	17:03:00
1496b	214.60	3390.00	15.80	17:34:00
1498b	214.90	3392.00	15.78	18:08:00
1500b	217.30	3444.00	15.85	18:29:00
1502b	221.00	3504.00	15.86	3:16:00
1504b	228.20	3590.00	15.73	19:19:00
1506b	221.70	3506.00	15.81	20:06:00
1508b	227.30	3568.00	15.70	20:44:00
1510b	222.80	3520.00	15.80	21:22:00
1512b	227.50	3606.00	15.85	21:47:00
1514b	221.90	3500.00	15.77	22:30:00
1516b	225.90	3580.00	15.85	22:55:00
TOTAL:	3947.00	62447.80		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-10-31
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
1518b	226.60	3596.00	15.87	23:32:00
1520b	222.20	3514.00	15.81	0:07:00
1522b	221.70	3496.00	15.77	0:38:00
1524b	220.10	3476.00	15.79	1:16:00
1526b	210.60	3332.00	15.82	2:01:00
1528b	217.70	3458.00	15.88	2:21:00
1530b	248.60	3908.00	15.72	2:42:00
1532b	215.10	3366.00	15.65	3:09:00
1534b	206.60	3278.00	15.87	3:49:00
1536b	227.60	3582.00	15.74	4:21:00
TOTAL:	2216.80	35006.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-10-31
Project	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
1446t	457	453			3610.0	1912.4	5522.4	9.6	1421c	1422c	1446b
1448t	457	453			3620.0	1906.7	5526.7	9.6	1423c	1424c	1448b
1450t	453	449			3630.0	1924.0	5554.0	9.6	1425c	1426c	1450b
1452t	453	449			3529.1	1916.6	5445.7	9.6	1427c	1428c	1452b
1454t	449	427			3419.1	1921.1	5340.2	9.6	1429c	1430c	1454b
1456t	449	427			3466.2	1902.2	5368.4	9.6	1431c	1432c	1456b
1458t	427	423			3439.5	1896.2	5335.7	9.6	1433c	1434c	1458b
1460t	427	423			3493.6	1902.9	5396.5	9.6	1435c	1436c	1460b
1462t	423	334			3426.4	1913.0	5339.4	9.6	1437c	1438c	1462b
1464t	423	334			3527.1	1908.5	5435.6	9.6	1439c	1440c	1464b
1466t	334	324			2472.6	1898.9	4371.5	9.6	1441c	1442c	1466b
1468t	334	324			3524.0	1914.3	5438.3	9.6	1443c	1444c	1468b
1470t	324				3486.8	1908.3	5395.1	9.6	1445c	1446c	1470b
1472t	324				3494.6	1910.9	5405.5	9.6	1447c	1448c	1472b
1474t	485				3552.9	1913.2	5466.1	9.6	1449c	1450c	1474b
1476t	485				3394.4	1894.9	5289.3	9.6	1451c	1452c	1476b
1478t	497				3435.5	1896.3	5331.8	9.6	1453c	1454c	1478b
1480t	497				3382.3	1896.9	5279.2	9.6	1455c	1456c	1480b
						TOTAL:	96241.3				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-10-31
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
1482t	501				3478.6	1907.3	5385.9	9.6	1457c	1458c	1482b
1484t	501				3505.2	1900.5	5405.7	9.6	1459c	1460c	1484b
1486t	505				3538.9	1917.3	5456.2	9.6	1461c	1462c	1486b
1488t	505				3475.5	1898.6	5374.1	9.6	1463c	1464c	1488b
1490t	533	537			3402.6	1904.3	5306.9	9.6	1465c	1466c	1490b
1492t	533	537			3460.8	1901.5	5362.3	9.6	1467c	1468c	1492b
1494t	537	541			3447.8	1928.1	5375.9	9.6	1469c	1470c	1494b
1496t	537	541			3468.4	1932.1	5400.5	9.6	1471c	1472c	1496b
1498t	541				3570.0	1924.3	5494.3	9..6	1473c	1474c	1498b
1500t	541				3610.0	1924.3	5534.3	4.8	1475c	1476c	1500b
1502t	370	533			3660.0	1927.7	5587.7	4.8	1477c	1478c	1502b
1504t	370	533			3600.0	1927.7	5527.7	4.8	1479c	1480c	1504b
1506t	370	376			3600.0	1927.7	5527.7	4.8	1481c	1482c	1506b
1508t	370	376			3600.0	1931.0	5531.0	4.8	1483c	1484c	1508b
1510t	376	541	517		3700.0	1924.3	5624.3	4.8	1485c	1486c	1510b
1512t	376	541	517		3630.0	1931.0	5561.0	4.8	1487c	1488c	1512b
1514t	517	513			3660.0	1927.7	5587.7	4.8	1489c	1490c	1514b
1516t	517	513			3580.0	1914.3	5494.3	4.8	1491c	1492c	1516b
						TOTAL:	98537.7				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-10-31
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
1518t	513	509	517		3680.0	1908.2	5588.2	4.8	1493c	1494c	1518b
1520t	513	509	517		3580.0	1916.8	5496.8	4.8	1495c	1496c	1520b
1522t	509				3570.0	1915.5	5485.5	4.8	1497c	1498c	1522b
1524t	509				3600.0	1900.8	5500.8	4.8	1499c	1500c	1524b
1526t	467	463	513		3570.0	1899.8	5469.8	4.8	1501c	1502c	1526b
1528t	467	463	513		3600.0	1893.8	5493.8	4.8	1503c	1504c	1528b
1530t	463	443	467		3620.0	1887.8	5507.8	4.8	1505c	1506c	1530b
1532t	463	443	467		3570.0	1909.0	5479.0	4.8	1507c	1508c	1532b
1534t	443	431	463		3700.0	1914.7	5614.7	4.8	1509c	1510c	1534b
1536t	443	431	463		3550.0	1905.9	5455.9	4.8	1511c	1512c	1536b
						TOTAL:	55092.2				

NOTES

TOP UPS

Tanks:		**Piles:**
1470t	1472t	348, 344
1490t	1492t	352, 398, 399
1498t	1500t	449, 453, 457, 473, 455, 477
1502t	1504t	497, 501, 505, 529, 423, 427
1506t	1508t	334
1522t	1524t	533, 541, 537
1526t	1528t	505, 501, 497
1530t	1532t	457, 453, 449
5534t	1536t	513, 509

HFDI Production Control

Project Number	1814	Date	2018-10-31
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	22	215.48	164.76	249.87	51.7%

Daily pile Completion: 2.24%
Piles Poured to Date: 428
Daily L/M of Drilling: 202.73

Daily Cement used in KG	80330.00
Total Cement used to date KG	1354353.00
Daily Bentonite used in KG	10138.40
Total Bentonite used in KG	163976.00
Daily Water consumption	223833.80
Total Water Consumption	3514045.00

Completion to end of October: 423 piles
3555.07 lineal meters
* Based off QC and Survey measurement

HFDI Representative: Alex Zapantis (Name) _____ (Signature)

KCG Representative: ANDREY BILODERN (Name) _____ (Signature)

2018-11-01 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-11-01	Shift: 24hr
		Site Conditions: -12C, cloudy	

FOREMAN'S SAFETY/ QUALITY MEETING

Swinging equipment, falling debris, , open holes, high pressure air

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Produced grout, poured piles, drilled piles, rock hammer
Repair and servicing to BG30

Blew a hose on rock hammer - replaced it and kept hammering

Crowd cable sheave bearing broke during night shift - sat hammer and attempted to repair

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-01
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Hammer : Shift	Casing Length[1] (m)	Rock Depth[2] (m)	Casing Depth[3] (m)	Final Length[4] (m)	Target Length[5] (m)	Number of Calyx Baskets
0328	Day	Night	12	11.00	11.50	12.65	12.50	3
0354	Day	Night	17	15.80	16.30	16.70	16.50	3
0364	Night	Night	18	13.50	17.51	17.95	17.80	4
0396	Day	Day	11	9.67	10.50	11.50	11.20	2
0404	Night		11	10.2	10.77			
0408	Night		12	11.40	11.80			
0412	Day	Day	12	10.30	10.80	12.85	12.61	3
0416	Day	Day	11	9.50	10.00	11.30	11.00	2
0435	Day	Day	10	8.40	8.80	9.80	9.62	1.5
0439	Day	Day	10	8.30	8.80	9.65	9.42	1.5
0471		Day	9	8.72	9.40	10.00	9.70	1.5
0475		Day	9	7.58	8.16	9.20	9.00	1
0479		Day	9	7.72	8.95	9.30	9.00	1.5
0483	Night		10	7.90	8.56			
0491		Day	10	7.74	8.09	8.80	8.60	2.5
0503	Night	Night	10	7.42	8.25	8.50	8.45	1
0527		Day	9	7.45	7.90	8.90	8.40	1.5
0545	Night		9	7.36	8.27			
					TOTAL	157.10		

NOTES

[1] Total length of casing section used

[2] Depth of encountered bedrock

[3] Buried depth of casing after being seated in rock

[4] Total depth of pile

[5] Target depth determined by survey

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-01
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Hammer : Shift	Casing Length[1] (m)	Rock Depth[2] (m)	Casing Depth[3] (m)	Final Length[4] (m)	Target Length[5] (m)	Number of Calyx Baskets
0549	Day		10	7.70	8.20			
0553	Day		9	8.20	8.60			
0557	Day		9	8.10	8.60			
0561	Day		9	7.30	8.10			
					TOTAL			

NOTES

[1] Total length of casing section used

[2] Depth of encountered bedrock

[3] Buried depth of casing after being seated in rock

[4] Total depth of pile

[5] Target depth determined by survey

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-01
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
1513c	867.00	711.00	4:14:00	1514c	864.00	703.00	4:25:00	1731.00	1414.00	0.817
1515c	869.00	709.00	4:47:00	1516c	879.00	715.00	5:02:00	1748.00	1424.00	0.815
1517c	872.00	707.00	5:14:00	1518c	871.00	705.00	5:25:00	1743.00	1412.00	0.810
1519c	872.00	710.00	5:44:00	1520c	875.00	696.00	5:52:00	1747.00	1406.00	0.805
1521c	865.00	697.00	6:14:00	1522c	863.00	710.00	6:25:00	1728.00	1407.00	0.814
1523c	817.00	713.00	7:31:00	1524c	868.00	700.00	7:38:00	1685.00	1413.00	0.839
1525c	875.00	708.00	7:45:00	1526c	866.00	703.00	7:52:00	1741.00	1411.00	0.810
1527c	867.00	696.00	8:34:00	1528c	866.00	711.00	8:47:00	1733.00	1407.00	0.812
1529c	873.00	702.00	9:02:00	1530c	867.00	696.00	9:15:00	1740.00	1398.00	0.803
1531c	867.00	705.00	11:25:00	1532c	873.00	710.00	11:33:00	1740.00	1415.00	0.813
1533c	871.00	714.00	11:43:00	1534c	875.00	699.00	11:50:00	1746.00	1413.00	0.809
1535c	871.00	701.00	12:44:00	1536c	863.00	703.00	12:51:00	1734.00	1404.00	0.810
1537c	869.00	705.00	13:03:00	1538c	870.00	697.00	13:10:00	1739.00	1402.00	0.806
1539c	867.00	696.00	13:42:00	1540c	874.00	701.00	13:52:00	1741.00	1397.00	0.802
1541c	867.00	701.00	14:12:00	1542c	871.00	698.00	14:18:00	1738.00	1399.00	0.805
1543c	872.00	696.00	14:45:00	1544c	867.00	700.00	14:52:00	1739.00	1396.00	0.803
1545c	871.00	706.00	15:16:00	1546c	875.00	700.00	15:25:00	1746.00	1406.00	0.805
1547c	877.00	696.00	15:48:00	1548c	873.00	699.00	15:55:00	1750.00	1395.00	0.797
							TOTAL:	31269.00	25319.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-01
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
1549c	873.00	698.00	16:18:00	1550c	871.00	706.00	16:25:00	1744.00	1404.00	0.805
1551c	872.00	699.00	16:50:00	1552c	871.00	705.00	16:57:00	1743.00	1404.00	0.806
1553c	867.00	701.00	17:13:00	1554c	873.00	706.00	17:20:00	1740.00	1407.00	0.809
1555c	872.00	699.00	18:02:00	1556c	871.00	698.00	18:12:00	1743.00	1397.00	0.801
1557c	872.00	703.00	18:20:00	1558c	869.00	697.00	18:28:00	1741.00	1400.00	0.804
1559c	870.00	707.00	18:49:00	1560c	867.00	702.00	19:00:00	1737.00	1409.00	0.811
1561c	874.00	710.00	19:07:00	1562c	871.00	696.00	19:14:00	1745.00	1406.00	0.806
1563c	870.00	707.00	19:36:00	1564c	873.00	703.00	19:43:00	1743.00	1410.00	0.809
1565c	869.00	695.00	19:52:00	1566c	872.00	714.00	20:00:00	1741.00	1409.00	0.809
1567c	872.00	702.00	20:47:00	1568c	875.00	710.00	20:56:00	1747.00	1412.00	0.808
1569c	870.00	705.00	21:22:00	1570c	867.00	695.00	21:29:00	1737.00	1400.00	0.806
1571c	870.00	711.00	21:50:00	1572c	869.00	706.00	22:00:00	1739.00	1417.00	0.815
1573c	864.00	707.00	22:10:00	1574c	869.00	711.00	22:19:00	1733.00	1418.00	0.818
1575c	868.00	695.00	0:33:00	1576c	867.00	709.00	0:41:00	1735.00	1404.00	0.809
1577c	866.00	711.00	0:53:00	1578c	873.00	708.00	1:02:00	1739.00	1419.00	0.816
1579c	870.00	712.00	1:27:00	1580c	864.00	711.00	1:36:00	1734.00	1423.00	0.821
1581c	870.00	707.00	2:01:00	1582c	868.00	708.00	2:11:00	1738.00	1415.00	0.814
1583c	863.00	710.00	2:27:00	1584c	866.00	707.00	2:39:00	1729.00	1417.00	0.820
							TOTAL:	31308.00	25371.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-01
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
1585c	866.00	702.00	2:49:00	1586c	866.00	717.00	3:04:00	1732.00	1419.00	0.819
							TOTAL:	1732.00	1419.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-01
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
1538b	226.20	3586.00	15.85	4:43:00
1540b	234.60	3716.00	15.84	5:09:00
1542b	221.40	3512.00	15.86	5:42:00
1544b	221.50	3500.00	15.80	6:11:00
1546b	211.40	3356.00	15.88	7:10:00
1548b	212.30	3368.00	15.86	7:54:00
1550b	212.10	3372.00	15.90	8:27:00
1552b	213.10	3372.00	15.82	8:55:00
1554b	214.50	3382.00	15.77	11:30:00
1556b	213.30	3380.00	15.85	11:52:00
1558b	215.80	3420.00	15.85	12:20:00
1560b	212.70	3366.00	15.83	12:55:00
1562b	214.30	3390.00	15.82	13:44:00
1564b	215.60	3390.00	15.72	14:13:00
1566b	217.20	3420.00	15.75	14:48:00
1568b	214.40	3384.00	15.78	15:14:00
1570b	218.20	3432.00	15.73	15:50:00
1572b	216.40	3402.00	15.72	16:19:00
TOTAL:	3905.00	61748.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-01
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
1574b	213.00	3370.00	15.82	16:49:00
1576b	214.70	3394.00	15.81	17:16:00
1578b	213.40	3370.00	15.79	17:54:00
1580b	217.50	3436.00	15.80	18:18:00
1582b	226.80	3600.00	15.87	18:45:00
1584b	219.10	3444.00	15.72	19:05:00
1586b	220.40	3460.00	15.70	19:35:00
1588b	213.40	3400.00	15.93	20:04:00
1590b	215.30	3424.00	15.90	20:42:00
1592b	221.60	3464.00	15.63	21:18:00
1594b	215.80	3428.00	15.89	21:51:00
1596b	223.10	3536.00	15.85	22:11:00
1598b	215.90	3394.00	15.72	0:37:00
1600b	215.40	3408.00	15.82	0:58:00
1602b	212.30	3376.00	15.90	1:21:00
1604b	219.80	3466.00	15.77	2:03:00
1606b	221.40	3488.00	15.75	2:29:00
1608b	216.90	3424.00	15.79	2:52:00
TOTAL:	3915.80	61882.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-01
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
1610b	214.80	3396.00	15.81	4:17:00
TOTAL:	214.80	3396.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-01
Project	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
1538t	431				3600.0	1903.1	5503.1	4.8	1513c	1514c	1538b
1540t	431				3610.0	1919.2	5529.2	4.8	1515c	1516c	1540b
1542t	338	358			3600.0	1908.4	5508.4	4.8	1517c	1518c	1542b
1544t	338	358			3580.9	1906.6	5487.5	4.8	1519c	1520c	1544b
1546t	358	390			3432.6	1896.8	5329.4	4.8	1521c	1522c	1546b
1548t	358	390			3445.0	1877.0	5322.0	4.8	1523c	1524c	1548b
1550t	390	400			3448.7	1906.7	5355.4	4.8	1525c	1526c	1550b
1552t	390	400			3449.7	1899.6	5349.3	4.8	1527c	1528c	1552b
1554t	400	475			3460.6	1897.4	5358.0	4.8	1529c	1530c	1554b
1556t	400	475			3457.9	1908.8	5366.7	4.8	1531c	1532c	1556b
1558t	358				3498.4	1910.8	5409.2	4.8	1533c	1534c	1558b
1560t	358				3443.5	1898.1	5341.6	4.8	1535c	1536c	1560b
1562t	475				3468.1	1899.5	5367.6	4.8	1537c	1538c	1562b
1564t	475				3469.4	1897.3	5366.7	4.8	1539c	1540c	1564b
1566t	475	471			3499.8	1897.0	5396.8	4.8	1541c	1542c	1566b
1568t	475	471			3462.5	1895.5	5358.0	4.8	1543c	1544c	1568b
1570t	471	491	475		3512.3	1906.1	5418.4	4.8	1545c	1546c	1570b
1572t	471	491	475		3481.7	1901.0	5382.7	4.8	1547c	1548c	1572b
						TOTAL:	97150.1				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-01
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
1574t	527	439			3447.6	1903.7	5351.3	4.8	1549c	1550c	1574b
1576t	527	439			3472.4	1903.1	5375.5	4.8	1551c	1552c	1576b
1578t	439	435			3448.0	1903.4	5351.4	4.8	1553c	1554c	1578b
1580t	439	435			3690.0	1898.4	5588.4	9.6	1555c	1556c	1580b
1582t	416	412			3570.0	1899.3	5469.3	9.6	1557c	1558c	1582b
1584t	416	412			3580.0	1903.1	5483.1	9.6	1559c	1560c	1584b
1586t	412	435	439		3600.0	1905.5	5505.5	9.6	1561c	1562c	1586b
1588t	412	435	439		3600.0	1907.1	5507.1	9.6	1563c	1564c	1588b
1590t	396	439			3620.0	1905.3	5525.3	9.6	1565c	1566c	1590b
1592t	396	439			3630.0	1910.7	5540.7	9.6	1567c	1568c	1592b
1594t	328				3600.0	1897.1	5497.1	4.8	1569c	1570c	1594b
1596t	328				3630.0	1909.6	5539.6	4.8	1571c	1572c	1596b
1598t	412				3620.0	1906.9	5526.9	9.6	1573c	1574c	1598b
1600t	412				3590.0	1898.7	5488.7	9.6	1575c	1576c	1600b
1602t	354				3640.0	1910.9	5550.9	9.6	1577c	1578c	1602b
1604t	354				3650.0	1910.8	5560.8	9.6	1579c	1580c	1604b
1606t	354	364			3620.0	1907.7	5527.7	9.6	1581c	1582c	1606b
1608t	354	364			3660.0	1904.0	5564.0	9.6	1583c	1584c	1608b
						TOTAL:	98953.3				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-01
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
1610t	364	354	328		3580.0	1907.0	5487.0	9.6	1585c	1586c	1610b
						TOTAL:	5487.0				

NOTES

TOP UPS

Tanks:		**Piles:**
1558t	1660t	344, 348, 330, 352, 390, 376, 370
1562t	1564t	517, 513, 509, 505, 503, 471, 467, 463, 443, 431
1590t	1592t	400, 431
1594t	1596t	338, 334, 324
1598t	1600t	416, 439, 443, 463, 464, 471, 475, 479, 491, 524

HFDI Production Control

Project Number	1814	Date	2018-11-01
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	16	191.95	146.83	201.59	37.3%

Daily pile Completion:	1.63%	**Daily Cement used in KG**	64309.00
Piles Poured to Date:	444	**Total Cement used to date KG**	1418662.00
Daily L/M of Drilling:	157.10	**Daily Bentonite used in KG**	8035.60
		Total Bentonite used in KG	172011.60
		Daily Water consumption	179135.00
		Total Water Consumption	3693180.00

HFDI Representative: Alex Zapantis (Name) — (Signature)

KCG Representative: AUDREY BILODEAU (Name) — (Signature)

2018-11-02 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-11-04	Shift: 24hr
		Site Conditions: -18, strong wind & blowing snow	

FOREMAN'S SAFETY/ QUALITY MEETING

Proper disposal of spray cans and the recent incidents that have occurred due to improper disposal

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Modifications to hammer air supply and calyx basket
Finished platform for QC and Survey to use on piles
Removed casing which was stuck in the ground
Produced grout, poured piles, drilled piles, rock hammer/ rock bucket for sockets

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-04
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Hammer : Shift	Casing Length[1] (m)	Rock Depth[2] (m)	Casing Depth[3] (m)	Final Length[4] (m)	Target Length[5] (m)	Number of Calyx Baskets
0374	Night	Night	11	10.40	10.75	11.40	11.20	N/A
0374b	Night	Night	12	N/A	10.30	10.70	10.10	N/A
0394		Night	11	10.50	10.90	11.30	11.10	1
0398		Night	12	11.30	11.75	11.80	11.60	1
0414	Day	Day	12	10.5	11.00	13.05	12.83	4
0420		Day	10	9.60	9.92	11.00	10.80	2
0424		Day	10	9.30	9.73	10.40	10.30	1
0428	Day	Day	10	9.24	9.75	10.50	10.20	1.5
0539		Day	10	8.35	8.92	9.60	9.50	3
0543	Day	Night	10	7.80	9.03	9.60	9.50	1
0551	Day	Day	9	7.81	8.45	9.50	9.50	N/A
0555	Day	Night	10	7.90	8.40	9.65	9.50	2
0559	Day	Night	10	7.52	8.25	9.60	9.40	2
0563	Day	Night	10	7.98	8.60	9.65	9.60	2.5
0569	Day	Night	9	7.73	8.40	9.55	9.50	3
0573	Day	Night	10	7.85	8.40	9.75	9.48	3
0577	Day	Night	10	7.84	9.20	9.55	9.49	2
0589	Night		10	7.81	8.34			
					TOTAL	176.60		

NOTES

Piles 0374, 0374b, and 0551 all used the rock bucket for socket installation

Pile 0374b was installed to remove presure against 0374 which was stuck in the ground

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-04
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Hammer : Shift	Casing Length[1] (m)	Rock Depth[2] (m)	Casing Depth[3] (m)	Final Length[4] (m)	Target Length[5] (m)	Number of Calyx Baskets
0593		Day	10	7.76	8.32	9.90	9.60	1
0609	Night		9	7.32	8.29			
0613	Night		9	7.65	8.5			
0621	Night	Night	9	7.60	8.65	9.70	9.60	2
0625	Night	Night	10	8.21	8.91	9.95	9.80	2
					TOTAL	29.55		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-04
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
1715c	868.00	695.00	5:27:00	1716c	876.00	699.00	5:42:00	1744.00	1394.00	0.799
1717c	863.00	704.00	5:50:00	1718c	864.00	697.00	5:59:00	1727.00	1401.00	0.811
1719c	875.00	716.00	6:23:00	1720c	866.00	696.00	6:34:00	1741.00	1412.00	0.811
1721c	865.00	697.00	6:53:00	1722c	871.00	696.00	7:01:00	1736.00	1393.00	0.802
1723c	873.00	711.00	7:26:00	1724c	870.00	705.00	7:34:00	1743.00	1416.00	0.812
1725c	870.00	708.00	7:56:00	1726c	869.00	698.00	8:04:00	1739.00	1406.00	0.809
1727c	872.00	697.00	8:28:00	1728c	864.00	697.00	8:36:00	1736.00	1394.00	0.803
1729c	868.00	709.00	8:57:00	1730c	864.00	699.00	9:15:00	1732.00	1408.00	0.813
1731c	869.00	706.00	9:51:00	1732c	872.00	702.00	9:58:00	1741.00	1408.00	0.809
1733c	867.00	698.00	10:18:00	1734c	871.00	696.00	10:25:00	1738.00	1394.00	0.802
1735c	869.00	709.00	13:26:00	1736c	867.00	711.00	13:32:00	1736.00	1420.00	0.818
1737c	869.00	698.00	13:40:00	1738c	872.00	713.00	13:47:00	1741.00	1411.00	0.810
1739c	873.00	710.00	14:08:00	1740c	866.00	696.00	14:18:00	1739.00	1406.00	0.809
1741c	872.00	712.00	14:27:00	1742c	877.00	710.00	14:34:00	1749.00	1422.00	0.813
1743c	874.00	698.00	15:02:00	1744c	871.00	702.00	15:11:00	1745.00	1400.00	0.802
1745c	874.00	710.00	15:29:00	1746c	870.00	711.00	15:38:00	1744.00	1421.00	0.815
1747c	866.00	705.00	16:15:00	1748c	870.00	695.00	16:24:00	1736.00	1400.00	0.806
1749c	873.00	705.00	16:32:00	1750c	870.00	695.00	16:39:00	1743.00	1400.00	0.803
							TOTAL:	31310.00	25306.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-04
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
1751c	877.00	696.00	16:56:00	1752c	876.00	710.00	17:05:00	1753.00	1406.00	0.802
1753c	870.00	695.00	17:24:00	1754c	869.00	712.00	17:32:00	1739.00	1407.00	0.809
1755c	870.00	706.00	18:36:00	1756c	868.00	700.00	18:45:00	1738.00	1406.00	0.809
1757c	872.00	697.00	18:57:00	1758c	873.00	701.00	19:05:00	1745.00	1398.00	0.801
1759c	870.00	705.00	19:48:00	1760c	875.00	698.00	19:55:00	1745.00	1403.00	0.804
1761c	866.00	702.00	20:04:00	1762c	869.00	710.00	20:12:00	1735.00	1412.00	0.814
1763c	872.00	699.00	21:48:00	1764c	872.00	696.00	21:55:00	1744.00	1395.00	0.800
1765c	870.00	698.00	22:17:00	1766c	876.00	709.00	22:25:00	1746.00	1407.00	0.806
1767c	873.00	699.00	23:39:00	1768c	873.00	708.00	23:48:00	960.00	1407.00	0.806
1769c	875.00	705.00	0:00:00	1770c	873.00	713.00	0:07:00	1748.00	1418.00	0.811
1771c	870.00	705.00	0:46:00	1772c	875.00	701.00	0:54:00	1745.00	1406.00	0.806
1773c	871.00	708.00	1:04:00	1774c	873.00	709.00	1:12:00	1744.00	1417.00	0.813
1775c	871.00	705.00	1:48:00	1776c	878.00	683.00	1:54:00	1749.00	1388.00	0.794
1777c	871.00	697.00	2:04:00	1778c	870.00	696.00	2:13:00	1741.00	1393.00	0.800
1779c	876.00	708.00	2:37:00	1780c	868.00	699.00	2:49:00	1744.00	1407.00	0.807
1781c	869.00	709.00	2:58:00	1782c	868.00	696.00	3:06:00	1737.00	1405.00	0.809
1783c	870.00	702.00	3:24:00	1784c	872.00	703.00	3:31:00	1742.00	1405.00	0.807
1785c	873.00	712.00	3:43:00	1786c	872.00	708.00	3:51:00	1745.00	1420.00	0.814
							TOTAL:	30600.00	25300.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-04
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
1738b	218.10	3456.00	15.85	5:25:00
1740b	214.20	3380.00	15.78	5:45:00
1742b	210.00	3316.00	15.79	6:25:00
1744b	214.20	3400.00	15.87	6:49:00
1746b	217.10	3428.00	15.79	7:23:00
1748b	215.90	3410.00	15.79	7:58:00
1750b	216.40	3416.00	15.79	8:22:00
1752b	217.10	3448.00	15.88	9:06:00
1754b	211.90	3358.00	15.85	9:56:00
1756b	215.70	3412.00	15.82	10:15:00
1758b	214.90	3398.00	15.81	10:47:00
1760b	212.50	3358.00	15.80	11:15:00
1762b	214.00	3384.00	15.81	13:59:00
1764b	215.70	3376.00	15.65	14:29:00
1766b	216.60	3470.00	16.02	15:00:00
1768b	212.30	3376.00	15.90	15:27:00
1770b	214.80	3412.00	15.88	16:07:00
1772b	215.50	3410.00	15.82	16:34:00
TOTAL:	3866.90	61208.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-04
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
1774b	216.80	3436.00	15.85	17:00:00
1776b	214.90	3390.00	15.77	17:21:00
1778b	216.10	3384.00	15.66	18:33:00
1780b	211.00	3346.00	15.86	18:59:00
1782b	210.60	3342.00	15.87	19:45:00
1784b	214.50	3380.00	15.76	20:10:00
1786b	219.70	3490.00	15.89	21:24:00
1788b	215.40	3396.00	15.77	22:13:00
1790b	218.40	3454.00	15.82	23:43:00
1792b	221.10	3492.00	15.79	0:04:00
1794b	220.60	3464.00	15.70	0:48:00
1796b	217.80	3466.00	15.91	1:09:00
1798b	219.00	3456.00	15.78	1:46:00
1800b	216.30	3436.00	15.89	2:10:00
1802b	217.90	3444.00	15.81	2:34:00
1804b	220.80	3488.00	15.80	2:56:00
1806b	219.60	3462.00	15.77	3:24:00
1808b	222.00	3502.00	15.77	3:48:00
TOTAL:	3912.50	61828.00		

NOTES
Time change at 2am

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-04
Project	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
1738t	601				3590.0	1897.0	5487.0	9.6	1715c	1716c	1738b
1740t	601				3580.0	1892.2	5472.2	9.6	1717c	1718c	1740b
1742t	601				3392.8	1907.3	5300.1	9.6	1719c	1720c	1742b
1744t	601				3477.7	1891.9	5369.6	9.6	1721c	1722c	1744b
1746t	597				3507.4	1911.1	5418.5	9.6	1723c	1724c	1746b
1748t	597				3488.9	1902.2	5391.1	9.6	1725c	1726c	1748b
1750t	597	593			3492.2	1892.5	5384.7	9.6	1727c	1728c	1750b
1752t	597	593			3532.9	1899.7	5432.6	9.6	1729c	1730c	1752b
1754t	593				3435.0	1904.7	5339.7	9.6	1731c	1732c	1754b
1756t	593				3490.7	1893.6	5384.3	9.6	1733c	1734c	1756b
1758t	539				3476.4	1909.9	5386.3	9.6	1735c	1736c	1758b
1760t	539				3435.6	1906.7	5342.3	9.6	1737c	1738c	1760b
1762t	428	424			3462.1	1902.2	5364.3	9.6	1739c	1740c	1762b
1764t	428	424			3456.0	1918.4	5374.4	9.6	1741c	1742c	1764b
1766t	424				3489.9	1901.5	5391.4	9.6	1743c	1744c	1766b
1768t	424				3452.7	1915.0	5367.7	9.6	1745c	1746c	1768b
1770t	420	414			3489.8	1896.5	5386.3	9.6	1747c	1748c	1770b
1772t	420	414			3488.5	1900.4	5388.9	9.6	1749c	1750c	1772b
						TOTAL:	96981.6				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-04
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
1774t	414				3514.8	1910.0	5424.8	9.6	1751c	1752c	1774b
1776t	414				3468.7	1902.9	5371.6	9.6	1753c	1754c	1776b
1778t	551				3540.0	1901.7	5441.7	9.6	1755c	1756c	1778b
1780t	551				3550.0	1900.2	5450.2	9.6	1757c	1758c	1780b
1782t	577				3540.0	1903.5	5443.5	9.6	1759c	1760c	1782b
1784t	577				3580.0	1904.0	5484.0	9.6	1761c	1762c	1784b
1786t	577	573			3610.0	1897.6	5507.6	9.6	1763c	1764c	1786b
1788t	577	573			3540.0	1906.8	5446.8	9.6	1765c	1766c	1788b
1790t	573	569			3530.0	1906.8	5436.8	4.8	1767c	1768c	1790b
1792t	573	569			3630.0	1915.2	5545.2	9.6	1769c	1770c	1792b
1794t	563	569			3620.0	1905.5	5525.5	9.6	1771c	1772c	1794b
1796t	563	569			3600.0	1912.3	5512.3	9.6	1773c	1774c	1796b
1798t	569	563			3580.0	1895.7	5475.7	4.8	1775c	1776c	1798b
1800t	569	563			3530.0	1894.6	5424.6	4.8	1777c	1778c	1800b
1802t	563	559	555		3600.0	1905.7	5505.7	9.6	1779c	1780c	1802b
1804t	563	559	555		3590.0	1900.4	5490.4	9.6	1781c	1782c	1804b
1806t	559				3570.0	1903.2	5473.2	9.6	1783c	1784c	1806b
1808t	559				3600.0	1914.9	5514.9	9.6	1785c	1786c	1808b
						TOTAL:	98474.6				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-04
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
						TOTAL:					

NOTES

TOP UPS

Tanks:		**Piles:**
1758t	1760t	601, 597, 593
1766t	1768t	539
1770t	1772t	366, 362, 322
1778t	1776t	553, 539, 535, 531, 593
1782t	1784t	597, 601, 629, 633, 637
1790t	1792t	577
1798t	1800t	577, 573

HFDI Production Control

Project Number	1814	Date	2018-11-04
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	15	151.20	115.04	195.46	69.90%

Daily pile Completion:	1.52%
Piles Poured to Date:	489
Daily L/M of Drilling:	206.15

Daily Cement used in KG	61910.00
Total Cement used to date KG	1590146.00
Daily Bentonite used in KG	7779.40
Total Bentonite used in KG	193521.00
Daily Water consumption	173642.00
Total Water Consumption	4172167.00

HFDI Representative: Alex Zapantis (Name) — (Signature)

KCG Representative: AUDREY BILODEAU (Name) — (Signature)

2018-11-05 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-11-05	Shift: 24hr
		Site Conditions: -11C, moderate wind with blowing snow	

FOREMAN'S SAFETY/ QUALITY MEETING

Slips and trips, open holes, strains and sprains

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction
AEM	All site personnel	Mandatory training for WHMIS

SUMMARY OF WORK

Fix leaks on BG30 #2
Implement plan to get top up piles in a timely manner
Air compressor died but was reprimed and fired back up
Upper crowd cable on BG30 #1 broke - started repair work at end of night shift
Produced grout, poured piles, drilled piles, rock hammered

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-05
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Hammer : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
386	Day	Night	12	11.10	11.60	12.95	12.80	1
402	Day	Night	10	9.10	9.60	10.95	10.80	2
406	Day	Night	11	9.10	9.60	11.82	11.60	3.5
464	Day	Day	10	8.30	9.50	9.80	9.50	1
468	Day	Day	9	8.3	8.75	9.6	9.40	1
472	Day	Day	10	8.60	9.20	10.80	10.60	2
547	Day	Night	10	7.20	7.80	9.55	9.40	2.5
581	Day	Night	10	7.60	8.20	9.65	9.50	2.5
585	Day	Day	10	7.80	8.30	8.70	8.60	1
589		Day	10	7.81	8.34	8.90	8.75	1
609		Day	9	7.32	8.29	10.00	9.60	2.5
613		Day	9	7.65	8.50	9.85	9.79	5
617	Night		9	7.65	8.45			
641	Night		10	8.07	9.25			
645	Night		9	7.81	8.79			
649	Night	Night	9	7.91	8.97	9.50	9.30	2
689	Night		10	8.60	9.15			
					TOTAL	132.07		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-05
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
1787c	870.00	704.00	4:37:00	1788c	873.00	696.00	4:44:00	1743.00	1400.00	0.800
1789c	869.00	700.00	4:54:00	1790c	867.00	710.00	5:05:00	1736.00	1410.00	0.810
1791c	865.00	710.00	5:43:00	1792c	869.00	697.00	5:53:00	1734.00	1407.00	0.810
1793c	866.00	696.00	6:08:00	1794c	871.00	695.00	6:23:00	1737.00	1391.00	0.800
1795c	867.00	710.00	6:54:00	1796c	870.00	706.00	7:02:00	1737.00	1416.00	0.820
1797c	867.00	709.00	7:18:00	1798c	865.00	698.00	7:25:00	1732.00	1407.00	0.810
1799c	865.00	705.00	8:05:00	1800c	869.00	702.00	8:14:00	1734.00	1407.00	0.810
1801c	866.00	706.00	8:34:00	1802c	861.00	697.00	8:44:00	1727.00	1403.00	0.810
1803c	867.00	699.00	9:22:00	1804c	864.00	709.00	9:31:00	1731.00	1408.00	0.810
1805c	867.00	696.00	9:47:00	1806c	871.00	711.00	9:55:00	1738.00	1407.00	0.810
1807c	877.00	707.00	10:12:00	1808c	874.00	711.00	10:22:00	1751.00	1418.00	0.810
1809c	873.00	708.00	10:32:00	1810c	872.00	698.00	10:39:00	1745.00	1406.00	0.810
1811c	865.00	699.00	11:14:00	1812c	864.00	698.00	11:28:00	1729.00	1397.00	0.810
1813c	860.00	711.00	11:42:00	1814c	869.00	712.00	11:51:00	1729.00	1423.00	0.820
1815c	869.00	696.00	12:53:00	1816c	870.00	707.00	13:01:00	1739.00	1403.00	0.810
1817c	864.00	698.00	13:08:00	1818c	865.00	699.00	13:17:00	1729.00	1397.00	0.810
1819c	869.00	696.00	13:52:00	1820c	870.00	696.00	14:01:00	1739.00	1392.00	0.800
1821c	868.00	700.00	14:13:00	1822c	871.00	709.00	14:25:00	1739.00	1409.00	0.810
							TOTAL:	31249.00	25301.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-05
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
1823c	869.00	707.00	14:50:00	1824c	868.00	695.00	14:59:00	1737.00	1402.00	0.810
1825c	867.00	707.00	15:09:00	1826c	874.00	695.00	15:17:00	1741.00	1402.00	0.810
1827c	873.00	696.00	15:51:00	1828c	872.00	714.00	16:00:00	1745.00	1410.00	0.810
1829c	869.00	698.00	16:07:00	1830c	867.00	702.00	16:16:00	1736.00	1400.00	0.810
1831c	873.00	702.00	17:07:00	1832c	872.00	696.00	17:15:00	1745.00	1398.00	0.800
1833c	868.00	708.00	17:23:00	1834c	871.00	702.00	17:32:00	1739.00	1410.00	0.810
1835c	873.00	706.00	18:02:00	1836c	871.00	698.00	18:08:00	1744.00	1404.00	0.810
1837c	868.00	703.00	18:18:00	1838c	871.00	714.00	18:26:00	1739.00	1417.00	0.810
1839c	868.00	705.00	18:56:00	1840c	868.00	698.00	19:05:00	1736.00	1403.00	0.810
1841c	869.00	707.00	19:15:00	1842c	871.00	695.00	19:23:00	1740.00	1402.00	0.810
1843c	871.00	696.00	19:59:00	1844c	867.00	699.00	20:06:00	1738.00	1395.00	0.800
1845c	868.00	710.00	20:19:00	1846c	868.00	711.00	20:26:00	1736.00	1421.00	0.820
1847c	870.00	698.00	21:01:00	1848c	869.00	713.00	21:12:00	1739.00	1411.00	0.810
1849c	872.00	710.00	21:26:00	1850c	875.00	710.00	21:35:00	1747.00	1420.00	0.810
1851c	870.00	704.00	22:10:00	1852c	872.00	697.00	22:17:00	1742.00	1401.00	0.800
1853c	867.00	711.00	22:29:00	1854c	874.00	695.00	22:36:00	1741.00	1406.00	0.810
1855c	877.00	708.00	23:12:00	1856c	872.00	695.00	23:20:00	1749.00	1403.00	0.800
1857c	871.00	702.00	23:31:00	1858c	874.00	699.00	23:40:00	1745.00	1401.00	0.800
							TOTAL:	31339.00	25306.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-05
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
1859c	870.00	712.00	0:26:00	1860c	873.00	707.00	0:34:00	1743.00	1419.00	0.810
1861c	874.00	708.00	0:43:00	1862c	872.00	707.00	0:53:00	1746.00	1415.00	0.810
1863c	876.00	698.00	2:30:00	1864c	866.00	698.00	2:39:00	1742.00	1396.00	0.800
1865c	872.00	716.00	2:53:00	1866c	871.00	707.00	3:02:00	1743.00	1423.00	0.820
1867c	868.00	701.00	3:38:00	1868c	868.00	708.00	3:46:00	1736.00	1409.00	0.810
1869c	870.00	711.00	3:56:00	1870c	873.00	710.00	4:07:00	1743.00	1421.00	0.820
							TOTAL:	10453.00	8483.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-05
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
1810b	214.60	3400.00	15.84	4:35:00
1812b	220.70	3492.00	15.82	5:03:00
1814b	220.80	3492.00	15.82	5:40:00
1816b	219.10	3476.00	15.86	6:13:00
1818b	213.80	3398.00	15.89	6:40:00
1820b	211.40	3356.00	15.88	7:22:00
1822b	216.40	3418.00	15.79	8:08:00
1824b	216.50	3426.00	15.82	8:37:00
1826b	212.70	3382.00	15.90	9:12:00
1828b	214.10	3404.00	15.90	9:14:00
1830b	212.50	3356.00	15.79	10:09:00
1832b	211.40	3366.00	15.92	10:34:00
1834b	215.90	3404.00	15.77	11:12:00
1836b	214.10	3378.00	15.78	11:35:00
1838b	214.50	3398.00	15.84	12:38:00
1840b	213.50	3372.00	15.79	13:03:00
1842b	215.70	3394.00	15.73	13:43:00
1844b	215.20	3414.00	15.86	14:11:00
TOTAL:	3872.90	61326.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-05
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
1846b	214.40	3382.00	15.77	14:51:00
1848b	215.10	3380.00	15.71	15:12:00
1850b	212.70	3376.00	15.87	15:45:00
1852b	213.20	33690.00	158.02	16:10:00
1854b	216.30	3420.00	15.81	17:05:00
1856b	215.90	3400.00	15.75	17:28:00
1858b	213.10	3392.00	15.92	18:02:00
1860b	214.00	3406.00	15.92	18:22:00
1862b	218.90	3488.00	15.93	18:58:00
1864b	218.10	3448.00	15.81	19:20:00
1866b	218.80	3446.00	15.75	20:01:00
1868b	216.80	3404.00	15.70	20:22:00
1870b	212.50	3366.00	15.84	21:09:00
1872b	218.20	3464.00	15.88	21:31:00
1874b	222.40	3508.00	15.77	22:08:00
1876b	216.40	3434.00	15.87	22:34:00
1878b	218.40	3432.00	15.71	23:08:00
1880b	220.90	3512.00	15.90	23:36:00
TOTAL:	3896.10	91948.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-05
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
1882b	221.60	3500.00	15.79	0:24:00
1884b	217.40	3434.00	15.80	0:45:00
1886b	221.00	3486.00	15.77	2:35:00
1888b	224.00	3550.00	15.85	3:00:00
1890b	210.40	3346.00	15.90	3:40:00
1892b	218.10	3456.00	15.85	4:04:00
TOTAL:	1312.50	20772.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-05
Project	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
1810t	543				3600.0	1900.4	5500.4	9.6	1787c	1788c	1810b
1812t	543				3590.0	1903.2	5493.2	9.6	1789c	1790c	1812b
1814t	394	398			3620.0	1900.1	5520.1	9.6	1791c	1792c	1814b
1816t	394	398			3555.5	1891.1	5446.6	9.6	1793c	1794c	1816b
1818t	398	374			3475.4	1907.8	5383.2	9.6	1795c	1796c	1818b
1820t	398	374			3432.6	1899.0	5331.6	9.6	1797c	1798c	1820b
1822t	TOP UP ONLY				3497.1	1900.1	5397.2	9.6	1799c	1800c	1822b
1824t					3504.9	1893.6	5398.5	9.6	1801c	1802c	1824b
1826t	374	374b			3458.9	1899.1	5358.0	9.6	1803c	1804c	1826b
1828t	374	374b			3481.4	1902.3	5383.7	9.6	1805c	1806c	1828b
1830t	374	374b			3433.7	1916.9	5350.6	9.6	1807c	1808c	1830b
1832t	374	374b			3442.3	1905.5	5347.8	9.6	1809c	1810c	1832b
1834t	TOP UP ONLY				3483.1	1890.7	5373.8	9.6	1811c	1812c	1834b
1836t					3456.4	1908.0	5364.4	9.6	1813c	1814c	1836b
1838t	585				3476.0	1900.2	5376.2	9.6	1815c	1816c	1838b
1840t	585				3450.0	1890.7	5340.7	9.6	1817c	1818c	1840b
1842t	585				3473.3	1892.9	5366.2	9.6	1819c	1820c	1842b
1844t	585				3492.1	1904.2	5396.3	9.6	1821c	1822c	1844b
						TOTAL:	97128.6				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-05
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
1846t	589				3460.5	1898.4	5358.9	9.6	1823c	1824c	1846b
1848t	589				3459.3	1900.7	5360.0	9.6	1825c	1826c	1848b
1850t	589	609			3453.1	1908.2	5361.3	9.6	1827c	1828c	1850b
1852t	589	609			3467.1	1896.5	5363.6	9.6	1829c	1830c	1852b
1854t	609				3498.9	1900.2	5399.1	9.6	1831c	1832c	1854b
1856t	609				3479.3	1904.9	5384.2	9.6	1833c	1834c	1856b
1858t	613	621			3468.9	1903.7	5372.6	9.6	1835c	1836c	1858b
1860t	613	621			3610.0	1909.6	5519.6	9.6	1837c	1838c	1860b
1862t	621	609			3540.0	1898.6	5438.6	4.8	1839c	1840c	1862b
1864t	621	609			3570.0	1900.1	5470.1	4.8	1841c	1842c	1864b
1866t	625				3540.0	1894.3	5434.3	9.6	1843c	1844c	1866b
1868t	625				3550.0	1910.6	5460.6	9.6	1845c	1846c	1868b
1870t	581				3520.0	1905.6	5425.6	9.6	1847c	1848c	1870b
1872t	581				3580.0	1916.0	5496.0	9.6	1849c	1850c	1872b
1874t	581	547			3590.0	1900.5	5490.5	9.6	1851c	1852c	1874b
1876t	581	547			3620.0	1903.3	5523.3	9.6	1853c	1854c	1876b
1878t	547	472			3550.0	1905.8	5455.8	9.6	1855c	1856c	1878b
1880t	547	472			3560.0	1902.2	5462.2	9.6	1857c	1858c	1880b
						TOTAL:	97776.2				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-05
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
1882t	472	468	464		3580.0	1913.1	5493.1	9.6	1859c	1860c	1882b
1884t	472	468	464		3540.0	1912.1	5452.1	9.6	1861c	1862c	1884b
1886t	464				3620.0	1897.2	5517.2	4.8	1863c	1864c	1886b
1888t	464				3600.0	1915.8	5515.8	9.6	1865c	1866c	1888b
1890t	386				3510.0	1902.6	5412.6	9.6	1867c	1868c	1890b
1892t	386				3570.0	1914.5	5484.5	9.6	1869c	1870c	1892b
						TOTAL:	32875.2				

NOTES

TOP UPS

Tanks:		**Piles:**
1810t	1812t	424, 428
1822t	1824t	601, 597, 593, 551, 543, 539, 577, 573, 569
1826t	1828t	539, 428, 424, 398, 394, 362, 366
1834t	1836t	374, 374b
1838t	1840t	555, 551, 559, 563, 569, 573, 577, 593, 597, 629, 633, 637
1846t	1848t	483, 487, 495, 499, 523, 539, 434, 420, 398, 394, 366, 322
1862t	1864t	609, 613, 543, 569, 625, 374
1866t	1868t	509, 613, 621, 625
1878t	1880t	585, 589, 609, 613, 621, 625
1882t	1884t	472
1886t	1888t	625, 621, 611, 609, 589, 585, 581, 543
1890t	1892t	468, 472, 374

HFDI Production Control

Project Number	1814	Date	2018-11-05
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	17	174.25	133.11	227.78	71.12%

Daily pile Completion:	1.73%
Piles Poured to Date:	506
Daily L/M of Drilling:	132.07

Daily Cement used in KG	73041.00
Total Cement used to date KG	1663187.00
Daily Bentonite used in KG	9081.50
Total Bentonite used in KG	202602.50
Daily Water consumption	233136.00
Total Water Consumption	4405303.00

HFDI Representative: Alex Zapantis (Name) — (Signature)

KCG Representative: AUDREY BILODEAU (Name) — (Signature)

2018-11-08 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-11-06	Shift: 24hr
		Site Conditions: -18C, moderate to strong wind	

FOREMAN'S SAFETY/ QUALITY MEETING

Silica exposure, grout burns/ corrosion, sparks and arc flash

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Removed rotary and kelly bar and changed cables on BG30 #1 - rig was down during day shift
Put methyl hydrate in air lines because they kept icing up
Produced grout, poured piles, drilled piles, rock hammered sockets

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	**Date**	2018-11-06
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Pile Number	Auger: Shift	Rock Hammer : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0378	Night		11	9.60	10.65			
0382	Night		12	11.00	11.60			
0410	Day	Day	12	11.00	11.90	12.60	12.42	2
0418	Day	Day	10	8.10	9.90	11.10	10.98	3
0422	Day	Day	10	8.7	9.50	10.5	10.30	1
0436	Day	Day	10	8.40	9.13	10.30	10.10	1.5
0444	Night		12	8.90	9.90			
0448	Night	Night	10	9.64	9.40	9.60	9.50	1
0452	Night		10	7.75	8.90			
0476	Day	Night	10	8.60	9.44	9.70	9.50	1
0500	Night	Night	10	7.53	8.75	9.20	9.00	1
0504	Night	Night	9	7.41	8.35	9.35	9.20	1
0605	Night	Night	10	7.97	8.41	9.85	9.58	2
0617		Day	9	7.65	8.45	9.90	9.60	3
0641		Day	10	8.07	9.25	9.60	9.40	1
0645		Day	9	7.81	8.79	9.60	9.30	2
0681	Night	Night	11	9.79	10.15	11.05	10.93	2
					TOTAL	132.35		

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	**Date**	2018-11-06
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Pile Number	Auger: Shift	Rock Hammer : Shift	Casing Length[1] (m)	Rock Depth[2] (m)	Casing Depth[3] (m)	Final Length[4] (m)	Target Length[5] (m)	Number of Calyx Baskets
0685	Night	Night	10	9.40	9.65	10.95	10.80	2
0689	Night	Night	10	8.60	9.15	10.30	10.10	1
					TOTAL	21.25		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-06
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
1871c	870.00	698.00	4:45:00	1872c	870.00	695.00	4:53:00	1740.00	1393.00	0.801
1873c	871.00	710.00	5:07:00	1874c	868.00	712.00	5:16:00	1739.00	1422.00	0.818
1875c	870.00	697.00	5:47:00	1876c	871.00	706.00	5:56:00	1741.00	1403.00	0.806
1877c	869.00	695.00	6:29:00	1878c	868.00	697.00	6:38:00	1737.00	1392.00	0.801
1879c	869.00	694.00	7:19:00	1880c	872.00	708.00	7:29:00	1741.00	1402.00	0.805
1881c	867.00	700.00	7:40:00	1882c	865.00	711.00	7:52:00	1732.00	1411.00	0.815
1883c	865.00	709.00	8:48:00	1884c	873.00	711.00	8:57:00	1738.00	1420.00	0.817
1885c	871.00	709.00	9:05:00	1886c	871.00	712.00	9:17:00	1742.00	1421.00	0.816
1887c	872.00	700.00	9:35:00	1888c	867.00	695.00	9:45:00	1739.00	1395.00	0.802
1889c	867.00	710.00	9:56:00	1890c	875.00	710.00	10:07:00	1742.00	1420.00	0.815
1891c	869.00	700.00	10:33:00	1892c	868.00	697.00	10:41:00	1737.00	1397.00	0.804
1893c	875.00	706.00	11:01:00	1894c	873.00	695.00	11:10:00	1748.00	1401.00	0.801
1895c	871.00	702.00	12:01:00	1896c	868.00	706.00	12:10:00	1739.00	1408.00	0.810
1897c	872.00	709.00	12:21:00	1898c	870.00	696.00	12:32:00	1742.00	1405.00	0.807
1899c	872.00	715.00	16:48:00	1900c	873.00	709.00	16:54:00	1745.00	1424.00	0.816
1901c	874.00	704.00	17:02:00	1902c	870.00	696.00	17:08:00	1744.00	1400.00	0.803
							TOTAL:	27846.00	22514.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-06
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
1903c	870.00	702.00	17:30:00	1904c	876.00	696.00	17:38:00	1746.00	1398.00	0.801
1905c	876.00	708.00	17:53:00	1906c	866.00	711.00	18:02:00	1742.00	1419.00	0.815
1907c	867.00	696.00	18:47:00	1908c	868.00	710.00	18:57:00	1735.00	1406.00	0.810
1909c	865.00	711.00	19:09:00	1910c	868.00	701.00	19:19:00	1733.00	1412.00	0.815
1911c	871.00	712.00	20:19:00	1912c	870.00	709.00	20:29:00	1741.00	1421.00	0.816
1913c	868.00	702.00	20:38:00	1914c	871.00	697.00	20:52:00	1739.00	1399.00	0.804
1915c	869.00	698.00	21:43:00	1916c	869.00	698.00	21:51:00	1738.00	1396.00	0.803
1917c	866.00	709.00	22:01:00	1918c	867.00	711.00	22:11:00	1733.00	1420.00	0.819
1919c	865.00	709.00	1:39:00	1920c	871.00	711.00	1:47:00	1736.00	1420.00	0.818
1921c	870.00	705.00	2:22:00	1922c	867.00	700.00	2:36:00	1737.00	1405.00	0.809
1923c	869.00	702.00	2:51:00	1924c	871.00	709.00	2:59:00	1740.00	1411.00	0.811
1925c	870.00	707.00	3:34:00	1926c	869.00	699.00	3:43:00	1739.00	1406.00	0.809
1927c	872.00	713.00	3:54:00	1928c	864.00	696.00	4:02:00	1736.00	1409.00	0.812
1929c	869.00	698.00	4:40:00	1930c	872.00	707.00	4:51:00	1741.00	1405.00	0.807
1931c	871.00	707.00	4:59:00	1932c	868.00	698.00	5:07:00	1739.00	1405.00	0.808
							TOTAL:	26075.00	21132.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-06
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
1894b	220.60	3484.00	15.79	4:47:00
1896b	224.50	3552.00	15.82	5:15:00
1898b	215.50	3406.00	15.81	5:53:00
1900b	219.60	3466.00	15.78	6:26:00
1902b	215.30	3472.00	16.13	7:12:00
1904b	214.90	3400.00	15.82	7:33:00
1906b	215.90	3408.00	15.79	8:31:00
1908b	213.50	3374.00	15.80	9:03:00
1910b	215.50	3394.00	15.75	9:30:00
1912b	214.90	3400.00	15.82	9:54:00
1914b	214.60	3396.00	15.82	10:30:00
1916b	215.60	3412.00	15.83	11:07:00
1918b	212.50	3356.00	15.79	11:54:00
1920b	212.40	3362.00	15.83	12:24:00
1922b	211.30	3350.00	15.85	SUMP
1924b	216.30	3365.00	15.56	SUMP
1926b	236.20	3734.00	15.81	16:23:00
1928b	215.60	3392.00	15.73	16:57:00
TOTAL:	3904.70	61723.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-06
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
1930b	213.40	3368.00	15.78	17:32:00
1932b	214.40	3380.00	15.76	17:51:00
1934b	216.40	3422.00	15.81	18:44:00
1936b	219.20	3462.00	15.79	19:12:00
1938b	223.70	3526.00	15.76	20:17:00
1940b	218.80	3468.00	15.85	20:50:00
1942b	221.10	3480.00	15.74	21:39:00
1944b	217.40	3456.00	15.90	22:11:00
1946b	214.70	3400.00	15.84	1:44:00
1948b	216.60	3428.00	15.83	2:34:00
1950b	221.60	3516.00	15.87	2:56:00
1952b	217.50	3436.00	15.80	3:37:00
1954b	220.90	3506.00	15.87	3:59:00
1956b	220.50	3490.00	15.83	4:37:00
1958b	221.30	3512.00	15.87	5:04:00
TOTAL:	3277.50	51850.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-06
Project	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
1894t	402	406	386		3620.0	1894.1	5514.1	9.6	1871c	1872c	1894b
1896t	402	406	386		3640.0	1912.9	5552.9	9.6	1873c	1874c	1896b
1898t	406				3560.0	1901.3	5461.3	9.6	1875c	1876c	1898b
1900t	406				3546.4	1891.8	5438.2	9.6	1877c	1878c	1900b
1902t	406				3480.6	1900.7	5381.3	9.6	1879c	1880c	1902b
1904t	406				3478.3	1901.7	5380.0	9.6	1881c	1882c	1904b
1906t	649				3487.0	1911.0	5398.0	9.6	1883c	1884c	1906b
1908t	649				3452.0	1913.9	5365.9	9.6	1885c	1886c	1908b
1910t	649	645			3473.1	1894.9	5368.0	9.6	1887c	1888c	1910b
1912t	649	645			3478.3	1913.2	5391.5	9.6	1889c	1890c	1912b
1914t	645	641			3474.2	1895.1	5369.3	9.6	1891c	1892c	1914b
1916t	645	641			3490.6	1903.9	5394.5	9.6	1893c	1894c	1916b
1918t	406	641			3433.7	1903.6	5337.3	9.6	1895c	1896c	1918b
1920t	406	641			3439.4	1903.2	5342.6	9.6	1897c	1898c	1920b
1926t	406	410			3426.8	1917.6	5344.4	4.8	1899c	1900c	1926b
1928t	406	410			3471.3	1901.0	5372.3	4.8	1901c	1902c	1928b
						TOTAL:	86411.4				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-06
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
1930t	410	418			3446.1	1900.7	5346.8	4.8	1903c	1904c	1930b
1932t	410	418			3458.6	1912.6	5371.2	4.8	1905c	1906c	1932b
1934t	418	422			3560.0	1900.0	5460.0	9.6	1907c	1908c	1934b
1936t	418	422			3620.0	1902.9	5522.9	9.6	1909c	1910c	1936b
1938t	422				3610.0	1913.3	5523.3	9.6	1911c	1912c	1938b
1940t	422				3620.0	1897.5	5517.5	9.6	1913c	1914c	1940b
1942t	617	436			3600.0	1895.0	5495.0	9.6	1915c	1916c	1942b
1944t	617	436			3610.0	1908.2	5518.2	9.6	1917c	1918c	1944b
1946t	436				3580.0	1909.9	5489.9	4.8	1919c	1920c	1946b
1948t	689				3590.0	1900.4	5490.4	9.6	1921c	1922c	1948b
1950t	689				3600.0	1906.1	5506.1	9.6	1923c	1924c	1950b
1952t	689	685			3560.0	1902.2	5462.2	9.6	1925c	1926c	1952b
1954t	689	685			3560.0	1902.6	5462.6	9.6	1927c	1928c	1954b
1956t	685	681			3600.0	1902.7	5502.7	9.6	1929c	1930c	1956b
1958t	685	681			3590.0	1901.5	5491.5	9.6	1931c	1932c	1958b
						TOTAL:	82160.5				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-06
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
					TOTAL:						

NOTES

TOP UPS

Tanks:		**Piles:**
1898t	1900t	394, 398
1910t	1912t	472, 468, 464
1918t	1920t	402, 386
1930t	1932t	641, 645, 649
1934t	1936t	410
1938t	1940t	543, 581, 408
1942t	1944t	641, 645, 649, 468
1946t		422, 418, 410
1948t	1950t	402, 406, 410, 617, 641, 645, 649

HFDI Production Control

Project Number	1814	Date	2018-11-06
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

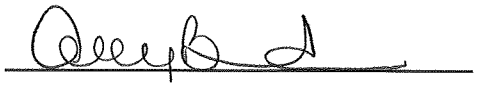
Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	13	138.17	104.85	168.57	60.77%

Daily pile Completion:	1.32%
Piles Poured to Date:	519
Daily L/M of Drilling:	153.60

Daily Cement used in KG	53921.00
Total Cement used to date KG	1717108.00
Daily Bentonite used in KG	7182.20
Total Bentonite used in KG	209785.00
Daily Water consumption	157219.00
Total Water Consumption	4562522.00

HFDI Representative: Alex Zapantis (Name)  (Signature)

KCG Representative: ANDREI BILODEAU (Name)  (Signature) 2018-11-08 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-11-07	Shift: 24hr
		Site Conditions: -18C, strong winds - poor visilbity at night	

FOREMAN'S SAFETY/ QUALITY MEETING

Working with CB - silica inhalation and burns

Hammer Drill - high pressure air lines

Drilling/ Pouring piles - open holes

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction
KCG	HFDI	Better visibility of hot work permits

SUMMARY OF WORK

Tooling repairs and built new hose softener

60kw genset died - had to put battery charger on full time

Deicing in air lines

Produced grout, poured piles, drilled piles, rock hammered

WHMIS training for crew

DELAYS: High winds and poor visibility caused a shutdown of operations between 23:00-3:00

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-07
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Hammer : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
426	Day		10	10.20	9.70			
432	Day	Day	10	8.86	9.36	10.70	10.10	2
440	Day	Night	10	8.80	9.30	10.05	9.96	2.5
444		Day	12	8.90	9.90	10.00	9.80	1
452		Day	10	7.75	8.90	9.9	9.51	1
460	Day	Night	11	9.42	9.92	10.60	10.41	2.5
480	Day	Night	10	8.20	8.80	9.65	9.57	1.5
488	Night		10	7.85	9.10			
492	Night		11	7.94	9.00			
496	Night		10	7.89	8.91			
524	Day	Night	10	7.70	8.65	9.50	9.36	1
528	Day	Night	10	7.80	8.60	9.25	9.17	1
532	Day	Night	11	7.86	8.80	10.50	9.80	2
571	Day		11	7.60	8.80			
575	Day		10	7.50	8.40			
595	Day		10	7.70	8.20			
599	Day		11	7.90	8.80			
					TOTAL	90.15		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-07
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
1933c	870.00	702.00	5:32:00	1934c	863.00	695.00	5:41:00	1733.00	1397.00	0.810
1935c	868.00	715.00	5:50:00	1936c	868.00	701.00	5:54:00	1736.00	1416.00	0.820
1937c	871.00	706.00	6:41:00	1938c	869.00	695.00	6:50:00	1740.00	1401.00	0.810
1939c	873.00	712.00	7:00:00	1940c	868.00	700.00	7:10:00	1741.00	1412.00	0.810
1941c	874.00	697.00	7:58:00	1942c	870.00	696.00	8:05:00	1744.00	1393.00	0.800
1943c	867.00	710.00	8:25:00	1944c	868.00	702.00	8:33:00	1735.00	1412.00	0.810
1945c	867.00	696.00	9:10:00	1946c	870.00	707.00	9:16:00	1737.00	1403.00	0.810
1947c	869.00	707.00	9:32:00	1948c	871.00	695.00	9:42:00	1740.00	1402.00	0.810
1949c	873.00	695.00	10:14:00	1950c	876.00	705.00	10:38:00	1749.00	1400.00	0.800
1951c	869.00	702.00	10:42:00	1952c	876.00	695.00	10:46:00	1745.00	1397.00	0.800
1953c	871.00	696.00	11:11:00	1954c	867.00	714.00	11:21:00	1738.00	1410.00	0.810
1955c	871.00	705.00	11:32:00	1956c	866.00	700.00	11:41:00	1737.00	1405.00	0.810
1957c	867.00	704.00	12:19:00	1958c	871.00	705.00	12:28:00	1738.00	1409.00	0.810
1959c	873.00	699.00	12:44:00	1960c	870.00	702.00	12:54:00	1743.00	1401.00	0.800
1961c	871.00	703.00	13:20:00	1962c	870.00	714.00	13:32:00	1741.00	1417.00	0.810
1963c	868.00	702.00	13:41:00	1964c	872.00	700.00	13:52:00	1740.00	1402.00	0.810
1965c	875.00	708.00	14:21:00	1966c	874.00	717.00	14:30:00	1749.00	1425.00	0.810
1967c	873.00	710.00	14:48:00	1968c	874.00	707.00	14:58:00	1747.00	1417.00	0.810
							TOTAL:	31333.00	25319.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-07
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
1969c	867.00	698.00	15:30:00	1970c	869.00	706.00	15:39:00	1736.00	1404.00	0.810
1971c	878.00	704.00	15:47:00	1972c	872.00	705.00	15:59:00	1750.00	1409.00	0.810
1973c	865.00	702.00	18:13:00	1974c	871.00	698.00	18:22:00	1736.00	1400.00	0.810
1975c	868.00	716.00	18:31:00	1976c	868.00	698.00	18:38:00	1736.00	1414.00	0.810
							TOTAL:	6958.00	5627.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-07
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
1960b	219.30	3468.00	15.81	5:34:00
1962b	221.10	3518.00	15.91	5:52:00
1964b	227.30	3594.00	15.81	6:28:00
1966b	216.50	3422.00	15.81	7:02:00
1968b	215.30	3398.00	15.78	8:00:00
1970b	212.80	3370.00	15.84	8:22:00
1972b	218.80	3464.00	15.83	9:00:00
1974b	214.70	3404.00	15.85	9:34:00
1976b	219.60	3478.00	15.84	10:04:00
1978b	217.40	3416.00	15.71	10:40:00
1980b	211.70	3346.00	15.81	11:04:00
1982b	213.00	3358.00	15.77	11:33:00
1984b	212.90	3382.00	15.89	12:10:00
1986b	214.10	3384.00	15.81	12:34:00
1988b	216.20	3412.00	15.78	13:13:00
1990b	210.50	3334.00	15.84	13:45:00
1992b	211.30	3342.00	15.82	14:23:00
1994b	216.10	3400.00	15.73	14:50:00
TOTAL:	3888.60	61490.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-07
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
1996b	215.50	3410.00	15.82	15:32:00
1998b	211.90	3368.00	15.89	15:52:00
2000b	213.20	3392.00	15.91	18:02:00
2002b	218.80	3448.00	15.76	18:34:00
TOTAL:	859.40	13618.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-07
Project	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
1960t	605	685			3570.0	1892.9	5462.9	9.6	1933c	1934c	1960b
1962t	605	685			3580.0	1907.2	5487.2	9.6	1935c	1936c	1962b
1964t					3676.9	1899.4	5576.3	9.6	1937c	1938c	1964b
1966t					3501.0	1907.3	5408.3	9.6	1939c	1940c	1966b
1968t	605	500			3476.8	1896.3	5373.1	9.6	1941c	1942c	1968b
1970t	605	500			3447.4	1904.0	5351.4	9.6	1943c	1944c	1970b
1972t	500	504			3543.7	1899.1	5442.8	9.6	1945c	1946c	1972b
1974t	500	504			3482.0	1900.1	5382.1	9.6	1947c	1948c	1974b
1976t	476	452			3557.9	1903.7	5461.6	9.6	1949c	1950c	1976b
1978t	476	452			3496.1	1899.5	5395.6	9.6	1951c	1952c	1978b
1980t	452	448			3423.3	1904.3	5327.6	9.6	1953c	1954c	1980b
1982t	452	448			3436.1	1900.4	5336.5	9.6	1955c	1956c	1982b
1984t	448	444			3459.1	1903.7	5362.8	9.6	1957c	1958c	1984b
1986t	448	444			3462.2	1901.1	5363.3	9.6	1959c	1960c	1986b
1988t					3491.1	1910.7	5401.8	9.6	1961c	1962c	1988b
1990t					3410.6	1900.1	5310.7	9.6	1963c	1964c	1990b
1992t	432				3419.1	1920.4	5339.5	9.6	1965c	1966c	1992b
1994t	432				3487.2	1914.0	5401.2	9.6	1967c	1968c	1994b
						TOTAL:	97184.9				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-07
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
1996t	532				3488.5	1899.2	5387.7	9.6	1969c	1970c	1996b
1998t	532				3444.7	1910.3	5355.0	9.6	1971c	1972c	1998b
2000t	532	528			3469.0	1896.5	5365.5	9.6	1973c	1974c	2000b
2002t	532	528			3530.0	1905.9	5435.9	9.6	1975c	1976c	2002b
						TOTAL:	21544.2				

NOTES

TOP UPS

Tanks:		**Piles:**
1964t	1966t	681
1980t	1982t	605, 681, 685
1988t	1990t	681, 605, 685, 500, 504, 476, 452, 448, 444
1192t	1994t	681, 685, 444, 476, 452, 448
1996t	1998t	476, 500, 504, 605, 617, 681, 685, 689
2000t	2002t	528

HFDI Production Control

Project Number	1814	**Date**	2018-11-07
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	10	98.05	74.51	118.73	59.35%

Daily pile Completion: 1.02%
Piles Poured to Date: 529
Daily L/M of Drilling: 90.15

Daily Cement used in KG	38291.00
Total Cement used to date KG	1755399.00
Daily Bentonite used in KG	4748.00
Total Bentonite used in KG	214533.00
Daily Water consumption	106054.00
Total Water Consumption	4668576.00

HFDI Representative: Alex Zapantis (Name) _____ (Signature)

KCG Representative: DAMIEN GAGNON (Name) _____ (Signature)

2018-11-08 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-11-08	Shift: 24hr
		Site Conditions: -23C, light and heavy winds	

FOREMAN'S SAFETY/ QUALITY MEETING

Drilling Piles - falling debris, swinging equipment
Pouring Piles - Open holes, grout exposure
Welding/ Fabricating - burns and sparks

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Produced grout, poured piles, drilled piles, drilled rock socket
Maintenance and minor repairs in grout plant
Created flattened berm along dike for playing the air lines

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-08
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0378		Day	11	9.60	10.65	11.50	11.50	Core Barrel
0382		Day	12	11.00	11.60	13.18	12.63	Core Barrel
0426		Day	10	10.20	9.70	10.52	10.49	Core Barrel
0456	Day	Day	10	8.20	8.80	9.92	9.82	Core Barrel
0466	Day	Day	10	8.4	9.10	9.856	9.32	Core Barrel
0470	Day	Day	11	8.80	9.70	10.98	10.73	Core Barrel
0474	Night	Night	10	9.30	9.68	10.30	10.10	1
0488		Day	10	7.85	9.10	9.90	9.72	3
0492		Day	11	7.94	9.00	10.00	9.70	2.5
0496		Day	10	7.89	8.91	9.55	9.50	1
0502	Night		10	8.60	9.00			
0508	Night	Day	10	7.70	8.80	9.50	9.21	3
0512	Night		10	8.20	8.62			
0516	Night	Night	10	7.80	8.75	9.20	9.10	1
0520	Night	Night	11	7.88	9.30	9.20	9.10	1
0536	Night	Night	10	7.88	9.30	9.60	9.40	1
0540	Day	Night	10	7.71	8.34	9.90	9.80	2.5
					TOTAL	153.11		

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-08
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0548	Day	Day	10	7.8	8.90	10.00	9.80	2
0567	Day	Day	10	7.60	8.5	8.90	8.64	2
0571		Day	11	7.60	8.8	7.00	8.65	1
0575		Day	10	7.50	8.4	8.90	8.60	1
0595		Day	10	7.7	8.2	8.9	8.70	Core Barrel
0599		Day	11	7.90	8.8	8.80	8.70	Core Barrel
0615	Night		10	7.70	8.5			
0619	Night		10	7.90	8.20			
0623	Night	Night	10	8.09	8.85	9.00	8.75	1
0627	Night	Night	10	7.83	9.35	9.45	8.80	1
0631	Night	Night	10	7.70	8.90	9.00	8.75	1
0635	Night	Night	10	7.58	9.10	9.30	9.10	1
					TOTAL	89.25		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-08
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
1977c	865.00	708.00	5:12:00	1978c	871.00	698.00	5:20:00	1736.00	1406.00	0.810
1979c	877.00	712.00	5:32:00	1980c	870.00	707.00	5:39:00	1747.00	1419.00	0.812
1981c	870.00	704.00	7:07:00	1982c	874.00	706.00	7:14:00	1744.00	1410.00	0.808
1983c	871.00	710.00	7:22:00	1984c	871.00	699.00	7:30:00	1742.00	1409.00	0.809
1985c	866.00	702.00	7:52:00	1986c	876.00	699.00	8:02:00	1742.00	1401.00	0.804
1987c	871.00	696.00	8:10:00	1988c	875.00	700.00	8:20:00	1746.00	1396.00	0.800
1989c	871.00	710.00	8:52:00	1990c	869.00	701.00	9:02:00	1740.00	1411.00	0.811
1991c	867.00	710.00	9:25:00	1992c	867.00	706.00	9:35:00	1734.00	1416.00	0.817
1993c	869.00	714.00	9:59:00	1994c	876.00	701.00	10:09:00	1745.00	1415.00	0.811
1995c	869.00	697.00	10:36:00	1996c	864.00	702.00	10:46:00	1733.00	1399.00	0.807
1997c	870.00	704.00	11:22:00	1998c	877.00	702.00	11:31:00	1747.00	1406.00	0.805
1999c	870.00	709.00	11:39:00	2000c	873.00	698.00	11:47:00	1743.00	1407.00	0.807
2001c	869.00	702.00	12:19:00	2002c	868.00	706.00	12:27:00	1737.00	1408.00	0.811
2003c	869.00	702.00	12:35:00	2004c	864.00	701.00	12:45:00	1733.00	1403.00	0.810
2005c	870.00	696.00	13:26:00	2006c	871.00	705.00	13:35:00	1741.00	1401.00	0.805
2007c	874.00	704.00	13:52:00	2008c	877.00	701.00	14:06:00	1751.00	1405.00	0.802
2009c	868.00	699.00	14:31:00	2010c	869.00	705.00	14:40:00	1737.00	1404.00	0.808
2011c	873.00	711.00	15:03:00	2012c	870.00	700.00	15:12:00	1743.00	1411.00	0.810
							TOTAL:	31341.00	25327.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-08
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2013c	874.00	701.00	15:33:00	2014c	868.00	699.00	15:44:00	1742.00	1400.00	0.804
2015c	867.00	710.00	15:53:00	2016c	865.00	711.00	16:03:00	1732.00	1421.00	0.820
2017c	869.00	705.00	16:33:00	2018c	865.00	707.00	16:42:00	1734.00	1412.00	0.814
2019c	872.00	709.00	16:49:00	2020c	871.00	702.00	16:58:00	1743.00	1411.00	0.810
2021c	868.00	696.00	17:21:00	2022c	872.00	699.00	17:31:00	1740.00	1395.00	0.802
2023c	873.00	706.00	17:40:00	2024c	867.00	715.00	17:58:00	1740.00	1421.00	0.817
2025c	872.00	707.00	18:40:00	2026c	871.00	698.00	18:48:00	1743.00	1405.00	0.806
2027c	871.00	715.00	18:59:00	2028c	871.00	713.00	19:10:00	1742.00	1428.00	0.820
2029c	870.00	703.00	19:52:00	2030c	870.00	704.00	20:02:00	1740.00	1407.00	0.809
2031c	865.00	706.00	20:12:00	2032c	868.00	714.00	20:20:00	1733.00	1420.00	0.819
2033c	870.00	702.00	21:07:00	2034c	868.00	700.00	21:15:00	1738.00	1402.00	0.807
2035c	868.00	711.00	21:28:00	2036c	875.00	706.00	21:38:00	1743.00	1417.00	0.813
2037c	870.00	702.00	22:14:00	2038c	871.00	704.00	22:23:00	1741.00	1406.00	0.808
2039c	869.00	706.00	22:32:00	2040c	869.00	714.00	22:40:00	1738.00	1420.00	0.817
2041c	870.00	702.00	23:17:00	2042c	872.00	698.00	23:25:00	1742.00	1400.00	0.804
2043c	875.00	703.00	23:36:00	2044c	867.00	710.00	23:45:00	1742.00	1413.00	0.811
2045c	870.00	702.00	0:24:00	2046c	876.00	701.00	0:33:00	1746.00	1403.00	0.804
2047c	874.00	715.00	0:43:00	2048c	869.00	715.00	0:51:00	1743.00	1430.00	0.820
							TOTAL:	31322.00	25411.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-08
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2049c	865.00	697.00	1:30:00	2050c	871.00	711.00	1:40:00	1736.00	1408.00	0.811
2051c	868.00	709.00	2:17:00	2052c	868.00	706.00	2:28:00	1736.00	1415.00	0.815
2053c	870.00	702.00	2:51:00	2054c	870.00	715.00	3:02:00	1740.00	1417.00	0.814
2055c	871.00	706.00	3:21:00	2056c	875.00	702.00	3:28:00	1746.00	1408.00	0.806
2057c	870.00	702.00	4:00:00	2058c	875.00	710.00	4:09:00	1745.00	1412.00	0.809
							TOTAL:	8703.00	7060.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-08
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
2004b	212.90	3376.00	15.86	5:14:00
2006b	219.70	3482.00	15.85	5:37:00
2008b	220.20	3484.00	15.82	6:43:00
2010b	210.40	3334.00	15.85	7:23:00
2012b	213.70	3372.00	15.78	7:47:00
2014b	213.30	3366.00	15.78	8:12:00
2016b	213.50	3372.00	15.79	8:58:00
2018b	214.10	3386.00	15.82	9:25:00
2020b	212.00	3366.00	15.88	10:02:00
2022b	212.50	3374.00	15.88	10:29:00
2024b	213.50	3382.00	15.84	11:06:00
2026b	213.80	3380.00	15.81	11:36:00
2028b	212.90	3362.00	15.79	12:09:00
2030b	211.50	3338.00	15.78	12:32:00
2032b	214.00	3376.00	15.78	13:20:00
2034b	210.60	3336.00	15.84	13:52:00
2036b	214.10	3384.00	15.81	14:33:00
2038b	212.00	3356.00	15.83	15:05:00
TOTAL:	3844.70	60826.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-08
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
2040b	213.60	3386.00	15.85	15:26:00
2042b	213.20	3376.00	15.83	15:56:00
2044b	212.30	3366.00	15.85	16:26:00
2046b	215.90	3394.00	15.72	16:51:00
2048b	213.10	3388.00	15.90	17:23:00
2050b	215.30	3394.00	15.76	17:52:00
2052b	211.60	3356.00	15.86	18:43:00
2054b	216.90	3430.00	15.81	9:02:00
2056b	222.90	3514.00	15.76	19:55:00
2058b	220.30	3484.00	15.81	20:14:00
2060b	214.10	3398.00	15.87	21:08:00
2062b	217.90	3444.00	15.81	21:30:00
2064b	220.40	3454.00	15.67	22:13:00
2066b	219.70	3480.00	15.84	22:37:00
2068b	220.30	3452.00	15.67	23:20:00
2070b	225.50	3542.00	15.71	23:44:00
2072b	220.30	3490.00	15.84	0:26:00
2074b	222.10	3504.00	15.78	0:46:00
TOTAL:	3915.40	61852.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-08
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
2076b	219.60	3456.00	15.74	1:25:00
2078b	223.10	3508.00	15.72	2:21:00
2080b	188.80	2976.00	15.76	3:00:00
2082b	221.40	3498.00	15.80	3:25:00
2084b	223.10	3526.00	15.80	3:58:00
TOTAL:	1076.00	16964.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-08
Project	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2004t	524				3540.0	1900.6	5440.6	9.6	1977c	1978c	2004b
2006t	524				3580.0	1915.3	5495.3	9.6	1979c	1980c	2006b
2008t	460				3564.3	1907.7	5472.0	9.6	1981c	1982c	2008b
2010t	460				3410.5	1905.9	5316.4	9.6	1983c	1984c	2010b
2012t	440				3450.2	1900.5	5350.7	9.6	1985c	1986c	2012b
2014t	440				3443.0	1899.4	5342.4	9.6	1987c	1988c	2014b
2016t	426				3450.0	1906.1	5356.1	9.6	1989c	1990c	2016b
2018t	426				3464.1	1906.1	5370.2	9.6	1991c	1992c	2018b
2020t	382	378			3442.8	1911.6	5354.4	9.6	1993c	1994c	2020b
2022t	382	378			3451.0	1894.2	5345.2	9.6	1995c	1996c	2022b
2024t	378				3459.7	1906.6	5366.3	9.6	1997c	1998c	2024b
2026t	378				3458.0	1905.1	5363.1	9.6	1999c	2000c	2026b
2028t	480	488			3439.8	1902.4	5342.2	9.6	2001c	2002c	2028b
2030t	480	488			3415.4	1896.9	5312.3	9.6	2003c	2004c	2030b
2032t	488				3454.4	1900.0	5354.4	9.6	2005c	2006c	2032b
2034t	488				3412.6	1908.2	5320.8	9.6	2007c	2008c	2034b
2036t	426				3462.2	1899.8	5362.0	9.6	2009c	2010c	2036b
2038t	426				3422.2	1907.8	5330.0	4.8	2011c	2012c	2038b
						TOTAL:	96594.4				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-08
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2040t	492				3463.2	1899.9	5363.1	4.8	2013c	2014c	2040b
2042t	492				3453.6	1908.4	5362.0	4.8	2015c	2016c	2042b
2044t	492	496			3443.1	1903.5	5346.6	4.8	2017c	2018c	2044b
2046t	492	496			3473.5	1907.8	5381.3	4.8	2019c	2020c	2046b
2048t	508				3465.1	1895.4	5360.5	4.8	2021c	2022c	2048b
2050t	508				3472.0	1912.8	5384.8	4.8	2023c	2024c	2050b
2052t	599				3500.0	1903.8	5403.8	4.8	2025c	2026c	2052b
2054t	599				3570.0	1918.6	5488.6	4.8	2027c	2028c	2054b
2056t	599				3580.0	1903.4	5483.4	4.8	2029c	2030c	2056b
2058t	599				3550.0	1908.2	5458.2	4.8	2031c	2032c	2058b
2060t	575	571			3520.0	1899.0	5419.0	4.8	2033c	2034c	2060b
2062t	575	571			3530.0	1911.8	5441.8	4.8	2035c	2036c	2062b
2064t	571	567	544		3570.0	1903.3	5473.3	4.8	2037c	2038c	2064b
2066t	571	567	544		3560.0	1911.0	5471.0	4.8	2039c	2040c	2066b
2068t	544	540			3590.0	1899.9	5489.9	4.8	2041c	2042c	2068b
2070t	544	540			3550.0	1908.6	5458.6	4.8	2043c	2044c	2070b
2072t					3590.0	1904.1	5494.1	4.8	2045c	2046c	2072b
2074t					3640.0	1920.5	5560.5	4.8	2047c	2048c	2074b
						TOTAL:	97840.3				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-08
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2076t	536	520			3540.0	1901.9	5441.9	4.8	2049c	2050c	2076b
2078t	536	520			3510.0	1906.6	5416.6	4.8	2051c	2052c	2078b
2080t	520	516			3720.0	1910.1	5630.1	4.8	2053c	2054c	2080b
2082t	520	516			3650.0	1907.4	5557.4	4.8	2055c	2056c	2082b
2084t					3570.0	1909.5	5479.5	4.8	2057c	2058c	2084b
						TOTAL:	27525.6				

NOTES

TOP UPS

Tanks:		**Piles:**
2004t	2006t	528, 532
2048t	2050t	524, 528, 496, 492, 488, 480
2052t	2054t	460, 508, 440, 426, 382, 378
2072t	2074t	571, 575, 595, 599, 544, 524, 508, 492, 488, 480, 426
2084t		599, 595, 575, 571, 567, 528, 524, 520, 508, 492, 426

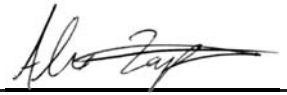
HFDI Production Control

Project Number	1814	**Date**	2018-11-08
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	20	195.45	149.10	221.96	48.87%

Daily pile Completion:	2.03%	**Daily Cement used in KG**	71366.00
Piles Poured to Date:	549	**Total Cement used to date KG**	1826765.00
Daily L/M of Drilling:	242.36	**Daily Bentonite used in KG**	8836.10
		Total Bentonite used in KG	223369.00
		Daily Water consumption	197440.00
		Total Water Consumption	4866016.00

HFDI Representative: Alex Zapantis (Name)  (Signature)

KCG Representative: Damien Gagnon (Name)  (Signature)

2018-11-10 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-11-09	Shift: 24hr
		Site Conditions: -28C, clear	

FOREMAN'S SAFETY/ QUALITY MEETING

Move Compressors and hoses - heavy lifting, blind spots of equipment, use spotter

Maintenance of equipment - working at heights - use fall arrest & watch footing

Working with Grout - silica inhalation, skin contact - use proper PPE

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Chip airlines from ice - move airlines and compressors - remove valves from airline

Servicing on drill rigs and grout plant generator

Produce grout, pour piles, drill piles, rock hammer

Swapped out rock hammer on BG28

Repair work on BG30 #2 after it would not start

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	**Date**	2018-11-09
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0615		Night	10	7.70	8.50	9.10	8.90	1
0619		Night	10	7.90	8.20	9.03	8.90	1
0623		Night	10	8.09	8.85	9.22	9.10	1
					TOTAL	27.35		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-09
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2059c	874.00	718.00	19:00:00	2060c	871.00	712.00	19:05:00	1745.00	1430.00	0.819
2061c	870.00	713.00	20:08:00	2062c	874.00	700.00	20:17:00	1744.00	1413.00	0.810
2063c	872.00	711.00	20:31:00	2064c	877.00	709.00	20:40:00	1749.00	1420.00	0.812
2065c	868.00	712.00	21:02:00	2066c	869.00	708.00	21:10:00	1737.00	1420.00	0.818
2067c	867.00	710.00	21:58:00	2068c	873.00	699.00	22:05:00	1740.00	1409.00	0.810
2069c	876.00	702.00	22:18:00	2070c	863.00	700.00	22:30:00	1739.00	1402.00	0.806
2071c	867.00	709.00	23:00:00	2072c	872.00	697.00	23:07:00	1739.00	1406.00	0.809
2073c	867.00	703.00	23:25:00	2074c	873.00	698.00	23:34:00	1740.00	1401.00	0.805
2075c	872.00	710.00	0:12:00	2076c	874.00	708.00	0:18:00	1746.00	1418.00	0.812
2077c	868.00	695.00	0:45:00	2078c	869.00	704.00	0:51:00	1737.00	1399.00	0.805
							TOTAL:	17416.00	14118.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-09
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
2086b	212.30	3380.00	15.92	19:09:00
2088b	223.00	3544.00	15.89	20:08:00
2090b	247.00	3908.00	15.82	20:36:00
2092b	220.00	3490.00	15.86	21:03:00
2094b	221.00	3486.00	15.77	21:59:00
2096b	210.00	3448.00	16.42	22:41:00
2098b	224.00	3554.00	15.87	23:03:00
2100b	229.20	3630.00	15.84	23:28:00
2102b	227.10	3594.00	15.83	0:17:00
2104b	229.00	3616.00	15.79	0:48:00
TOTAL:	2242.60	35650.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-09
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2086t	470				3530.0	1921.6	5451.6	4.8	2059c	2060c	2086b
2088t	470				3620.0	1909.7	5529.7	4.8	2061c	2062c	2088b
2090t	470	474			3590.0	1917.1	5507.1	4.8	2063c	2064c	2090b
2092t	470	474			3600.0	1910.5	5510.5	4.8	2065c	2066c	2092b
2094t	464	456			3550.0	1904.8	5454.8	4.8	2067c	2068c	2094b
2096t	464	456			3580.0	1899.5	5479.5	4.8	2069c	2070c	2096b
2098t	456	635	631		3545.0	1902.2	5447.2	4.8	2071c	2072c	2098b
2100t	456	635	631		3520.0	1899.4	5419.4	4.8	2073c	2074c	2100b
2102t	631				3590.0	1914.1	5504.1	4.8	2075c	2076c	2102b
2104t	631				3610.0	1896.4	5506.4	4.8	2077c	2078c	2104b
						TOTAL:	54810.3				

NOTES

TOP UPS

Tanks:		**Piles:**
2086t	2088t	575, 571, 567, 426, 382, 378
2102t	2104t	470, 466, 456, 520, 474

HFDI Production Control

Project Number	1814	**Date**	2018-11-09
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	6	59.36	45.22	54.81	21.21%

Daily pile Completion:	0.61%
Piles Poured to Date:	555
Daily L/M of Drilling:	27.35

Daily Cement used in KG	17416.00
Total Cement used to date KG	1844181.00
Daily Bentonite used in KG	2242.60
Total Bentonite used in KG	225612.00
Daily Water consumption	49768.00
Total Water Consumption	4915784.00

HFDI Representative: Alex Zapantis (Name) — (Signature)

KCG Representative: Damien Gagnon (Name) — (Signature)

2018-11-10 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-11-10	Shift: 24hr
		Site Conditions: -28C, clear	

FOREMAN'S SAFETY/ QUALITY MEETING

Pouring piles - grout burn + conflicting equipment - PPE and use spotters

Drilling piles - Open holes + falling debris - cover holes and stay out of fall zone

Rock Hammer - high pressure airlines - follow procedure and keep a distance

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Took apart plugged hoses, joints and valves in grout plant and chipped out all the hardened cement - put the plant back together by 23:00

Worked with AEM mechanic to troubleshoot error codes on BG30 #2

Drilled casings and predrills, rock hammered sockets

Produced grout - poured piles - removed casing

Minor repairs and diagnostics on rigs

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-10
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0579	Day	Day	11	7.70	8.55	8.90	8.75	1
0583	Day	Day	11	7.73	8.70	8.90	8.64	1
0587	Day	Day	10	7.50	8.51	9.03	8.82	2
0591	Day	Day	10	8.04	8.46	9.30	8.90	2
0603	Day	Day	10	8	8.53	9.15	8.75	1
0607	Day	Day	10	7.90	8.70	9.20	8.80	1
0619		Day	10	7.90	8.20	9.20	8.90	1
0623		Day	10	8.09	8.85	9.40	9.10	1
0721	Day	Day	10	8.20	9.20	10.00	9.84	1
0725	Day	Day	10	8.00	9.15	9.85	9.74	2
0737	Day		10	8.70	9.30			
					TOTAL	92.93		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-10
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2079c	872.00	712.00	SUMP	2080c	873.00	709.00	SUMP	1745.00	1421.00	0.814
2081c	865.00	709.00	SUMP	2082c	872.00	709.00	SUMP	1737.00	1418.00	0.816
2083c	872.00	709.00	23:04:00	2084c	877.00	709.00	23:10:00	1749.00	1418.00	0.811
2085c	882.00	711.00	23:55:00	2086c	877.00	712.00	0:15:00	1759.00	1423.00	0.809
2087c	872.00	710.00	0:47:00	2088c	881.00	722.00	0:52:00	1753.00	1432.00	0.817
2089c	873.00	708.00	1:30:00	2090c	878.00	720.00	1:41:00	1751.00	1428.00	0.816
2091c	871.00	708.00	2:29:00	2092c	872.00	704.00	2:40:00	1743.00	1412.00	0.810
2093c	872.00	710.00	2:51:00	2094c	876.00	709.00	2:56:00	1748.00	1419.00	0.812
2095c	878.00	720.00	3:24:00	2096c	865.00	707.00	3:32:00	1743.00	1427.00	0.819
2097c	874.00	703.00	3:50:00	2098c	866.00	703.00	3:54:00	1740.00	1406.00	0.808
							TOTAL:	17468.00	14204.00	

NOTES

Batches 2017c, 2080c, 2081c, and 2082c were discarded

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-10
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
2106b	220.80	3494.00	15.82	SUMP
2108b	270.00	3908.00	14.47	23:28:00
2110b	217.80	3456.00	15.87	0:12:00
2112b	217.60	3438.00	15.80	0:54:00
2114b	215.90	3402.00	15.76	1:38:00
2116b	216.60	3448.00	15.92	2:31:00
2118b	225.80	3590.00	15.90	2:53:00
2120b	219.40	3444.00	15.70	3:29:00
2122b	211.00	3352.00	15.89	3:53:00
TOTAL:	2014.90	31532.00		

NOTES
Batch 2016c was discarded

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-10
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2106t					3580.0	1915.6	5495.6		2079c	2080c	2106b
2108t	502	512			3555.0	1915.8	5470.8	4.8	2083c	2084c	2108b
2110t	502	512			3620.0	1924.6	5544.6	4.8	2085c	2086c	2110b
2112t	512	725			3580.0	1927.3	5507.3	4.8	2087c	2088c	2112b
2114t	512	725			3550.0	1923.6	5473.6	4.8	2089c	2090c	2114b
2116t	721	725			3570.0	1908.4	5478.4	4.8	2091c	2092c	2116b
2118t	721	725			3505.0	1915.9	5420.9	4.8	2093c	2094c	2118b
2120t	627				3568.0	1918.5	5486.5	4.8	2095c	2096c	2120b
2122t	627				3585.0	1902.8	5487.8	4.8	2097c	2098c	2122b
						TOTAL:	49365.4				

NOTES

TOP UPS

Tanks:		Piles:
2112t	2114t	502
2116t	2118t	512, 725, 502
2120t	2122t	635, 631

HFDI Production Control

Project Number	1814	**Date**	2018-11-10
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	5	48.05	36.66	49.37	34.66%

Daily pile Completion:	0.51%
Piles Poured to Date:	563
Daily L/M of Drilling:	92.93

Daily Cement used in KG	17468.00
Total Cement used to date KG	1861649.00
Daily Bentonite used in KG	2014.90
Total Bentonite used in KG	227627.00
Daily Water consumption	45736.00
Total Water Consumption	4961520.00

HFDI Representative: Alex Zapantis (Name) — (Signature)

KCG Representative: Damien Gagnon (Name) — (Signature)

2018-11-11 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-11-11 Site Conditions: -30C	Shift: 24hr

FOREMAN'S SAFETY/ QUALITY MEETING

Rock Hammer - high pressure air lines - use whip checks, watch for falling debris
Drilling - watch for pinch points and respect the swing radius
Mixing grout - Protection against silica exposure

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction
AEM	HFDI	Impose corrective measure on batch plant due to clogging from previous day

SUMMARY OF WORK

Address code errors on BG30 #2 - use the help of AEM mechanics computer
Produced grout, poured piles, drilled piles, rock hamemred
Continue fabricaiton work and maintenance on usd drilling tools

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-11
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
639		Day	9	8.50	8.80	9.90	9.65	2
643	Day	Day	10	8.70	9.65	9.90	9.42	1
647	Day	Night	10	8.45	9.35	9.84	9.48	1
653	Day	Day	10	8.55	9.14	10.05	9.44	1
657	Day	Day	10	8.38	9.35	9.65	9.40	1
661	Night	Night	10	8.60	9.10	10.14	9.61	1
673	Night	Night	11	9.50	9.80	10.83	10.56	3
677	Night	Night	11	10.00	10.30	11.54	1.00	2
693	Day	Day	10	9.00	9.50	10.10	9.97	1
697	Day	Day	10	9.00	9.50	10.20	10.12	1
717	Day	Day	10	8.60	9.60	10.35	10.25	1
737		Day	10	8.70	9.30	10.20	10.09	1
757	Night	Night	10	7.80	8.10	9.50	9.14	3
761	Night		10	7.80	8.10			
765	Night		10	7.90	8.20			
769	Night	Night	10	8.20	8.50	9.72	9.24	1
773	Night	Night	10	8.20	8.50	9.46	9.26	1
801	Night		10	7.00	7.30			
					TOTAL	151.38		

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	**Date**	2018-11-11
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
805	Night		10.00	6.90	7.20			
809	Night	Night	9.00	6.80	7.10	8.38	7.92	1
					TOTAL	8.38		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-11
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2099c	870.00	705.00	4:43:00	2100c	873.00	720.00	4:50:00	1743.00	1425.00	0.820
2101c	874.00	721.00	5:03:00	2102c	875.00	727.00	5:08:00	1749.00	1448.00	0.830
2103c	878.00	718.00	5:47:00	2104c	875.00	707.00	5:53:00	1753.00	1425.00	0.810
2105c	871.00	705.00	6:34:00	2106c	865.00	697.00	6:42:00	1736.00	1402.00	0.810
2107c	870.00	705.00	7:21:00	2108c	876.00	695.00	7:30:00	1746.00	1400.00	0.800
2109c	896.00	715.00	7:42:00	2110c	858.00	770.00	7:58:00	1754.00	1485.00	0.850
2111c	860.00	718.00	8:40:00	2112c	871.00	698.00	8:50:00	1731.00	1416.00	0.820
2113c	876.00	699.00	9:04:00	2114c	869.00	697.00	9:14:00	1745.00	1396.00	0.800
2115c	870.00	710.00	9:59:00	2116c	868.00	707.00	10:09:00	1738.00	1417.00	0.820
2117c	872.00	710.00	10:20:00	2118c	868.00	692.00	10:28:00	1740.00	1402.00	0.810
2119c	870.00	707.00	12:52:00	2120c	873.00	711.00	13:00:00	1743.00	1418.00	0.810
2121c	872.00	707.00	13:13:00	2122c	874.00	696.00	13:23:00	1746.00	1403.00	0.800
2123c	870.00	707.00	15:21:00	2124c	873.00	701.00	15:30:00	1743.00	1408.00	0.810
2125c	868.00	699.00	15:42:00	2126c	870.00	696.00	15:48:00	1738.00	1395.00	0.800
2127c	859.00	713.00	17:19:00	2128c	869.00	699.00	17:28:00	1728.00	1412.00	0.820
2129c	864.00	699.00	17:38:00	2130c	870.00	703.00	17:48:00	1734.00	1402.00	0.810
2131c	866.00	709.00	18:58:00	2132c	863.00	705.00	19:05:00	1729.00	1414.00	0.820
2133c	864.00	701.00	19:17:00	2134c	868.00	718.00	19:27:00	1732.00	1419.00	0.820
							TOTAL:	31328.00	25487.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-11
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2135c	869.00	710.00	20:04:00	2136c	860.00	699.00	20:10:00	1729.00	1409.00	0.810
2137c	860.00	699.00	20:25:00	2138c	864.00	700.00	20:37:00	1724.00	1399.00	0.810
2139c	865.00	703.00	21:34:00	2140c	871.00	699.00	21:41:00	1736.00	1402.00	0.810
2141c	868.00	715.00	21:51:00	2142c	861.00	712.00	22:07:00	1729.00	1427.00	0.830
2143c	871.00	709.00	22:30:00	2144c	869.00	699.00	22:36:00	1740.00	1408.00	0.810
2145c	865.00	703.00	22:48:00	2146c	863.00	710.00	22:58:00	1728.00	1413.00	0.820
2147c	868.00	709.00	23:33:00	2148c	866.00	698.00	23:38:00	1734.00	1407.00	0.810
2149c	867.00	706.00	23:52:00	2150c	869.00	704.00	23:58:00	1736.00	1410.00	0.810
2151c	868.00	692.00	0:31:00	2152c	870.00	710.00	0:40:00	1738.00	1402.00	0.810
2153c	868.00	709.00	0:50:00	2154c	865.00	713.00	0:57:00	1733.00	1422.00	0.820
2155c	868.00	708.00	1:38:00	2156c	861.00	705.00	1:44:00	1729.00	1413.00	0.820
2157c	861.00	720.00	1:57:00	2158c	869.00	715.00	2:05:00	1730.00	1435.00	0.830
2159c	866.00	692.00	2:45:00	2160c	869.00	720.00	2:51:00	1735.00	1412.00	0.810
2161c	870.00	715.00	3:03:00	2162c	872.00	720.00	3:09:00	1742.00	1435.00	0.820
2163c	872.00	697.00	3:47:00	2164c	872.00	709.00	3:54:00	1744.00	1406.00	0.810
2165c	869.00	720.00	4:07:00	2166c	867.00	718.00	4:30:00	1736.00	1438.00	0.830
2167c	868.00	718.00	4:46:00	2168c	872.00	715.00	4:51:00	1740.00	1433.00	0.820
2169c	863.00	714.00	5:03:00	2170c	865.00	712.00	5:15:00	1728.00	1426.00	0.830
							TOTAL:	31211.00	25497.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-11
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
2124b	212.70	3392.00	15.95	4:47:00
2126b	212.30	3366.00	15.85	5:05:00
2128b	216.30	3404.00	15.74	5:50:00
2130b	216.40	3398.00	15.70	6:32:00
2132b	221.10	3486.00	15.77	7:21:00
2134b	224.20	3540.00	15.79	7:55:00
2136b	218.40	3428.00	15.70	8:49:00
2138b	225.20	3570.00	15.85	9:11:00
2140b	224.00	3524.00	15.73	10:02:00
2142b	226.40	3572.00	15.78	10:23:00
2144b	225.50	3542.00	15.71	12:54:00
2146b	215.50	3428.00	15.91	13:20:00
2148b	221.10	3492.00	15.79	15:20:00
2150b	218.50	3438.00	15.73	15:45:00
2152b	217.10	3436.00	15.83	17:16:00
2154b	215.40	3434.00	15.94	17:46:00
2156b	217.80	3438.00	15.79	19:01:00
2158b	224.20	3547.00	15.82	19:30:00
TOTAL:	3952.10	62435.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-11
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	w/s	Time to Agitation Tank
2160b	216.50	3406.00	15.73	20:05:00
2162b	215.90	3434.00	15.91	20:38:00
2164b	216.10	3416.00	15.81	21:40:00
2166b	213.20	3364.00	15.78	21:56:00
2168b	223.90	3522.00	15.73	22:34:00
2170b	210.30	3338.00	15.87	22:52:00
2172b	216.20	3416.00	15.80	23:34:00
2174b	211.50	3348.00	15.83	23:55:00
2176b	219.30	3480.00	15.87	0:35:00
2178b	219.40	3444.00	15.70	0:54:00
2180b	214.90	3422.00	15.92	1:40:00
2182b	225.30	3522.00	15.63	2:00:00
2184b	220.70	3496.00	15.84	2:47:00
2186b	213.90	3370.00	15.76	3:06:00
2188b	216.00	3404.00	15.76	3:50:00
2190b	219.90	3434.00	15.62	4:09:00
2192b	221.80	3500.00	15.78	4:49:00
2194b	211.00	3334.00	15.80	5:07:00
TOTAL:	3905.80	61650.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-11
Project	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2124t	623	619			3595.0	1917.1	5512.1	4.8	2099c	2100c	2124b
2126t	623	619			3620.0	1935.8	5555.8	4.8	2101c	2102c	2126b
2128t	619	615			3490.0	1922.7	5412.6	4.8	2103c	2104c	2128b
2130t	619	615			3560.0	1897.9	5457.9	4.8	2105c	2106c	2130b
2132t	615	607			3530.0	1902.1	5432.1	4.8	2107c	2108c	2132b
2134t	615	607			3620.0	1963.3	5583.3	4.8	2109c	2110c	2134b
2136t	607	603			3530.0	1904.5	5434.5	4.8	2111c	2112c	2136b
2138t	607	603			3670.0	1898.9	5568.9	4.8	2113c	2114c	2138b
2140t					3570.0	1909.0	5479.0	4.8	2115c	2116c	2140b
2142t					3630.0	1900.1	5530.1	4.8	2117c	2118c	2142b
2144t	603	591			3560.0	1912.4	5472.4	4.8	2119c	2120c	2144b
2146t	603	591			3540.0	1904.1	5444.1	4.8	2121c	2122c	2146b
2148t	587	591			3560.0	1905.8	5465.8	4.8	2123c	2124c	2148b
2150t	587	591			3530.0	1894.3	5424.3	4.8	2125c	2126c	2150b
2152t					3560.0	1900.1	5460.1	4.8	2127c	2128c	2152b
2154t					3560.0	1896.8	5456.8	4.8	2129c	2130c	2154b
2156t	583				3580.0	1902.0	5482.0	4.8	2131c	2132c	2156b
2158t	583				3550.0	1907.0	5457.0	4.8	2133c	2134c	2158b
						TOTAL:	98628.8				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-11
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2160t	583	579			3610.0	1898.7	5508.7	4.8	2135c	2136c	2160b
2162t	583	579			3585.0	1889.2	5474.2	4.8	2137c	2138c	2162b
2164t	653	657			3590.0	1897.9	5487.9	4.8	2139c	2140c	2164b
2166t	653	657			3560.0	1910.7	5470.7	4.8	2141c	2142c	2166b
2168t	657	661	647		3590.0	1904.1	5494.1	4.8	2143c	2144c	2168b
2170t	657	661	647		3610.0	1900.8	5510.8	4.8	2145c	2146c	2170b
2172t	647				3595.0	1900.1	5495.1	4.8	2147c	2148c	2172b
2174t	647				3580.0	1903.2	5483.2	4.8	2149c	2150c	2174b
2176t	647	643			3605.0	1899.0	5504.0	4.8	2151c	2152c	2176b
2178t	647	643			3555.0	1909.6	5464.6	4.8	2153c	2154c	2178b
2180t	643				3582.0	1901.4	5483.4	4.8	2155c	2156c	2180b
2182t	643				3584.0	1916.6	5500.6	4.8	2157c	2158c	2182b
2184t	773	769			3556.0	1904.0	5460.0	4.8	2159c	2160c	2184b
2186t	773	769			3542.0	1923.3	5465.3	4.8	2161c	2162c	2186b
2188t	769	757			3556.0	1905.0	5461.0	4.8	2163c	2164c	2188b
2190t	769	757			3555.0	1921.9	5476.9	4.8	2165c	2166c	2190b
2192t	737				3584.0	1920.8	5504.8	4.8	2167c	2168c	2192b
2194t	737				3590.0	1909.5	5499.5	4.8	2169c	2170c	2194b
						TOTAL:	98744.8				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-11
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
						TOTAL:					

NOTES

TOP UPS

Tanks:		**Piles:**
2136t	2138t	721, 725
2140t	2142t	512, 502, 635
2144t	2146t	607, 611, 615, 619
2156t	2158t	635, 631, 627, 623, 619, 615, 607, 603
2160t	2162t	591, 587
2172t	2174t	657
2176t	2178t	583, 579, 587, 653, 657
2180t	2182t	647, 661, 657
2192t	2194t	661, 657, 647, 643, 639

HFDI Production Control

Project Number	1814	**Date**	2018-11-11
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	18	170.64	130.36	197.37	51.41%

Daily pile Completion:	1.83%
Piles Poured to Date:	581
Daily L/M of Drilling:	159.76

Daily Cement used in KG	62539.00
Total Cement used to date KG	1922460.00
Daily Bentonite used in KG	7857.90
Total Bentonite used in KG	235274.00
Daily Water consumption	175069.00
Total Water Consumption	5131829.00

HFDI Representative: Alex Zapantis (Name) — (Signature)

KCG Representative: Damien Gagnon (Name) — (Signature)

2018-11-12 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-11-12 Site Conditions: -30C	Shift: 24hr

FOREMAN'S SAFETY/ QUALITY MEETING

General work on dike - slips, trips and falls - wear anti-slip and watch footing
Welding and fabrication - sparks and burns - proper PPE, body positioning and fire extinguisher
Drilling piles - open holes, falling debris

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Produced grout, poured piles, drilled piles, hammered sockets
Rebuild of spare rock hammer
Calibration on cement plant - troubleshoot over the phone with AMIX
Repair to swivel on BG28

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-12
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
611	Day	Night	11	8.20	8.70	9.33	8.90	1
665	Day	Night	10	9.30	9.70	10.78	9.85	1
669	Day	Night	10	8.35	9.50	10.63	9.84	1
683	Night		11	9.70	9.80			
687	Night		10	9.20	9.30			
701	Night		10	9.60	9.60			
705	Day	Night	11	9.80	10.50	11.07	10.44	1
709	Day	Day	10	9.25	9.90	10.65	10.44	2.5
713	Day	Night	11	9.50	10.35	10.82	10.45	2.5
729	Day		10	8.85	9.35			
733	Day	Day	10	8.94	9.80	10.30	10.13	3
753	Night		11	8.70	9.00			
761		Day	10	7.80	8.10	9.45	9.24	2
765		Day	10	7.90	8.20	9.45	9.34	2
777	Night	Night	10	7.90	8.20	9.34	9.18	1
781	Night	Night	10	7.80	8.10	9.16	9.05	1
785	Night	Night	10	7.50	7.80	9.00	8.94	1
801		Day	10	7.00	7.30	8.60	8.40	1
					TOTAL	128.58		

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	**Date**	2018-11-12
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
805		Day	10.00	6.90	7.20	8.45	8.20	1
817	Night	Night	10.00	6.70	7.00	7.92	7.78	1
821	Night	Night	10.00	6.90	7.20	8.23	7.97	1
					TOTAL	24.60		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-12
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2171c	872.00	708.00	5:38:00	2172c	866.00	715.00	5:47:00	1738.00	1423.00	0.820
2173c	865.00	694.00	6:25:00	2174c	864.00	738.00	6:35:00	1729.00	1432.00	0.830
2175c	871.00	702.00	7:56:00	2176c	868.00	720.00	8:09:00	1739.00	1422.00	0.820
2177c	868.00	726.00	8:16:00	2178c	866.00	718.00	8:30:00	1734.00	1444.00	0.830
2179c	873.00	701.00	8:55:00	2180c	875.00	720.00	9:05:00	1748.00	1421.00	0.810
2181c	867.00	720.00	9:16:00	2182c	871.00	725.00	9:28:00	1738.00	1445.00	0.830
2183c	868.00	708.00	10:34:00	2184c	872.00	721.00	10:43:00	1740.00	1429.00	0.820
2185c	871.00	710.00	10:56:00	2186c	872.00	715.00	11:05:00	1743.00	1425.00	0.820
2187c	866.00	704.00	12:59:00	2188c	878.00	715.00	13:07:00	1744.00	1419.00	0.810
2189c	872.00	720.00	13:14:00	2190c	866.00	710.00	13:24:00	1738.00	1430.00	0.820
2191c	870.00	705.00	14:32:00	2192c	870.00	710.00	14:50:00	1740.00	1415.00	0.810
2193c	870.00	705.00	15:17:00	2194c	870.00	705.00	15:33:00	1740.00	1410.00	0.810
2195c	893.00	736.00	17:48:00	2196c	885.00	751.00	18:01:00	1778.00	1487.00	0.840
2197c	870.00	705.00	18:15:00	2198c	862.00	727.00	18:25:00	1732.00	1432.00	0.830
2199c	870.00	708.00	19:13:00	2200c	870.00	709.00	19:31:00	1740.00	1417.00	0.810
2201c	865.00	708.00	19:50:00	2202c	872.00	712.00	20:02:00	1737.00	1420.00	0.820
2203c	870.00	709.00	20:20:00	2204c	870.00	708.00	20:30:00	1740.00	1417.00	0.810
2205c	870.00	708.00	20:50:00	2206c	868.00	710.00	20:58:00	1738.00	1418.00	0.820
							TOTAL:	31336.00	25706.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-12
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2207c	872.00	716.00	21:38:00	2208c	870.00	705.00	21:49:00	1742.00	1421.00	0.820
2209c	866.00	709.00	22:04:00	2210c	870.00	710.00	22:11:00	1736.00	1419.00	0.820
2211c	869.00	708.00	23:17:00	2212c	871.00	710.00	23:25:00	1740.00	1418.00	0.810
2213c	873.00	705.00	23:40:00	2214c	870.00	708.00	23:47:00	1743.00	1413.00	0.810
2215c	872.00	709.00	0:12:00	2216c	871.00	710.00	0:23:00	1743.00	1419.00	0.810
2217c	869.00	712.00	0:36:00	2218c	870.00	708.00	0:47:00	1739.00	1420.00	0.820
2219c	870.00	707.00	1:37:00	2220c	868.00	709.00	1:44:00	1738.00	1416.00	0.810
2221c	873.00	708.00	1:55:00	2222c	869.00	710.00	2:03:00	1742.00	1418.00	0.810
2223c	873.00	707.00	3:03:00	2224c	874.00	712.00	3:15:00	1747.00	1419.00	0.810
2225c	873.00	706.00	3:30:00	2226c	874.00	708.00	3:38:00	1747.00	1414.00	0.810
2227c	870.00	710.00	4:24:00	2228c	868.00	707.00	4:31:00	1738.00	1417.00	0.820
2229c	873.00	708.00	5:00:00	2230c	871.00	710.00	5:09:00	1744.00	1418.00	0.810
							TOTAL:	20899.00	17012.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-12
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2196b	214.30	3364.00	5:40:00	15.70
2198b	215.70	3400.00	6:28:00	15.76
2200b	224.70	3538.00	7:54:00	15.75
2202b	218.40	3462.00	8:19:00	15.85
2204b	225.80	3558.00	8:59:00	15.76
2206b	226.50	3596.00	9:57:00	15.88
2208b	209.80	3348.00	10:38:00	15.96
2210b	225.20	3558.00	11:00:00	15.80
2212b	218.90	3440.00	12:57:00	15.71
2214b	222.00	3510.00	13:20:00	15.81
2216b	219.50	3438.00	14:36:00	15.66
2218b	222.20	3506.00	15:19:00	15.78
2220b	209.60	3330.00		15.89
2222b	217.90	3450.00	18:18:00	15.83
2224b	219.80	3464.00	19:15:00	15.76
2226b	211.60	3348.00	19:54:00	15.82
2228b	213.90	3364.00	20:23:00	15.73
2230b	218.20	3446.00	20:54:00	15.79
TOTAL:	3934.00	62120.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-12
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2232b	217.10	3440.00	21:44:00	15.85
2234b	213.50	3348.00	22:06:00	15.68
2236b	212.20	3362.00	23:19:00	15.84
2238b	220.40	3486.00	23:42:00	15.82
2240b	220.10	3470.00	0:19:00	15.77
2242b	208.40	3310.00	0:40:00	15.88
2244b	215.20	3412.00	1:38:00	15.86
2246b	213.20	3366.00	1:58:00	15.79
2248b	216.80	3350.00	3:06:00	15.45
2250b	211.10	3344.00	3:32:00	15.84
2252b	216.80	3422.00	4:27:00	15.78
2254b	209.50	3324.00	4:58:00	15.87
TOTAL:	2574.30	40634.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-12
Project	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2196t	737	717			3610.0	1913.0	5523.0	4.8	2171c	2172c	2196b
2198t	737	717			3560.0	1914.0	5474.0	4.8	2173c	2174c	2198b
2200t	697	693			3620.0	1912.9	5532.9	4.8	2175c	2176c	2200b
2202t	697	693			3550.0	1924.8	5474.8	4.8	2177c	2178c	2202b
2204t	697	677			3600.0	1917.2	5517.2	4.8	2179c	2180c	2204b
2206t	693	677			3580.0	1927.7	5507.7	4.8	2181c	2182c	2206b
2208t					3530.0	1918.1	5448.1	4.8	2183c	2184c	2208b
2210t					3560.0	1917.1	5477.1	4.8	2185c	2186c	2210b
2212t	677	673			3600.0	1913.7	5513.7	4.8	2187c	2188c	2212b
2214t	677	673			3530.0	1917.7	5447.7	4.8	2189c	2190c	2214b
2216t					3560.0	1908.8	5468.8	4.8	2191c	2192c	2216b
2218t					3480.0	1905.4	5385.4	4.8	2193c	2194c	2218b
2220t	809				3540.0	1977.9	5517.9	4.8	2195c	2196c	2220b
2222t	809				3520.0	1915.7	5435.7	4.8	2197c	2198c	2222b
2224t	809	805	801		3529.0	1910.1	5439.1	4.8	2199c	2200c	2224b
2226t	809	805	801		3590.0	1910.5	5500.5	4.8	2201c	2202c	2226b
2228t	801				3610.0	1910.1	5520.1	4.8	2203c	2204c	2228b
2230t	801				3555.0	1909.7	5464.7	4.8	2205c	2206c	2230b
						TOTAL:	98648.6				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-12
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2232t	801	765			3605.0	1913.9	5518.9	4.8	2207c	2208c	2232b
2234t	801	765			3562.0	1909.2	5471.2	4.8	2209c	2210c	2234b
2236t	765	761			3605.0	1910.8	5515.8	4.8	2211c	2212c	2236b
2238t	765	761			3595.0	1909.1	5504.1	4.8	2213c	2214c	2238b
2240t	761	611			3610.0	1913.1	5523.1	4.8	2215c	2216c	2240b
2242t	761	611			3568.0	1911.6	5479.6	4.8	2217c	2218c	2242b
2244t	665	611	669		3608.0	1908.3	5516.3	4.8	2219c	2220c	2244b
2246t	665	611	669		3584.0	1911.9	5495.9	4.8	2221c	2222c	2246b
2248t	669	705			3562.0	1915.3	5477.3	4.8	2223c	2224c	2248b
2250t	669	705			3524.0	1912.0	5436.0	4.8	2225c	2226c	2250b
2252t	705	709			3587.0	1909.0	5496.0	4.8	2227c	2228c	2252b
2254t	705	709			3605.0	1913.0	5518.0	4.8	2229c	2230c	2254b
						TOTAL:	65952.3				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-12
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
						TOTAL:					

NOTES

TOP UPS

Tanks:		**Piles:**
2208t	2210t	647, 651, 655, 697, 693, 717
2220t	2222t	757, 769, 773
2228t	2230t	717, 737, 697, 693, 677
2232t	2234t	757, 673, 733, 769
2236t	2238t	801, 805, 809
2248t	2250t	611

HFDI Production Control

Project Number	1814	**Date**	2018-11-12
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	15	149.81	114.32	164.60	43.98%

Daily pile Completion:	1.52%	**Daily Cement used in KG**	52235.00
Piles Poured to Date:	596	**Total Cement used to date KG**	1974695.00
Daily L/M of Drilling:	153.17	**Daily Bentonite used in KG**	6508.30
		Total Bentonite used in KG	241782.00
		Daily Water consumption	145472.00
		Total Water Consumption	5277301.00

HFDI Representative: Alex Zapantis (Name) _____ (Signature)

KCG Representative: Damien Gagnon (Name) _____ (Signature)

2018-11-13 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-11-13	Shift: 24hr
		Site Conditions: -34C during day, -36C at night	

FOREMAN'S SAFETY/ QUALITY MEETING

Discussion of workplace professionalism and respect to others
Proper use of work cards
Using caution around open holes in light of recent incidents

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Minor repairs to drill rigs
Welding repair on drilling tools
Poruded grout, poured piles, drilled piles, hammer rock sockets

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-13
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0651	Night	Night	10	9.30	9.70	10.48	10.30	1
0655	Night	Night	10	8.70	9.50	9.92	9.70	1
0659	Night	Night	11	9.30	9.80	10.49	10.30	1
0667	Night	Night	10	9.40	9.70	10.62	10.40	1
0671	Night	Night	11	9.80	10.10	11.35	10.30	1
0683		Night	11	9.70	9.80	11.53	10.76	1.5
0687		Day	10	9.20	9.30	10.30	10.13	1.5
0701		Day	10	9.60	9.60	10.70	10.42	1.5
0729		Day	10	8.85	9.35	10.15	9.95	3
0741	Day	Day	11	9.10	9.90	10.45	10.30	2
0749	Day	Day	10	8.69	9.43	10.00	9.82	2
0753		Day	11	8.70	9.00	9.90	9.63	1.5
0789	Day	Night	10	7.75	8.80	9.21	8.87	1
0793	Day	Night	10	7.65	8.35	9.44	8.77	1
0797	Day	Night	10	7.60	8.20	8.93	8.65	1
0813	Day	Night	10	6.80	7.50	8.30	7.84	1.5
0829	Night		10	6.70	7.50			
0833	Night		10	6.60	7.30			
					TOTAL	161.77		

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-13
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0849	Night	Night	10	6.60	7.30	8.03	7.88	1
0853	Night	Night	10	6.50	7.50	8.07	7.89	1
0857	Night	Night	10	6.50	7.30	8.03	7.88	1
					TOTAL	24.13		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-13
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2231c	870.00	705.00	5:30:00	2232c	869.00	709.00	5:46:00	1739.00	1414.00	0.813
2233c	870.00	705.00	6:14:00	2234c	870.00	705.00	6:22:00	1740.00	1410.00	0.810
2235c	870.00	705.00	7:11:00	2236c	870.00	705.00	7:20:00	1740.00	1410.00	0.810
2237c	870.00	705.00	7:44:00	2238c	870.00	705.00	7:54:00	1740.00	1410.00	0.810
2239c	875.00	700.00	8:31:00	2240c	875.00	700.00	8:41:00	1750.00	1400.00	0.800
2241c	875.00	700.00	8:50:00	2242c	875.00	700.00	9:03:00	1750.00	1400.00	0.800
2243c	875.00	700.00	9:59:00	2244c	875.00	700.00	10:08:00	1750.00	1400.00	0.800
2245c	875.00	700.00	10:21:00	2246c	875.00	700.00	10:34:00	1750.00	1400.00	0.800
2247c	875.00	700.00	11:12:00	2248c	875.00	700.00	11:22:00	1750.00	1400.00	0.800
2249c	875.00	700.00	11:38:00	2250c	875.00	700.00	11:49:00	1750.00	1400.00	0.800
2251c	875.00	700.00	12:32:00	2252c	875.00	700.00	12:42:00	1750.00	1400.00	0.800
2253c	875.00	700.00	12:55:00	2254c	875.00	700.00	13:04:00	1750.00	1400.00	0.800
2255c	875.00	700.00	14:07:00	2256c	875.00	700.00	14:17:00	1750.00	1400.00	0.800
2257c	875.00	700.00	14:28:00	2258c	875.00	700.00	14:42:00	1750.00	1400.00	0.800
2259c	875.00	700.00	15:10:00	2260c	875.00	700.00	15:23:00	1750.00	1400.00	0.800
2261c	875.00	700.00	15:52:00	2262c	875.00	700.00	16:02:00	1750.00	1400.00	0.800
2263c	875.00	700.00	16:46:00	2264c	875.00	700.00	16:55:00	1750.00	1400.00	0.800
2265c	875.00	700.00	17:13:00	2266c	875.00	700.00	17:25:00	1750.00	1400.00	0.800
							TOTAL:	31459.00	25244.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-13
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2267c	870.00	704.00	19:02:00	2268c	865.00	710.00	19:10:00	1735.00	1414.00	0.815
2269c	872.00	708.00	19:29:00	2270c	870.00	706.00	19:39:00	1742.00	1414.00	0.812
2271c	869.00	709.00	20:17:00	2272c	872.00	710.00	20:30:00	1741.00	1419.00	0.815
2273c	870.00	708.00	20:54:00	2274c	874.00	709.00	21:01:00	1744.00	1417.00	0.813
2275c	868.00	708.00	21:29:00	2276c	876.00	710.00	21:38:00	1744.00	1418.00	0.813
2277c	868.00	712.00	21:49:00	2278c	869.00	704.00	21:58:00	1737.00	1416.00	0.815
2279c	868.00	708.00	22:47:00	2280c	878.00	712.00	22:54:00	1746.00	1420.00	0.813
2281c	873.00	710.00	23:10:00	2282c	878.00	708.00	23:18:00	1751.00	1418.00	0.810
2283c	867.00	711.00	23:52:00	2284c	873.00	706.00	0:00:00	1740.00	1417.00	0.814
2285c	870.00	710.00	0:11:00	2286c	862.00	704.00	0:21:00	1732.00	1414.00	0.816
2287c	873.00	708.00	1:04:00	2288c	872.00	710.00	1:10:00	1745.00	1418.00	0.813
2289c	869.00	706.00	1:21:00	2290c	868.00	708.00	1:27:00	1737.00	1414.00	0.814
2291c	876.00	707.00	2:16:00	2292c	875.00	713.00	2:22:00	1751.00	1420.00	0.811
2293c	872.00	705.00	2:34:00	2294c	876.00	710.00	2:41:00	1748.00	1415.00	0.809
2295c	870.00	708.00	3:25:00	2296c	878.00	714.00	3:31:00	1748.00	1422.00	0.814
2297c	873.00	710.00	3:45:00	2298c	870.00	705.00	3:51:00	1743.00	1415.00	0.812
							TOTAL:	27884.00	22671.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-13
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2256b	217.60	3418.00	5:40:00	15.71
2258b	211.20	3310.00	6:13:00	15.67
2260b	220.80	3478.00	7:13:00	15.75
2262b	217.50	3466.00	7:45:00	15.94
2264b	213.70	3366.00	8:35:00	15.75
2266b	217.00	3440.00	9:00:00	15.85
2268b	223.50	3520.00	9:57:00	15.75
2270b	225.30	3554.00	10:24:00	15.77
2272b	223.50	3538.00	11:15:00	15.83
2274b	225.30	3578.00	11:42:00	15.88
2276b	221.00	3500.00	12:30:00	15.84
2278b	225.80	3556.00	12:59:00	15.75
2280b	224.90	3548.00	14:09:00	15.78
2282b	223.90	3538.00	14:34:00	15.80
2284b	222.40	3540.00	15:15:00	15.92
2286b	231.30	3650.00	15:49:00	15.78
2288b	227.50	3590.00	16:50:00	15.78
2290b	218.60	3470.00	17:17:00	15.87
TOTAL:	3990.80	63060.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-13
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2292b	219.20	3466.00	19:04:00	15.81
2294b	247.20	3908.00	19:33:00	15.81
2296b	218.20	3452.00	20:26:00	15.82
2298b	224.00	3538.00	20:55:00	15.79
2300b	212.10	3360.00	21:31:00	15.84
2302b	247.90	3908.00	21:52:00	15.76
2304b	207.10	3282.00	22:50:00	15.85
2306b	226.30	3562.00	23:12:00	15.74
2308b	215.60	3422.00	23:54:00	15.87
2310b	217.30	3456.00	0:15:00	15.90
2312b	216.60	3430.00	1:07:00	15.84
2314b	209.60	3300.00	1:27:00	15.74
2316b	227.00	3606.00	2:18:00	15.89
2318b	218.80	3468.00	2:36:00	15.85
2320b	218.90	3470.00	3:30:00	15.85
2322b	219.70	3472.00	3:47:00	15.80
TOTAL:	3545.50	56100.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-13
Project	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2256t	709				3514.0	1907.6	5421.6	4.8	2231c	2232c	2256b
2258t	709				3540.0	1905.4	5445.4	4.8	2233c	2234c	2258b
2260t	713				3560.0	1905.4	5465.4	4.8	2235c	2236c	2260b
2262t	713				3550.0	1905.4	5455.4	4.8	2237c	2238c	2262b
2264t					3500.0	1904.3	5404.3	4.8	2239c	2240c	2264b
2266t					3620.0	1904.3	5524.3	4.8	2241c	2242c	2266b
2268t	713	733			3610.0	1904.3	5514.3	4.8	2243c	2244c	2268b
2270t	713	733			3580.0	1904.3	5484.3	4.8	2245c	2246c	2270b
2272t	701				3570.0	1904.3	5474.3	4.8	2247c	2248c	2272b
2274t	701				3640.0	1904.3	5544.3	4.8	2249c	2250c	2274b
2276t	701	777			3640.0	1904.3	5544.3	4.8	2251c	2252c	2276b
2278t	701	777			3650.0	1904.3	5554.3	4.8	2253c	2254c	2278b
2280t	777	781			3530.0	1904.3	5434.3	4.8	2255c	2256c	2280b
2282t	777	781			3620.0	1904.3	5524.3	4.8	2257c	2258c	2282b
2284t	781	785			3600.0	1904.3	5504.3	4.8	2259c	2260c	2284b
2286t	781	785			3560.0	1904.3	5464.3	4.8	2261c	2262c	2286b
2288t	817	821			3560.0	1904.3	5464.3	4.8	2263c	2264c	2288b
2290t	817	821			3580.0	1904.3	5484.3	4.8	2265c	2266c	2290b
						TOTAL:	98708.1				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-13
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2292t	753				3580.0	1905.3	5485.3	4.8	2267c	2268c	2292b
2294t	753				3604.0	1909.2	5513.2	4.8	2269c	2270c	2294b
2296t	741	749			3553.0	1912.0	5465.0	4.8	2271c	2272c	2296b
2298t	741	749			3520.0	1912.3	5432.3	4.8	2273c	2274c	2298b
2300t	741	729			3570.0	1913.0	5483.0	4.8	2275c	2276c	2300b
2302t	741	729			3610.0	1907.8	5517.8	4.8	2277c	2278c	2302b
2304t	729	687			3555.0	1915.4	5470.4	4.8	2279c	2280c	2304b
2306t	729	687			3608.0	1916.9	5524.9	4.8	2281c	2282c	2306b
2308t	687				3584.0	1910.1	5494.1	4.8	2283c	2284c	2308b
2310t	687				3595.0	1903.7	5498.7	4.8	2285c	2286c	2310b
2312t	857				3548.0	1913.6	5461.6	4.8	2287c	2288c	2312b
2314t	857				3566.0	1906.5	5472.5	4.8	2289c	2290c	2314b
2316t	857	853	849		3582.0	1918.2	5500.2	4.8	2291c	2292c	2316b
2318t	857	853	849		3556.0	1913.2	5469.2	4.8	2293c	2294c	2318b
2320t	849	813			3558.0	1917.9	5475.9	4.8	2295c	2296c	2320b
2322t	849	813			3560.0	1910.4	5470.4	4.8	2297c	2298c	2322b
						TOTAL:	87734.6				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-13
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
						TOTAL:					

NOTES

TOP UPS

Tanks:		**Piles:**
2256t	2258t	757, 765, 761, 611, 669, 665
2260t	2262t	705
2264t	2266t	705, 701, 677
2288t	2290t	781, 777, 761
2296t	2298t	733
2308t	2310t	821, 817, 726, 733, 741
2312t	2314t	741, 749, 753, 777, 781, 785

HFDI Production Control

Project Number	1814	**Date**	2018-11-13
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	17	158.69	121.22	186.44	53.81%

Daily pile Completion:	1.73%	**Daily Cement used in KG**	59343.00
Piles Poured to Date:	614	**Total Cement used to date KG**	2034038.00
Daily L/M of Drilling:	185.90	**Daily Bentonite used in KG**	7536.30
		Total Bentonite used in KG	349318.00
		Daily Water consumption	167075.00
		Total Water Consumption	5444376.00

HFDI Representative: Alex Zapantis (Name)  (Signature)

KCG Representative: Damien Gagnon (Name)  (Signature)

2018-11-14 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-11-14	Shift: 24hr
		Site Conditions: -39C, light breeze	

FOREMAN'S SAFETY/ QUALITY MEETING

Mixing Grout - silica exposure, grout burns - wear proper PPE

Drilling - Open holes, tight areas, conflicting equipment - proper covering procedures, use a spotter

Rock hammer - High air pressure in lines - whip checks, open valves slowly, regular inspections

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Produced grout, poured piles, drilled piles, rock hammered sockets

Minor repair work/ troubleshooting in batch plant with burnt out relays on cement silo

Welding repair work on spare rock hammer

Looked into lube truck and made adapted grease gun to be loaded by the truck

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-14
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0675	Night	Night	12	10.00	10.50	11.33	11.00	1
0679	Night	Night	11	10.30	10.50	11.40	11.30	1.5
0691	Night	Night	10	9.00	9.50	10.30	10.02	1.5
0695	Night	Night	10	9.00	9.40	10.31	10.13	1
0719	Day	Day	11	9.20	9.90	10.50	10.30	2
0759	Day	Day	10	8.40	9.00	9.55	9.46	2
0763	Day	Day	10	8.80	9.30	9.72	9.55	2
0767	Night		10	8.15	8.90			
0771	Night		10	8.10	8.80			
0775	Night		10	8.20	8.90			
0783	Night		10	7.80	8.40			
0803	Day	Day	10	7.20	8.40	8.55	8.35	1
0807	Day	Day	10	6.95	7.85	8.25	8.06	1
0825	Day	Day	10	6.80	8.01	8.40	8.18	1
0829		Day	10	6.70	7.50	8.25	8.13	1
0833		Day	10	6.60	7.30	8.05	7.89	2
0837	Night		10	6.60	7.40			
					TOTAL	114.61		

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	**Date**	2018-11-14
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0841	Night	Night	10	6.60	7.00	8.20	7.90	1
0845	Night	Night	10	6.90	7.75	8.31	8.04	1
					TOTAL	16.51		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-14
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2299c	875.00	708.00	4:30:00	2300c	875.00	705.00	4:37:00	1750.00	1413.00	0.807
2301c	875.00	700.00	7:24:00	2302c	875.00	700.00	7:35:00	1750.00	1400.00	0.800
2303c	875.00	700.00	7:49:00	2304c	875.00	700.00	8:02:00	1750.00	1400.00	0.800
2305c	875.00	700.00	8:54:00	2306c	875.00	700.00	9:09:00	1750.00	1400.00	0.800
2307c	875.00	700.00	9:29:00	2308c	875.00	700.00	9:39:00	1750.00	1400.00	0.800
2309c	875.00	700.00	10:07:00	2310c	875.00	700.00	11:03:00	1750.00	1400.00	0.800
2311c	875.00	700.00	11:13:00	2312c	875.00	700.00	11:23:00	1750.00	1400.00	0.800
2313c	875.00	700.00	11:47:00	2314c	875.00	700.00	12:02:00	1750.00	1400.00	0.800
2315c	875.00	700.00	12:17:00	2316c	875.00	700.00	12:27:00	1750.00	1400.00	0.800
2317c	875.00	700.00	13:20:00	2318c	875.00	700.00	13:36:00	1750.00	1400.00	0.800
2319c	875.00	700.00	13:44:00	2320c	875.00	700.00	13:53:00	1750.00	1400.00	0.800
2321c	875.00	700.00	14:37:00	2322c	875.00	700.00	15:01:00	1750.00	1400.00	0.800
2323c	875.00	700.00	15:15:00	2324c	875.00	700.00	15:24:00	1750.00	1400.00	0.800
2325c	875.00	700.00	16:03:00	2326c	875.00	700.00	16:22:00	1750.00	1400.00	0.800
2327c	875.00	700.00	16:31:00	2328c	875.00	700.00	16:38:00	1750.00	1400.00	0.800
2329c	875.00	700.00	17:15:00	2330c	875.00	700.00	17:26:00	1750.00	1400.00	0.800
2331c	875.00	700.00	17:34:00	2332c	875.00	700.00	17:41:00	1750.00	1400.00	0.800
2333c	873.00	709.00	18:51:00	2334c	872.00	710.00	18:57:00	1745.00	1419.00	0.813
							TOTAL:	31495.00	25232.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-14
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2335c	872.00	708.00	19:14:00	2336c	873.00	710.00	19:22:00	1745.00	1418.00	0.813
2337c	870.00	708.00	20:15:00	2338c	871.00	708.00	20:26:00	1741.00	1416.00	0.813
2339c	872.00	708.00	20:38:00	2340c	870.00	710.00	20:47:00	1742.00	1418.00	0.814
2341c	872.00	709.00	21:21:00	2342c	871.00	709.00	21:28:00	1743.00	1418.00	0.814
2343c	870.00	708.00	21:44:00	2344c	870.00	709.00	21:55:00	1740.00	1417.00	0.814
2345c	872.00	710.00	22:17:00	2346c	871.00	708.00	22:26:00	1743.00	1418.00	0.814
2347c	871.00	707.00	22:38:00	2348c	871.00	708.00	22:47:00	1742.00	1415.00	0.812
2349c	870.00	710.00	23:24:00	2350c	868.00	707.00	23:31:00	1738.00	1417.00	0.815
2351c	870.00	708.00	23:43:00	2352c	870.00	708.00	23:54:00	1740.00	1416.00	0.814
2353c	875.00	705.00	0:52:00	2354c	875.00	705.00	0:58:00	1750.00	1410.00	0.806
2355c	876.00	708.00	1:09:00	2356c	874.00	709.00	1:16:00	1750.00	1417.00	0.810
2357c	875.00	708.00	2:04:00	2358c	874.00	710.00	2:10:00	1749.00	1418.00	0.811
2359c	872.00	708.00	2:22:00	2360c	874.00	708.00	2:29:00	1746.00	1416.00	0.811
2361c	870.00	708.00	3:37:00	2362c	876.00	709.00	3:45:00	1746.00	1417.00	0.812
2363c	873.00	709.00	3:55:00	2364c	875.00	705.00	4:02:00	1748.00	1414.00	0.809
							TOTAL:	26163.00	21245.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-14
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2324b	221.00	3498.00	4:31:00	15.83
2326b	181.70	2866.00	7:32:00	15.77
2328b	217.10	3428.00	7:52:00	15.79
2330b	214.60	3402.00	8:50:00	15.85
2332b	223.90	3556.00	9:23:00	15.88
2334b	214.60	3402.00	10:13:00	15.85
2336b	217.20	3448.00	11:15:00	15.87
2338b	229.30	3630.00	11:56:00	15.83
2340b	227.10	3590.00	12:19:00	15.81
2342b	229.20	3632.00	13:17:00	15.85
2344b	225.70	3562.00	13:40:00	15.78
2346b	217.90	3446.00	14:39:00	15.81
2348b	225.30	3568.00	15:18:00	15.84
2350b	224.00	3528.00	15:58:00	15.75
2352b	224.90	3574.00	16:29:00	15.89
2354b	222.80	3504.00	17:13:00	15.73
2356b	223.60	3532.00	17:37:00	15.80
2358b	221.90	3508.00	18:53:00	15.81
TOTAL:	3961.80	62674.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-14
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2360b	216.30	3426.00	19:17:00	15.84
2362b	213.90	3386.00	20:17:00	15.83
2364b	226.00	3590.00	20:40:00	15.88
2366b	218.20	3454.00	21:23:00	15.83
2368b	222.10	3502.00	21:46:00	15.77
2370b	215.80	3408.00	22:19:00	15.79
2372b	226.50	3586.00	22:40:00	15.83
2374b	217.60	3450.00	23:26:00	15.85
2376b	212.60	3388.00	23:47:00	15.94
2378b	220.80	3492.00	0:55:00	15.82
2380b	220.10	3488.00	1:14:00	15.85
2382b	218.30	3430.00	2:06:00	15.71
2384b	220.10	3466.00	2:25:00	15.75
2386b	215.00	3410.00	3:39:00	15.86
2388b	211.40	3338.00	3:59:00	15.79
TOTAL:	3274.70	51814.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-14
Project	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2324t					3603.0	1913.0	5516.0	4.8	2299c	2300c	2324b
2326t	TOP UP ONLY				3510.0	1904.3	5414.3	4.8	2301c	2302c	2326b
2328t					3520.0	1904.3	5424.3	4.8	2303c	2304c	2328b
2330t	797	793	789		3610.0	1904.3	5514.3	4.8	2305c	2306c	2330b
2332t	797	793	789		3560.0	1904.3	5464.3	4.8	2307c	2308c	2332b
2334t	789				3480.0	1904.3	5384.3	4.8	2309c	2310c	2334b
2336t	789				3570.0	1904.3	5474.3	4.8	2311c	2312c	2336b
2338t	683	671			3680.0	1904.3	5584.3	4.8	2313c	2314c	2338b
2340t	683	671			3650.0	1904.3	5554.3	4.8	2315c	2316c	2340b
2342t	671	667			3640.0	1904.3	5544.3	4.8	2317c	2318c	2342b
2344t	671	667			3580.0	1904.3	5484.3	4.8	2319c	2320c	2344b
2346t	667				3525.0	1904.3	5429.3	4.8	2321c	2322c	2346b
2348t	667				3550.0	1904.3	5454.3	4.8	2323c	2324c	2348b
2350t	671	659			3640.0	1904.3	5544.3	4.8	2325c	2326c	2350b
2352t	671	659			3615.0	1904.3	5519.3	4.8	2327c	2328c	2352b
2354t	655	651			3620.0	1904.3	5524.3	4.8	2329c	2330c	2354b
2356t	655	651			3610.0	1904.3	5514.3	4.8	2331c	2332c	2356b
2358t	651				3512.0	1914.2	5426.2	4.8	2333c	2334c	2358b
						TOTAL:	98771.0				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-14
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2360t	651				3586.0	1913.6	5499.6	4.8	2335c	2336c	2360b
2362t	833	829			3584.0	1910.0	5494.0	4.8	2337c	2338c	2362b
2364t	833	829			3695.0	1911.9	5606.9	4.8	2339c	2340c	2364b
2366t	829	825			3604.0	1912.4	5516.4	4.8	2341c	2342c	2366b
2368t	829	825			3584.0	1910.1	5494.1	4.8	2343c	2344c	2368b
2370t	825	807			3528.0	1912.4	5440.4	4.8	2345c	2346c	2370b
2372t	825	807			3547.0	1909.9	5456.9	4.8	2347c	2348c	2372b
2374t	807	803			3555.0	1909.0	5464.0	4.8	2349c	2350c	2374b
2376t	807	803			3603.0	1909.5	5512.5	4.8	2351c	2352c	2376b
2378t	763				3580.0	1911.0	5491.0	4.8	2353c	2354c	2378b
2380t	763				3603.0	1915.7	5518.7	4.8	2355c	2356c	2380b
2382t	759				3602.0	1915.8	5517.8	4.8	2357c	2358c	2382b
2384t	759				3554.0	1912.8	5466.8	4.8	2359c	2360c	2384b
2386t	TOP UP ONLY				3602.0	1913.4	5515.4	4.8	2361c	2362c	2386b
2388t					3507.0	1912.5	5419.5	4.8	2363c	2364c	2388b
						TOTAL:	82414.0				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-14
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
						TOTAL:					

NOTES

TOP UPS

Tanks:		**Piles:**
2334t	2336t	849, 853, 857
2358t	2360t	683, 667, 659, 655
2366t	2368t	789, 793, 797
2386t	2388t	833, 829, 825, 807, 803

HFDI Production Control

Project Number	1814	**Date**	2018-11-14
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	16	152.74	116.66	181.19	55.31%

Daily pile Completion:	1.63%	**Daily Cement used in KG**	57658.00
Piles Poured to Date:	630	**Total Cement used to date KG**	2091696.00
Daily L/M of Drilling:	131.12	**Daily Bentonite used in KG**	7236.50
		Total Bentonite used in KG	356555.00
		Daily Water consumption	160965.00
		Total Water Consumption	5605341.00

HFDI Representative: Alex Zapantis (Name) — (Signature)

KCG Representative: Maxime Gauthier-Wong (Name) — Maxime Gauthier-Wong (Signature)

2018-11-15 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-11-15	Shift: 24hr
		Site Conditions: -36C, light wind, clear	

FOREMAN'S SAFETY/ QUALITY MEETING

Drilling & Grouting piles - cover holes and make visible
Rock Hammer - flying debris - stay out of fall zone
Welding & fabrications - burns, sparks, arc flash - proper PPE

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Prouce grout, pour piles, drill piles, rock hammer
BG30 #2 died early on day shift - mechanic was looking over it all day and used the computer in the afternoon but it was not working
Hose blew on hose pump in skid so had it swapped out with the trailer while the skid gets repaired

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-15
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0663	Night	Night	10	9.00	9.60	10.26	10.03	1
0715	Day	Day	11	9.53	10.20	10.85	10.60	1
0723	Night		11	8.70	9.30			
0731	Day	Day	10	8.80	9.75	10.40	10.25	1
0735	Day	Day	10	8.90	9.65	10.45	10.30	2
0745	Day	Day	11	8.90	9.85	10.60	10.45	2
0767		Day	10	8.15	8.90	9.45	9.39	1
0771		Day	10	8.10	8.80	9.50	9.37	2
0775		Day	10	8.20	8.90	9.50	9.34	1
0779			10	7.90	8.60			
0783		Day	10	7.80	8.40	9.35	9.06	2
0787	Night		10	7.70	8.30			
0791	Night	Night	10	7.90	8.30	9.40	8.74	2
0795	Night	Night	10	7.40	8.00	9.30	8.86	2
0799	Night	Night	10	7.30	8.00	8.78	8.64	1
0811	Night	Night	10	7.00	7.50	8.41	8.10	1
0815	Night	Night	10	6.70	7.50	8.20	7.86	1
					TOTAL	134.45		

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	**Date**	2018-11-15
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0819	Night	Night	10	7.00	7.50	8.40	8.00	1
0837		Day	10	6.60	7.40	7.90	7.76	1
					TOTAL	16.30		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-15
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2365c	876.00	705.00	4:39:00	2366c	875.00	708.00	4:48:00	1751.00	1413.00	0.807
2367c	874.00	703.00	5:02:00	2368c	875.00	705.00	5:10:00	1749.00	1408.00	0.805
2369c	875.00	700.00	8:37:00	2370c	875.00	700.00	8:48:00	1750.00	1400.00	0.800
2371c	875.00	700.00	9:05:00	2372c	875.00	700.00	9:15:00	1750.00	1400.00	0.800
2373c	875.00	700.00	9:49:00	2374c	875.00	700.00	10:00:00	1750.00	1400.00	0.800
2375c	875.00	700.00	10:16:00	2376c	875.00	700.00	10:28:00	1750.00	1400.00	0.800
2377c	875.00	700.00	11:07:00	2378c	875.00	700.00	11:17:00	1750.00	1400.00	0.800
2379c	875.00	700.00	11:29:00	2380c	875.00	700.00	11:39:00	1750.00	1400.00	0.800
2381c	875.00	700.00	12:29:00	2382c	875.00	700.00	12:44:00	1750.00	1400.00	0.800
2383c	875.00	700.00	12:53:00	2384c	875.00	700.00	13:03:00	1750.00	1400.00	0.800
2385c	875.00	700.00	13:40:00	2386c	875.00	700.00	13:50:00	1750.00	1400.00	0.800
2387c	875.00	700.00	14:00:00	2388c	875.00	700.00	14:10:00	1750.00	1400.00	0.800
2389c	875.00	700.00	14:53:00	2390c	875.00	700.00	15:03:00	1750.00	1400.00	0.800
2391c	875.00	700.00	15:21:00	2392c	875.00	700.00	15:33:00	1750.00	1400.00	0.800
2393c	875.00	700.00	16:08:00	2394c	875.00	700.00	16:18:00	1750.00	1400.00	0.800
2395c	875.00	700.00	16:31:00	2396c	875.00	700.00	16:40:00	1750.00	1400.00	0.800
2397c	875.00	700.00	17:19:00	2398c	875.00	700.00	17:28:00	1750.00	1400.00	0.800
2399c	875.00	700.00	17:37:00	2400c	875.00	700.00	17:47:00	1750.00	1400.00	0.800
							TOTAL:	31500.00	25221.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-15
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2401c	872.00	705.00	18:39:00	2402c	873.00	705.00	18:45:00	1745.00	1410.00	0.808
2403c	875.00	706.00	18:57:00	2404c	872.00	705.00	19:00:00	1747.00	1411.00	0.808
2405c	875.00	705.00	23:15:00	2406c	873.00	705.00	23:25:00	1748.00	1410.00	0.807
2407c	872.00	705.00	23:35:00	2408c	875.00	708.00	23:42:00	1747.00	1413.00	0.809
2409c	875.00	705.00	0:06:00	2410c	875.00	705.00	0:13:00	1750.00	1410.00	0.806
2411c	875.00	705.00	0:28:00	2412c	876.00	706.00	0:34:00	1751.00	1411.00	0.806
2413c	875.00	705.00	1:34:00	2414c	876.00	705.00	1:39:00	1751.00	1410.00	0.805
2415c	875.00	705.00	1:55:00	2416c	872.00	706.00	2:05:00	1747.00	1411.00	0.808
2417c	875.00	705.00	2:41:00	2418c	874.00	705.00	2:51:00	1749.00	1410.00	0.806
2419c	876.00	708.00	3:00:00	2420c	875.00	705.00	3:06:00	1751.00	1413.00	0.807
2421c	875.00	705.00	3:33:00	2422c	876.00	708.00	3:40:00	1751.00	1413.00	0.807
2423c	874.00	705.00	3:49:00	2424c	875.00	704.00	3:58:00	1749.00	1409.00	0.806
							TOTAL:	20986.00	16931.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-15
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2390b	220.00	3482.00	5:05:00	15.83
2392b	221.10	3480.00	5:21:00	15.74
2394b	214.60	3394.00	8:39:00	15.82
2396b	221.20	3492.00	9:09:00	15.79
2398b	229.50	3618.00	9:47:00	15.76
2400b	222.40	3528.00	10:12:00	15.86
2402b	225.60	3570.00	11:04:00	15.82
2404b	224.30	3562.00	11:32:00	15.88
2406b	227.20	3584.00	12:20:00	15.77
2408b	231.00	3618.00	12:52:00	15.66
2410b	224.90	3560.00	13:31:00	15.83
2412b	225.70	3576.00	13:53:00	15.84
2414b	224.50	3544.00	15:01:00	15.79
2416b	220.00	3478.00	15:31:00	15.81
2418b	221.00	3494.00	16:05:00	15.81
2420b	222.60	3526.00	16:34:00	15.84
2422b	223.30	3550.00	17:17:00	15.90
2424b	226.60	3556.00	17:40:00	15.69
TOTAL:	4025.50	63612.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-15
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2426b	203.00	3546.00	18:40:00	17.47
2428b	216.90	3418.00	19:00:00	15.76
2430b	215.80	3396.00	23:17:00	15.74
2432b	219.50	3446.00	23:37:00	15.70
2434b	217.40	3412.00	0:07:00	15.69
2436b	217.30	2418.00	0:30:00	11.13
2438b	216.70	3420.00	1:36:00	15.78
2440b	222.10	3502.00	1:57:00	15.77
2442b	216.00	3402.00	2:43:00	15.75
2444b	215.70	3420.00	3:01:00	15.86
2446b	211.80	3367.00	3:34:00	15.90
2448b	215.90	3404.00	4:40:00	15.77
TOTAL:	2588.10	40151.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-15
Project	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2390t	719	695			3601.0	1913.5	5514.5	4.8	2365c	2366c	2390b
2392t	719	695			3567.8	1909.1	5476.9	4.8	2367c	2368c	2392b
2394t	TOP UP ONLY				3650.0	1904.3	5554.3	4.8	2369c	2370c	2394b
2396t					3630.0	1904.3	5534.3	4.8	2371c	2372c	2396b
2398t	695	691	679		3640.0	1904.3	5544.3	4.8	2373c	2374c	2398b
2400t	695	691	679		3660.0	1904.3	5564.3	4.8	2375c	2376c	2400b
2402t	679	675			3650.0	1904.3	5554.3	4.8	2377c	2378c	2402b
2404t	679	675			3660.0	1904.3	5564.3	4.8	2379c	2380c	2404b
2406t	675				3680.0	1904.3	5584.3	4.8	2381c	2382c	2406b
2408t	675				3620.0	1904.3	5524.3	4.8	2383c	2384c	2408b
2410t	845	841			3660.0	1904.3	5564.3	4.8	2385c	2386c	2410b
2412t	845	841			3650.0	1904.3	5554.3	4.8	2387c	2388c	2412b
2414t	841	837			3620.0	1904.3	5524.3	4.8	2389c	2390c	2414b
2416t	841	837			3570.0	1904.3	5474.3	4.8	2391c	2392c	2416b
2418t	745				3650.0	1904.3	5554.3	4.8	2393c	2394c	2418b
2420t	745				3600.0	1904.3	5504.3	4.8	2395c	2396c	2420b
2422t	TOP UP ONLY				3630.0	1904.3	5534.3	4.8	2397c	2398c	2422b
2424t					3650.0	1904.3	5554.3	4.8	2399c	2400c	2424b
						TOTAL:	99680.3				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-15
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2426t	767				3585.0	1908.2	5493.2	4.8	2401c	2402c	2426b
2428t	767	775			3507.0	1910.0	5417.0	4.8	2403c	2404c	2428b
2430t	771	775			3582.0	1909.9	5491.9	4.8	2405c	2406c	2430b
2432t	771	775			3590.0	1911.3	5501.3	4.8	2407c	2408c	2432b
2434t	775	783			3608.0	1911.0	5519.0	4.8	2409c	2410c	2434b
2436t	775	783			3571.0	1912.2	5483.2	4.8	2411c	2412c	2436b
2438t	783				3545.0	1911.5	5456.5	4.8	2413c	2414c	2438b
2440t	783				3590.0	1910.0	5500.0	4.8	2415c	2416c	2440b
2442t	731				3550.0	1910.4	5460.4	4.8	2417c	2418c	2442b
2444t	731				3548.0	1913.5	5461.5	4.8	2419c	2420c	2444b
2446t	731	715			3554.0	1913.5	5467.5	4.8	2421c	2422c	2446b
2448t	731	715			3603.0	1909.8	5512.8	4.8	2423c	2424c	2448b
						TOTAL:	65764.4				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-15
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
						TOTAL:					

NOTES

TOP UPS

Tanks:		**Piles:**
2394t	2396t	659, 805, 809, 825, 651, 655, 683
2422t	2424t	759, 733, 719, 651, 655, 659, 695, 691, 679, 675
2430t	2432t	837, 841, 845
2434t	2436t	748, 767, 771, 675, 679

HFDI Production Control

Project Number	1814	**Date**	2018-11-15
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	15	147.90	113.05	165.44	46.35%

Daily pile Completion:	1.52%	**Daily Cement used in KG**	52486.00
Piles Poured to Date:	645	**Total Cement used to date KG**	2144182.00
Daily L/M of Drilling:	150.75	**Daily Bentonite used in KG**	6613.60
		Total Bentonite used in KG	363169.00
		Daily Water consumption	145915.00
		Total Water Consumption	5751256.00

HFDI Representative: Alex Zapantis (Name) — (Signature)

KCG Representative: Maxime Gauthier-Wong (Name) — Maxime Gauthier-Wong (Signature)

2018-11-16 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-11-16	Shift: 24hr
		Site Conditions: -37C, clear	

FOREMAN'S SAFETY/ QUALITY MEETING

Hammer drilling - high pressure air - use multiple whip checks, open valves slowly
Working with CB - grout burn, silica exposure - proper PPE
Working on dike - Rough ground conditions, slips trips and falls - watch footing

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Produced grout, poured piles, drilled piles, rock hammered sockets
Worked on greasing for rigs - man lift would not start
Toromont mechanic and HFDI mechanic worked on troubleshooting/ fixing BG30 #2
Empty cement silo for inspection and measurements
Rotary hose on BG30 #1 blew - quickly replaced it and kept moving

DELAYS: Air compressor serviced between 9:20am - 12:40pm - no rock hammering while air compressor was down

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-16
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
699	Night	Night	12	9.50	9.80	10.88	10.59	1
703	Night	Night	12	9.50	9.90	11.00	10.70	1
707	Day		11	9.60	10.20	10.85	10.60	3.5
711	Day	Day	11	9.15	9.65	10.70	10.50	2
723		Day	11	8.70	9.30	9.95	9.83	2
727	Day	Day	10	8.86	9.50	10.10	10.00	2
739	Night	Night	10	9.00	9.60	10.74	10.95	1.5
747	Night		11	8.80	9.30			
755	Day	Day	10	8.42	8.91	9.90	9.70	2.5
779		Day	10	7.90	8.60	9.50	9.20	1
787		Day	10	7.70	8.30	9.30	9.04	1
823	Day	Night	10	7.10	7.90	8.61	8.31	1
827	Day	Night	10	7.00	7.80	8.60	8.29	1
831	Day	Night	10	7.00	7.70	8.50	8.10	1
835	Night		10	6.70	7.50			
839	Night		10	6.80	7.50			
843	Night	Night	10	6.90	7.50	8.40	8.10	1
					TOTAL	137.03		

NOTES

Pile 0739 target depth was displayed at 10.95 however the pile was approved by QC due to a rock depth of 9m

HFDI Production Control - Drill Logs

Project Number	1814	**Date**	2018-11-16
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
847	Night	Night	10	6.90	7.50	8.20	7.95	1
851	Day	Night	10	6.80	7.50	8.20	7.98	1
855	Day	Night	10	6.45	7.80	8.00	7.59	1
					TOTAL	24.40		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-16
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2425c	875.00	705.00	4:37:00	2426c	875.00	706.00	4:44:00	1750.00	1411.00	0.810
2427c	875.00	706.00	5:10:00	2428c	876.00	705.00	5:17:00	1751.00	1411.00	0.810
2429c	875.00	700.00	6:23:00	2430c	875.00	700.00	6:32:00	1750.00	1400.00	0.800
2431c	875.00	700.00	6:42:00	2432c	875.00	700.00	6:53:00	1750.00	1400.00	0.800
2433c	875.00	700.00	7:26:00	2434c	875.00	700.00	7:53:00	1750.00	1400.00	0.800
2435c	875.00	700.00	8:00:00	2436c	875.00	700.00	8:07:00	1750.00	1400.00	0.800
2437c	875.00	700.00	8:30:00	2438c	875.00	700.00	8:43:00	1750.00	1400.00	0.800
2439c	875.00	700.00	8:52:00	2440c	875.00	700.00	8:59:00	1750.00	1400.00	0.800
2441c	875.00	700.00	10:26:00	2442c	875.00	700.00	10:47:00	1750.00	1400.00	0.800
2443c	875.00	700.00	10:59:00	2444c	875.00	700.00	11:14:00	1750.00	1400.00	0.800
2445c	875.00	700.00	11:41:00	2446c	875.00	700.00	12:21:00	1750.00	1400.00	0.800
2447c	875.00	700.00	12:35:00	2448c	875.00	700.00	12:44:00	1750.00	1400.00	0.800
2449c	875.00	700.00	13:34:00	2450c	875.00	700.00	13:43:00	1750.00	1400.00	0.800
2451c	875.00	700.00	13:53:00	2452c	875.00	700.00	14:13:00	1750.00	1400.00	0.800
2453c	875.00	700.00	14:45:00	2454c	875.00	700.00	14:53:00	1750.00	1400.00	0.800
2455c	875.00	700.00	15:07:00	2456c	875.00	700.00	15:17:00	1750.00	1400.00	0.800
2457c	875.00	700.00	15:58:00	2458c	875.00	700.00	16:06:00	1750.00	1400.00	0.800
2459c	875.00	700.00	16:18:00	2460c	875.00	700.00	16:27:00	1750.00	1400.00	0.800
							TOTAL:	31501.00	25222.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-16
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2461c	875.00	700.00	17:28:00	2462c	875.00	700.00	17:35:00	1750.00	1400.00	0.800
2463c	875.00	700.00	17:46:00	2464c	875.00	700.00	17:55:00	1750.00	1400.00	0.800
2465c	875.00	705.00	18:52:00	2466c	875.00	705.00	19:00:00	1750.00	1410.00	0.810
2467c	875.00	705.00	19:10:00	2468c	875.00	705.00	19:22:00	1750.00	1410.00	0.810
2469c	875.00	705.00	20:04:00	2470c	875.00	705.00	20:13:00	1750.00	1410.00	0.810
2471c	875.00	705.00	20:37:00	2472c	875.00	705.00	20:50:00	1750.00	1410.00	0.810
2473c	875.00	705.00	21:18:00	2474c	875.00	705.00	21:26:00	1750.00	1410.00	0.810
2475c	875.00	705.00	21:45:00	2476c	875.00	705.00	21:52:00	1750.00	1410.00	0.810
2477c	874.00	706.00	22:26:00	2478c	876.00	707.00	22:34:00	1750.00	1413.00	0.810
2479c	874.00	703.00	22:44:00	2480c	875.00	706.00	22:51:00	1749.00	1409.00	0.810
2481c	876.00	704.00	23:18:00	2482c	875.00	706.00	23:24:00	1751.00	1410.00	0.810
2483c	876.00	705.00	23:35:00	2484c	874.00	704.00	23:44:00	1750.00	1409.00	0.810
2485c	874.00	706.00	0:14:00	2486c	875.00	704.00	0:20:00	1749.00	1410.00	0.810
2487c	877.00	705.00	0:30:00	2488c	878.00	705.00	0:40:00	1755.00	1410.00	0.800
2489c	875.00	705.00	1:25:00	2490c	876.00	706.00	1:31:00	1751.00	1411.00	0.810
2491c	874.00	707.00	1:42:00	2492c	873.00	704.00	1:51:00	1747.00	1411.00	0.810
2493c	875.00	706.00	3:48:00	2494c	876.00	705.00	3:54:00	1751.00	1411.00	0.810
2495c	874.00	704.00	4:04:00	2496c	877.00	705.00	4:14:00	1751.00	1409.00	0.800
							TOTAL:	31504.00	25363.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-16
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2497c	874.00	706.00	4:33:00	2498c	875.00	704.00	4:40:00	1749.00	1410.00	0.810
2499c	875.00	705.00	4:56:00	2500c	876.00	705.00	5:12:00	1751.00	1410.00	0.810
							TOTAL:	3500.00	2820.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-16
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2450b	208.70	3302.00	5:13:00	15.82
2452b	215.80	3482.00	5:20:00	16.14
2454b	219.40	3470.00	6:19:00	15.82
2456b	226.50	3564.00	6:45:00	15.74
2458b	234.20	3698.00	7:20:00	15.79
2460b	229.40	3630.00	7:55:00	15.82
2462b	229.90	3622.00	8:27:00	15.75
2464b	232.00	3666.00	8:50:00	15.80
2466b	226.00	3548.00	10:31:00	15.70
2468b	230.70	3632.00	10:59:00	15.74
2470b	230.40	3612.00	12:15:00	15.68
2472b	229.10	3598.00	12:39:00	15.70
2474b	224.60	3538.00	13:22:00	15.75
2476b	223.10	3544.00	13:53:00	15.89
2478b	227.80	3598.00	14:43:00	15.79
2480b	220.70	3504.00	15:09:00	15.88
2482b	223.50	3520.00	15:56:00	15.75
2484b	224.00	3538.00	16:20:00	15.79
TOTAL:	4055.80	64066.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-16
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2486b	213.90	3384.00	17:31:00	15.82
2488b	215.90	3406.00	17:53:00	15.78
2490b	222.70	3258.00	18:54:00	14.63
2492b	218.60	3472.00	19:16:00	15.88
2494b	217.80	3436.00	20:06:00	15.78
2496b	222.60	3436.00	20:34:00	15.44
2498b	230.10	3656.00	21:23:00	15.89
2500b	222.20	3504.00	21:49:00	15.77
2502b	215.20	3388.00	22:27:00	15.74
2504b	225.10	3456.00	22:46:00	15.35
2506b	230.20	3644.00	23:19:00	15.83
2508b	216.90	3418.00	23:38:00	15.76
2510b	223.30	3522.00	0:15:00	15.77
2512b	219.90	3470.00	0:32:00	15.78
2514b	229.00	3616.00	1:27:00	15.79
2516b	216.60	3438.00	1:53:00	15.87
2518b	215.00	3398.00	3:51:00	15.80
2520b	221.80	3478.00	4:07:00	15.68
TOTAL:	3976.80	62380.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-16
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2522b	215.60	3414.00	4:35:00	15.83
2524b	221.10	3600.00	4:57:00	16.28
TOTAL:	436.70	7014.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-16
Project	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2450t	663				3558.0	1911.6	5469.6	4.8	2425c	2426c	2450b
2452t	663				3565.0	1912.2	5477.2	4.8	2427c	2428c	2452b
2454t	TOP UP ONLY				3630.0	1904.3	5534.3	4.8	2429c	2430c	2454b
2456t					3690.0	1904.3	5594.3	4.8	2431c	2432c	2456b
2458t	819	815			3680.0	1904.3	5584.3	4.8	2433c	2434c	2458b
2460t	819	815			3660.0	1904.3	5564.3	4.8	2435c	2436c	2460b
2462t	815	811			3690.0	1904.3	5594.3	4.8	2437c	2438c	2462b
2464t	815	811			3660.0	1904.3	5564.3	4.8	2439c	2440c	2464b
2466t	811	799			3680.0	1904.3	5584.3	4.8	2441c	2442c	2466b
2468t	811	799			3660.0	1904.3	5564.3	4.8	2443c	2444c	2468b
2470t	799	795			3640.0	1904.3	5544.3	4.8	2445c	2446c	2470b
2472t	799	795			3590.0	1904.3	5494.3	4.8	2447c	2448c	2472b
2474t	795				3620.0	1904.3	5524.3	4.8	2449c	2450c	2474b
2476t	795				3710.0	1904.3	5614.3	4.8	2451c	2452c	2476b
2478t	795	791	787		3570.0	1904.3	5474.3	4.8	2453c	2454c	2478b
2480t	795	791	787		3600.0	1904.3	5504.3	4.8	2455c	2456c	2480b
2482t	791	779			3560.0	1904.3	5464.3	4.8	2457c	2458c	2482b
2484t	791	779			3600.0	1904.3	5504.3	4.8	2459c	2460c	2484b
						TOTAL:	99655.7				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-16
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2486t	779	755			3540.0	1904.3	5444.3	4.8	2461c	2462c	2486b
2488t	779	755			3520.0	1904.3	5424.3	4.8	2463c	2464c	2488b
2490t	755	727			3548.0	1911.0	5459.0	4.8	2465c	2466c	2490b
2492t	755	727			3568.0	1911.0	5479.0	4.8	2467c	2468c	2492b
2494t	727	723	711		3506.0	1911.0	5417.0	4.8	2469c	2470c	2494b
2496t	727	723	711		3584.0	1911.0	5495.0	4.8	2471c	2472c	2496b
2498t	711				3593.0	1911.0	5504.0	4.8	2473c	2474c	2498b
2500t	711				3580.0	1911.0	5491.0	4.8	2475c	2476c	2500b
2502t	711	707			3559.0	1913.0	5472.0	4.8	2477c	2478c	2502b
2504t	711	707			3548.0	1909.8	5457.8	4.8	2479c	2480c	2504b
2506t	707	855			3555.0	1911.5	5466.5	4.8	2481c	2482c	2506b
2508t	707	855			3582.0	1910.3	5492.3	4.8	2483c	2484c	2508b
2510t	855	851			3578.0	1910.4	5488.4	4.8	2485c	2486c	2510b
2512t	855	851			3558.0	1913.7	5471.7	4.8	2487c	2488c	2512b
2514t	831	827			3564.0	1912.2	5476.2	4.8	2489c	2490c	2514b
2516t	831	827			3556.0	1910.0	5466.0	4.8	2491c	2492c	2516b
2518t	TOP UP ONLY				3562.0	1912.2	5474.2	4.8	2493c	2494c	2518b
2520t					3545.0	1910.9	5455.9	4.8	2495c	2496c	2520b
						TOTAL:	98434.5				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-16
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2522t	827				3568.0	1910.4	5478.4	4.8	2497c	2498c	2522b
2524t	827				3602.0	1911.5	5513.5	4.8	2499c	2500c	2524b
						TOTAL:	10992.0				

NOTES

TOP UPS

Tanks:		**Piles:**
2474t	2476t	731, 715, 663, 819, 815
2486t	2488t	819, 815, 811, 795, 791
2498t	2500t	755, 779, 787, 791, 795, 799
2506t	2508t	723, 727, 755, 787, 791
2518t	2520t	723, 727, 755, 707, 711, 831

HFDI Production Control

Project Number	1814	**Date**	2018-11-16
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	18	166.35	126.70	209.08	65.02%

Daily pile Completion:	1.83%	**Daily Cement used in KG**	66505.00
Piles Poured to Date:	665	**Total Cement used to date KG**	2210687.00
Daily L/M of Drilling:	161.43	**Daily Bentonite used in KG**	8469.30
		Total Bentonite used in KG	371638.00
		Daily Water consumption	186865.00
		Total Water Consumption	5938121.00

HFDI Representative: Alex Zapantis (Name) — (Signature)

KCG Representative: Maxime Gauthier-Wong (Name) — Maxime Gauthier-Wong (Signature) — 2018-11-17 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-11-17 Site Conditions: -33, cloudy with moderate wind in the afternoon and night	Shift: 24hr

FOREMAN'S SAFETY/ QUALITY MEETING

Pouring Piles - grout burn, conflicting equipment, open holes - cover holes, keep out of fall zone
Hammering Sockets - High air pressure, flying debris - use double whip checks, keep distance
Welding & Fabrication - burns, sparks, arc flash - PPE and body positioning

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Produced grout, poured piles, drilled piles, rock hammered sockets
Continue repair/ troubleshooting on BG30 #2 - was fixed in time for night shift
Welding repair on drilling tools
Changed components and valves in batch plant

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-17
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0430	Night		11	9.00	9.30			
0434	Night		12	9.00	9.50			
0438	Night		10	8.90	9.00			
0478	Night	Night	10	8.60	8.90	9.80	9.69	1
0482	Night	Night	10	8.00	8.20	9.77	9.59	1
0486	Night	Night	10	8.20	8.50	9.70	9.50	1
0518	Night	Night	10	7.90	8.50	9.32	9.09	3
0522	Night	Night	10	7.80	8.30	9.60	9.32	3
0526	Night	Night	10	8.00	8.50	9.39	9.21	3
0558	Night		10	7.60	8.10			
0586	Night		10	7.90	8.60			
0743	Day	Day	11	9.33	9.55	11.00	10.80	3
0747		Day	11	8.80	9.30	10.40	10.14	2
0751	Day	Day	10	9.00	9.50	10.25	10.10	1
0835		Day	10	6.70	7.50	8.15	7.80	1
0839		Day	10	6.80	7.50	8.30	7.97	1
					TOTAL	105.68		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-17
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2501c	875.00	705.00	5:25:00	2502c	875.00	705.00	5:32:00	1750.00	1410.00	0.806
2503c	875.00	705.00	5:45:00	2504c	875.00	705.00	6:01:00	1750.00	1410.00	0.806
2505c	880.00	702.00	8:29:00	2506c	880.00	705.00	8:41:00	1760.00	1407.00	0.799
2507c	878.00	700.00	8:53:00	2508c	875.00	698.00	9:08:00	1753.00	1398.00	0.797
2509c	880.00	704.00	9:52:00	2510c	885.00	702.00	10:06:00	1765.00	1406.00	0.797
2511c	875.00	701.00	10:17:00	2512c	890.00	700.00	10:26:00	1765.00	1401.00	0.794
2513c	878.00	701.00	10:44:00	2514c	880.00	703.00	10:56:00	1758.00	1404.00	0.799
2515c	883.00	706.00	11:11:00	2516c	880.00	697.00	11:24:00	1763.00	1403.00	0.796
2517c	890.00	705.00	11:59:00	2518c	880.00	703.00	12:10:00	1770.00	1408.00	0.795
2519c	885.00	700.00	12:27:00	2520c	878.00	701.00	12:45:00	1763.00	1401.00	0.795
2521c	882.00	708.00	13:39:00	2522c	878.00	700.00	13:54:00	1760.00	1408.00	0.800
2523c	885.00	705.00	14:03:00	2524c	880.00	702.00	14:16:00	1765.00	1407.00	0.797
2525c	875.00	705.00	21:24:00	2526c	874.00	706.00	21:30:00	1749.00	1411.00	0.807
2527c	876.00	704.00	21:42:00	2528c	877.00	705.00	21:49:00	1753.00	1409.00	0.804
2529c	875.00	706.00	22:22:00	2530c	876.00	705.00	22:45:00	1751.00	1411.00	0.806
2531c	874.00	706.00	23:16:00	2532c	875.00	704.00	23:34:00	1749.00	1410.00	0.806
2533c	874.00	705.00	23:43:00	2534c	876.00	704.00	23:50:00	1750.00	1409.00	0.805
2535c	875.00	705.00	0:02:00	2536c	874.00	707.00	0:08:00	1749.00	1412.00	0.807
							TOTAL:	31623.00	25325.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-17
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2537c	875.00	706.00	0:40:00	2538c	876.00	707.00	0:51:00	1751.00	1413.00	0.807
2539c	875.00	705.00	1:02:00	2540c	874.00	704.00	1:07:00	1749.00	1409.00	0.806
2541c	875.00	705.00	1:50:00	2542c	876.00	706.00	1:58:00	1751.00	1411.00	0.806
2543c	875.00	708.00	2:08:00	2544c	874.00	707.00	2:14:00	1749.00	1415.00	0.809
2545c	875.00	705.00	3:29:00	2546c	874.00	706.00	3:37:00	1749.00	1411.00	0.807
2547c	876.00	707.00	3:47:00	2548c	878.00	705.00	4:00:00	1754.00	1412.00	0.805
							TOTAL:	10503.00	8471.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-17
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2526b	220.90	3472.00	5:26:00	15.72
2528b	235.80	3642.00	5:46:00	15.45
2530b	218.60	3464.00	8:25:00	15.85
2532b	222.10	3500.00	8:52:00	15.76
2534b	229.70	3610.00	9:46:00	15.72
2536b	223.00	3524.00	10:15:00	15.80
2538b	225.20	3552.00	10:40:00	15.77
2540b	223.20	3520.00	11:11:00	15.77
2542b	227.20	3664.00	11:52:00	16.13
2544b	220.70	3466.00	12:25:00	15.70
2546b	214.70	3404.00	13:41:00	15.85
2548b	233.90	3696.00	14:12:00	15.80
2550b	221.00	3504.00	21:26:00	15.86
2552b	220.80	3494.00	21:51:00	15.82
2554b	218.30	3450.00	22:25:00	15.80
2556b	214.60	3378.00	23:17:00	15.74
2558b	213.10	3366.00	23:45:00	15.80
2560b	218.70	3468.00	0:10:00	15.86
TOTAL:	4001.50	63174.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-17
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2562b	222.10	3496.00	0:42:00	15.74
2564b	223.50	3522.00	1:09:00	15.76
2566b	223.40	3536.00	1:52:00	15.83
2568b	211.60	3358.00	2:15:00	15.87
2570b	235.80	3694.00	3:31:00	15.67
2572b	233.40	3666.00	4:04:00	15.71
TOTAL:	1349.80	21272.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-17
Project	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2526t	843	847			3555.0	1911.0	5466.0	4.8	2501c	2502c	2526b
2528t	843	847			3580.0	1911.0	5491.0	4.8	2503c	2504c	2528b
2530t	847	839			3540.0	1914.5	5454.5	4.8	2505c	2506c	2530b
2532t	847	839			3640.0	1904.6	5544.6	4.8	2507c	2508c	2532b
2534t	TOP UP ONLY				3630.0	1916.6	5546.6	4.8	2509c	2510c	2534b
2536t					3600.0	1913.3	5513.3	4.8	2511c	2512c	2536b
2538t	835	739			3620.0	1911.4	5531.4	4.8	2513c	2514c	2538b
2540t	835	739			3640.0	1913.5	5553.5	4.8	2515c	2516c	2540b
2542t	739	743			3510.0	1920.7	5430.7	4.8	2517c	2518c	2542b
2544t	739	743			3480.0	1912.2	5392.2	4.8	2519c	2520c	2544b
2546t	743	751			3620.0	1915.2	5535.2	4.8	2521c	2522c	2546b
2548t	743	751			3540.0	1917.3	5457.3	4.8	2523c	2524c	2548b
2550t	TOP UP ONLY				3568.0	1911.1	5479.1	4.8	2525c	2526c	2550b
2552t					3550.0	1912.0	5462.0	4.8	2527c	2528c	2552b
2554t	699				3568.0	1912.2	5480.2	4.8	2529c	2530c	2554b
2556t	699				3546.0	1910.4	5456.4	4.8	2531c	2532c	2556b
2558t	703	747			3598.0	1910.3	5508.3	4.8	2533c	2534c	2558b
2560t	703	747			3602.0	1911.8	5513.8	4.8	2535c	2536c	2560b
						TOTAL:	98816.0				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-17
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2562t	747	526			3590.0	1913.5	5503.5	4.8	2537c	2538c	2562b
2564t	747	526			3592.0	1909.8	5501.8	4.8	2539c	2540c	2564b
2566t	526	522			3553.0	1912.2	5465.2	4.8	2541c	2542c	2566b
2568t	526	522			3536.0	1913.8	5449.8	4.8	2543c	2544c	2568b
2570t	518				3582.0	1911.1	5493.1	4.8	2545c	2546c	2570b
2572t	518				3570.0	1914.5	5484.5	4.8	2547c	2548c	2572b
						TOTAL:	32897.9				

NOTES

TOP UPS

Tanks:		**Piles:**
2534t	2536t	707, 711, 827, 831, 851, 855
2550t	2552t	707, 711, 743, 739, 751, 823, 827, 847
2554t	2556t	851, 855
2570t	2572t	699, 703, 743, 747, 751, 526, 522

HFDI Production Control

Project Number	1814	**Date**	2018-11-17
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	14	134.24	102.30	131.71	28.75%

Daily pile Completion:	1.42%
Piles Poured to Date:	679
Daily L/M of Drilling:	105.68

Daily Cement used in KG	42126.00
Total Cement used to date KG	2268242.10
Daily Bentonite used in KG	5351.30
Total Bentonite used in KG	376532.60
Daily Water consumption	118242.00
Total Water Consumption	6056363.00

Total cement used ajusted. An additionnal 15 429.10 KG included in this Total Cement used to date

HFDI Representative: Alex Zapantis (Name) — (Signature)

KCG Representative: Maxime Gauthier-Wong (Name) — Maxime Gauthier-Wong (Signature)

2018-11-18 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-11-18	Shift: 24hr
		Site Conditions: -36C, moderate wind	

FOREMAN'S SAFETY/ QUALITY MEETING

Pouring piles & drilling piles - congested work area, swinging equipment, open holes, grout burn
Rock hammer - high pressure air lines, flying debris

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Engine oil leak on BG30 #2 - cleaned up, repaired and topped up with oil
Develop plan in agreement with SNC & AEM to drill in the east abutment zone - once approved had layout and started drilling on night shift
Produced grout, poured piles, drilled piles, rock hammered sockets
Service spare rock hammer

DELAYS: 3.2 hours to re-drill piles which had already been completed to target depth.

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-18
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
430		Day	11	9.00	9.30	10.50	10.33	2
434		Day	12	9.00	9.50	10.20	10.08	2
438		Day	10	8.90	9.00	10.40	10.02	1
450	Night	Night	10	8.50	9.00	9.70	9.38	1
490	Night	Night	11	8.50	9.00	9.54	9.70	1
494	Day	Night	11	8.20	8.70	9.30	9.20	1
498	Night	Night	10	8.00	8.45	9.30	9.00	1
550		Day/ Night	10	7.70	8.40	9.40	8.82	2
554		Day/ Night	10	7.90	8.60	9.42	9.27	2
558		Day/ Night	10	7.60	8.10	9.40	9.20	2
562	Night	Night	10	7.80	8.20	9.30	9.00	1
566	Night	Night	10	7.70	8.20	9.20	9.09	1
586		Day	10	7.90	8.60	9.35	9.10	1
590		Day	10	7.90	8.50	9.50	9.30	2
594		Day	10	8.00	8.50	9.40	9.25	2
598	Night		10	7.60	8.40			
602	Night		10	7.80	8.30			
606	Night	Night	10	7.70	8.40	9.60	9.18	1
					TOTAL	153.51		

NOTES

Rock hammer had to set up on piles for a second time due to QC changing the target depth after they had already been drilled. Listed below:

0554 added 0.37m to target depth, 0558 added 0.445m to target depth, 0634 added 0.53m to target depth, 0638 added 0.4m to target depth

HFDI Production Control - Drill Logs

Project Number	1814	**Date**	2018-11-18
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
622	Night	Night	10	8.00	8.50	10.07	9.42	1
626	Night	Night	10	8.40	9.20	10.10	9.43	1
630	Night	Night	10	7.90	8.60	9.65	9.46	1
634	Day	Day/ Night	10	8.40	9.25	10.55	10.00	2
638	Day	Day/ Night	10	8.67	9.30	10.55	10.45	2
642	Day	Day	10	8.85	9.27	10.30	10.23	1
973	Night		4	5.50	3.40			
975	Night		4	5.38	3.70			
					TOTAL	61.22		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-18
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2549c	875.00	704.00	4:30:00	2550c	874.00	705.00	4:38:00	1749.00	1409.00	0.806
2551c	875.00	704.00	4:50:00	2552c	877.00	707.00	4:55:00	1752.00	1411.00	0.805
2553c	875.00	705.00	5:32:00	2554c	874.00	706.00	5:37:00	1749.00	1411.00	0.807
2555c	873.00	705.00	5:45:00	2556c	877.00	708.00	5:51:00	1750.00	1413.00	0.807
2557c	875.00	703.00	7:09:00	2558c	880.00	705.00	7:46:00	1755.00	1408.00	0.802
2559c	890.00	710.00	7:54:00	2560c	880.00	700.00	8:02:00	1770.00	1410.00	0.797
2561c	885.00	704.00	8:20:00	2562c	880.00	700.00	8:31:00	1765.00	1404.00	0.795
2563c	880.00	704.00	8:46:00	2564c	875.00	700.00	8:58:00	1755.00	1404.00	0.800
2565c	880.00	702.00	9:45:00	2566c	875.00	705.00	9:56:00	1755.00	1407.00	0.802
2567c	875.00	700.00	10:11:00	2568c	880.00	705.00	10:21:00	1755.00	1405.00	0.801
2569c	880.00	700.00	11:18:00	2570c	875.00	700.00	11:33:00	1755.00	1400.00	0.798
2571c	877.00	701.00	11:41:00	2572c	875.00	700.00	11:57:00	1752.00	1401.00	0.800
2573c	880.00	699.00	12:14:00	2574c	875.00	700.00	12:28:00	1755.00	1399.00	0.797
2575c	875.00	700.00	12:48:00	2576c	880.00	705.00	13:23:00	1755.00	1405.00	0.801
2577c	880.00	700.00	13:54:00	2578c	875.00	700.00	14:04:00	1755.00	1400.00	0.798
2579c	885.00	704.00	14:13:00	2580c	880.00	707.00	14:23:00	1765.00	1411.00	0.799
2581c	890.00	710.00	15:12:00	2582c	880.00	704.00	15:21:00	1770.00	1414.00	0.799
2583c	875.00	700.00	15:35:00	2584c	880.00	700.00	15:48:00	1755.00	1400.00	0.798
							TOTAL:	31617.00	25312.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-18
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2585c	875.00	700.00	16:28:00	2586c	880.00	705.00	16:39:00	1755.00	1405.00	0.801
2587c	875.00	700.00	16:57:00	2588c	885.00	710.00	17:23:00	1760.00	1410.00	0.801
2589c	875.00	705.00	18:17:00	2590c	874.00	705.00	18:23:00	1749.00	1410.00	0.806
2591c	877.00	707.00	18:36:00	2592c	873.00	704.00	18:39:00	1750.00	1411.00	0.806
2593c	875.00	706.00	19:16:00	2594c	873.00	705.00	19:23:00	1748.00	1411.00	0.807
2595c	877.00	706.00	19:34:00	2596c	874.00	707.00	19:40:00	1751.00	1413.00	0.807
2597c	875.00	706.00	21:04:00	2598c	876.00	708.00	21:10:00	1751.00	1414.00	0.808
2599c	875.00	704.00	21:19:00	2600c	873.00	705.00	21:25:00	1748.00	1409.00	0.806
2601c	875.00	706.00	22:01:00	2602c	874.00	707.00	22:05:00	1749.00	1413.00	0.808
2603c	877.00	705.00	22:14:00	2604c	873.00	704.00	22:23:00	1750.00	1409.00	0.805
2605c	875.00	707.00	23:08:00	2606c	877.00	704.00	23:15:00	1752.00	1411.00	0.805
2607c	874.00	706.00	23:25:00	2608c	876.00	706.00	23:32:00	1750.00	1412.00	0.807
2609c	875.00	705.00	0:29:00	2610c	877.00	707.00	0:35:00	1752.00	1412.00	0.806
2611c	874.00	706.00	0:45:00	2612c	873.00	703.00	0:55:00	1747.00	1409.00	0.807
2613c	875.00	706.00	1:36:00	2614c	873.00	703.00	1:43:00	1748.00	1409.00	0.806
2615c	877.00	704.00	1:50:00	2616c	874.00	705.00	1:55:00	1751.00	1409.00	0.805
2617c	875.00	707.00	2:18:00	2618c	876.00	704.00	2:25:00	1751.00	1411.00	0.806
2619c	877.00	705.00	2:35:00	2620c	877.00	704.00	2:47:00	1754.00	1409.00	0.803
							TOTAL:	31516.00	25387.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-18
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2621c	875.00	705.00	3:17:00	2622c	877.00	707.00	3:25:00	1752.00	1412.00	0.806
2623c	874.00	707.00	3:31:00	2624c	873.00	704.00	3:36:00	1747.00	1411.00	0.808
							TOTAL:	3499.00	2823.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-18
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2574b	219.70	3444.00	4:32:00	15.68
2576b	213.20	3360.00	4:57:00	15.76
2578b	217.90	3428.00	5:30:00	15.73
2580b	208.30	3292.00	5:55:00	15.80
2582b	210.10	3316.00	6:56:00	15.78
2584b	220.60	3496.00	7:49:00	15.85
2586b	220.30	3466.00	8:28:00	15.73
2588b	223.60	3512.00	8:49:00	15.71
2590b	223.50	3506.00	9:44:00	15.69
2592b	216.10	3422.00	10:10:00	15.84
2594b	221.30	3484.00	11:09:00	15.74
2596b	220.90	3496.00	11:38:00	15.83
2598b	246.70	3908.00	12:25:00	15.84
2600b	227.60	3604.00	12:49:00	15.83
2602b	225.30	3544.00	13:51:00	15.73
2604b	221.50	3490.00	14:16:00	15.76
2606b	224.60	3552.00	15:10:00	15.81
2608b	222.80	3524.00	15:33:00	15.82
TOTAL:	3984.00	62844.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-18
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2610b	219.70	3468.00	16:30:00	15.79
2612b	222.50	3524.00	16:58:00	15.84
2614b	226.40	3562.00	18:19:00	15.73
2616b	209.20	3324.00	18:42:00	15.89
2618b	216.30	3424.00	19:17:00	15.83
2620b	215.20	3402.00	19:42:00	15.81
2622b	215.30	3412.00	21:06:00	15.85
2624b	214.40	3404.00	21:27:00	15.88
2626b	219.50	3458.00	22:02:00	15.75
2628b	218.90	3462.00	22:24:00	15.82
2630b	213.80	3384.00	23:10:00	15.83
2632b	215.40	3414.00	23:31:00	15.85
2634b	218.00	3436.00	0:30:00	15.76
2636b	217.40	3442.00	0:57:00	15.83
2638b	212.10	3346.00	1:38:00	15.78
2640b	215.10	3406.00	1:57:00	15.83
2642b	215.30	3410.00	2:20:00	15.84
2644b	218.10	3442.00	2:49:00	15.78
TOTAL:	3902.60	61720.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-18
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2646b	214.90	3390.00	3:19:00	15.77
2648b	217.70	3430.00	3:39:00	15.76
TOTAL:	432.60	6820.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-18
Project	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2574t	518				3580.0	1909.8	5489.8	4.8	2549c	2550c	2574b
2576t	518				3557.0	1912.8	5469.8	4.8	2551c	2552c	2576b
2578t	486	482	478		3556.0	1911.1	5467.1	4.8	2553c	2554c	2578b
2580t	486	482	478		3529.0	1913.0	5442.0	4.8	2555c	2556c	2580b
2582t	478				3575.0	1912.4	5487.4	4.8	2557c	2558c	2582b
2584t	478				3570.0	1922.1	5492.1	4.8	2559c	2560c	2584b
2586t	430				3590.0	1915.3	5505.3	4.8	2561c	2562c	2586b
2588t	430				3630.0	1909.7	5539.7	4.8	2563c	2564c	2588b
2590t	430				3600.0	1911.7	5511.7	4.8	2565c	2566c	2590b
2592t	430				3580.0	1910.4	5490.4	4.8	2567c	2568c	2592b
2594t	430	434			3540.0	1907.1	5447.1	4.8	2569c	2570c	2594b
2596t	430	434			3600.0	1906.1	5506.1	4.8	2571c	2572c	2596b
2598t	438				3450.0	1906.4	5356.4	4.8	2573c	2574c	2598b
2600t	438				3580.0	1910.4	5490.4	4.8	2575c	2576c	2600b
2602t	586				3560.0	1907.1	5467.1	4.8	2577c	2578c	2602b
2604t	586				3490.0	1920.0	5410.0	4.8	2579c	2580c	2604b
2606t	590				3650.0	1924.7	5574.7	4.8	2581c	2582c	2606b
2608t	590				3630.0	1907.1	5537.1	4.8	2583c	2584c	2608b
						TOTAL:	98684.0				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-18
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2610t	594				3540.0	1910.4	5450.4	4.8	2585c	2586c	2610b
2612t	594				3620.0	1916.5	5536.5	4.8	2587c	2588c	2612b
2614t	642	638			3585.0	1910.4	5495.4	4.8	2589c	2590c	2614b
2616t	642	638			3598.0	1911.6	5509.6	4.8	2591c	2592c	2616b
2618t	638	634			3548.0	1910.5	5458.5	4.8	2593c	2594c	2618b
2620t	638	634			3554.0	1913.5	5467.5	4.8	2595c	2596c	2620b
2622t	634	626			3563.0	1914.2	5477.2	4.8	2597c	2598c	2622b
2624t	634	626			3550.0	1909.2	5459.2	4.8	2599c	2600c	2624b
2626t	566	526			3662.0	1912.4	5574.4	4.8	2601c	2602c	2626b
2628t	566	526			3591.0	1910.3	5501.3	4.8	2603c	2604c	2628b
2630t	562				3586.0	1912.8	5498.8	4.8	2605c	2606c	2630b
2632t	562				3572.0	1912.3	5484.3	4.8	2607c	2608c	2632b
2634t	TOP UP ONLY				3555.0	1913.4	5468.4	4.8	2609c	2610c	2634b
2636t					3561.0	1908.7	5469.7	4.8	2611c	2612c	2636b
2638t	562	558	550		3534.0	1909.2	5443.2	4.8	2613c	2614c	2638b
2640t	562	558	550		3582.0	1910.9	5492.9	4.8	2615c	2616c	2640b
2642t	550				3561.0	1912.2	5473.2	4.8	2617c	2618c	2642b
2644t	550				3573.0	1912.5	5485.5	4.8	2619c	2620c	2644b
						TOTAL:	98746.2				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-18
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2646t	550				3567.0	1913.4	5480.4	4.8	2621c	2622c	2646b
2648t	550				3575.0	1910.0	5485.0	4.8	2623c	2624c	2648b
						TOTAL:	10965.4				

NOTES

TOP UPS

Tanks:		**Piles:**
2602t	2604t	430, 434, 438
2614t	2616t	586, 590
2634t	2636t	586, 590, 594, 526, 534, 538, 642
2646t	2648t	626, 634, 638

HFDI Production Control

Project Number	1814	**Date**	2018-11-18
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	17	167.42	127.49	208.40	63.46%

Daily pile Completion:	1.73%	**Daily Cement used in KG**	66632.00
Piles Poured to Date:	696	**Total Cement used to date KG**	2334874.10
Daily L/M of Drilling:	214.73	**Daily Bentonite used in KG**	8319.20
		Total Bentonite used in KG	384851.80
		Daily Water consumption	184906.00
		Total Water Consumption	6241269.00

HFDI Representative: Alex Zapantis (Name) — (Signature)

KCG Representative: Maxime Gauthier-Wong (Name) — Maxime Gauthier-Wong (Signature)

2018-11-19 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-11-19	Shift: 24hr
		Site Conditions: -39C, moderate wind	

FOREMAN'S SAFETY/ QUALITY MEETING

Drilling Piles - Uneven ground, open holes, swinging equipment - watch footing, cover holes, use a spotter

Working with CB - silica inhalation, grout burn - proper PPE

Rock hammer - high pressure air lines, flying debris - double whip checks, keep distance

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Produced grout, poured piles, drilled piles, hammered sockets - finished the east abutment holes that needed to go to top of bedrock

Lower crowd sheave BG28 broke, had the welder on the dike to fix it - was down from 11:00-15:30

Got use of manlift for start of nightshift - greased the upper sheaves and swivels

Vacuum truck needed a more intensive clean out due to hose pumps getting jammed up - was down for 2 hours

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-19
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
442	Day	Night	10	8.40	8.90	10.13	10.04	2.5
446	Day	Day	11	8.60	9.00	9.80	9.64	2
484	Night		10	8.10	8.50			
506	Night		10	7.70	8.00			
510	Night		10	7.70	8.00			
530	Night	Night	10	8.00	8.30	9.40	9.10	1
534	Night	Night	10	8.10	8.80	9.59	9.53	2
538	Night	Night	10	8.20	8.60	9.90	9.59	3
542	Day	Night	10	7.80	8.50	9.32	9.04	1
546	Day	Night	11	7.65	8.70	8.90	8.69	0.5
570	Day	Day	10	7.90	8.70	9.20	8.83	1
574	Day	Day	10	8.10	9.20	9.40	9.16	1
578	Day	Day	10	8.00	8.85	9.45	9.15	1
582	Day	Day	10	7.70	8.90	9.20	8.85	1
598		Day	10	7.60	8.40	9.30	9.00	1
602		Day	10	7.80	8.30	9.50	9.17	1.5
610	Night		10	7.80	8.30			
614	Night	Night	10	7.90	8.50	9.40	9.10	1
					TOTAL	132.49		

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-19
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
618	Night	Night	10	7.60	8.20	9.23	9.05	1
630		Day	10	7.90	8.60	9.90	9.46	2
967	Day		4	5.10	3.15	5.48	5.52	Core Barrel
969	Day		4	4.50	3.90	4.50		
971	Day		4	5.10	4.10	5.10		
					TOTAL	34.21		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-19
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2625c	875.00	705.00	4:38:00	2626c	877.00	706.00	4:44:00	1752.00	1411.00	0.810
2627c	873.00	705.00	4:50:00	2628c	876.00	705.00	4:55:00	1749.00	1410.00	0.810
2629c	880.00	705.00	7:59:00	2630c	875.00	700.00	8:10:00	1755.00	1405.00	0.800
2631c	880.00	707.00	8:38:00	2632c	875.00	700.00	8:48:00	1755.00	1407.00	0.800
2633c	885.00	704.00	9:17:00	2634c	895.00	700.00	9:27:00	1780.00	1404.00	0.790
2635c	875.00	700.00	9:54:00	2636c	885.00	702.00	10:05:00	1760.00	1402.00	0.800
2637c	880.00	704.00	10:49:00	2638c	875.00	705.00	10:59:00	1755.00	1409.00	0.800
2639c	875.00	700.00	11:12:00	2640c	875.00	700.00	11:27:00	1750.00	1400.00	0.800
2641c	880.00	704.00	12:03:00	2642c	875.00	700.00	12:36:00	1755.00	1404.00	0.800
2643c	875.00	700.00	12:46:00	2644c	875.00	700.00	12:55:00	1750.00	1400.00	0.800
2645c	880.00	703.00	13:34:00	2646c	890.00	708.00	13:43:00	1770.00	1411.00	0.800
2647c	890.00	704.00	13:58:00	2648c	875.00	700.00	14:08:00	1765.00	1404.00	0.800
2649c	880.00	698.00	14:35:00	2650c	875.00	700.00	14:48:00	1755.00	1398.00	0.800
2651c	880.00	702.00	15:04:00	2652c	880.00	700.00	15:13:00	1760.00	1402.00	0.800
2653c	877.00	700.00	16:00:00	2654c	875.00	700.00	16:11:00	1752.00	1400.00	0.800
2655c	885.00	707.00	16:20:00	2656c	880.00	700.00	16:35:00	1765.00	1407.00	0.800
2657c	890.00	710.00	17:30:00	2658c	885.00	703.00	17:42:00	1775.00	1413.00	0.800
2659c	875.00	705.00	18:11:00	2660c	876.00	706.00	18:17:00	1751.00	1411.00	0.810
							TOTAL:	31654.00	25298.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-19
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2661c	875.00	705.00	19:03:00	2662c	873.00	705.00	19:08:00	1748.00	1410.00	0.810
2663c	877.00	708.00	19:17:00	2664c	876.00	706.00	19:21:00	1753.00	1414.00	0.810
2665c	875.00	706.00	19:56:00	2666c	876.00	705.00	20:04:00	1751.00	1411.00	0.810
2667c	875.00	707.00	20:11:00	2668c	875.00	703.00	20:16:00	1750.00	1410.00	0.810
2669c	874.00	704.00	20:41:00	2670c	876.00	707.00	20:49:00	1750.00	1411.00	0.810
2671c	877.00	705.00	21:02:00	2672c	875.00	705.00	21:06:00	1752.00	1410.00	0.800
2673c	874.00	706.00	21:24:00	2674c	875.00	703.00	21:30:00	1749.00	1409.00	0.810
2675c	876.00	705.00	21:35:00	2676c	873.00	704.00	21:43:00	1749.00	1409.00	0.810
2677c	875.00	705.00	1:43:00	2678c	876.00	706.00	1:49:00	1751.00	1411.00	0.810
2679c	875.00	704.00	1:56:00	2680c	876.00	704.00	2:04:00	1751.00	1408.00	0.800
2681c	875.00	705.00	2:30:00	2682c	873.00	709.00	2:36:00	1748.00	1414.00	0.810
2683c	877.00	708.00	2:42:00	2684c	874.00	709.00	2:49:00	1751.00	1417.00	0.810
2685c	875.00	705.00	4:19:00	2686c	873.00	706.00	4:23:00	1748.00	1411.00	0.810
2687c	877.00	705.00	4:31:00	2688c	875.00	707.00	4:37:00	1752.00	1412.00	0.810
							TOTAL:	24503.00	19757.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-19
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2650b	210.20	3326.00	4:40:00	15.82
2652b	213.40	3380.00	5:10:00	15.84
2654b	218.00	3454.00	7:57:00	15.84
2656b	219.20	3442.00	8:39:00	15.70
2658b	221.40	3504.00	9:19:00	15.83
2660b	220.00	3478.00	9:50:00	15.81
2662b	216.50	3394.00	10:51:00	15.68
2664b	224.40	3564.00	11:15:00	15.88
2666b	221.50	3518.00	12:16:00	15.88
2668b	223.90	3536.00	12:44:00	15.79
2670b	225.60	3576.00	13:30:00	15.85
2672b	224.10	3528.00	13:58:00	15.74
2674b	224.40	3546.00	14:38:00	15.80
2676b	219.20	3476.00	15:02:00	15.86
2678b	218.70	3456.00	15:54:00	15.80
2680b	218.40	3464.00	16:23:00	15.86
2682b	224.20	3532.00	17:33:00	15.75
2684b	222.20	3512.00	18:14:00	15.81
TOTAL:	3965.30	62686.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-19
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2686b	210.50	3322.00	19:05:00	15.78
2688b	213.80	3374.00	19:21:00	15.78
2690b	215.30	3396.00	19:59:00	15.77
2692b	213.10	3376.00	20:18:00	15.84
2694b	219.30	3444.00	20:43:00	15.70
2696b	215.60	3432.00	21:08:00	15.92
2698b	217.60	3438.00	21:25:00	15.80
2700b	212.30	3338.00	22:00:00	15.72
2702b	214.70	3406.00	1:44:00	15.86
2704b	211.80	3368.00	2:06:00	15.90
2706b	209.60	3310.00	2:32:00	15.79
2708b	218.60	3440.00	2:51:00	15.74
2710b	208.20	3294.00	4:20:00	15.82
2712b	213.10	3354.00	4:39:00	15.74
TOTAL:	2993.50	47292.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-19
Project	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2650t	498	494			3585.0	1912.8	5497.8	4.8	2625c	2626c	2650b
2652t	498	494			3555.0	1910.4	5465.4	4.8	2627c	2628c	2652b
2654t	TOP UP ONLY				3610.0	1910.4	5520.4	4.8	2629c	2630c	2654b
2656t					3580.0	1911.7	5491.7	4.8	2631c	2632c	2656b
2658t	494	490			3550.0	1923.6	5473.6	4.8	2633c	2634c	2658b
2660t	494	490			3590.0	1911.2	5501.2	4.8	2635c	2636c	2660b
2662t	490	450			3570.0	1913.1	5483.1	4.8	2637c	2638c	2662b
2664t	490	450			3600.0	1904.3	5504.3	4.8	2639c	2640c	2664b
2666t	630	622			3620.0	1909.7	5529.7	4.8	2641c	2642c	2666b
2668t	630	622			3600.0	1904.3	5504.3	4.8	2643c	2644c	2668b
2670t	622	606			3600.0	1922.7	5522.7	4.8	2645c	2646c	2670b
2672t	622	606			3590.0	1915.3	5505.3	4.8	2647c	2648c	2672b
2674t	606	602			3600.0	1905.7	5505.7	4.8	2649c	2650c	2674b
2676t	606	602			3620.0	1911.2	5531.2	4.8	2651c	2652c	2676b
2678t	598				3560.0	1905.4	5465.4	4.8	2653c	2654c	2678b
2680t	598				3600.0	1917.3	5517.3	4.8	2655c	2656c	2680b
2682t	582	578			3610.0	1926.8	5536.8	4.8	2657c	2658c	2682b
2684t	582	578			3584.0	1912.2	5496.2	4.8	2659c	2660c	2684b
						TOTAL:	99052.2				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-19
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2686t	975	973	971		3590.0	1909.9	5499.9	4.8	2661c	2662c	2686b
2688t	975	973	971		3560.0	1915.3	5475.3	4.8	2663c	2664c	2688b
2690t	971	967	969		3555.0	1912.2	5467.2	4.8	2665c	2666c	2690b
2692t	971	967	969		3590.0	1911.0	5501.0	4.8	2667c	2668c	2692b
2694t	TOP UP ONLY				3588.0	1911.6	5499.6	4.8	2669c	2670c	2694b
2696t					3572.0	1912.1	5484.1	4.8	2671c	2672c	2696b
2698t	578	574	570		3559.0	1909.8	5468.8	4.8	2673c	2674c	2698b
2700t	578	574	570		3555.0	1909.8	5464.8	4.8	2675c	2676c	2700b
2702t	572	574			3582.0	1912.2	5494.2	4.8	2677c	2678c	2702b
2704t	572	574			3592.0	1910.2	5502.2	4.8	2679c	2680c	2704b
2706t	546	542			3546.0	1912.5	5458.5	4.8	2681c	2682c	2706b
2708t	546	542			3577.0	1916.2	5493.2	4.8	2683c	2684c	2708b
2710t	542	538			3600.0	1910.5	5510.5	4.8	2685c	2686c	2710b
2712t	542	538			3533.0	1913.4	5446.4	4.8	2687c	2688c	2712b
						TOTAL:	76765.8				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-19
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
						TOTAL:					

NOTES

TOP UPS

Tanks:		**Piles:**
2654t	2656t	566, 562, 554, 556, 482, 594, 430, 586, 434, 438, 486, 478, 590, 626
2658t	2670t	634, 630
2690t	2690t	622, 606, 602
2694t	2696t	630, 634, 638, 566, 562, 558, 554, 550
2702t	2704t	626, 622, 606, 602, 591, 582, 578, 574, 975, 971, 969, 967, 973
2706t	2708t	630, 570

HFDI Production Control

Project Number	1814	**Date**	2018-11-19
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	21	173.76	132.88	175.82	32.31%

Daily pile Completion:	2.13%	**Daily Cement used in KG**	56157.00
Piles Poured to Date:	696	**Total Cement used to date KG**	2391031.10
Daily L/M of Drilling:	166.70	**Daily Bentonite used in KG**	6958.80
		Total Bentonite used in KG	391810.60
		Daily Water consumption	155033.00
		Total Water Consumption	6545207.70

HFDI Representative: Alex Zapantis (Name) — (Signature)

KCG Representative: Frederic Tremblay, P. Eng. (Name) — (Signature)

2018-11-20 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-11-20	Shift: 24hr
		Site Conditions: -41C, clear	

FOREMAN'S SAFETY/ QUALITY MEETING

Drill rigs - falling/ flying debris, tight areas - keep a distance and be aware of what is happening
Batch plant - grout burn, silica exposure - proper PPE
Rock hammer - high pressure air lines - double whip checks, inspect hoses

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Repair to leak on air manifold for rock hammer
Miscellaneous rig maintenance
Produced grout, poured piles, drilled piles, rock hammered sockets

DELAYS: Blast - day crew had to leave 0.5 hours early.

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-20
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0454	Day	Day	10	8.40	9.45	9.65	9.40	2.00
0458	Day	Day	10	8.25	8.52	9.40	9.30	1.00
0462	Night		10	9.30	9.60			
0484		Day	10	8.10	8.50	10.55	10.35	2.00
0506		Day	10	7.70	8.00	8.95	8.79	2.00
0510		Day	10	7.70	8.00	9.20	8.80	2.00
0514	Day	Night	10	7.80	8.53	9.00	8.70	1.00
0560	Night	Night	10	7.80	8.10	9.30	8.80	1.00
0564	Night	Night	10	8.30	8.50	9.80	9.67	1.50
0572	Night		11	8.20	8.50			
0592	Night	Night	10	8.20	8.50	9.70	9.20	1.00
0610		Day	10	7.80	8.30	9.65	9.34	2.00
0646	Day	Night	10	9.07	9.37	9.90	9.67	1.00
0650	Day	Night	10	8.90	9.60	10.62	10.42	1.00
0654	Day	Night	10	8.70	9.47	10.43	9.91	1.00
0658	Night	Night	10	9.00	9.80	10.53	10.40	1.00
0662	Night	Night	10	9.10	9.50	10.50	10.20	1.00
0686	Night	Night	11	8.80	10.25	11.10	10.97	1.00

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-20
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0690	Day	Night	10	8.80	9.67	10.85	10.49	1.00
0698	Night		10	9.30	9.70			
0702	Night		10	9.70	9.80			
0718	Night		10	9.10	9.50			
0722	Night		10	8.90	9.30			
0726	Night		11	8.90	9.30			

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-20
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2689c	885.00	705.00	6:20:00	2690c	880.00	700.00	6:34:00	1765.00	1405.00	0.80
2691c	880.00	705.00	6:45:00	2692c	880.00	705.00	6:53:00	1760.00	1410.00	0.80
2693c	880.00	708.00	7:19:00	2694c	880.00	705.00	7:32:00	1760.00	1413.00	0.80
2695c	880.00	703.00	7:43:00	2696c	885.00	705.00	7:54:00	1765.00	1408.00	0.80
2697c	880.00	705.00	10:13:00	2698c	880.00	708.00	10:23:00	1760.00	1413.00	0.80
2699c	880.00	707.00	10:34:00	2700c	885.00	705.00	10:51:00	1765.00	1412.00	0.80
2701c	880.00	703.00	12:22:00	2702c	890.00	710.00	12:31:00	1770.00	1413.00	0.80
2703c	880.00	705.00	12:43:00	2704c	885.00	705.00	12:52:00	1765.00	1410.00	0.80
2705c	880.00	703.00	13:27:00	2706c	885.00	708.00	13:42:00	1765.00	1411.00	0.80
2707c	880.00	705.00	13:58:00	2708c	880.00	705.00	14:07:00	1760.00	1410.00	0.80
2709c	875.00	700.00	14:33:00	2710c	880.00	705.00	14:48:00	1755.00	1405.00	0.80
2711c	880.00	704.00	15:01:00	2712c	880.00	702.00	15:08:00	1760.00	1406.00	0.80
2713c	880.00	706.00	16:04:00	2714c	880.00	705.00	16:13:00	1760.00	1411.00	0.80
2715c	890.00	710.00	16:33:00	2716c	880.00	705.00	16:44:00	1770.00	1415.00	0.80
2717c	880.00	702.00	16:58:00	2718c	885.00	705.00	17:05:00	1765.00	1407.00	0.80
2719c	880.00	708.00	17:20:00	2720c	880.00	700.00	17:30:00	1760.00	1408.00	0.80
2721c	875.00	706.00	18:40:00	2722c	874.00	705.00	18:47:00	1749.00	1411.00	0.81
2723c	877.00	704.00	19:00:00	2724c	875.00	707.00	19:11:00	1752.00	1411.00	0.81
							TOTAL:	31706.00	25379.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-20
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2725c	875.00	705.00	19:40:00	2726c	874.00	705.00	19:46:00	1749.00	1410.00	0.81
2727c	877.00	707.00	19:52:00	2728c	873.00	703.00	19:58:00	1750.00	1410.00	0.81
2729c	875.00	704.00	21:00:00	2730c	874.00	706.00	21:07:00	1749.00	1410.00	0.81
2731c	877.00	703.00	21:15:00	2732c	875.00	705.00	21:20:00	1752.00	1408.00	0.80
2733c	874.00	705.00	22:13:00	2734c	877.00	705.00	22:18:00	1751.00	1410.00	0.81
2735c	875.00	706.00	22:25:00	2736c	873.00	705.00	22:30:00	1748.00	1411.00	0.81
2737c	874.00	704.00	23:54:00	2738c	876.00	707.00	0:04:00	1750.00	1411.00	0.81
2739c	873.00	706.00	0:08:00	2740c	875.00	705.00	0:14:00	1748.00	1411.00	0.81
2741c	875.00	705.00	0:52:00	2742c	874.00	705.00	0:59:00	1749.00	1410.00	0.81
2743c	877.00	707.00	1:05:00	2744c	877.00	703.00	1:11:00	1754.00	1410.00	0.80
2745c	874.00	703.00	2:08:00	2746c	875.00	708.00	2:15:00	1749.00	1411.00	0.81
2747c	874.00	705.00	2:22:00	2748c	877.00	705.00	2:29:00	1751.00	1410.00	0.81
2749c	875.00	704.00	3:10:00	2750c	873.00	705.00	3:18:00	1748.00	1409.00	0.81
2751c	877.00	705.00	3:23:00	2752c	875.00	707.00	3:29:00	1752.00	1412.00	0.81
2753c	875.00	705.00	4:09:00	2754c	876.00	703.00	4:15:00	1751.00	1408.00	0.80
2755c	874.00	704.00	4:24:00	2756c	877.00	707.00	4:30:00	1751.00	1411.00	0.81
							TOTAL:	28002.00	22562.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-20
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2714b	207.40	3276.00	6:15:00	15.80
2716b	230.80	3616.00	6:41:00	15.67
2718b	218.30	3470.00	7:21:00	15.90
2720b	222.40	3530.00	7:43:00	15.87
2722b	223.70	3522.00	10:11:00	15.74
2724b	220.10	3466.00	10:36:00	15.75
2726b	223.00	3534.00	12:16:00	15.85
2728b	220.10	3474.00	12:43:00	15.78
2730b	216.20	3425.00	13:37:00	15.84
2732b	220.60	3482.00	14:04:00	15.78
2734b	224.50	3548.00	14:30:00	15.80
2736b	221.80	3516.00	14:57:00	15.85
2738b	224.30	3544.00	16:00:00	15.80
2740b	224.20	3536.00	16:30:00	15.77
2742b	220.80	3486.00	17:06:00	15.79
2744b	226.10	3576.00	17:31:00	15.82
2746b	218.50	3468.00	18:41:00	15.87
2748b	238.50	3756.00	19:14:00	15.75
TOTAL:	4001.30	63225.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-20
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2750b	216.20	3392.00	19:42:00	15.69
2752b	212.30	3370.00	20:00:00	15.87
2754b	211.80	3368.00	21:01:00	15.90
2756b	215.40	3452.00	21:23:00	16.03
2758b	218.70	3456.00	22:15:00	15.80
2760b	215.90	3400.00	22:31:00	15.75
2762b	213.30	3394.00	23:56:00	15.91
2764b	210.80	3324.00	0:17:00	15.77
2766b	223.30	3534.00	0:54:00	15.83
2768b	216.60	3424.00	1:13:00	15.81
2770b	212.30	3336.00	2:10:00	15.71
2772b	205.60	3256.00	2:30:00	15.84
2774b	217.00	3420.00	3:13:00	15.76
2776b	216.00	3414.00	3:30:00	15.81
2778b	212.90	3384.00	4:11:00	15.89
2780b	215.00	3394.00	4:30:00	15.79
TOTAL:	3433.10	54318.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-20
Project	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2714t	538	534			3660.0	1915.9	5575.9	4.8	2689c	2690c	2714b
2716t	538	534			3570.0	1916.5	5486.5	4.8	2691c	2692c	2716b
2718t	530	610			3580.0	1918.5	5498.5	4.8	2693c	2694c	2718b
2720t	530	610			3610.0	1918.0	5528.0	4.8	2695c	2696c	2720b
2722t	610	614			3570.0	1918.5	5488.5	4.8	2697c	2698c	2722b
2724t	610	614			3580.0	1920.6	5500.6	4.8	2699c	2700c	2724b
2726t	614	618			3590.0	1924.1	5514.1	4.8	2701c	2702c	2726b
2728t	614	618			3570.0	1919.3	5489.3	4.8	2703c	2704c	2728b
2730t	510	506			3520.0	1920.0	5440.0	4.8	2705c	2706c	2730b
2732t	510	506			3610.0	1916.5	5526.5	4.8	2707c	2708c	2732b
2734t	TOP UP ONLY				3620.0	1910.4	5530.4	4.8	2709c	2710c	2734b
2736t					3590.0	1913.8	5503.8	4.8	2711c	2712c	2736b
2738t	484	506			3640.0	1917.2	5557.2	4.8	2713c	2714c	2738b
2740t	484	506			3600.0	1925.4	5525.4	4.8	2715c	2716c	2740b
2742t	484	506	458	454	3620.0	1917.3	5537.3	4.8	2717c	2718c	2742b
2744t	484	506	458	454	3640.0	1915.2	5555.2	4.8	2719c	2720c	2744b
2746t	454	446			3526.0	1911.1	5437.1	4.8	2721c	2722c	2746b
2748t	454	446			3552.0	1912.8	5464.8	4.8	2723c	2724c	2748b
						TOTAL:	99159.1				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-20
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2750t	TOP UP ONLY				3575.0	1910.4	5485.4	4.8	2725c	2726c	2750b
2752t					3530.0	1911.0	5441.0	4.8	2727c	2728c	2752b
2754t	446	442	690		3550.0	1910.4	5460.4	4.8	2729c	2730c	2754b
2756t	446	442	690		3565.0	1910.8	5475.8	4.8	2731c	2732c	2756b
2758t	690	686			3574.0	1911.5	5485.5	4.8	2733c	2734c	2758b
2760t	690	686			3556.0	1910.5	5466.5	4.8	2735c	2736c	2760b
2762t	662	654	658		3545.0	1911.6	5456.6	4.8	2737c	2738c	2762b
2764t	662	654	658		3581.0	1910.5	5491.5	4.8	2739c	2740c	2764b
2766t	658	654			3559.0	1910.4	5469.4	4.8	2741c	2742c	2766b
2768t	658	654			3591.0	1913.2	5504.2	4.8	2743c	2744c	2768b
2770t	654	650			3558.0	1911.1	5469.1	4.8	2745c	2746c	2770b
2772t	654	650			3562.0	1911.5	5473.5	4.8	2747c	2748c	2772b
2774t	650	646			3565.0	1909.2	5474.2	4.8	2749c	2750c	2774b
2776t	650	646			3553.0	1913.4	5466.4	4.8	2751c	2752c	2776b
2778t	646	592			3579.0	1910.2	5489.2	4.8	2753c	2754c	2778b
2780t	646	592			3571.0	1912.2	5483.2	4.8	2755c	2756c	2780b
						TOTAL:	87592.1				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-20
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
						TOTAL:					

NOTES

TOP UPS

Tanks:		**Piles:**
2750t	2752t	618, 614, 610, 612, 570, 546, 484, 542, 538, 534, 530, 510, 506, 458, 494, 454
2762t	2764t	690, 686
2766t	2768t	662
2770t	2772t	658
2774t	2776t	662, 658, 654
2778t	2780t	690, 686, 662, 662, 658, 654, 650

HFDI Production Control

Project Number	1814	**Date**	2018-11-20
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	20	198.58	151.27	186.75	23.46%

Daily pile Completion:	2.05%	**Daily Cement used in KG**	56157.00
Piles Poured to Date:	737	**Total Cement used to date KG**	2391031.10
Daily L/M of Drilling:	201.23	**Daily Bentonite used in KG**	6958.80
		Total Bentonite used in KG	391810.60
		Daily Water consumption	155033.00
		Total Water Consumption	6545908.66

HFDI Representative: Alex Zapantis (Name) — (Signature)

KCG Representative: Frederic Tremblay, P. Eng. (Name) — (Signature)

2018-11-21 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Cole Allester Night Supervisor: Anthony Calnan Project Coordinator: Alex Zapantis	Date: 2018-11-21 Site Conditions: -40, moderate wind during the day and strong wind at night, blowing snow with low visibility	Shift: 24hr

FOREMAN'S SAFETY/ QUALITY MEETING

Hammer Drill - high air pressure - whip checks, slowly open valves, inspect lines and connections
Drilling - tight areas - use a spotter when required
Batching cement - silica exposure - PPE

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Produced grout, poured piles, drilled piled, rock hammered sockets
Servicing spare hammer
Vac truck was down for part of the night
Mechanical seal on cement plant failed - started taking it apart to fix
No grout night shift

DELAYS: Vac truck clog/ motor failure
Mechanical seal failure on cement plant

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-21
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0462		Day	10.00	9.30	9.60	10.45	10.20	2.00
0568	Day	Night	10.00	8.10	8.75	9.46	9.20	1.00
0572		Night	11.00	8.20	8.50	9.30	9.20	1.00
0588	Day	Night	10.00	8.10	8.90	9.30	8.90	1.00
0666	Day		10.00	9.00	9.38			
0698		Day	10.00	9.30	9.70	10.85	10.74	2.00
0718		Day	10.00	9.10	9.50	10.39	10.35	2.00
0722		Day	10.00	8.90	9.30	10.50	10.22	1.50
0726		Day	11.00	8.90	9.30	10.45	10.14	2.00
0734	Day	Day	10.00	8.90	9.70	10.95	10.70	1.00
0738	Day	Day	10.00	8.80	9.53	10.65	10.60	2.00
0742	Night		11.00	9.20	9.60			
0746	Day		10.00	9.10	9.55			
0750	Day		10.00	9.10	9.45			

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-21
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2757c	875.00	705.00	5:03:00	2758c	875.00	707.00	5:10:00	1750.00	1412.00	0.81
2759c	876.00	703.00	5:14:00	2760c	874.00	704.00	5:21:00	1750.00	1407.00	0.80
2761c	885.00	705.00	6:19:00	2762c	885.00	708.00	6:54:00	1770.00	1413.00	0.80
2763c	880.00	700.00	7:02:00	2764c	880.00	705.00	7:11:00	1760.00	1405.00	0.80
2765c	880.00	705.00	8:10:00	2766c	895.00	707.00	8:18:00	1775.00	1412.00	0.80
2767c	880.00	705.00	8:29:00	2768c	890.00	710.00	8:41:00	1770.00	1415.00	0.80
2769c	885.00	707.00	9:53:00	2770c	880.00	705.00	10:03:00	1765.00	1412.00	0.80
2771c	880.00	702.00	10:24:00	2772c	890.00	710.00	10:52:00	1770.00	1412.00	0.80
2773c	885.00	708.00	11:30:00	2774c	880.00	705.00	11:37:00	1765.00	1413.00	0.80
2775c	880.00	705.00	11:49:00	2776c	880.00	705.00	11:59:00	1760.00	1410.00	0.80
2777c	885.00	707.00	12:42:00	2778c	890.00	702.00	12:49:00	1775.00	1409.00	0.79
2779c	880.00	705.00	13:11:00	2780c	880.00	705.00	13:21:00	1760.00	1410.00	0.80
2781c	880.00	706.00	13:59:00	2782c	895.00	710.00	14:08:00	1775.00	1416.00	0.80
2783c	880.00	705.00	14:23:00	2784c	885.00	705.00	14:32:00	1765.00	1410.00	0.80
2785c	885.00	705.00	15:06:00	2786c	895.00	710.00	15:14:00	1780.00	1415.00	0.79
2787c	880.00	705.00	15:26:00	2788c	880.00	705.00	15:33:00	1760.00	1410.00	0.80
2789c	880.00	703.00	16:19:00	2790c	880.00	705.00	16:27:00	1760.00	1408.00	0.80
2791c	880.00	705.00	16:40:00	2792c	885.00	710.00	16:49:00	1765.00	1415.00	0.80
							TOTAL:	31775.00	25404.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-21
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2793c	880.00	705.00	17:29:00	2794c	880.00	705.00	17:36:00	1760.00	1410.00	0.80
2795c	880.00	705.00	17:47:00	2796c	885.00	709.00	17:54:00	1765.00	1414.00	0.80
							TOTAL:	3525.00	2824.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-21
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2782b	209.20	3310.00	5:04:00	15.82
2784b	216.60	3432.00	5:23:00	15.84
2786b	215.50	3412.00	6:11:00	15.83
2788b	217.80	3458.00	7:04:00	15.88
2790b	228.40	3618.00	8:06:00	15.84
2792b	221.00	3506.00	8:32:00	15.86
2794b	235.10	3704.00	9:50:00	15.75
2796b	223.40	3516.00	10:22:00	15.74
2798b	221.80	3512.00	11:24:00	15.83
2800b	227.20	3578.00	11:51:00	15.75
2802b	225.60	3562.00	12:37:00	15.79
2804b	227.10	3378.00	13:09:00	14.87
2806b	219.20	3448.00	14:04:00	15.73
2808b	225.80	3540.00	14:26:00	15.68
2810b	225.40	3556.00	15:04:00	15.78
2812b	222.30	3516.00	15:28:00	15.82
2814b	219.80	3500.00	16:14:00	15.92
2816b	222.50	3508.00	16:40:00	15.77
TOTAL:	4003.70	63054.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-21
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2818b	222.50	3534.00	17:26:00	15.88
2820b	219.40	3496.00	17:50:00	15.93
2822b	222.60	3526.00	SUMP	15.84
TOTAL:	664.50	10556.00		

NOTES
2822b sent to sump

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-21
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2782t	592	564			3565.0	1912.3	5477.3	4.8	2757c	2758c	2782b
2784t	592	564			3545.0	1909.0	5454.0	4.8	2759c	2760c	2784b
2786t	564	560			3600.0	1924.1	5524.1	4.8	2761c	2762c	2786b
2788t	564	560			3660.0	1913.2	5573.2	4.8	2763c	2764c	2788b
2790t	TOP UP ONLY				3650.0	1926.2	5576.2	4.8	2765c	2766c	2790b
2792t					3620.0	1925.4	5545.4	4.8	2767c	2768c	2792b
2794t	514	462			3650.0	1920.6	5570.6	4.8	2769c	2770c	2794b
2796t	514	462			3590.0	1923.4	5513.4	4.8	2771c	2772c	2796b
2798t	462				3600.0	1921.3	5521.3	4.8	2773c	2774c	2798b
2800t	462				3650.0	1916.5	5566.5	4.8	2775c	2776c	2800b
2802t	738	734			3615.0	1924.2	5539.2	4.8	2777c	2778c	2802b
2804t	738	734			3580.0	1916.5	5496.5	4.8	2779c	2780c	2804b
2806t	734	726			3560.0	1928.8	5488.8	4.8	2781c	2782c	2806b
2808t	734	726			3620.0	1919.3	5539.3	4.8	2783c	2784c	2808b
2810t	726	722			3640.0	1930.9	5570.9	4.8	2785c	2786c	2810b
2812t	726	722			3600.0	1916.5	5516.5	4.8	2787c	2788c	2812b
2814t	TOP UP ONLY				3680.0	1915.2	5595.2	4.8	2789c	2790c	2814b
2816t					3610.0	1922.6	5532.6	4.8	2791c	2792c	2816b
						TOTAL:	99601.0				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-21
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2818t	718				3590.0	1916.5	5506.5	4.8	2793c	2794c	2818b
2820t	718				3610.0	1922.0	5532.0	4.8	2795c	2796c	2820b
2822t					3613.5		3613.5	4.8			2822b
						TOTAL:	14651.9				

NOTES

TOP UPS

Tanks: **Piles:** Batch 2822 sent to sump

HFDI Production Control

Project Number	1814	**Date**	2018-11-21
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	9	91.49	69.81	114.25	63.66%

Daily pile Completion:	0.92%
Piles Poured to Date:	737
Daily L/M of Drilling:	85.00

Daily Cement used in KG	56157.00
Total Cement used to date KG	2391031.10
Daily Bentonite used in KG	6958.80
Total Bentonite used in KG	391810.60
Daily Water consumption	155033.00
Total Water Consumption	6545908.66

HFDI Representative: Alex Zapantis (Name) — (Signature)

KCG Representative: Frederic Tremblay, P. Eng. (Name) — (Signature)

2018-11-22 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Don Henry Night Supervisor: Brad Depagie Project Coordinator: Alex Zapantis	Date: 2018-11-22	Shift: 24hr
		Site Conditions: -31C, strong wind in the morning, calmed down towards the night	

FOREMAN'S SAFETY/ QUALITY MEETING

Drilling Piles - poor weather conditions, slips, trips, falls - wear propoer PPE & keep warm, watch your footing
Maintenance/ repair - rigging failure, tool failure - inspect tools and gear
Working with rigs - overhead load + rotating tools - stay out of swing radius

* Full meeting details in HFDI Doc. Pre-004 "Foreman's Safety/ Quality Meeting Record"

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Put together mechanical seal on grout plant and wait for vac truck cleanout - late start to day
Produced grout, poured piles, drilled piles, rock hammered sockets
Rebuild spare rock hammer

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-22
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0576	Night		10.00	8.40	8.70			
0580	Night	Night	10.00	8.00	8.30	9.44	9.00	1.00
0584	Night	Night	10.00	8.00	8.50	9.25	9.00	1.00
0596	Night		10.00	7.90	8.10			
0600	Night		10.00	7.80	8.00			
0624	Night	Night	10.00	9.00	9.30	10.03	10.00	1.00
0628	Night	Night	10.00	8.40	9.10	9.80	9.40	1.00
0644	Night	Night	10.00	9.00	9.70	10.43	10.00	1.00
0666		Night	13.00	9.00	11.70	11.60	10.60	5.00
0674	Night	Night	11.00	10.20	10.70	11.50	11.30	1.00
0682		Night	10.00	9.80	9.90	11.44	11.28	4.50
0694	Night	Night	10.00	9.00	9.30	10.50	10.50	1.00
0710	Night		11.00	10.30	10.70			
0714	Day	Day	10.00	9.00	9.75	11.10	11.00	2.00
0730	Day	Day	10.00	8.90	9.65	10.60	10.40	1.00
0742		Day	11.00	9.20	9.60	10.93	10.90	4.00
0746		Day	10.00	9.10	9.55	10.85	10.80	1.50
0750		Day	10.00	9.10	9.45	10.55	10.40	1.50

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-22
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0968	Night		5.00	4.50	4.60	4.50		
0970	Day		5.00	4.80	4.75	4.80		
0972	Day		5.00	4.70	4.70	4.70		
0974	Day		4.00	4.80	3.95	4.80		
					TOTAL	18.80		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-22
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2801c	885.00	710.00	10:00:00	2802c	875.00	705.00	10:13:00	1760.00	1415.00	0.80
2803c	880.00	705.00	10:34:00	2804c	880.00	708.00	10:45:00	1760.00	1413.00	0.80
2805c	880.00	705.00	11:13:00	2806c	875.00	703.00	11:21:00	1755.00	1408.00	0.80
2807c	880.00	705.00	11:42:00	2808c	890.00	710.00	11:49:00	1770.00	1415.00	0.80
2809c	880.00	705.00	12:14:00	2810c	875.00	705.00	12:23:00	1755.00	1410.00	0.80
2811c	880.00	707.00	12:50:00	2812c	885.00	710.00	12:57:00	1765.00	1417.00	0.80
2813c	880.00	705.00	15:29:00	2814c	880.00	708.00	15:39:00	1760.00	1413.00	0.80
2815c	880.00	705.00	15:38:00	2816c	880.00	705.00	16:07:00	1760.00	1410.00	0.80
2817c	880.00	705.00	17:05:00	2818c	890.00	710.00	17:15:00	1770.00	1415.00	0.80
2819c	880.00	705.00	17:25:00	2820c	880.00	705.00	17:32:00	1760.00	1410.00	0.80
2821c	875.00	705.00	18:45:00	2822c	876.00	708.00	18:52:00	1751.00	1413.00	0.81
2823c	874.00	706.00	18:57:00	2824c	879.00	704.00	19:04:00	1753.00	1410.00	0.80
2825c	875.00	705.00	19:46:00	2826c	874.00	706.00	19:55:00	1749.00	1411.00	0.81
2827c	876.00	703.00	20:01:00	2828c	874.00	704.00	20:07:00	1750.00	1407.00	0.80
2829c	875.00	705.00	20:41:00	2830c	873.00	703.00	20:48:00	1748.00	1408.00	0.81
2831c	877.00	706.00	20:58:00	2832c	875.00	707.00	21:07:00	1752.00	1413.00	0.81
2833c	875.00	705.00	21:45:00	2834c	874.00	706.00	21:51:00	1749.00	1411.00	0.81
							TOTAL:	29867.00	23999.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-22
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2835c	877.00	703.00	21:56:00	2836c	878.00	708.00	22:05:00	1755.00	1411.00	0.80
2837c	876.00	704.00	22:42:00	2838c	875.00	705.00	22:49:00	1751.00	1409.00	0.80
2839c	874.00	704.00	22:57:00	2840c	875.00	704.00	23:03:00	1749.00	1408.00	0.81
2841c	875.00	706.00	23:41:00	2842c	878.00	704.00	23:49:00	1753.00	1410.00	0.80
2843c	873.00	705.00	23:54:00	2844c	875.00	707.00	0:01:00	1748.00	1412.00	0.81
2845c	875.00	708.00	1:24:00	2846c	874.00	706.00	1:30:00	1749.00	1414.00	0.81
2847c	875.00	708.00	1:39:00	2848c	873.00	709.00	1:47:00	1748.00	1417.00	0.81
2849c	875.00	705.00	2:05:00	2850c	876.00	703.00	2:15:00	1751.00	1408.00	0.80
2851c	874.00	707.00	2:24:00	2852c	874.00	705.00	2:28:00	1748.00	1412.00	0.81
2853c	875.00	704.00	3:05:00	2854c	874.00	703.00	3:11:00	1749.00	1407.00	0.80
2855c	873.00	706.00	3:18:00	2856c	877.00	707.00	3:25:00	1750.00	1413.00	0.81
							TOTAL:	19251.00	15521.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-22
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2824b	216.40	3456.00	Sump	15.97
2826b	216.80	3430.00	9:59:00	15.82
2828b	225.00	3554.00	10:33:00	15.80
2830b	226.10	3588.00	11:10:00	15.87
2832b	219.60	3548.00	11:46:00	16.16
2834b	226.80	3560.00	12:20:00	15.70
2836b	226.50	3590.00	12:48:00	15.85
2838b	224.50	3354.00	15:27:00	14.94
2840b	220.10	3490.00	15:58:00	15.86
2842b	229.20	3648.00	17:03:00	15.92
2844b	220.60	3484.00	17:28:00	15.79
2846b	224.60	3544.00	18:47:00	15.78
2848b	210.20	3330.00	19:05:00	15.84
2850b	211.60	3558.00	19:47:00	16.81
2852b	215.30	3400.00	20:08:00	15.79
2854b	220.30	3502.00	20:42:00	15.90
2856b	214.20	3400.00	21:09:00	15.87
2858b	217.90	3428.00	21:46:00	15.73
TOTAL:	3965.70	62864.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-22
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2860b	215.60	3418.00	22:05:00	15.85
2862b	220.80	3498.00	22:43:00	15.84
2864b	234.70	3706.00	23:04:00	15.79
2866b	209.90	3330.00	23:44:00	15.86
2868b	215.40	3400.00	0:03:00	15.78
2870b	216.90	3422.00	1:25:00	15.78
2872b	214.60	3380.00	1:42:00	15.75
2874b	226.50	3568.00	2:12:00	15.75
2876b	212.60	3386.00	2:27:00	15.93
2878b	218.90	3456.00	3:00:00	15.79
2880b	216.30	3402.00	3:30:00	15.73
TOTAL:	2402.20	37966.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-22
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2824t					3539.8						2824b
2826t	TOP UP ONLY				3640.0	1919.9	5559.9	4.8	2801c	2802c	2826b
2828t					3630.0	1918.5	5548.5	4.8	2803c	2804c	2828b
2830t	972	974			3580.0	1912.4	5492.4	4.8	2805c	2806c	2830b
2832t	972				3650.0	1925.4	5575.4	4.8	2807c	2808c	2832b
2834t					3590.0	1913.7	5503.7	4.8	2809c	2810c	2834b
2836t	572	568			3650.0	1924.0	5574.0	4.8	2811c	2812c	2836b
2838t	568	588			3640.0	1918.5	5558.5	4.8	2813c	2814c	2838b
2840t	568	588			3630.0	1916.5	5546.5	4.8	2815c	2816c	2840b
2842t	588	750	746		3580.0	1925.4	5505.4	4.8	2817c	2818c	2842b
2844t	588	750	746		3630.0	1916.5	5546.5	4.8	2819c	2820c	2844b
2846t	970	746			3530.0	1913.5	5443.5	4.8	2821c	2822c	2846b
2848t	970	746			3525.0	1912.6	5437.6	4.8	2823c	2824c	2848b
2850t	968	746	742		3547.0	1911.1	5458.1	4.8	2825c	2826c	2850b
2852t	968	746	742		3582.0	1909.0	5491.0	4.8	2827c	2828c	2852b
2854t	742	730			3528.0	1908.5	5436.5	4.8	2829c	2830c	2854b
2856t	742				3555.0	1914.1	5469.1	4.8	2831c	2832c	2856b
2858t					3601.0	1911.1	5512.1	4.8	2833c	2834c	2858b
						TOTAL:	93658.8				

NOTES

Batch 2824t sent to sump

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-22
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2860t	730	702			3553.0	1914.4	5467.4	4.8	2835c	2836c	2860b
2862t	702				3558.0	1910.9	5468.9	4.8	2837c	2838c	2862b
2864t	702				3550.0	1909.1	5459.1	4.8	2839c	2840c	2864b
2866t	TOP UP ONLY				3565.0	1912.6	5477.6	4.8	2841c	2842c	2866b
2868t	698				3572.0	1911.2	5483.2	4.8	2843c	2844c	2868b
2870t	698	694	682		3588.0	1913.1	5501.1	4.8	2845c	2846c	2870b
2872t	698	694	682		3561.0	1914.5	5475.5	4.8	2847c	2848c	2872b
2874t	682				3580.0	1910.2	5490.2	4.8	2849c	2850c	2874b
2876t	682				3601.0	1911.2	5512.2	4.8	2851c	2852c	2876b
2878t	TOP UP ONLY				3548.0	1908.4	5456.4	4.8	2853c	2854c	2878b
2880t					3562.0	1913.0	5475.0	4.8	2855c	2856c	2880b
						TOTAL:	60266.7				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-22
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
						TOTAL:					

NOTES

TOP UPS

Tanks:		**Piles:**
2826t	2828t	718, 722, 726, 734, 738
2830t	2832t	442, 446, 462, 506, 514, 560, 592
2846t	2848t	972, 974, 592, 588, 572, 568, 514, 462, 442
2850t	2852t	970
2862t	2864t	750, 746, 742
2866t		750, 730, 588, 572, 568
2874t	2876t	694
2878t	2880t	698, 682, 702, 730, 742, 746

HFDI Production Control

Project Number	1814	**Date**	2018-11-22
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	15	133.72	102.57	157.47	53.52%

Daily pile Completion:	1.54%	**Daily Cement used in KG**	49118.00
Piles Poured to Date:	761	**Total Cement used to date KG**	2535157.10
Daily L/M of Drilling:	155.02	**Daily Bentonite used in KG**	6367.90
		Total Bentonite used in KG	410281.10
		Daily Water consumption	140350.00
		Total Water Consumption	6960260.66

HFDI Representative: Alex Zapantis (Name) — (Signature)

KCG Representative: Frederic Tremblay, P. Eng. (Name) — (Signature)

2018-11-23 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Don Henry Night Supervisor: Brad Depagie Project Coordinator: De Wet Neehling	Date: 2018-11-23	Shift: 24hr
		Site Conditions: -38C	

FOREMAN'S SAFETY/ QUALITY MEETING

Drill piles - open holes, pinch points - hole covering, eye contact
Pouring piles - equipment backing up, water, slips - use spotters, watch footing
Working in cold conditions - frost bite - warm up when required

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Crew change - did maintenance on dike and grout plant, trying to start generator for HFDI shop area
Night shift restarted production - produced grout, poured piles, drilled piles, rock hammered sockets
Casings were frozen in ground - one casing top cracked when removing due to cold weather conditions

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	**Date**	2018-11-23
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0596		Night	10.00	7.90	8.10	9.20	8.90	1.50
0600		Night	10.00	7.80	8.00	9.40	9.20	1.50
0706	Night	Night	12.00	10.30	11.70	11.40	11.20	1.00
0710		Night	11.00	10.30	10.70	11.00	10.80	1.00
0714		Night	10.00	9.00	9.75	11.10	11.00	3.00
0762	Night		10.00	8.35	8.90			

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-23
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2857c	860.00	755.00	21:08:00	2858c	870.00	714.00	21:21:00	1730.00	1469.00	0.85
2859c	860.00	753.00	21:32:00	2860c	865.00	743.00	21:43:00	1725.00	1496.00	0.87
2861c	866.00	740.00	22:04:00	2862c	865.00	756.00	22:15:00	1731.00	1496.00	0.86
2863c	864.00	753.00	22:36:00	2864c	865.00	711.00	22:49:00	1729.00	1464.00	0.85
2865c	866.00	711.00	23:11:00	2866c	869.00	710.00	23:29:00	1735.00	1421.00	0.82
2867c	867.00	756.00	23:46:00	2868c	862.00	756.00	23:55:00	1729.00	1512.00	0.87
2869c	865.00	738.00	12:23:00	2870c	866.00	750.00	12:31:00	1731.00	1488.00	0.86
2871c	864.00	752.00	12:42:00	2872c	868.00	753.00	12:50:00	1732.00	1505.00	0.87
2873c	868.00	736.00	1:12:00	2874c	867.00	756.00	1:19:00	1735.00	1492.00	0.86
2875c	867.00	758.00	1:33:00	2876c	866.00	753.00	1:46:00	1733.00	1511.00	0.87
2877c	872.00	762.00	2:32:00	2878c	867.00	750.00	2:41:00	1739.00	1512.00	0.87
2879c	863.00	755.00	2:52:00	2880c	866.00	757.00	3:01:00	1729.00	1512.00	0.87
2881c	865.00	738.00	3:52:00	2882c	865.00	756.00	4:04:00	1730.00	1494.00	0.86
2883c	868.00	737.00	4:18:00	2884c	865.00	737.00	4:28:00	1733.00	1474.00	0.85
							TOTAL:	24241.00	20846.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-23
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2882b	246.70	3908.00	20:40:00	15.84
2884b	202.90	3216.00	21:32:00	15.85
2886b	210.40	3318.80	22:09:00	15.77
2888b	210.80	3338.80	22:39:00	15.84
2890b	208.40	3294.00	23:20:00	15.81
2892b	208.20	3304.00	23:48:00	15.87
2894b	213.30	3358.00	12:16:00	15.74
2896b	206.10	3264.00	16:46:00	15.84
2898b	209.80	3316.00	1:14:00	15.81
2900b	209.70	3324.00	1:43:00	15.85
2902b	200.60	3202.00	2:28:00	15.96
2904b	207.80	3274.00	2:55:00	15.76
2906b	212.00	3358.00	3:48:00	15.84
2908b	213.00	3368.00	4:20:00	15.81
TOTAL:	2959.70	46843.60		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-23
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2882t	674				3997.7	1939.3	5937.0	4.8	2857c	2858c	2882b
2884t	674				3289.7	1954.6	5244.3	4.8	2859c	2860c	2884b
2886t	674	666			3387.4	1957.9	5345.3	4.8	2861c	2862c	2886b
2888t	674	666			3414.7	1935.4	5350.1	4.8	2863c	2864c	2888b
2890t	666	644			3378.1	1910.0	5288.1	4.8	2865c	2866c	2890b
2892t	666	644			3379.5	1967.5	5347.0	4.8	2867c	2868c	2892b
2894t	644				3437.0	1952.6	5389.6	4.8	2869c	2870c	2894b
2896t	644				3339.0	1964.5	5303.5	4.8	2871c	2872c	2896b
2898t	628				3392.7	1957.5	5350.2	4.8	2873c	2874c	2898b
2900t	628				3400.2	1969.0	5369.2	4.8	2875c	2876c	2900b
2902t	624				3274.1	1973.0	5247.1	4.8	2877c	2878c	2902b
2904t	624				3350.3	1967.5	5317.8	4.8	2879c	2880c	2904b
2906t	624				3435.9	1956.0	5391.9	4.8	2881c	2882c	2906b
2908t	624				3554.7	1944.3	5499.0	4.8	2883c	2884c	2908b
						TOTAL:	75380.1				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-23
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
						TOTAL:					

NOTES

TOP UPS

Tanks:		**Piles:**
2882t	2884t	750, 746, 702, 698, 694
2894t	2896t	666
2898t	2900t	666
2902t	2904t	730, 742

HFDI Production Control

Project Number	1814	**Date**	2018-11-23
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	5	53.36	40.75	75.38	84.98%

Daily pile Completion:	0.51%	**Daily Cement used in KG**	24241.00
Piles Poured to Date:	767	**Total Cement used to date KG**	2559398.10
Daily L/M of Drilling:	26.65	**Daily Bentonite used in KG**	2959.70
		Total Bentonite used in KG	413240.80
		Daily Water consumption	67689.60
		Total Water Consumption	7027950.26

HFDI Representative: De Wet Neethling (Name) — (Signature)

KCG Representative: Frederic Tremblay, P. Eng. (Name) — (Signature)

2018-11-24 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Don Henry Night Supervisor: Brad Depagie Project Coordinator: De Wet Neehling	Date: 2018-11-24 Site Conditions: -39C	Shift: 24hr

FOREMAN'S SAFETY/ QUALITY MEETING

Drill Piles - Falling debris, swing radius, Machine Failure - Proper PPE, Use Spotter, Inspections
Mix Grout - Grout burns, machine failure, inhalation - Proper PPE, Inspections
Pour Grout - Grout burns, open holes, Trucks backing up - Proper PPE, Hole covers, Use spotters

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Night crew had problems with frozen Kelly bar on hammer drill
Welders started replacing teeth on casings
Produced grout, poured piles, drilled piles, drilled sockets

DELAYS: Frozen Kelly Bars on Rock Hammers - 6 hours of rock hammering

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-24
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0548	Day	Day	10.00	7.80	8.00	9.22	9.20	1.00
0552	Day	Day	10.00	8.50	8.70	9.85	9.64	1.00
0556	Day	Day	10.00	8.50	9.00	9.60	9.52	1.00
0604	Day	Day	10.00	8.20	8.50	9.30	9.10	1.00
0608	Day	Day	10.00	8.10	8.30	9.50	9.21	1.00
0612	Day	Night	10.00	10.00	8.40	9.60	9.42	1.50
0620	Day	Night	10.00	8.40	8.50	9.50	9.15	1.50
0632	Night	Night	10.00	9.10	9.70	10.30	9.80	Core Barrel
0636	Night	Night	10.00	9.60	9.90	11.00	10.60	Core Barrel
0640	Night	Night	10.00	8.70	9.50	10.20	9.80	Core Barrel
0670	Day	Night	13.00	11.50	12.20	12.90	12.50	
0682	Day	Night	12.00	10.40	11.20	11.44	11.28	4.50
0688	Day	Day	11.00	9.20	9.70	10.90	10.80	1.00
0692	Day	Day	11.00	9.50	9.50	10.60	10.50	1.00
0754	Night		11.00	8.70	9.17			
0758	Day		10.00	8.20	8.60			
0762	Night	Day	10.00	8.35	8.90	10.10	10.00	1.00
0909	Day		8.00	6.45	7.00			

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	**Date**	2018-11-24
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0913	Day	Night	9.00	6.62	6.80	8.50	8.10	Core Barrel
0917	Day	Night	8.00	6.10	6.40	8.00	7.80	Core Barrel
					TOTAL	16.50		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-24
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2885c	871.00	755.00	5:15:00	2886c	868.00	744.00	5:26:00	1739.00	1499.00	0.86
2887c	866.00	755.00	5:38:00	2888c	865.00	748.00	5:47:00	1731.00	1503.00	0.87
2889c	865.00	734.00	6:25:00	2890c	870.00	754.00	6:30:00	1735.00	1488.00	0.86
2891c	864.00	747.00	6:43:00	2892c	870.00	742.00	6:52:00	1734.00	1489.00	0.86
2893c	864.00	707.00	7:34:00	2894c	868.00	705.00	7:40:00	1732.00	1412.00	0.82
2895c	868.00	708.00	7:52:00	2896c	869.00	705.00	7:58:00	1737.00	1413.00	0.81
2897c	882.00	724.00	8:47:00	2898c	884.00	720.00	8:55:00	1766.00	1444.00	0.82
2899c	882.00	721.00	9:07:00	2900c	884.00	720.00	9:15:00	1766.00	1441.00	0.82
2901c	887.00	724.00	9:53:00	2902c	889.00	725.00	10:00:00	1776.00	1449.00	0.82
2903c	889.00	721.00	10:09:00	2904c	890.00	720.00	10:16:00	1779.00	1441.00	0.81
2905c	883.00	721.00	11:06:00	2906c	888.00	724.00	11:13:00	1771.00	1445.00	0.82
2907c	884.00	768.00	11:26:00	2908c	884.00	773.00	11:33:00	1768.00	1541.00	0.87
2909c	887.00	710.00	12:20:00	2910c	887.00	735.00	12:26:00	1774.00	1445.00	0.81
2911c	889.00	734.00	12:38:00	2912c	892.00	743.00	12:44:00	1781.00	1477.00	0.83
2913c	889.00	742.00	13:09:00	2914c	884.00	740.00	13:17:00	1773.00	1482.00	0.84
2915c	884.00	731.00	13:28:00	2916c	887.00	749.00	13:35:00	1771.00	1480.00	0.84
2917c	887.00	720.00	14:08:00	2918c	884.00	741.00	14:16:00	1771.00	1461.00	0.82
2919c	884.00	740.00	14:30:00	2920c	889.00	735.00	14:37:00	1773.00	1475.00	0.83
							TOTAL:	31677.00	26385.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	**Date**	2018-11-24
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2921c	911.00	703.00	15:16:00	2922c	915.00	722.00	15:23:00	1826.00	1425.00	0.78
2923c	916.00	730.00	15:35:00	2924c	910.00	738.00	15:43:00	1826.00	1468.00	0.80
2925c	914.00	705.00	16:39:00	2926c	917.00	731.00	16:45:00	1831.00	1436.00	0.78
2927c	910.00	726.00	17:06:00	2928c	917.00	735.00	17:14:00	1827.00	1461.00	0.80
2929c	916.00	721.00	18:27:00	2930c	915.00	727.00	18:37:00	1831.00	1448.00	0.79
2931c	914.00	739.00	18:43:00	2932c	913.00	734.00	18:52:00	1827.00	1473.00	0.81
2933c	913.00	725.00	19:40:00	2934c	914.00	703.00	19:48:00	1827.00	1428.00	0.78
2935c	916.00	721.00	20:08:00	2936c	918.00	722.00	20:23:00	1834.00	1443.00	0.79
2937c	915.00	713.00	20:56:00	2938c	914.00	729.00	21:03:00	1829.00	1442.00	0.79
2939c	918.00	725.00	21:14:00	2940c	921.00	722.00	21:21:00	1839.00	1447.00	0.79
2941c	915.00	717.00	21:42:00	2942c	916.00	760.00	21:49:00	1831.00	1477.00	0.81
2943c	917.00	719.00	22:06:00	2944c	910.00	737.00	22:14:00	1827.00	1456.00	0.80
2945c	912.00	731.00	22:44:00	2946c	913.00	724.00	22:51:00	1825.00	1455.00	0.80
2947c	916.00	718.00	23:10:00	2948c	912.00	760.00	23:17:00	1828.00	1478.00	0.81
2949c	917.00	702.00	1:03:00	2950c	912.00	733.00	1:10:00	1829.00	1435.00	0.78
2951c	917.00	723.00	1:24:00	2952c	928.00	736.00	1:30:00	1845.00	1459.00	0.79
2953c	912.00	716.00	2:11:00	2954c	926.00	762.00	2:19:00	1838.00	1478.00	0.80
2955c	915.00	715.00	2:37:00	2956c	915.00	733.00	2:44:00	1830.00	1448.00	0.79
							TOTAL:	32950.00	26157.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	**Date**	2018-11-24
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2957c	915.00	718.00	3:09:00	2958c	915.00	729.00	3:18:00	1830.00	1447.00	0.79
2959c	918.00	728.00	3:26:00	2960c	918.00	751.00	3:34:00	1836.00	1479.00	0.81
2961c	914.00	718.00	4:27:00	2962c	918.00	730.00	4:34:00	1832.00	1448.00	0.79
							TOTAL:	5498.00	4374.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-24
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2910b	207.50	3292.00	5:18:00	15.87
2912b	206.10	3266.00	5:41:00	15.85
2914b	213.00	3360.00	6:27:00	15.77
2916b	211.80	3338.00	6:54:00	15.76
2918b	212.80	3370.00	7:36:00	15.84
2920b	218.60	3458.00	7:59:00	15.82
2922b	213.60	3364.00	8:49:00	15.75
2924b	215.00	3404.00	9:16:00	15.83
2926b	219.20	3468.00	9:55:00	15.82
2928b	215.60	3404.00	10:19:00	15.79
2930b	214.00	3382.00	11:08:00	15.80
2932b	214.50	3416.00	11:36:00	15.93
2934b	213.80	3394.00	12:22:00	15.87
2936b	219.30	3466.00	12:46:00	15.80
2938b	215.80	3424.00	13:11:00	15.87
2940b	221.60	3482.00	13:34:00	15.71
2942b	216.40	3412.00	14:09:00	15.77
2944b	219.60	3464.00	14:39:00	15.77
TOTAL:	3868.20	61164.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-24
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2946b	215.60	3402.00	15:18:00	15.78
2948b	219.60	3468.00	15:45:00	15.79
2950b	224.10	3530.00	16:41:00	15.75
2952b	213.70	3390.00	17:15:00	15.86
2954b	216.30	3388.00	18:08:00	15.66
2956b	209.10	3294.00	18:38:00	15.75
2958b	211.10	3344.00	19:33:00	15.84
2960b	213.40	3374.00	20:10:00	15.81
2962b	207.50	3292.00	20:58:00	15.87
2964b	213.20	3380.00	21:18:00	15.85
2966b	207.10	3280.00	21:44:00	15.84
2968b	204.50	3248.00	22:08:00	15.88
2970b	212.90	3348.00	22:33:00	15.73
2972b	208.30	3292.00	23:12:00	15.80
2974b	208.90	3272.00	1:05:00	15.66
2976b	210.10	3336.00	1:27:00	15.88
2978b	213.40	3296.00	2:25:00	15.45
2980b	209.00	3306.00	2:39:00	15.82
TOTAL:	3817.80	60240.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-24
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2982b	214.90	3396.00	3:02:00	15.80
2984b	212.80	3374.00	3:29:00	15.86
2986b	207.30	3270.00	4:29:00	15.77
TOTAL:	635.00	10040.00		

NOTES

2822b sent to sump

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-24
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2910t	600	596			3367.3	1964.3	5331.6	4.8	2885c	2886c	2910b
2912t	600	596			3340.9	1962.6	5303.5	4.8	2887c	2888c	2912b
2914t	596	584	580		3444.3	1954.8	5399.1	4.8	2889c	2890c	2914b
2916t	596	584	580		3422.0	1954.9	5376.8	4.8	2891c	2892c	2916b
2918t	580	576			3453.6	1902.3	5356.0	4.8	2893c	2894c	2918b
2920t	580	576			3544.1	1905.8	5449.9	4.8	2895c	2896c	2920b
2922t	576				3448.8	1942.6	5391.3	4.8	2897c	2898c	2922b
2924t	576				3488.5	1940.5	5429.1	4.8	2899c	2900c	2924b
2926t	706	710			3554.3	1951.4	5505.7	4.8	2901c	2902c	2926b
2928t	706	710			3489.2	1947.7	5436.9	4.8	2903c	2904c	2928b
2930t	710	714			3466.4	1946.0	5412.4	4.8	2905c	2906c	2930b
2932t	710	714			3499.5	2008.5	5507.9	4.8	2907c	2908c	2932b
2934t	714	762			3477.7	1947.7	5425.3	4.8	2909c	2910c	2934b
2936t	714	762			3552.5	1972.9	5525.4	4.8	2911c	2912c	2936b
2938t	604	608			3508.5	1971.8	5480.3	4.8	2913c	2914c	2938b
2940t	604	608			3570.3	1969.4	5539.7	4.8	2915c	2916c	2940b
2942t	608	556			3497.7	1956.7	5454.4	4.8	2917c	2918c	2942b
2944t	608	556			3550.9	1967.1	5518.1	4.8	2919c	2920c	2944b
						TOTAL:	97843.5				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-24
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2946t	556	548			3487.3	1963.1	5450.4	4.8	2921c	2922c	2946b
2948t	556	548			3554.7	1991.8	5546.5	4.8	2923c	2924c	2948b
2950t	548	692	598		3618.9	1973.2	5592.1	4.8	2925c	2926c	2950b
2952t	548	692	598		3473.7	1987.7	5461.4	4.8	2927c	2928c	2952b
2954t	692	682	688		3474.7	1981.2	5455.9	4.8	2929c	2930c	2954b
2956t	692	682	688		3376.9	1995.7	5372.7	4.8	2931c	2932c	2956b
2958t	TOP UP ONLY				3426.9	1965.6	5392.6	4.8	2933c	2934c	2958b
2960t					3458.1	1979.5	5437.7	4.8	2935c	2936c	2960b
2962t	688				3373.3	1976.1	5349.4	4.8	2937c	2938c	2962b
2964t	688				3463.6	1985.0	5448.6	4.8	2939c	2940c	2964b
2966t	688	620			3361.4	2000.6	5362.0	4.8	2941c	2942c	2966b
2968t	688	620			3328.0	1984.3	5312.3	4.8	2943c	2944c	2968b
2970t	620	612			3432.7	1982.6	5415.3	4.8	2945c	2946c	2970b
2972t	620	612			3374.2	1999.6	5373.8	4.8	2947c	2948c	2972b
2974t	TOP UP ONLY				3355.7	1971.4	5327.1	4.8	2949c	2950c	2974b
2976t					3418.2	1996.3	5414.5	4.8	2951c	2952c	2976b
2978t	636	632			3383.5	2005.1	5388.7	4.8	2953c	2954c	2978b
2980t	636	632			3388.3	1980.7	5369.0	4.8	2955c	2956c	2980b
						TOTAL:	97469.9				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-24
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2982t	632	640			3480.8	1980.0	5460.8	4.8	2957c	2958c	2982b
2984t	632	640			3457.5	2004.7	5462.2	4.8	2959c	2960c	2984b
2986t	640				3352.0	1981.8	5333.8	4.8	2961c	2962c	2986b
						TOTAL:	16256.8				

NOTES

TOP UPS

Tanks:		Piles:
2922t	2924t	698, 694, 666, 628, 624, 596, 580, 576
2934t	2934t	706, 710
2958t	2960t	762, 714, 710, 706, 628, 624, 608, 604
2962t	2964t	600, 596, 854, 580, 576, 556, 552
2970t	2972t	706, 692
2974t	2976t	714, 710, 706, 620, 624, 608, 674, 656, 644, 604, 556, 584, 580, 576, 600, 596, 552
2978t	2980t	552, 548, 620

HFDI Production Control

Project Number	1814	**Date**	2018-11-24
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	21	210.06	161.04	215.00	33.50%

Daily pile Completion:	2.15%	**Daily Cement used in KG**	70125.00
Piles Poured to Date:	788	**Total Cement used to date KG**	2629523.10
Daily L/M of Drilling:	184.47	**Daily Bentonite used in KG**	8530.70
		Total Bentonite used in KG	421771.50
		Daily Water consumption	191704.00
		Total Water Consumption	7219654.26

HFDI Representative: De Wet Neethling (Name) — (Signature)

KCG Representative: Frederic Tremblay, P. Eng. (Name) — (Signature)

2018-11-25 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Don Henry Night Supervisor: Brad Depagie Project Coordinator: De Wet Neehling	Date: 2018-11-24 Site Conditions: -39C	Shift: 24hr

FOREMAN'S SAFETY/ QUALITY MEETING

Drill Piles - Falling debris, swing radius, Machine Failure - Proper PPE, Use Spotter, Inspections
Mix Grout - Grout burns, machine failure, inhalation - Proper PPE, Inspections
Pour Grout - Grout burns, open holes, Trucks backing up - Proper PPE, Hole covers, Use spotters

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Night crew had problems with frozen Kelly bar on hammer drill
Welders started replacing teeth on casings
Produced grout, poured piles, drilled piles, drilled sockets

DELAYS: Frozen Kelly Bars on Rock Hammers - 6 hours of rock hammering

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-24
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0548	Day	Day	10.00	7.80	8.00	9.22	9.20	1.00
0552	Day	Day	10.00	8.50	8.70	9.85	9.64	1.00
0556	Day	Day	10.00	8.50	9.00	9.60	9.52	1.00
0604	Day	Day	10.00	8.20	8.50	9.30	9.10	1.00
0608	Day	Day	10.00	8.10	8.30	9.50	9.21	1.00
0612	Day	Night	10.00	10.00	8.40	9.60	9.42	1.50
0620	Day	Night	10.00	8.40	8.50	9.50	9.15	1.50
0632	Night	Night	10.00	9.10	9.70	10.30	9.80	Core Barrel
0636	Night	Night	10.00	9.60	9.90	11.00	10.60	Core Barrel
0640	Night	Night	10.00	8.70	9.50	10.20	9.80	Core Barrel
0670	Day	Night	13.00	11.50	12.20	12.90	12.50	
0682	Day	Night	12.00	10.40	11.20	11.44	11.28	4.50
0688	Day	Day	11.00	9.20	9.70	10.90	10.80	1.00
0692	Day	Day	11.00	9.50	9.50	10.60	10.50	1.00
0754	Night		11.00	8.70	9.17			
0758	Day		10.00	8.20	8.60			
0762	Night	Day	10.00	8.35	8.90	10.10	10.00	1.00
0909	Day		8.00	6.45	7.00			

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	**Date**	2018-11-24
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0913	Day	Night	9.00	6.62	6.80	8.50	8.10	Core Barrel
0917	Day	Night	8.00	6.10	6.40	8.00	7.80	Core Barrel
					TOTAL	16.50		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-24
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2885c	871.00	755.00	5:15:00	2886c	868.00	744.00	5:26:00	1739.00	1499.00	0.86
2887c	866.00	755.00	5:38:00	2888c	865.00	748.00	5:47:00	1731.00	1503.00	0.87
2889c	865.00	734.00	6:25:00	2890c	870.00	754.00	6:30:00	1735.00	1488.00	0.86
2891c	864.00	747.00	6:43:00	2892c	870.00	742.00	6:52:00	1734.00	1489.00	0.86
2893c	864.00	707.00	7:34:00	2894c	868.00	705.00	7:40:00	1732.00	1412.00	0.82
2895c	868.00	708.00	7:52:00	2896c	869.00	705.00	7:58:00	1737.00	1413.00	0.81
2897c	882.00	724.00	8:47:00	2898c	884.00	720.00	8:55:00	1766.00	1444.00	0.82
2899c	882.00	721.00	9:07:00	2900c	884.00	720.00	9:15:00	1766.00	1441.00	0.82
2901c	887.00	724.00	9:53:00	2902c	889.00	725.00	10:00:00	1776.00	1449.00	0.82
2903c	889.00	721.00	10:09:00	2904c	890.00	720.00	10:16:00	1779.00	1441.00	0.81
2905c	883.00	721.00	11:06:00	2906c	888.00	724.00	11:13:00	1771.00	1445.00	0.82
2907c	884.00	768.00	11:26:00	2908c	884.00	773.00	11:33:00	1768.00	1541.00	0.87
2909c	887.00	710.00	12:20:00	2910c	887.00	735.00	12:26:00	1774.00	1445.00	0.81
2911c	889.00	734.00	12:38:00	2912c	892.00	743.00	12:44:00	1781.00	1477.00	0.83
2913c	889.00	742.00	13:09:00	2914c	884.00	740.00	13:17:00	1773.00	1482.00	0.84
2915c	884.00	731.00	13:28:00	2916c	887.00	749.00	13:35:00	1771.00	1480.00	0.84
2917c	887.00	720.00	14:08:00	2918c	884.00	741.00	14:16:00	1771.00	1461.00	0.82
2919c	884.00	740.00	14:30:00	2920c	889.00	735.00	14:37:00	1773.00	1475.00	0.83
							TOTAL:	31677.00	26385.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	**Date**	2018-11-24
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2921c	911.00	703.00	15:16:00	2922c	915.00	722.00	15:23:00	1826.00	1425.00	0.78
2923c	916.00	730.00	15:35:00	2924c	910.00	738.00	15:43:00	1826.00	1468.00	0.80
2925c	914.00	705.00	16:39:00	2926c	917.00	731.00	16:45:00	1831.00	1436.00	0.78
2927c	910.00	726.00	17:06:00	2928c	917.00	735.00	17:14:00	1827.00	1461.00	0.80
2929c	916.00	721.00	18:27:00	2930c	915.00	727.00	18:37:00	1831.00	1448.00	0.79
2931c	914.00	739.00	18:43:00	2932c	913.00	734.00	18:52:00	1827.00	1473.00	0.81
2933c	913.00	725.00	19:40:00	2934c	914.00	703.00	19:48:00	1827.00	1428.00	0.78
2935c	916.00	721.00	20:08:00	2936c	918.00	722.00	20:23:00	1834.00	1443.00	0.79
2937c	915.00	713.00	20:56:00	2938c	914.00	729.00	21:03:00	1829.00	1442.00	0.79
2939c	918.00	725.00	21:14:00	2940c	921.00	722.00	21:21:00	1839.00	1447.00	0.79
2941c	915.00	717.00	21:42:00	2942c	916.00	760.00	21:49:00	1831.00	1477.00	0.81
2943c	917.00	719.00	22:06:00	2944c	910.00	737.00	22:14:00	1827.00	1456.00	0.80
2945c	912.00	731.00	22:44:00	2946c	913.00	724.00	22:51:00	1825.00	1455.00	0.80
2947c	916.00	718.00	23:10:00	2948c	912.00	760.00	23:17:00	1828.00	1478.00	0.81
2949c	917.00	702.00	1:03:00	2950c	912.00	733.00	1:10:00	1829.00	1435.00	0.78
2951c	917.00	723.00	1:24:00	2952c	928.00	736.00	1:30:00	1845.00	1459.00	0.79
2953c	912.00	716.00	2:11:00	2954c	926.00	762.00	2:19:00	1838.00	1478.00	0.80
2955c	915.00	715.00	2:37:00	2956c	915.00	733.00	2:44:00	1830.00	1448.00	0.79
							TOTAL:	32950.00	26157.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	**Date**	2018-11-24
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2957c	915.00	718.00	3:09:00	2958c	915.00	729.00	3:18:00	1830.00	1447.00	0.79
2959c	918.00	728.00	3:26:00	2960c	918.00	751.00	3:34:00	1836.00	1479.00	0.81
2961c	914.00	718.00	4:27:00	2962c	918.00	730.00	4:34:00	1832.00	1448.00	0.79
							TOTAL:	5498.00	4374.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-24
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2910b	207.50	3292.00	5:18:00	15.87
2912b	206.10	3266.00	5:41:00	15.85
2914b	213.00	3360.00	6:27:00	15.77
2916b	211.80	3338.00	6:54:00	15.76
2918b	212.80	3370.00	7:36:00	15.84
2920b	218.60	3458.00	7:59:00	15.82
2922b	213.60	3364.00	8:49:00	15.75
2924b	215.00	3404.00	9:16:00	15.83
2926b	219.20	3468.00	9:55:00	15.82
2928b	215.60	3404.00	10:19:00	15.79
2930b	214.00	3382.00	11:08:00	15.80
2932b	214.50	3416.00	11:36:00	15.93
2934b	213.80	3394.00	12:22:00	15.87
2936b	219.30	3466.00	12:46:00	15.80
2938b	215.80	3424.00	13:11:00	15.87
2940b	221.60	3482.00	13:34:00	15.71
2942b	216.40	3412.00	14:09:00	15.77
2944b	219.60	3464.00	14:39:00	15.77
TOTAL:	3868.20	61164.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-24
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2946b	215.60	3402.00	15:18:00	15.78
2948b	219.60	3468.00	15:45:00	15.79
2950b	224.10	3530.00	16:41:00	15.75
2952b	213.70	3390.00	17:15:00	15.86
2954b	216.30	3388.00	18:08:00	15.66
2956b	209.10	3294.00	18:38:00	15.75
2958b	211.10	3344.00	19:33:00	15.84
2960b	213.40	3374.00	20:10:00	15.81
2962b	207.50	3292.00	20:58:00	15.87
2964b	213.20	3380.00	21:18:00	15.85
2966b	207.10	3280.00	21:44:00	15.84
2968b	204.50	3248.00	22:08:00	15.88
2970b	212.90	3348.00	22:33:00	15.73
2972b	208.30	3292.00	23:12:00	15.80
2974b	208.90	3272.00	1:05:00	15.66
2976b	210.10	3336.00	1:27:00	15.88
2978b	213.40	3296.00	2:25:00	15.45
2980b	209.00	3306.00	2:39:00	15.82
TOTAL:	3817.80	60240.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-24
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2982b	214.90	3396.00	3:02:00	15.80
2984b	212.80	3374.00	3:29:00	15.86
2986b	207.30	3270.00	4:29:00	15.77
TOTAL:	635.00	10040.00		

NOTES

2822b sent to sump

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-24
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2910t	600	596			3367.3	1964.3	5331.6	4.8	2885c	2886c	2910b
2912t	600	596			3340.9	1962.6	5303.5	4.8	2887c	2888c	2912b
2914t	596	584	580		3444.3	1954.8	5399.1	4.8	2889c	2890c	2914b
2916t	596	584	580		3422.0	1954.9	5376.8	4.8	2891c	2892c	2916b
2918t	580	576			3453.6	1902.3	5356.0	4.8	2893c	2894c	2918b
2920t	580	576			3544.1	1905.8	5449.9	4.8	2895c	2896c	2920b
2922t	576				3448.8	1942.6	5391.3	4.8	2897c	2898c	2922b
2924t	576				3488.5	1940.5	5429.1	4.8	2899c	2900c	2924b
2926t	706	710			3554.3	1951.4	5505.7	4.8	2901c	2902c	2926b
2928t	706	710			3489.2	1947.7	5436.9	4.8	2903c	2904c	2928b
2930t	710	714			3466.4	1946.0	5412.4	4.8	2905c	2906c	2930b
2932t	710	714			3499.5	2008.5	5507.9	4.8	2907c	2908c	2932b
2934t	714	762			3477.7	1947.7	5425.3	4.8	2909c	2910c	2934b
2936t	714	762			3552.5	1972.9	5525.4	4.8	2911c	2912c	2936b
2938t	604	608			3508.5	1971.8	5480.3	4.8	2913c	2914c	2938b
2940t	604	608			3570.3	1969.4	5539.7	4.8	2915c	2916c	2940b
2942t	608	556			3497.7	1956.7	5454.4	4.8	2917c	2918c	2942b
2944t	608	556			3550.9	1967.1	5518.1	4.8	2919c	2920c	2944b
						TOTAL:	97843.5				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-24
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2946t	556	548			3487.3	1963.1	5450.4	4.8	2921c	2922c	2946b
2948t	556	548			3554.7	1991.8	5546.5	4.8	2923c	2924c	2948b
2950t	548	692	598		3618.9	1973.2	5592.1	4.8	2925c	2926c	2950b
2952t	548	692	598		3473.7	1987.7	5461.4	4.8	2927c	2928c	2952b
2954t	692	682	688		3474.7	1981.2	5455.9	4.8	2929c	2930c	2954b
2956t	692	682	688		3376.9	1995.7	5372.7	4.8	2931c	2932c	2956b
2958t	TOP UP ONLY				3426.9	1965.6	5392.6	4.8	2933c	2934c	2958b
2960t					3458.1	1979.5	5437.7	4.8	2935c	2936c	2960b
2962t	688				3373.3	1976.1	5349.4	4.8	2937c	2938c	2962b
2964t	688				3463.6	1985.0	5448.6	4.8	2939c	2940c	2964b
2966t	688	620			3361.4	2000.6	5362.0	4.8	2941c	2942c	2966b
2968t	688	620			3328.0	1984.3	5312.3	4.8	2943c	2944c	2968b
2970t	620	612			3432.7	1982.6	5415.3	4.8	2945c	2946c	2970b
2972t	620	612			3374.2	1999.6	5373.8	4.8	2947c	2948c	2972b
2974t	TOP UP ONLY				3355.7	1971.4	5327.1	4.8	2949c	2950c	2974b
2976t					3418.2	1996.3	5414.5	4.8	2951c	2952c	2976b
2978t	636	632			3383.5	2005.1	5388.7	4.8	2953c	2954c	2978b
2980t	636	632			3388.3	1980.7	5369.0	4.8	2955c	2956c	2980b
						TOTAL:	97469.9				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-24
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2982t	632	640			3480.8	1980.0	5460.8	4.8	2957c	2958c	2982b
2984t	632	640			3457.5	2004.7	5462.2	4.8	2959c	2960c	2984b
2986t	640				3352.0	1981.8	5333.8	4.8	2961c	2962c	2986b
						TOTAL:	16256.8				

NOTES

TOP UPS

Tanks:		Piles:
2922t	2924t	698, 694, 666, 628, 624, 596, 580, 576
2934t	2934t	706, 710
2958t	2960t	762, 714, 710, 706, 628, 624, 608, 604
2962t	2964t	600, 596, 854, 580, 576, 556, 552
2970t	2972t	706, 692
2974t	2976t	714, 710, 706, 620, 624, 608, 674, 656, 644, 604, 556, 584, 580, 576, 600, 596, 552
2978t	2980t	552, 548, 620

HFDI Production Control

Project Number	1814	**Date**	2018-11-24
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	21	210.06	161.04	215.00	33.50%

Daily pile Completion:	2.15%	**Daily Cement used in KG**	70125.00
Piles Poured to Date:	788	**Total Cement used to date KG**	2629523.10
Daily L/M of Drilling:	184.47	**Daily Bentonite used in KG**	8530.70
		Total Bentonite used in KG	421771.50
		Daily Water consumption	191704.00
		Total Water Consumption	7219654.26

HFDI Representative: De Wet Neethling (Name) — (Signature)

KCG Representative: Frederic Tremblay, P. Eng. (Name) — (Signature)

2018-11-25 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Don Henry Night Supervisor: Brad Depagie Project Coordinator: De Wet Neethling	Date: 2018-11-25 Site Conditions: -36	Shift: 24hr

FOREMAN'S SAFETY/ QUALITY MEETING

Drill Piles - Open Holes, Falling Debris, Swing Radius - Hole Covers, Proper PPE, Spotter
Mix grout - Grout Burns, Machine Failure, Inhalation - Proper PPE, Inspections, Remain Alert
Hammer Piles - Airlines - Use Spotter, whip checks

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Night crew had problems with frozen Kelly bars and frozen hammer drill
Manlift broke down on site, blocked drill access
Produced grout, poured piles, drilled piles, drilled sockets
HFDI was requested to drill 2m deep rock sockets from pile 859 to 901

DELAYS: Frozen Kelly Bars on Rock Hammers - 6 hours of rock hammering

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-25
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0648	Day	Day	10.00	8.70	9.50	10.10	9.70	1.00
0652	Day	Day	10.00	9.50	9.60	10.65	10.60	1.00
0656	Day	Day	10.00	9.00	9.70	10.00	9.87	1.00
0660	Day		10.00	9.50	9.70			
0664	Night		10.00	9.40	9.70			
0684	Night		12.00	9.50	9.90			
0688		Day	11.00	9.20	9.70	10.90	10.80	1.00
0692		Day	11.00	9.50	9.50	10.60	10.50	1.00
0700	Night		10.00	9.80	10.00			
0704	Night		10.00	9.50	10.10			
0724	Night		10.00	9.30	9.80			
0728	Night		10.00	9.30	9.70			
0754		Day	11.00	8.70	9.17	10.37	10.20	1.00
0758		Day	10.00	8.20	8.60	10.00	9.80	1.00
0834	Night		10.00	7.00	7.90			
0838	Night	Night	10.00	7.60	7.80	8.65	8.60	1.00
0861	Day	Night	8.00	7.00	7.60	9.20	8.40	2.00
0869	Day	Day	8.00	6.60	7.00	8.80	7.60	

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	**Date**	2018-11-25
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0873	Day	Day	9.00	6.55	7.00	8.80	7.60	2.00
0877	Night	Night	8.00	6.51	7.80	9.00	8.60	
0881	Day	Day	8.00	6.40	6.80	8.23	7.60	2.00
0901	Night		9.00	6.80	6.90			
0905	Night		8.00	6.60	6.90			
0909	Day	Day	8.00	6.45	7.00	8.30	8.20	1.00
					TOTAL	34.33		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-25
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2963c	920.00	726.00	8:29:00	2964c	918.00	730.00	8:39:00	1838.00	1456.00	
2965c	912.00	728.00	8:46:00	2966c	909.00	734.00	8:55:00	1821.00	1462.00	0.80
2967c	919.00	727.00	9:11:00	2968c	917.00	741.00	9:18:00	1836.00	1468.00	0.80
2969c	920.00	730.00	9:29:00	2970c	912.00	738.00	9:35:00	1832.00	1468.00	0.80
2971c	914.00	716.00	9:58:00	2972c	913.00	731.00	10:04:00	1827.00	1447.00	0.79
2973c	914.00	739.00	10:14:00	2974c	916.00	737.00	10:23:00	1830.00	1476.00	0.81
2975c	920.00	726.00	11:29:00	2976c	915.00	731.00	11:35:00	1835.00	1457.00	0.79
2977c	918.00	732.00	11:40:00	2978c	916.00	734.00	11:51:00	1834.00	1466.00	0.80
2979c	916.00	731.00	13:02:00	2980c	913.00	732.00	13:09:00	1829.00	1463.00	0.80
2981c	908.00	738.00	13:20:00	2982c	915.00	732.00	13:26:00	1823.00	1470.00	0.81
2983c	916.00	734.00	14:00:00	2984c	917.00	724.00	14:06:00	1833.00	1458.00	0.80
2985c	918.00	730.00	14:17:00	2986c	920.00	730.00	14:23:00	1838.00	1460.00	0.79
2987c	914.00	728.00	15:22:00	2988c	911.00	724.00	15:31:00	1825.00	1452.00	0.80
2989c	916.00	725.00	15:39:00	2990c	922.00	733.00	15:45:00	1838.00	1458.00	0.79
2991c	917.00	714.00	16:37:00	2992c	915.00	735.00	16:45:00	1832.00	1449.00	0.79
2993c	913.00	734.00	16:54:00	2994c	912.00	731.00	17:01:00	1825.00	1465.00	0.80
2995c	909.00	711.00	18:52:00	2996c	916.00	730.00	18:58:00	1825.00	1441.00	0.79
2997c	916.00	729.00	19:09:00	2998c	918.00	735.00	19:16:00	1834.00	1464.00	0.80
							TOTAL:	32955.00	26280.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	**Date**	2018-11-25
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
2999c	912.00	710.00	19:41:00	3000c	915.00	722.00	19:48:00	1827.00	1432.00	0.78
3001c	915.00	717.00	20:02:00	3002c	914.00	744.00	20:11:00	1829.00	1461.00	0.80
3003c	910.00	711.00	20:55:00	3004c	910.00	733.00	21:02:00	1820.00	1444.00	0.79
3005c	912.00	722.00	21:22:00	3006c	908.00	748.00	21:31:00	1820.00	1470.00	0.81
3007c	910.00	718.00	22:49:00	3008c	907.00	726.00	22:56:00	1817.00	1444.00	0.79
3009c	912.00	729.00	23:11:00	3010c	915.00	726.00	23:18:00	1827.00	1455.00	0.80
3011c	918.00	720.00	23:43:00	3012c	918.00	738.00	23:51:00	1836.00	1458.00	0.79
3013c	921.00	708.00	12:06:00	3014c	913.00	814.00	12:14:00	1834.00	1522.00	0.83
3015c	912.00	708.00	2:39:00	3016c	920.00	739.00	2:47:00	1832.00	1447.00	0.79
3017c	912.00	717.00	3:03:00	3018c	915.00	727.00	3:10:00	1827.00	1444.00	0.79
3019c	915.00	707.00	3:32:00	3020c	914.00	736.00	3:39:00	1829.00	1443.00	0.79
3021c	912.00	724.00	3:56:00	3022c	912.00	727.00	4:05:00	1824.00	1451.00	0.80
							TOTAL:	21922.00	17471.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-25
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
2988b	209.70	3344.00	8:31:00	15.95
2990b	209.90	3344.00	8:56:00	15.93
2992b	213.50	3366.00	9:13:00	15.77
2994b	217.80	3426.00	9:37:00	15.73
2996b	222.40	3514.00	9:59:00	15.80
2998b	221.40	3492.00	10:24:00	15.77
3000b	217.90	3434.00	11:30:00	15.76
3002b	204.50	3252.00	11:53:00	15.90
3004b	246.60	3908.00	13:05:00	15.85
3006b	220.00	3484.00	13:30:00	15.84
3008b	208.90	3284.00	14:01:00	15.72
3010b	215.10	3410.00	14:24:00	15.85
3012b	218.40	3466.00	15:24:00	15.87
3014b	214.40	3398.00	5:47:00	15.85
3016b	210.60	3338.00	16:39:00	15.85
3018b	214.30	3396.00	17:03:00	15.85
3020b	211.70	3348.00	18:39:00	15.81
3022b	210.30	3308.00	19:13:00	15.73
TOTAL:	3887.40	61512.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-25
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
3024b	209.80	3320.00	19:42:00	15.82
3026b	213.30	3384.00	20:05:00	15.86
3028b	206.80	3280.00	20:57:00	15.86
3030b	212.20	3298.00	21:24:00	15.54
3032b	206.30	3262.00	22:57:00	15.81
3034b	210.20	3304.00	23:13:00	15.72
3036b	213.80	3376.00	23:46:00	15.79
3038b	212.80	3354.00	12:08:00	15.76
3040b	207.10	3276.00	2:42:00	15.82
3042b	209.40	3298.00	3:05:00	15.75
3044b	207.00	3280.00	3:35:00	15.85
3046b	211.40	3326.00	3:58:00	15.73
TOTAL:	2520.10	39758.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-25
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
2988t	TOP UP ONLY				3419.4	1990.4			2963c	2964c	2988b
2990t					3557.0	1985.0	5542.0	4.8	2965c	2966c	2990b
2992t	917	913			3522.0	1997.3	5519.3	4.8	2967c	2968c	2992b
2994t	917	913			3583.0	1995.1	5578.1	4.8	2969c	2970c	2994b
2996t	913				3590.0	1978.3	5568.3	4.8	2971c	2972c	2996b
2998t	913				3573.0	1999.4	5572.4	4.8	2973c	2974c	2998b
3000t	758	754			3501.0	1989.4	5490.4	4.8	2975c	2976c	3000b
3002t	758	754			3581.0	1994.9	5575.9	4.8	2977c	2978c	3002b
3004t	754				3554.0	1990.1	5544.1	4.8	2979c	2980c	3004b
3006t	754				3586.0	1991.5	5577.5	4.8	2981c	2982c	3006b
3008t	616	648			3575.0	1989.0	5564.0	4.8	2983c	2984c	3008b
3010t	616	648			3586.0	1993.1	5579.1	4.8	2985c	2986c	3010b
3012t	648	552			3556.0	1980.6	5536.6	4.8	2987c	2988c	3012b
3014t	648	552			3568.0	1991.8	5559.8	4.8	2989c	2990c	3014b
3016t	552	656	652	670	3570.0	1982.4	5552.4	4.8	2991c	2992c	3016b
3018t	552	656	652	670	3568.0	1989.3	5557.3	4.8	2993c	2994c	3018b
3020t	670				3425.2	1973.2	5398.4	4.8	2995c	2996c	3020b
3022t	670				3385.4	1993.6	5379.0	4.8	2997c	2998c	3022b
						TOTAL:	94094.8				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-25
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3024t	881				3396.5	1968.3	5364.8	4.8	2999c	3000c	3024b
3026t	881				3461.4	1988.8	5450.2	4.8	3001c	3002c	3026b
3028t	881	873	869		3355.1	1972.5	5327.6	4.8	3003c	3004c	3028b
3030t	881	873	869		3377.6	1989.8	5367.4	4.8	3005c	3006c	3030b
3032t	869				3337.3	1970.8	5308.1	4.8	3007c	3008c	3032b
3034t	869				3381.4	1983.7	5365.1	4.8	3009c	3010c	3034b
3036t	TOP UP ONLY				3454.2	1990.7	5444.9	4.8	3011c	3012c	3036b
3038t					3432.1	2032.3	5464.4	4.8	3013c	3014c	3038b
3040t	838	861			3351.5	1981.1	5332.6	4.8	3015c	3016c	3040b
3042t	838	861			3374.9	1976.3	5351.2	4.8	3017c	3018c	3042b
3044t	861				3355.3	1976.8	5332.1	4.8	3019c	3020c	3044b
3046t	861				3403.8	1979.3	5383.1	4.8	3021c	3022c	3046b
						TOTAL:	64491.5				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-25
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
						TOTAL:					

NOTES

TOP UPS

Tanks:		Piles:
2988t	2990t	970. 968, 762, 714, 710, 706, 636, 620, 632, 702, 692, 688, 680, 666, 644, 640
3004t	3006t	909, 913, 917, 758, 640, 636, 632
3020t	3022t	762, 758, 682, 754, 688
3032t	3034t	909, 913, 917, 881
3036t	3038t	758, 754, 670, 656, 652, 648, 640, 636, 632, 620, 615, 612, 917, 913, 909, 873, 881

HFDI Production Control

Project Number	1814	**Date**	2018-11-25
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	14	132.50	100.55	164.00	63.10%

Daily pile Completion:	1.44%	**Daily Cement used in KG**	54877.00
Piles Poured to Date:	802	**Total Cement used to date KG**	2684400.10
Daily L/M of Drilling:	185.17	**Daily Bentonite used in KG**	6407.50
		Total Bentonite used in KG	427969.30
		Daily Water consumption	145021.00
		Total Water Consumption	7361331.26

HFDI Representative: De Wet Neethling (Name) _____ (Signature)

2018-11-26 (Date)

KCG Representative: _____ (Name) _____ (Signature)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Don Henry Night Supervisor: Brad Depagie Project Coordinator: De Wet Neethling	Date: 2018-11-26 Site Conditions: -35	Shift: 24hr

FOREMAN'S SAFETY/ QUALITY MEETING

Hammer Drill- Trip hazard, Air lines High PSI- Whip Checks, use spotter
Outside Work- Frostbite, Slips and Trips- Warm up when needed
Mix Grout - Grout exposure- Proper PPE

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Produced grout, poured piles, drilled piles, drilled sockets

DELAYS: Vac truck gate valve froze up and had to be replaced

Rock Hammer compressor was down for 6 hours

Delay at grout plant due to bentonite thickness issues - 2 hours

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-26
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0660		Day	10.00	9.50	9.70	10.56	10.50	1.00
0684		Day	12.00	9.50	9.90	11.60	11.30	1.00
0704		Day	10.00	9.50	10.10	12.00	11.31	3.00
0724		Day	10.00	9.30	9.80	10.26	10.20	1.00
0728		Day	10.00	9.30	9.70	10.68	10.37	1.00
0732	Night	Night	10.00	9.60	9.80	10.70	10.60	1.50
0736	Night	Night	10.00	9.40	9.90	10.80	10.60	1.00
0739		Night	10.00	9.00	9.60	10.74	10.95	1.50
0740	Night	Night	12.00	9.70	10.00	11.00	10.85	1.00
0744	Night	Night	10.00	9.50	9.80	11.30	10.90	1.00
0748	Day	Night	10.00	9.30	9.80	10.60	10.40	1.00
0766	Night		10.00	8.64	8.80			
0834		Day	10.00	7.00	7.90	8.46	8.12	1.00
0865	Day	Day	8.00	6.50	7.00	8.90	8.60	2.00
0889	Night		8.00	6.71	6.72			
0893	Night		8.00	6.70	7.30			
0897	Day	Night	8.00	6.50	6.80	9.20	8.60	2.50
0901		Day	9.00	6.80	6.90	8.58	8.40	1.00

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	**Date**	2018-11-26
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0905		Day	8.00	6.60	6.90	7.77	6.60	1.00
0921	Night		9.00	6.20	6.80			
0925	Night		8.00	6.40	5.43			
0929	Night	Night	8.00	5.40	6.00	7.63	7.30	1.00
					TOTAL	15.40		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-26
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
3023c	910.00	710.00	12:02:00	3024c	910.00	728.00	12:09:00	1820.00	1438.00	
3025c	914.00	731.00	12:18:00	3026c	910.00	731.00	12:25:00	1824.00	1462.00	0.80
3027c	915.00	734.00	12:44:00	3028c	911.00	730.00	12:51:00	1826.00	1464.00	0.80
3029c	912.00	728.00	13:01:00	3030c	912.00	710.00	13:06:00	1824.00	1438.00	0.79
3031c	913.00	724.00	14:05:00	3032c	920.00	732.00	14:11:00	1833.00	1456.00	0.79
3033c	909.00	727.00	14:22:00	3034c	914.00	739.00	14:31:00	1823.00	1466.00	0.80
3035c	915.00	713.00	15:15:00	3036c	912.00	706.00	15:22:00	1827.00	1419.00	0.78
3037c	914.00	731.00	15:31:00	3038c	913.00	730.00	15:37:00	1827.00	1461.00	0.80
3039c	914.00	718.00	16:26:00	3040c	914.00	729.00	16:31:00	1828.00	1447.00	0.79
3041c	915.00	738.00	16:52:00	3042c	913.00	722.00	17:02:00	1828.00	1460.00	0.80
3043c	917.00	713.00	18:21:00	3044c	916.00	738.00	18:29:00	1833.00	1451.00	0.79
3045c	912.00	723.00	18:47:00	3046c	914.00	713.00	18:52:00	1826.00	1436.00	0.79
3047c	917.00	720.00	19:10:00	3048c	912.00	729.00	19:18:00	1829.00	1449.00	0.79
3049c	920.00	709.00	19:31:00	3050c	915.00	738.00	19:38:00	1835.00	1447.00	0.79
3051c	912.00	713.00	20:16:00	3052c	916.00	747.00	20:24:00	1828.00	1460.00	0.80
3053c	916.00	736.00	20:38:00	3054c	915.00	738.00	20:43:00	1831.00	1474.00	0.81
3055c	912.00	712.00	21:36:00	3056c	914.00	742.00	21:43:00	1826.00	1454.00	0.80
3057c	917.00	717.00	22:00:00	3058c	915.00	732.00	22:07:00	1832.00	1449.00	0.79
							TOTAL:	32900.00	26131.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	**Date**	2018-11-26
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
3059c	914.00	723.00	22:45:00	3060c	915.00	723.00	22:52:00	1829.00	1446.00	0.79
3061c	919.00	716.00	23:06:00	3062c	918.00	728.00	23:13:00	1837.00	1444.00	0.79
3063c	917.00	718.00	2:36:00	3064c	914.00	734.00	2:44:00	1831.00	1452.00	0.79
3065c	916.00	719.00	3:05:00	3066c	915.00	732.00	3:13:00	1831.00	1451.00	0.79
3067c	918.00	717.00	3:37:00	3068c	915.00	730.00	3:47:00	1833.00	1447.00	0.79
3069c	913.00	721.00	4:12:00	3070c	916.00	723.00	4:20:00	1829.00	1444.00	0.79
							TOTAL:	10990.00	8684.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-26
Project Name	Whale Tail Dike	**Reported by**	Alex Zapantis

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
3048b	208.80	3302.00	12:04:00	15.81
3050b	212.10	3370.00	12:28:00	15.89
3052b	210.00	3332.00	12:45:00	15.87
3054b	210.40	3330.00	13:08:00	15.83
3056b	213.70	3388.00	14:07:00	15.85
3058b	209.50	3306.00	14:32:00	15.78
3060b	210.80	3364.00	15:17:00	15.96
3062b	217.00	3414.00	15:40:00	15.73
3064b	209.80	3308.00	16:27:00	15.77
3066b	211.70	3356.00	17:01:00	15.85
3068b	200.90	3172.00	18:24:00	15.79
3070b	211.40	3334.00	18:47:00	15.77
3072b	212.50	3380.00	19:13:00	15.91
3074b	221.30	3486.00	19:34:00	15.75
3076b	204.20	3202.00	20:18:00	15.68
3078b	211.00	3278.00	20:39:00	15.54
3080b	213.90	3390.00	21:38:00	15.85
3082b	210.30	3332.00	22:02:00	15.84
TOTAL:	3799.30	60044.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-26
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3048t	660				3378.2	1968.4			3023c	3024c	3048b
3050t	660				3554.0	1986.7	5540.7	4.8	3025c	3026c	3050b
3052t	660	684			3520.0	1989.1	5509.1	4.8	3027c	3028c	3052b
3054t	660	684			3582.0	1970.7	5552.7	4.8	3029c	3030c	3054b
3056t	684	704			3572.0	1987.7	5559.7	4.8	3031c	3032c	3056b
3058t	684	704			3538.0	1988.8	5526.8	4.8	3033c	3034c	3058b
3060t	724	728			3563.0	1959.6	5522.6	4.8	3035c	3036c	3060b
3062t	724	728			3554.0	1987.7	5541.7	4.8	3037c	3038c	3062b
3064t	728				3562.0	1978.9	5540.9	4.8	3039c	3040c	3064b
3066t	728				3571.0	1987.6	5558.6	4.8	3041c	3042c	3066b
3068t	834				3242.5	1984.3	5226.8	4.8	3043c	3044c	3068b
3070t	834				3411.5	1970.4	5381.9	4.8	3045c	3046c	3070b
3072t	834	905			3456.8	1980.8	5437.6	4.8	3047c	3048c	3072b
3074t	834	905			3567.2	1982.8	5550.0	4.8	3049c	3050c	3074b
3076t	905	901	897		3277.5	1987.6	5265.1	4.8	3051c	3052c	3076b
3078t	905	901	897		3357.2	1998.6	5355.8	4.8	3053c	3054c	3078b
3080t	897	865			3467.8	1982.5	5450.3	4.8	3055c	3056c	3080b
3082t	897	865			3408.5	1982.4	5390.9	4.8	3057c	3058c	3082b
						TOTAL:	92911.2				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-26
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3084t	865	748			3406.0	1978.8	5384.8	4.8	3059c	3060c	3084b
3086t	865	748			3427.5	1981.9	5409.4	4.8	3061c	3062c	3086b
3088t	748				3506.0	1983.9	5489.9	4.8	3063c	3064c	3088b
3090t	748				3318.8	1983.2	5302.0	4.8	3065c	3066c	3090b
3092t	TOP UP ONLY				3454.9	1981.7	5436.6	4.8	3067c	3068c	3092b
3094t					3348.5	1977.4	5325.9	4.8	3069c	3070c	3094b
						TOTAL:	32348.6				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-26
Project Name	Whale Tail Dike	Reported by	Alex Zapantis

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
						TOTAL:					

NOTES

TOP UPS

Tanks:		Piles:
3048t	3050t	656, 881, 873, 877, 879, 861, 913
3056t	3058t	672
3064t	3066t	724
3068t	3070t	754, 728, 724, 704, 684, 670, 660, 656
3080t	3082t	905, 901
3088t	3090t	905, 901, 897, 877, 873, 869
3092t	3094t	748, 704, 684, 660, 648

HFDI Production Control

Project Number	1814	**Date**	2018-11-26
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	11	108.61	82.50	130.61	58.32%

Daily pile Completion:	1.13%	**Daily Cement used in KG**	43890.00
Piles Poured to Date:	813	**Total Cement used to date KG**	2728290.10
Daily L/M of Drilling:	127.19	**Daily Bentonite used in KG**	5059.60
		Total Bentonite used in KG	433028.90
		Daily Water consumption	114850.00
		Total Water Consumption	7476181.26

HFDI Representative: De Wet Neethling (Name) — (Signature)

KCG Representative: Frederic Tremblay, P. Eng. (Name) — (Signature)

2018-11-27 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Don Henry Night Supervisor: Brad Depagie Project Coordinator: De Wet Neethling	Date: 2018-11-27 Site Conditions: -32	Shift: 24hr

FOREMAN'S SAFETY/ QUALITY MEETING

Mix Grout - Grout Expoure - PPE
Hammer Lines - Airlines and Trips, High Pressure - Ship Checks, Use Spotter
Winter Work - Frostbite - Warm up

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Hammer compressors were serviced during the night
Produced grout, poured piles, drilled piles, drilled sockets

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-27
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0664		Day	10.00	9.40	9.70	11.22	10.90	1.50
0668	Day	Night	12.00	9.00	10.60	11.20	10.90	2.00
0672	Night	Night	12.00	10.10	11.00	11.70	11.20	1.00
0678	Night	Night	12.00	10.70	11.00	12.00	11.80	
0696	Day	Day	12.00	9.50	10.30	10.84	10.60	1.00
0700		Night	10.00	9.80	10.00	11.50	11.10	2.00
0766		Day	10.00	8.64	8.80	9.80	9.70	1.00
0770	Day	Day	11.00	8.60	9.50	10.00	9.60	1.00
0774	Night	Night	10.00	8.40	9.10	9.80	9.60	Core Barrel
0778	Day	Night	10.00	8.40	9.10	9.60	9.40	Core Barrel
0786	Night	Night	10.00	8.10	8.40	9.50	9.30	Core Barrel
0790	Night	Night	11.00	7.60	8.71	9.30	9.20	Core Barrel
0859	Night		8.00	6.80	7.80			
0863	Night		8.00	7.10	7.80			
0867	Night		8.00	6.70	7.75			
0871	Night		8.00	6.52	7.60			
0879	Day	Night	8.00	6.80	7.20	9.10	8.80	3.00
0885	Day	Night	8.00	6.80	7.20	9.00	8.80	2.50

NOTES

Pile 678: Hammer went down to 6.1m depth. Rig 2 cleaned it out.

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-27
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0889		Day	8.00	6.71	6.72	8.79	8.70	2.00
0893		Day	8.00	6.70	7.30	8.77	8.70	2.00
0911	Day	Night	8.00	6.60	7.00	7.90	7.60	1.50
0915	Day	Day	8.00	6.50	6.80	8.00	7.50	1.50
0921		Day	9.00	6.20	6.80	7.50	7.80	1.00
0925		Day	8.00	5.50	5.80	6.50	6.90	1.00
0929		Day	8.00	5.40	6.00	7.30	7.70	1.00
0933	Day	Day	7.00	5.40	5.70	6.48	6.40	1.00
0937	Night		7.00	5.40	6.30			
0941	Night		5.00	4.20	4.70			
					TOTAL	61.24		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-27
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
3071c	917.00	718.00	5:08:00	3072c	916.00	726.00	5:16:00	1833.00	1444.00	0.79
3073c	917.00	708.00	6:53:00	3074c	917.00	733.00	7:00:00	1834.00	1441.00	0.79
3075c	910.00	730.00	7:15:00	3076c	922.00	729.00	7:21:00	1832.00	1459.00	0.80
3077c	918.00	731.00	7:31:00	3078c	917.00	736.00	7:37:00	1835.00	1467.00	0.80
3079c	914.00	720.00	8:32:00	3080c	917.00	729.00	8:40:00	1831.00	1449.00	0.79
3081c	913.00	729.00	8:51:00	3082c	911.00	737.00	8:58:00	1824.00	1466.00	0.80
3083c	915.00	717.00	9:34:00	3084c	915.00	727.00	9:45:00	1830.00	1444.00	0.79
3085c	917.00	730.00	9:53:00	3086c	914.00	723.00	9:59:00	1831.00	1453.00	0.79
3087c	916.00	714.00	10:47:00	3088c	916.00	725.00	10:54:00	1832.00	1439.00	0.79
3089c	913.00	724.00	11:06:00	3090c	913.00	732.00	11:13:00	1826.00	1456.00	0.80
3091c	914.00	746.00	11:56:00	3092c	916.00	738.00	12:02:00	1830.00	1484.00	0.81
3093c	914.00	738.00	12:12:00	3094c	917.00	734.00	12:20:00	1831.00	1472.00	0.80
3095c	915.00	713.00	12:58:00	3096c	914.00	734.00	13:04:00	1829.00	1447.00	0.79
3097c	909.00	734.00	13:16:00	3098c	914.00	730.00	13:23:00	1823.00	1464.00	0.80
3099c	914.00	721.00	14:12:00	3100c	912.00	738.00	14:18:00	1826.00	1459.00	0.80
3101c	912.00	730.00	14:29:00	3102c	911.00	732.00	14:35:00	1823.00	1462.00	0.80
3103c	916.00	710.00	15:22:00	3104c	915.00	738.00	15:28:00	1831.00	1448.00	0.79
3105c	918.00	724.00	15:39:00	3106c	914.00	738.00	15:44:00	1832.00	1462.00	0.80
							TOTAL:	32933.00	26216.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-27
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
3107c	911.00	732.00	16:32:00	3108c	911.00	733.00	16:39:00	1822.00	1465.00	0.80
3109c	909.00	723.00	16:51:00	3110c	912.00	738.00	16:57:00	1821.00	1461.00	0.80
3111c	918.00	718.00	18:15:00	3112c	911.00	745.00	18:22:00	1829.00	1463.00	0.80
3113c	915.00	712.00	18:40:00	3114c	914.00	735.00	18:47:00	1829.00	1447.00	0.79
3115c	921.00	713.00	20:29:00	3116c	915.00	740.00	20:37:00	1836.00	1453.00	0.79
3117c	916.00	736.00	20:44:00	3118c	915.00	735.00	20:51:00	1831.00	1471.00	0.80
3119c	914.00	710.00	21:10:00	3120c	913.00	736.00	21:18:00	1827.00	1446.00	0.79
3121c	917.00	718.00	21:36:00	3122c	916.00	735.00	21:44:00	1833.00	1453.00	0.79
3123c	912.00	724.00	22:25:00	3124c	913.00	744.00	22:31:00	1825.00	1468.00	0.80
3125c	910.00	715.00	22:50:00	3126c	913.00	743.00	22:58:00	1823.00	1458.00	0.80
3127c	914.00	715.00	23:29:00	3128c	916.00	730.00	23:36:00	1830.00	1445.00	0.79
3129c	912.00	718.00	12:03:00	3130c	916.00	734.00	12:10:00	1828.00	1452.00	0.79
3131c	920.00	724.00	1:24:00	3132c	914.00	734.00	1:31:00	1834.00	1458.00	0.79
3133c	911.00	715.00	1:47:00	3134c	911.00	734.00	1:55:00	1822.00	1449.00	0.80
3135c	913.00	715.00	2:37:00	3136c	913.00	735.00	2:44:00	1826.00	1450.00	0.79
3137c	912.00	720.00	3:03:00	3138c	921.00	736.00	3:10:00	1833.00	1456.00	0.79
3139c	914.00	718.00	3:36:00	3140c	917.00	741.00	3:43:00	1831.00	1459.00	0.80
3141c	918.00	724.00	4:00:00	3142c	915.00	733.00	4:08:00	1833.00	1457.00	0.79
							TOTAL:	32913.00	26211.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-27
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
3096b	205.20	3242.00	5:11:00	15.80
3098b	210.50	3318.00	6:55:00	15.76
3100b	208.60	3272.00	7:18:00	15.69
3102b	212.80	3352.00	7:40:00	15.75
3104b	214.01	3394.00	8:35:00	15.86
3106b	213.10	3378.00	9:05:00	15.85
3108b	215.80	3406.00	9:41:00	15.78
3110b	204.90	3326.00	10:04:00	16.23
3112b	211.60	3368.00	10:49:00	15.92
3114b	210.30	3342.00	11:14:00	15.89
3116b	209.50	3284.00	11:57:00	15.68
3118b	214.50	3394.00	12:21:00	15.82
3120b	214.70	3400.00	13:00:00	15.84
3122b	217.20	3430.00	13:25:00	15.79
3124b	210.70	3340.00	14:14:00	15.85
3126b	218.60	3464.00	14:37:00	15.85
3128b	210.40	3340.00	15:23:00	15.87
3130b	215.40	3392.00	15:47:00	15.75
TOTAL:	3817.81	60442.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-27
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
3132b	207.80	3280.00	16:34:00	15.78
3134b	214.50	3386.00	16:59:00	15.79
3136b	211.40	3350.00	18:16:00	15.85
3138b	211.90	3364.00	18:42:00	15.88
3140b	210.10	3328.00	19:12:00	15.84
3142b	207.10	3288.00	20:46:00	15.88
3144b	209.10	3284.00	21:12:00	15.71
3146b	208.70	3312.00	21:39:00	15.87
3148b	208.50	3294.00	22:26:00	15.80
3150b	211.20	3318.00	22:52:00	15.71
3152b	212.20	3336.00	23:31:00	15.72
3154b	209.40	3306.00	12:05:00	15.79
3156b	205.00	3266.00	1:26:00	15.93
3158b	206.60	3270.00	1:49:00	15.83
3160b	212.70	3350.00	2:39:00	15.75
3162b	208.70	3320.00	3:05:00	15.91
3164b	207.60	3288.00	3:38:00	15.84
3166b	207.80	3298.00	4:02:00	15.87
TOTAL:	3770.30	59638.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-27
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3096t	744				3317.0	1979.7	5296.7	4.8	3071c	3072c	3096b
3098t	744				3398.0	1978.2	5376.2	4.8	3073c	3074c	3098b
3100t	744	740			3552.0	1989.1	5541.1	4.8	3075c	3076c	3100b
3102t	744	740			3543.0	1996.1	5539.1	4.8	3077c	3078c	3102b
3104t	921				3582.0	1981.9	5563.9	4.8	3079c	3080c	3104b
3106t	921				3581.0	1989.4	5570.4	4.8	3081c	3082c	3106b
3108t	929	925	893		3591.0	1978.0	5569.0	4.8	3083c	3084c	3108b
3110t	929	925	893		3578.0	1984.6	5562.6	4.8	3085c	3086c	3110b
3112t	893				3551.0	1975.8	5526.8	4.8	3087c	3088c	3112b
3114t	893				3561.0	1983.8	5544.8	4.8	3089c	3090c	3114b
3116t	889	736			3519.0	2004.7	5523.7	4.8	3091c	3092c	3116b
3118t	889	736			3528.0	1997.3	5525.3	4.8	3093c	3094c	3118b
3120t	736	732			3560.0	1979.4	5539.4	4.8	3095c	3096c	3120b
3122t	736	732			3581.0	1987.5	5568.5	4.8	3097c	3098c	3122b
3124t	696				3553.0	1985.8	5538.8	4.8	3099c	3100c	3124b
3126t	696				3583.0	1986.1	5569.1	4.8	3101c	3102c	3126b
3128t	664				3559.0	1981.2	5540.2	4.8	3103c	3104c	3128b
3130t	664				3546.0	1991.1	5537.1	4.8	3105c	3106c	3130b
						TOTAL:	99432.7				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-27
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3132t	770	766			3555.0	1987.6	5542.6	4.8	3107c	3108c	3132b
3134t	770	766			3585.0	1984.4	5569.4	4.8	3109c	3110c	3134b
3136t	766				3426.9	1990.1	5417.0	4.8	3111c	3112c	3136b
3138t	766				3440.8	1979.4	5420.2	4.8	3113c	3114c	3138b
3140t	933				3404.4	1987.3	5391.7	4.8	3115c	3116c	3140b
3142t	933				3363.1	1996.6	5359.7	4.8	3117c	3118c	3142b
3144t	933	915	911		3361.1	1977.7	5338.8	4.8	3119c	3120c	3144b
3146t	933	915	911		3387.7	1985.7	5373.4	4.8	3121c	3122c	3146b
3148t	911	885			3370.2	1991.3	5361.5	4.8	3123c	3124c	3148b
3150t	911	885			3395.9	1983.5	5379.4	4.8	3125c	3126c	3150b
3152t	885	879			3414.2	1978.7	5392.9	4.8	3127c	3128c	3152b
3154t	885	879			3382.6	1982.2	5364.8	4.8	3129c	3130c	3154b
3156t	879				3339.9	1989.6	5329.5	4.8	3131c	3132c	3156b
3158t	879				3345.3	1976.9	5322.2	4.8	3133c	3134c	3158b
3160t	879	790	786		3428.1	1979.8	5407.9	4.8	3135c	3136c	3160b
3162t	879	790	786		3395.4	1987.7	5383.1	4.8	3137c	3138c	3162b
3164t	786	778			3363.5	1988.6	5352.1	4.8	3139c	3140c	3164b
3166t	786	778			3373.4	1988.3	5361.7	4.8	3141c	3142c	3166b
						TOTAL:	97067.7				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-27
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
						TOTAL:					

NOTES

TOP UPS

Tanks:		**Piles:**
3096t	3098t	865, 838, 834, 748
3112t	3114t	929, 925, 905, 901, 897, 740, 724, 921, 865, 838, 834, 748, 744, 704
3120t	3122t	748, 744, 740, 684, 704, 660
3124t	3126t	684
3128t	3130t	893, 889, 897, 921, 925
3136t	3238t	770, 748, 744, 740, 736, 732
3140t	3142t	929, 766, 732, 770, 728, 724, 704, 921, 925, 696, 684, 889, 893, 897, 901, 905
3152t	3154t	933, 696, 664
3156t	3158t	740, 744, 748, 735, 755, 770, 929, 911, 915, 885, 889, 893, 921, 925

HFDI Production Control

Project Number	1814	**Date**	2018-11-27
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	20	184.40	140.33	196.50	40.03%

Daily pile Completion:	2.05%	**Daily Cement used in KG**	65846.00
Piles Poured to Date:	833	**Total Cement used to date KG**	2794136.10
Daily L/M of Drilling:	184.17	**Daily Bentonite used in KG**	7606.11
		Total Bentonite used in KG	440635.01
		Daily Water consumption	172507.00
		Total Water Consumption	7648688.26

HFDI Representative: De Wet Neethling (Name) — (Signature)

KCG Representative: Frederic Tremblay, P. Eng. (Name) — (Signature)

2018-11-28 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Don Henry Night Supervisor: Brad Depagie Project Coordinator: De Wet Neethling	Date: 2018-11-28	Shift: 24hr
		Site Conditions: -26. Slight Breeze, becoming foggy in the afternoon	

FOREMAN'S SAFETY/ QUALITY MEETING

Drill Piles - Open Holes, Swing Radius, Debris- Hole Covers, Proper PPE, Use Spotters
Winter Work - Frostbite - Warm up
Mix Grout - Grout Exposure, Mixture Failure - Use Proper PPE, Stay Alert

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Produced grout, poured piles, drilled piles, drilled sockets

DELAYS: The site was shut down for 4 hours. Code 1 was in effect.

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-28
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0708	Day	Night	12.00	10.00	10.20	13.00	11.08	Core Barrel
0712	Day	Night	12.00	10.00	11.00	12.00	11.04	Core Barrel
0716	Day	Day	12.00	9.91	11.00	11.00	10.99	Core Barrel
0720	Day	Night	11.00	9.70	10.00	11.60	10.70	Core Barrel
0752	Day	Day	10.00	9.20	9.30	10.55	10.45	1.00
0756	Day	Night	10.00	8.00	8.10	10.35	10.02	Core Barrel
0760	Night	Night	10.00	8.60	9.60	10.25	9.80	Core Barrel
0772	Night	Night	11.00	8.50	9.70	9.90	9.70	Core Barrel
0782	Day	Day	10.00	8.30	8.40	9.34	9.30	1.00
0814	Day	Day	10.00	7.00	8.20	8.80	8.03	Core Barrel
0859		Day	8.00	6.80	7.80	9.00	8.80	2.00
0863		Day	8.00	7.10	7.80	9.30	9.10	2.00
0867		Day	8.00	6.70	7.75	8.90	8.70	2.00
0871		Day	8.00	6.52	7.60	8.94	8.69	2.00
0891	Night		8.00	6.80	7.70			
0899	Night		8.00	6.70	7.60			
0903	Day		8.00	6.60	6.90			
0907		Day	8.00	6.60	7.00	7.60	7.60	1.00

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-28
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0927	Night		7.00	6.50	6.80			
0931	Day	Night	7.00	5.60	5.90	6.90	6.60	1.00
0937		Day	7.00	5.40	6.30	6.57	6.40	1.00
0941		Day	5.00	4.20	4.70	5.39	5.20	1.00
0945	Night		5.00	4.60	5.00			
0949	Night		5.00	4.50	5.00			
					TOTAL	18.86		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-28
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
3143c	913.00	715.00	5:06:00	3144c	917.00	738.00	5:13:00	1830.00	1453.00	0.79
3145c	915.00	722.00	5:28:00	3146c	916.00	737.00	5:38:00	1831.00	1459.00	0.80
3147c	914.00	717.00	6:17:00	3148c	914.00	740.00	6:23:00	1828.00	1457.00	0.80
3149c	912.00	732.00	6:35:00	3150c	913.00	727.00	6:41:00	1825.00	1459.00	0.80
3151c	914.00	717.00	7:41:00	3152c	912.00	730.00	7:47:00	1826.00	1447.00	0.79
3153c	914.00	735.00	7:58:00	3154c	912.00	728.00	8:04:00	1826.00	1463.00	0.80
3155c	914.00	717.00	8:42:00	3156c	909.00	730.00	8:50:00	1823.00	1447.00	0.79
3157c	919.00	731.00	8:59:00	3158c	913.00	730.00	9:06:00	1832.00	1461.00	0.80
3159c	892.00	703.00	9:41:00	3160c	884.00	717.00	9:50:00	1776.00	1420.00	0.80
3161c	890.00	712.00	10:00:00	3162c	889.00	711.00	10:08:00	1779.00	1423.00	0.80
3163c	888.00	701.00	10:59:00	3164c	887.00	717.00	11:06:00	1775.00	1418.00	0.80
3165c	892.00	710.00	11:16:00	3166c	890.00	716.00	11:21:00	1782.00	1426.00	0.80
3167c	891.00	702.00	12:01:00	3168c	892.00	717.00	12:09:00	1783.00	1419.00	0.80
3169c	889.00	717.00	12:19:00	3170c	889.00	704.00	12:27:00	1778.00	1421.00	0.80
3171c	887.00	704.00	13:34:00	3172c	891.00	709.00	13:41:00	1778.00	1413.00	0.79
3173c	891.00	714.00	13:50:00	3174c	888.00	718.00	13:59:00	1779.00	1432.00	0.80
3175c	889.00	708.00	14:33:00	3176c	887.00	705.00	14:40:00	1776.00	1413.00	0.80
3177c	887.00	709.00	14:51:00	3178c	886.00	704.00	15:00:00	1773.00	1413.00	0.80
							TOTAL:	32400.00	25844.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	**Date**	2018-11-28
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
3179c	891.00	701.00	15:32:00	3180c	889.00	715.00	15:38:00	1780.00	1416.00	0.80
3181c	885.00	716.00	18:51:00	3182c	885.00	703.00	15:59:00	1770.00	1419.00	0.80
3183c	886.00	715.00	16:30:00	3184c	888.00	718.00	16:38:00	1774.00	1433.00	0.81
3185c	897.00	714.00	16:45:00	3186c	898.00	713.00	16:51:00	1795.00	1427.00	0.79
3187c	893.00	703.00	17:21:00	3188c	895.00	715.00	17:28:00	1788.00	1418.00	0.79
3189c	889.00	715.00	17:39:00	3190c	888.00	715.00	17:45:00	1777.00	1430.00	0.80
3191c	914.00	697.00	19:00:00	3192c	891.00	716.00	19:07:00	1805.00	1413.00	0.78
3193c	897.00	704.00	19:22:00	3194c	890.00	704.00	19:31:00	1787.00	1408.00	0.79
3195c	896.00	699.00	20:15:00	3196c	887.00	721.00	20:22:00	1783.00	1420.00	0.80
3197c	893.00	696.00	20:44:00	3198c	896.00	718.00	20:50:00	1789.00	1414.00	0.79
3199c	894.00	689.00	21:34:00	3200c	887.00	723.00	7:42:00	1781.00	1412.00	0.79
3201c	894.00	690.00	22:01:00	3202c	891.00	695.00	22:08:00	1785.00	1385.00	0.78
3203c	887.00	700.00	22:42:00	3204c	883.00	697.00	0:52:00	1770.00	1397.00	0.79
3205c	890.00	687.00	23:12:00	3206c	890.00	697.00	23:20:00	1780.00	1384.00	0.78
3207c	886.00	685.00	12:22:00	3208c	894.00	697.00	12:30:00	1780.00	1382.00	0.78
3209c	897.00	689.00	12:51:00	3210c	893.00	694.00	1:01:00	1790.00	1383.00	0.77
3211c	888.00	688.00	1:20:00	3212c	891.00	703.00	1:27:00	1779.00	1391.00	0.78
3213c	895.00	695.00	1:52:00	3214c	891.00	699.00	1:58:00	1786.00	1394.00	0.78
							TOTAL:	32099.00	25326.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-28
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
3168b	212.80	3346.00	5:08:00	15.72
3170b	208.40	3284.00	5:31:00	15.76
3172b	209.30	3306.00	6:08:00	15.80
3174b	204.10	3226.00	6:44:00	15.81
3176b	212.70	3386.00	7:43:00	15.92
3178b	210.20	3320.00	8:00:00	15.79
3180b	210.80	3336.00	8:45:00	15.83
3182b	209.00	3318.00	9:09:00	15.88
3184b	212.10	3360.00	9:43:00	15.84
3186b	211.70	3344.00	10:09:00	15.80
3188b	215.80	3408.00	11:00:00	15.79
3190b	210.40	3280.00	11:23:00	15.59
3192b	207.50	3331.00	12:04:00	16.05
3194b	212.30	3354.00	12:28:00	15.80
3196b	215.00	3412.00	13:37:00	15.87
3198b	205.80	3258.00	14:00:00	15.83
3200b	216.30	3422.00	14:34:00	15.82
3202b	216.40	3404.00	15:02:00	15.73
TOTAL:	3800.60	60095.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-28
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
3204b	212.50	3364.00	15:34:00	15.83
3206b	214.90	3410.00	16:01:00	15.87
3208b	210.30	3322.00	16:31:00	15.80
3210b	205.90	3270.00	16:55:00	15.88
3212b	210.40	3360.00	17:24:00	15.97
3214b	214.60	3394.00	17:47:00	15.82
3216b	215.60	3388.00	19:01:00	15.71
3218b	209.40	3302.00	19:24:00	15.77
3220b	218.00	3452.00	20:17:00	15.83
3222b	210.70	3324.00	20:46:00	15.78
3224b	209.90	3304.00	21:36:00	15.74
3226b	218.50	3466.00	22:05:00	15.86
3228b	217.90	3440.00	22:45:00	15.79
3230b	212.90	3382.00	23:14:00	15.89
3232b	217.20	3422.00	12:25:00	15.76
3234b	221.60	3520.00	12:53:00	15.88
3236b	218.20	3440.00	1:22:00	15.77
3238b	216.70	3440.00	1:54:00	15.87
TOTAL:	3855.20	61000.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-28
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3168t	778	774			3424.4	1984.0	5408.4	4.8	3143c	3144c	3168b
3170t	778	774			3360.5	1988.6	5349.1	4.8	3145c	3146c	3170b
3172t	668	774			3382.5	1985.6	5368.1	4.8	3147c	3148c	3172b
3174t	668	774			3581.0	1985.2	5566.2	4.8	3149c	3150c	3174b
3176t	668				3551.0	1977.8	5528.8	4.8	3151c	3152c	3176b
3178t	668				3577.0	1988.5	5565.5	4.8	3153c	3154c	3178b
3180t	672	678	700		3581.0	1976.1	5557.1	4.8	3155c	3156c	3180b
3182t	672	678	700		3541.0	1990.5	5531.5	4.8	3157c	3158c	3182b
3184t	700				3590.0	1932.1	5522.1	4.8	3159c	3160c	3184b
3186t	700				3535.0	1935.7	5470.7	4.8	3161c	3162c	3186b
3188t	941	937			3592.0	1930.2	5522.2	4.8	3163c	3164c	3188b
3190t	941	937			3561.0	1939.4	5500.4	4.8	3165c	3166c	3190b
3192t	937	871			3527.0	1935.3	5462.3	4.8	3167c	3168c	3192b
3194t	937	871			3581.0	1933.8	5514.8	4.8	3169c	3170c	3194b
3196t	867	863			3588.0	1928.5	5516.5	4.8	3171c	3172c	3196b
3198t	867	863			3508.0	1941.7	5449.7	4.8	3173c	3174c	3198b
3200t	TOP UP ONLY				3531.0	1927.4	5458.4	4.8	3175c	3176c	3200b
3202t					3561.0	1925.7	5486.7	4.8	3177c	3178c	3202b
						TOTAL:	98778.4				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-28
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3204t	859	863			3551.0	1931.6	5482.6	4.8	3179c	3180c	3204b
3206t	859	863			3598.0	1928.1	5526.1	4.8	3181c	3182c	3206b
3208t	814	782			3542.0	1939.6	5481.6	4.8	3183c	3184c	3208b
3210t	814	782			3551.0	1947.3	5498.3	4.8	3185c	3186c	3210b
3212t	782	752			3558.0	1937.4	5495.4	4.8	3187c	3188c	3212b
3214t	782	752			3581.0	1939.3	5520.3	4.8	3189c	3190c	3214b
3216t	TOP UP ONLY				3467.5	1943.4	5410.9	4.8	3191c	3192c	3216b
3218t					3378.7	1930.1	5308.8	4.8	3193c	3194c	3218b
3220t	752	716			3531.4	1935.9	5467.3	4.8	3195c	3196c	3220b
3222t	752	716			3401.2	1935.3	5336.5	4.8	3197c	3198c	3222b
3224t	716	907			3381.2	1929.5	5310.7	4.8	3199c	3200c	3224b
3226t	716	907			3545.3	1913.7	5459.0	4.8	3201c	3202c	3226b
3228t	907	931			3519.7	1913.4	5433.1	4.8	3203c	3204c	3228b
3230t	907	931			3459.1	1910.2	5369.3	4.8	3205c	3206c	3230b
3232t	708	712			3501.7	1908.9	5410.6	4.8	3207c	3208c	3232b
3234t	708	712			3592.6	1915.1	5507.7	4.8	3209c	3210c	3234b
3236t	712				3520.0	1914.3	5434.3	4.8	3211c	3212c	3236b
3238t	712				3518.6	1920.2	5438.8	4.8	3213c	3214c	3238b
						TOTAL:	97891.3				

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-28
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
						TOTAL:					

NOTES

TOP UPS

Tanks:		Piles:
3168t	3170t	736, 732, 933, 786, 790, 874, 985
3184t	3186t	778, 774, 933, 929, 925, 885, 879, 790, 786
3192t	3194t	941
3200t	3202t	664, 672, 678, 700, 778
3216t	3218t	915, 885, 879, 871, 867, 863, 859, 790, 786, 774
3220t	3222t	678, 672, 668, 664
3224t	2226t	871, 867, 863, 859, 814, 782
3228t	3230t	937, 941
3236t	3238t	716

HFDI Production Control

Project Number	1814	**Date**	2018-11-28
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	19	183.49	139.31	196.67	41.17%

Daily pile Completion:	1.95%	**Daily Cement used in KG**	64499.00
Piles Poured to Date:	855	**Total Cement used to date KG**	2858635.10
Daily L/M of Drilling:	161.77	**Daily Bentonite used in KG**	7655.80
		Total Bentonite used in KG	448272.81
		Daily Water consumption	172265.00
		Total Water Consumption	7820953.26

HFDI Representative: De Wet Neethling (Name) — (Signature)

KCG Representative: Frederic Tremblay, P. Eng. (Name) — (Signature)

2018-11-29 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Don Henry Night Supervisor: Brad Depagie Project Coordinator: De Wet Neethling	Date: 2018-11-29 Site Conditions: -20	Shift: 24hr

FOREMAN'S SAFETY/ QUALITY MEETING

Working in the cold - Frostbite, confused - Warm up when needed
Working with others - Slips, trips, pinch points - Communicate with each other
Mix Grout - Grout Exposure, Mixture Failure - Use Proper PPE, Stay Alert

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Produced grout, poured piles, drilled piles, drilled sockets

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-29
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0764	Day	day	10.00	9.10	9.50	10.50	10.40	1.00
0766		Day	10.00	8.64	8.80	9.90	9.60	1.00
0768	Day	Day	10.00	8.70	9.50	9.90	9.70	1.00
0776	Day	Night	10.00	8.60	8.80	10.14		
0780	Night	Night	10.00	8.50	9.00	9.70	9.50	Core Barrel
0788	Day	Day	10.00	8.30	9.00	9.50	9.30	1.00
0802	Night	Night	10.00	7.60	8.50	8.90	8.70	Core Barrel
0806	Night	Night	10.00	7.40	8.10	8.70	8.50	Core Barrel
0810	Night	Night	10.00	7.10	7.60	8.05	8.20	Core Barrel
0818	Day	Day	9.00	7.20	7.70	8.60	8.20	1.00
0822	Day	Night	10.00	7.40	8.00			
0830	Day	Day	10.00	7.50	8.50	8.90		1.00
0842	Night		10.00	7.00	8.10			
0883	Night	Night	8.00	7.10	7.60	9.20	8.90	2.50
0887	Night	Night	8.00	6.80	7.50	9.20	8.90	2.50
0891		Day	8.00	6.80	7.70	9.30	8.80	2.50
0899		Day	8.00	6.70	7.60	8.90	8.70	2.00
0903		Day	8.00	6.60	6.90	7.82	7.60	1.00

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-29
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0919	Day	Night	8.00	6.20	6.60	7.00	6.40	1.00
0923	Day	Day	7.00	6.20	6.40	7.50	7.20	1.00
0927		Day	7.00	6.50	6.80	7.80	7.50	1.00
0935	Night		7.00	5.90	6.40			
0939	Night		7.00	5.60	5.90			
0945		Day	5.00	4.60	5.00	6.21	5.60	1.00
0949		Day	5.00	4.50	5.00	6.48	6.10	1.00
0953	Night	Night	5.00	4.60	5.00	6.30	6.00	1.00
0957	Night	Night	5.00	4.50	5.00	6.10	5.80	1.00
0961	Night	Night	5.00	4.60	5.00	5.90	5.70	1.00
0965	Night	Night	5.00	4.50	5.00	6.10	5.60	1.00
					TOTAL	59.39		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-29
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
3215c	891.00	685.00	4:55:00	3216c	895.00	706.00	5:02:00	1786.00	1391.00	0.78
3217c	893.00	688.00	5:28:00	3218c	893.00	709.00	5:35:00	1786.00	1397.00	0.78
3219c	889.00	689.00	6:15:00	3220c	888.00	711.00	6:23:00	1777.00	1400.00	0.79
3221c	892.00	705.00	6:32:00	3222c	892.00	701.00	6:38:00	1784.00	1406.00	0.79
3223c	869.00	703.00	7:03:00	3224c	880.00	701.00	7:18:00	1749.00	1404.00	0.80
3225c	888.00	695.00	7:25:00	3226c	891.00	716.00	7:31:00	1779.00	1411.00	0.79
3227c	892.00	712.00	8:07:00	3228c	890.00	715.00	8:14:00	1782.00	1427.00	0.80
3229c	887.00	701.00	8:24:00	3230c	891.00	720.00	8:30:00	1778.00	1421.00	0.80
3231c	888.00	692.00	9:18:00	3232c	894.00	723.00	9:23:00	1782.00	1415.00	0.79
3233c	869.00	703.00	9:34:00	3234c	889.00	701.00	9:40:00	1758.00	1404.00	0.80
3235c	890.00	701.00	10:13:00	3236c	893.00	726.00	10:19:00	1783.00	1427.00	0.80
3237c	888.00	703.00	10:29:00	3238c	888.00	726.00	10:37:00	1776.00	1429.00	0.80
3239c	897.00	703.00	11:22:00	3240c	894.00	728.00	11:28:00	1791.00	1431.00	0.80
3241c	897.00	705.00	11:38:00	3242c	888.00	698.00	11:45:00	1785.00	1403.00	0.79
3243c	892.00	693.00	12:21:00	3244c	894.00	702.00	12:27:00	1786.00	1395.00	0.78
3245c	894.00	692.00	12:38:00	3246c	896.00	706.00	12:44:00	1790.00	1398.00	0.78
3247c	889.00	698.00	13:24:00	3248c	887.00	713.00	13:37:00	1776.00	1411.00	0.79
3249c	893.00	704.00	13:47:00	3250c	886.00	694.00	13:57:00	1779.00	1398.00	0.79
							TOTAL:	32027.00	25368.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-29
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
3251c	895.00	687.00	14:22:00	3252c	887.00	701.00	14:31:00	1782.00	1388.00	0.78
3253c	897.00	701.00	14:39:00	3254c	890.00	695.00	14:46:00	1787.00	1396.00	0.78
3255c	891.00	696.00	15:22:00	3256c	888.00	702.00	15:37:00	1779.00	1398.00	0.79
3257c	894.00	711.00	15:46:00	3258c	898.00	700.00	15:52:00	1792.00	1411.00	0.79
3259c	894.00	686.00	16:20:00	3260c	890.00	698.00	16:26:00	1784.00	1384.00	0.78
3261c	894.00	715.00	16:37:00	3262c	892.00	710.00	16:44:00	1786.00	1425.00	0.80
3263c	898.00	706.00	17:35:00	3264c	892.00	697.00	17:40:00	1790.00	1403.00	0.78
3265c	887.00	699.00	17:50:00	3266c	888.00	716.00	17:56:00	1775.00	1415.00	0.80
3267c	886.00	692.00	19:07:00	3268c	886.00	708.00	19:18:00	1772.00	1400.00	0.79
3269c	895.00	694.00	19:31:00	3270c	894.00	699.00	19:37:00	1789.00	1393.00	0.78
3271c	896.00	693.00	20:06:00	3272c	898.00	700.00	20:13:00	1794.00	1393.00	0.78
3273c	896.00	689.00	20:33:00	3274c	890.00	701.00	20:41:00	1786.00	1390.00	0.78
3275c	898.00	690.00	21:21:00	3276c	893.00	702.00	21:29:00	1791.00	1392.00	0.78
3277c	899.00	687.00	21:47:00	3278c	893.00	703.00	21:54:00	1792.00	1390.00	0.78
3279c	894.00	697.00	22:32:00	3280c	897.00	706.00	22:39:00	1791.00	1403.00	0.78
3281c	898.00	695.00	22:58:00	3282c	892.00	726.00	23:06:00	1790.00	1421.00	0.79
3283c	894.00	696.00	23:51:00	3284c	894.00	721.00	23:58:00	1788.00	1417.00	0.79
3285c	894.00	695.00	12:14:00	3286c	896.00	710.00	12:21:00	1790.00	1405.00	0.78
							TOTAL:	32158.00	25224.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	**Date**	2018-11-29
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
3287c	897	695	12:37:00 PM	3288c	897	711.00	12:44:00	1794.00	1406.00	0.78
3289c	894	693	1:03:00 AM	3290c	898	716.00	1:10:00	1792.00	1409.00	0.79
3291c	892	691	1:26:00 AM	3292c	894	714.00	1:33:00	1786.00	1405.00	0.79
3293c	893	701	1:47:00 AM	3294c	893	704.00	1:58:00	1786.00	1405.00	0.79
3295c	894	696	2:14:00 AM	3296c	898	698.00	2:21:00	1792.00	1394.00	0.78
3297c	898	703	2:33:00 AM	3298c	891	714.00	2:41:00	1789.00	1417.00	0.79
3299c	895	710	3:21:00 AM	3300c	889	713.00	3:28:00	1784.00	1423.00	0.80
3301c	891	698	3:44:00 AM	3302c	893	701.00	3:51:00	1784.00	1399.00	0.78
3303c	887	691	4:19:00 AM	3304c	889	698.00	4:26:00	1776.00	1389.00	0.78
3305c	885	702	4:36:00 AM	3306c	891	715.00	4:46:00	1776.00	1417.00	0.80
							TOTAL:	17859.00	14064.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-29
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
3240b	218.90	3462.00	4:57:00	15.82
3242b	220.60	3468.00	5:30:00	15.72
3244b	218.50	3428.00	6:17:00	15.69
3246b	215.00	3402.00	6:41:00	15.82
3248b	215.80	3376.00	7:05:00	15.64
3250b	210.50	3320.00	7:34:00	15.77
3252b	209.50	3314.00	8:10:00	15.82
3254b	213.20	3340.00	8:33:00	15.67
3256b	218.00	3456.00	9:22:00	15.85
3258b	211.90	3324.00	9:41:00	15.69
3260b	212.20	3354.00	10:15:00	15.81
3262b	207.60	3277.00	10:40:00	15.79
3264b	214.40	3456.00	11:24:00	16.12
3266b	216.00	3392.00	11:47:00	15.70
3268b	206.00	3268.00	12:24:00	15.86
3270b	217.10	3434.00	12:45:00	15.82
3272b	213.00	3366.00	13:26:00	15.80
3274b	217.40	3344.00	13:52:00	15.38
TOTAL:	3855.60	60781.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-29
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
3276b	211.60	3344.00	14:24:00	15.80
3278b	214.40	3372.00	14:47:00	15.73
3280b	231.10	3672.00	15:25:00	15.89
3282b	210.80	3340.00	15:55:00	15.84
3284b	214.90	3396.00	16:22:00	15.80
3286b	217.10	3426.00	16:46:00	15.78
3288b	215.60	3350.00	17:36:00	15.54
3290b	216.80	3400.00	17:57:00	15.68
3292b	221.00	3472.00	19:09:00	15.71
3294b	220.10	3400.00	19:33:00	15.45
3296b	224.70	3534.00	20:09:00	15.73
3298b	224.40	3528.00	20:36:00	15.72
3300b	219.90	3488.00	21:23:00	15.86
3302b	221.30	3488.00	21:49:00	15.76
3304b	220.20	3494.00	22:34:00	15.87
3306b	225.40	3500.00	23:01:00	15.53
3308b	223.10	3498.00	23:56:00	15.68
3310b	221.10	3474.00	12:16:00	15.71
TOTAL:	3953.50	62176.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-29
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
3312b	223.30	3534.00	12:42:00 PM	15.83
3314b	227.30	3510.00	1:05:00 AM	15.44
3316b	223.30	3476.00	1:28:00 AM	15.57
3318b	222.90	3484.00	1:52:00 AM	15.63
3320b	219.80	3486.00	2:16:00 AM	15.86
3322b	221.60	3500.00	2:34:00 AM	15.79
3324b	219.30	3448.00	3:53:00 AM	15.72
3326b	220.70	3482.00	3:46:00 AM	15.78
3328b	222.80	3514.00	4:21:00 AM	15.77
3330b	230.10	3552.00	4:41:00 AM	15.44
TOTAL:	2231.10	34986.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-29
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3240t	TOP UP ONLY				3541.8			4.8	3215c	3216c	3240b
3242t					3549.3			4.8	3217c	3218c	3242b
3244t	720	756			3508.7			4.8	3219c	3220c	3244b
3246t	720	756			3580.4			4.8	3221c	3222c	3246b
3248t	756				3556.1			4.8	3223c	3224c	3248b
3250t	756				3551.0			4.8	3225c	3226c	3250b
3252t	760	772			3590.0			4.8	3227c	3228c	3252b
3254t	760	772			3561.0			4.8	3229c	3230c	3254b
3256t	945	949	929		3550.0			4.8	3231c	3232c	3256b
3258t	945	949	929		3558.0			4.8	3233c	3234c	3258b
3260t	927				3543.0			4.8	3235c	3236c	3260b
3262t	928				3568.0			4.8	3237c	3238c	3262b
3264t	927	903			3548.0			4.8	3239c	3240c	3264b
3266t	927	903			3555.0			4.8	3241c	3242c	3266b
3268t	899	891			3581.0			4.8	3243c	3244c	3268b
3270t	899	891			3574.0			4.8	3245c	3246c	3270b
3272t	891	830			3531.0			4.8	3247c	3248c	3272b
3274t	891	830			3501.0			4.8	3249c	3250c	3274b

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-29
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3276t	830	826	822		3539.0			4.8	3251c	3252c	3276b
3278t	830	826	822		3527.0			4.8	3253c	3254c	3278b
3280t	822	818			3591.0			4.8	3255c	3256c	3280b
3282t	822	818			3559.0			4.8	3257c	3258c	3282b
3284t	788	776			3564.0			4.8	3259c	3260c	3284b
3286t	788	776			3558.0			4.8	3261c	3262c	3286b
3288t	TOP UP ONLY				3573.0			4.8	3263c	3264c	3288b
3290t					3581.0			4.8	3265c	3266c	3290b
3292t	776	768			3553.0			4.8	3267c	3268c	3292b
3294t	776	768			3581.0			4.8	3269c	3270c	3294b
3296t	768	764			3561.0			4.8	3271c	3272c	3296b
3298t	768	764			3523.0			4.8	3273c	3274c	3298b
3300t	764	923	919		3507.0			4.8	3275c	3276c	3300b
3302t	764	923	919		3529.0			4.8	3277c	3278c	3302b
3304t	919	965	961		3551.0			4.8	3279c	3280c	3304b
3306t	919	965	961		3526.0			4.8	3281c	3282c	3306b
3308t	957	953			3512.0			4.8	3283c	3284c	3308b
3310t	957	953			3546.0			4.8	3285c	3286c	3310b

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-29
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3312t	TOP UP ONLY				3527.0			4.8	3251c	3252c	3276b
3314t					3510.0			4.8	3253c	3254c	3278b
3316t	810	806			3505.0			4.8	3255c	3256c	3280b
3318t	810	806			3562.0			4.8	3257c	3258c	3282b
3320t	806	802			3530.0			4.8	3259c	3260c	3284b
3322t	806	802			3491.0			4.8	3261c	3262c	3286b
3324t	802	794	784		3510.0			4.8	3263c	3264c	3288b
3326t	802	794	784		3546.0			4.8	3265c	3266c	3290b
3328t	784				3573.0			4.8	3267c	3268c	3292b
3330t	784				3549.0			4.8	3269c	3270c	3294b
								4.8	3271c	3272c	3296b
								4.8	3273c	3274c	3298b
								4.8	3275c	3276c	3300b
								4.8	3277c	3278c	3302b
								4.8	3279c	3280c	3304b
								4.8	3281c	3282c	3306b
								4.8	3283c	3284c	3308b
								4.8	3285c	3286c	3310b

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-11-29
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
						TOTAL:					

NOTES

TOP UPS

Tanks:		Piles:
3240t	3242t	859, 863, 867, 871, 907, 716, 712, 708, 700, 814, 732
3244t	3246t	907, 911, 931
3252t	3254t	756
3260t	3262t	720, 760, 700, 668, 672, 708, 712, 716, 752
3272t	3274t	949, 945, 927, 907, 903, 899
3288t	3290t	931, 927, 907, 903, 859, 891, 830, 826, 822, 818, 760
3292t	3294t	772, 756, 720, 716, 712, 708
3308t	3310t	949, 945, 927, 919, 903,
3312t	3314t	830, 826, 822, 788, 776, 720, 712, 772, 768, 764, 760, 756, 710, 708

HFDI Production Control

Project Number	1814	**Date**	2018-11-29
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	29	238.45	181.01	251.76	39.08%

Daily pile Completion:	2.97%	**Daily Cement used in KG**	82044.00
Piles Poured to Date:	884	**Total Cement used to date KG**	2940679.10
Daily L/M of Drilling:	198.95	**Daily Bentonite used in KG**	10040.20
		Total Bentonite used in KG	458313.01
		Daily Water consumption	222599.00
		Total Water Consumption	8043552.26

HFDI Representative: De Wet Neethling (Name) _____ (Signature)

KCG Representative: Frederic Tremblay, P. Eng. (Name) _____ (Signature)

2018-11-30 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Don Henry Night Supervisor: Brad Depagie Project Coordinator: De Wet Neethling	Date: 2018-11-30	Shift: 24hr
		Site Conditions: -15. A bit warmer with a little snow in the afternoon. Wind picked up at night.	

FOREMAN'S SAFETY/ QUALITY MEETING

Tool Changing - Pinch Points, Eye Injury - Safety glasses, Make eye contact
Grouting Piles - Open Holes - Use Hole Covers
Hammer Piles - Airlines, Tripping, High Pressure - Whip Checks, Use Spotter

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Produced grout, poured piles, drilled piles, drilled sockets
Used the last of GU Cement. Switched to HE Cement

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-30
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0668b	Night	Night	12.00	9.90	10.80	11.60	11.00	Core Barrel
0676	Day	Day	12.00	10.60	11.00	11.60	11.60	Core Barrel
0680	Day	Day	12.00	10.80	11.00	11.90	11.90	Core Barrel
0792	Night		10.00	8.50	8.90			
0798	Day	Day	10.00	8.00	9.00	9.00	9.00	Core Barrel
0804	Night		10.00	7.50	8.00			
0816	Night	Night	10.00	7.80	8.90	9.70	8.10	Core Barrel
0820	Night	Night	10.00	8.00	8.90	9.10	8.20	Core Barrel
0824	Day		10.00	7.30	7.80			
0828	Night	Night	10.00	8.00	8.70	8.80	8.40	Core Barrel
0832	Night	Night	10.00	7.00	8.20	8.60	8.20	Core Barrel
0836	Day	Day	10.00	7.00	7.60	8.02	8.02	Core Barrel
0842		Day	10.00	7.00	8.10	8.30	8.20	Core Barrel
0846	Day	Day	10.00	7.00	7.80	8.40	8.20	Core Barrel
0850	Day	Day	10.00	7.00	8.10	8.30	8.10	Core Barrel
0854	Day	Day	8.00	7.00	7.50	8.20	8.00	1.00
0858	Night	Night	8.00	5.90	7.60	8.30	8.00	1.00
0866	Night	Night	10.00	7.80	8.50	9.40	9.00	1.50

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-11-30
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0870	Night	Night	10.00	7.00	8.50	9.20	9.00	1.50
0875	Day	Day	8.00	6.80	7.20	8.90	8.80	2.00
0878	Night		8.00	6.90	7.20			
0895	Night	Night	8.00	6.90	7.40	9.10	8.90	3.00
0910	Night		8.00	5.70	6.50			
0914	Night		8.00	5.70	6.30			
0935		Day	7.00	5.90	6.40	7.18	7.10	1.00
0939		Day	7.00	5.60	5.90	7.00	6.70	1.00
0943	Day	Day	6.00	5.40	5.60	6.50	6.53	1.00
0947	Day	Day	5.00	5.10	5.40	6.50	6.40	1.00
0951	Day	Night	5.00	4.90	5.00	5.90	5.90	1.00
0955	Night	Night	5.00	4.80	5.00	6.20	6.00	1.50
0959	Night	Night	5.00	4.70	5.00	5.90	5.80	1.00
0963	Day	Night	5.00	4.60	4.80	5.90	5.70	2.00
					TOTAL	78.28		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	**Date**	2018-11-30
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
3307c	898	694.00	5:27:00	3308c	891	713.00	5:34:00	1789.00	1407.00	0.79
3309c	894	698.00	5:53:00	3310c	895	697.00	6:00:00	1789.00	1395.00	0.78
3311c	888.00	694.00	6:38:00	3312c	889.00	714.00	6:45:00	1777.00	1408.00	0.79
3313c	899.00	701.00	6:55:00	3314c	893.00	710.00	7:01:00	1792.00	1411.00	0.79
3315c	892.00	695.00	7:49:00	3316c	891.00	706.00	7:57:00	1783.00	1401.00	0.79
3317c	887.00	709.00	8:07:00	3318c	893.00	710.00	8:13:00	1780.00	1419.00	0.80
3319c	891.00	700.00	10:51:00	3320c	889.00	702.00	10:57:00	1780.00	1402.00	0.79
3321c	888.00	700.00	11:10:00	3322c	893.00	703.00	11:20:00	1781.00	1403.00	0.79
3323c	885.00	690.00	11:43:00	3324c	894.00	699.00	11:50:00	1779.00	1389.00	0.78
3325c	887.00	707.00	12:02:00	3326c	894.00	711.00	12:09:00	1781.00	1418.00	0.80
3327c	885.00	691.00	12:44:00	3328c	892.00	709.00	12:51:00	1777.00	1400.00	0.79
3329c	893.00	706.00	13:01:00	3330c	878.00	709.00	13:08:00	1771.00	1415.00	0.80
3331c	898.00	688.00	13:37:00	3332c	895.00	710.00	13:43:00	1793.00	1398.00	0.78
3333c	897.00	696.00	13:56:00	3334c	884.00	696.00	14:00:00	1781.00	1392.00	0.78
3335c	890.00	707.00	15:01:00	3336c	895.00	709.00	15:07:00	1785.00	1416.00	0.79
3337c	894.00	707.00	15:17:00	3338c	889.00	708.00	15:23:00	1783.00	1415.00	0.79
3339c	894.00	688.00	16:02:00	3340c	888.00	710.00	14:08:00	1782.00	1398.00	0.78
3341c	881.00	698.00	16:20:00	3342c	889.00	698.00	16:27:00	1770.00	1396.00	0.79
							TOTAL:	32073.00	25283.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-11-30
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
3343c	887.00	710.00	16:57:00	3344c	889.00	709.00	17:05:00	1776.00	1419.00	0.80
3345c	895.00	708.00	17:22:00	3346c	892.00	700.00	17:28:00	1787.00	1408.00	0.79
3347c	893.00	708.00	18:18:00	3348c	892.00	708.00	18:29:00	1785.00	1416.00	0.79
3349c	893.00	726.00	18:40:00	3350c	899.00	713.00	18:49:00	1792.00	1439.00	0.80
3351c	893.00	685.00	19:27:00	3352c	896.00	702.00	19:34:00	1789.00	1387.00	0.78
3353c	892.00	703.00	19:45:00	3354c	894.00	699.00	19:54:00	1786.00	1402.00	0.78
3355c	898.00	684.00	20:25:00	3356c	895.00	696.00	20:33:00	1793.00	1380.00	0.77
3357c	895.00	680.00	20:47:00	3358c	896.00	707.00	20:53:00	1791.00	1387.00	0.77
3359c	895.00	685.00	21:23:00	3360c	898.00	707.00	21:35:00	1793.00	1392.00	0.78
3361c	898.00	687.00	21:54:00	3362c	901.00	700.00	22:01:00	1799.00	1387.00	0.77
3363c	891.00	685.00	22:21:00	3364c	897.00	696.00	22:28:00	1788.00	1381.00	0.77
3365c	894.00	702.00	22:39:00	3366c	894.00	690.00	22:51:00	1788.00	1392.00	0.78
3367c	892.00	684.00	23:16:00	3368c	893.00	701.00	23:23:00	1785.00	1385.00	0.78
3369c	892.00	694.00	23:41:00	3370c	869.00	697.00	23:48:00	1761.00	1391.00	0.79
3371c	889.00	686.00	12:14:00	3372c	892.00	693.00	12:22:00	1781.00	1379.00	0.77
3373c	888.00	686.00	12:49:00	3374c	889.00	688.00	12:57:00	1777.00	1374.00	0.77
3375c	970.00	692.00	1:16:00	3376c	968.00	675.00	1:30:00	1938.00	1367.00	0.71
3377c	965.00	683.00	1:49:00	3378c	968.00	685.00	1:57:00	1933.00	1368.00	0.71
							TOTAL:	32442.00	25054.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	**Date**	2018-11-30
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
3379c	964	699	2:20:00 AM	3380c	967	689	2:27:00	1931	1388	0.71879855
3381c	970	675	2:43:00 AM	3382c	970	692	2:49:00	1940	1367	0.704639175
3383c	967	676	3:52:00 AM	3384c	962	689	3:59:00	1929	1365	0.707620529
3385c	966	692	4:15:00 AM	3386c	967	692	4:23:00	1933	1384	0.715985515
3315c										
3319c										
3327c										
3351c										
3355c										
3371c										
							TOTAL:	7733.00	5504.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-30
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
3332b	223.70	3532.00	5:29:00	15.79
3334b	220.90	3444.00	5:55:00	15.59
3336b	225.90	3556.00	6:41:00	15.74
3338b	215.90	3394.00	7:03:00	15.72
3340b	217.30	3426.00	7:52:00	15.77
3342b	214.30	3388.00	8:16:00	15.81
3344b	214.10	3406.00	10:54:00	15.91
3346b	217.70	3395.00	11:15:00	15.59
3348b	223.30	3448.00	11:46:00	15.44
3350b	219.50	3472.00	12:10:00	15.82
3352b	219.40	3462.00	12:47:00	15.78
3354b	219.10	3418.00	13:08:00	15.60
3356b	213.40	3356.00	13:34:00	15.73
3358b	214.00	3450.00	14:14:00	16.12
3360b	222.00	3526.00	15:02:00	15.88
3362b	217.20	3460.00	15:26:00	15.93
3364b	219.30	3454.00	16:04:00	15.75
3366b	210.20	3308.00	16:30:00	15.74
TOTAL:	3927.20	61895.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-11-30
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
3368b	216.80	3410.00	17:00:00	15.73
3370b	223.70	3510.00	17:30:00	15.69
3372b	230.10	3570.00	18:23:00	15.51
3374b	217.30	3452.00	18:44:00	15.89
3376b	221.20	3528.00	19:29:00	15.95
3378b	222.90	3494.00	19:48:00	15.68
3380b	224.30	3518.00	20:28:00	15.68
3382b	218.90	3442.00	20:48:00	15.72
3384b	228.60	3596.00	21:28:00	15.73
3386b	226.90	3520.00	21:56:00	15.51
3388b	247.80	3908.00	22:23:00	15.77
3390b	221.20	3454.00	22:45:00	15.61
3392b	224.90	3520.00	23:18:00	15.65
3394b	220.10	3474.00	23:43:00	15.78
3396b	225.00	3528.00	12:16:00	15.68
3398b	223.50	3520.00	12:51:00	15.75
3400b	219.80	3462.00	1:18:00	15.75
3402b	221.70	3492.00	1:51:00	15.75
TOTAL:	4034.70	63398.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-11-30
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
3404b	223.1	3522	2:21:00 AM	15.78664276
3406b	219.7	3456	2:45:00 AM	15.73054165
3408b	221.8	3502	3:54:00 AM	15.7889991
3410b	218.7	3476	4:18:00 AM	15.89391861
3340b		3426		
3344b		3406		
3352b		3462		
3376b		3528		
3380b				
3396b				
TOTAL:	883.30	27778.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-30
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3332t	784	780	887		3527.0			4.8	3307c	3308c	3332b
3334t	784	780	887		3537.0			4.8	3309c	3310c	3334b
3336t	887	883			3542.0			4.8	3311c	3312c	3336b
3338t	887	883			3558.0			4.8	3313c	3314c	3338b
3340t	883				3582.0			4.8	3315c	3316c	3340b
3342t	883				3561.0			4.8	3317c	3318c	3342b
3344t	947	943	939	935	3559.0			4.8	3319c	3320c	3344b
3346t	947	943	939	935	3521.0			4.8	3321c	3322c	3346b
3348t	935	939	943		3561.0			4.8	3323c	3324c	3348b
3350t	935	939	943		3581.0			4.8	3325c	3326c	3350b
3352t	935	680			3589.0			4.8	3327c	3328c	3352b
3354t	935	680			3598.0			4.8	3329c	3330c	3354b
3356t	680				3529.0			4.8	3331c	3332c	3356b
3358t	680				3587.0			4.8	3333c	3334c	3358b
3360t	676	680			3563.0			4.8	3335c	3336c	3360b
3362t	676	680			3528.0			4.8	3337c	3338c	3362b
3364t	798				3561.0			4.8	3339c	3340c	3364b
3366t	798				3588.0			4.8	3341c	3342c	3366b

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-30
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3368t	824	836	842		3589.0			4.8	3343c	3344c	3368b
3370t	824	836	842		3562.0			4.8	3345c	3346c	3370b
3372t	842	846	850		3573.0			4.8	3347c	3348c	3372b
3374t	842	846	850		3565.0			4.8	3349c	3350c	3374b
3376t	951				3543.0			4.8	3351c	3352c	3376b
3378t	951				3554.0			4.8	3353c	3354c	3378b
3380t	TOP UP ONLY				3507.0			4.8	3355c	3356c	3380b
3382t					3488.0			4.8	3357c	3358c	3382b
3384t	850	854			3552.0			4.8	3359c	3360c	3384b
3386t	850	854			3891.0			4.8	3361c	3362c	3386b
3388t	854	874			3586.0			4.8	3363c	3364c	3388b
3390t	854	874			3575.0			4.8	3365c	3366c	3390b
3392t	959	955	963		3534.0			4.8	3367c	3368c	3392b
3394t	959	955	963		3579.0			4.8	3369c	3370c	3394b
3396t	959	668b			3582.0			4.8	3371c	3372c	3396b
3398t	959	668b			3512.0			4.8	3373c	3374c	3398b
3400t	668b	816			3546.0			4.8	3375c	3376c	3400b
3402t	668b	816			3535.0			4.8	3377c	3378c	3402b

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-11-30
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3404t	816	820			3507.0			4.8	3379c	3380c	3404b
3406t	816	820			3537.0			4.8	3381c	3382c	3406b
3408t	TOP UP ONLY				3506.0			4.8	3383c	3384c	3408b
3410t					3548.0			4.8	3385c	3386c	3410b
						TOTAL:					

NOTES

TOP UPS

Tanks:		Piles:
3340t	3342t	788, 784, 802, 794, 784, 780, 776, 983, 919, 901, 891, 887, 883, 818
3344t	3346t	780, 784, 788, 802, 806, 810, 776, 768, 764, 760
3352t	3354t	949, 943, 939, 953, 957, 961, 965
3376t	3378t	947, 935, 943, 939, 927, 935, 923, 919, 887
3380t	tt82t	676, 887, 883, 842, 836, 824, 810, 776, 764, 806, 802, 798, 794, 784, 780, 768
3396t	3398t	951, 947, 943, 939, 935, 883, 887
3408t	3410t	887, 883, 875, 854, 850, 798, 780, 846, 842, 836, 824, 820, 816, 784

HFDI Production Control

Project Number	1814	**Date**	2018-11-30
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	23	174.19	132.53	219.75	65.82%

Daily pile Completion:	2.36%	**Daily Cement used in KG**	72248.00
Piles Poured to Date:	907	**Total Cement used to date KG**	3012927.10
Daily L/M of Drilling:	240.59	**Daily Bentonite used in KG**	8845.20
		Total Bentonite used in KG	467158.21
		Daily Water consumption	195090.00
		Total Water Consumption	8238642.26

HFDI Representative: De Wet Neethling (Name) — (Signature)

KCG Representative: Frederic Tremblay, P. Eng. (Name) — (Signature)

2018-12-01 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Don Henry Night Supervisor: Brad Depagie Project Coordinator: De Wet Neethling	Date: 2018-12-01	Shift: 24hr
		Site Conditions: -31. Quite windy and very cold	

FOREMAN'S SAFETY/ QUALITY MEETING

Tool Changing - Pinch Points, Eye Injury - Safety glasses, Make eye contact
Grouting Piles - Open Holes - Use Hole Covers
Hammer Piles - Airlines, Tripping, High Pressure - Whip Checks, Use Spotter

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Produced grout, poured piles, drilled piles, drilled sockets

DELAYS: Skid Pump failed and had to switch to trailer mounted pump. 3 hours total delay time.

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-12-01
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0778b		Night	10.00	8.40	9.10	9.60	9.40	Core Barrel
0780	Day	Day	12.00	10.80	11.00	11.89	11.89	Core Barrel
0792		Night	10.00	8.50	8.90	9.60	9.40	1.00
0796	Night		10.00	8.20	8.70			
0800	Night		10.00	8.20	8.70			
0804		Night	10.00	7.50	8.00	9.00	8.60	1.00
0808	Day	Night	10.00	7.30	7.80	8.56		
0812	Day	Day	10.00	7.20	8.00	8.20	8.20	Core Barrel
0840	Day	Day	10.00	7.20	8.00	8.20	8.20	Core Barrel
0844	Day	Day	10.00	7.20	8.60	8.70	8.30	1.00
0848	Day	Day	10.00	7.10	7.80	8.40	8.10	1.00
0852	Day	Day	10.00	7.10	7.90	8.40	8.10	1.00
0878		day	8.00	6.90	7.20	10.00	9.00	1.00
0890	Night	Night	8.00	6.90	8.00	9.20	9.10	2.00
0898	Night	Night	8.00	6.80	8.00	9.20	9.00	2.00
0902	Day	Night	8.00	6.80	7.20	8.10	7.80	1.00
0906	Day	Day	8.00	6.90	7.30	8.14	7.90	1.00
0910		Day	8.00	5.70	6.50	7.30	6.80	1.00

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	**Date**	2018-12-01
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0914		Day	8.00	5.70	6.30	7.10	6.80	1.00
0918	Day	Night	8.00	6.30	6.70	7.50	7.40	1.00
0922	Day	Day	8.00	6.40	7.00	7.60	7.40	1.00
0926	Day	day	8.00	6.30	6.80	7.70	7.60	1.00
					TOTAL	29.90		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-12-01
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
3387c	960.00	680.00	5:05:00	3388c	967.00	682.00	5:15:00	1927.00	1362.00	0.71
3389c	964.00	683.00	5:30:00	3390c	953.00	703.00	5:40:00	1917.00	1386.00	0.72
3391c	966.00	683.00	6:28:00	3392c	968.00	698.00	6:35:00	1934.00	1381.00	0.71
3393c	962.00	688.00	6:50:00	3394c	964.00	695.00	6:58:00	1926.00	1383.00	0.72
3395c	964.00	690.00	7:14:00	3396c	967.00	699.00	7:21:00	1931.00	1389.00	0.72
3397c	967.00	700.00	7:32:00	3398c	965.00	696.00	7:39:00	1932.00	1396.00	0.72
3399c	966.00	682.00	8:18:00	3400c	967.00	689.00	8:27:00	1933.00	1371.00	0.71
3401c	965.00	692.00	8:36:00	3402c	962.00	716.00	8:49:00	1927.00	1408.00	0.73
3403c	967.00	697.00	9:36:00	3404c	960.00	699.00	9:43:00	1927.00	1396.00	0.72
3405c	968.00	714.00	9:57:00	3406c	965.00	687.00	10:03:00	1933.00	1401.00	0.72
3407c	966.00	711.00	10:37:00	3408c	969.00	712.00	10:43:00	1935.00	1423.00	0.74
3409c	963.00	698.00	10:53:00	3410c	968.00	687.00	11:08:00	1931.00	1385.00	0.72
3411c	966.00	690.00	11:49:00	3412c	967.00	716.00	11:56:00	1933.00	1406.00	0.73
3413c	969.00	699.00	12:05:00	3414c	966.00	686.00	12:12:00	1935.00	1385.00	0.72
3415c	968.00	677.00	12:59:00	3416c	967.00	692.00	13:05:00	1935.00	1369.00	0.71
3417c	971.00	723.00	13:15:00	3418c	959.00	711.00	13:28:00	1930.00	1434.00	0.74
3419c	969.00	677.00	14:22:00	3420c	970.00	686.00	14:26:00	1939.00	1363.00	0.70
3421c	969.00	685.00	14:34:00	3422c	966.00	687.00	14:40:00	1935.00	1372.00	0.71
							TOTAL:	34760.00	25010.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-12-01
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
3423c	970.00	686.00	15:36:00	3424c	969.00	685.00	15:43:00	1939.00	1371.00	0.71
3425c	967.00	688.00	15:51:00	3426c	969.00	691.00	16:18:00	1936.00	1379.00	0.71
3427c	968.00	686.00	16:30:00	3428c	967.00	691.00	16:37:00	1935.00	1377.00	0.71
3429c	971.00	692.00	16:44:00	3430c	989.00	687.00	16:50:00	1960.00	1379.00	0.70
3431c	971.00	692.00	18:19:00	3432c	968.00	675.00	18:31:00	1939.00	1367.00	0.71
3433c	970.00	676.00	18:58:00	3434c	973.00	692.00	19:06:00	1943.00	1368.00	0.70
3435c	969.00	693.00	19:24:00	3436c	971.00	681.00	19:33:00	1940.00	1374.00	0.71
3437c	964.00	696.00	19:50:00	3438c	964.00	690.00	19:57:00	1928.00	1386.00	0.72
3439c	965.00	696.00	20:20:00	3440c	970.00	690.00	20:30:00	1935.00	1386.00	0.72
3441c	962.00	709.00	20:48:00	3442c	972.00	690.00	20:56:00	1934.00	1399.00	0.72
3443c	969.00	691.00	21:34:00	3444c	972.00	692.00	21:43:00	1941.00	1383.00	0.71
3445c	973.00	699.00	22:08:00	3446c	975.00	690.00	22:16:00	1948.00	1389.00	0.71
3447c	976.00	691.00	22:47:00	3448c	991.00	690.00	22:54:00	1967.00	1381.00	0.70
3449c	965.00	689.00	23:16:00	3450c	970.00	690.00	23:21:00	1935.00	1379.00	0.71
3451c	974.00	702.00	23:50:00	3452c	972.00	689.00	23:59:00	1946.00	1391.00	0.71
3453c	975.00	675.00	12:16:00	3454c	969.00	700.00	12:23:00	1944.00	1375.00	0.71
3455c	970.00	698.00	3:41:00	3456c	973.00	689.00	3:51:00	1943.00	1387.00	0.71
3457c	968.00	689.00	4:08:00	3458c	972.00	702.00	4:16:00	1940.00	1391.00	0.72
							TOTAL:	34953.00	24862.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-12-01
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
3412b	225.80	3540.00	5:08:00	15.68
3414b	221.30	3450.00	5:31:00	15.59
3416b	222.10	3498.00	6:29:00	15.75
3418b	209.10	3276.00	7:00:00	15.67
3420b	211.30	3356.00	7:17:00	15.88
3422b	218.20	3446.00	7:41:00	15.79
3424b	212.70	3352.00	8:21:00	15.76
3426b	215.40	3418.00	8:51:00	15.87
3428b	247.60	3908.00	9:40:00	15.78
3430b	211.70	3346.00	10:06:00	15.81
3432b	213.40	3374.00	10:38:00	15.81
3434b	210.90	3342.00	11:10:00	15.85
3436b	215.40	3400.00	11:51:00	15.78
3438b	210.20	3322.00	12:14:00	15.80
3440b	210.90	3326.00	13:00:00	15.77
3442b	210.60	3324.00	13:30:00	15.78
3444b	210.10	3334.00	14:24:00	15.87
3446b	210.70	3342.00	14:43:00	15.86
TOTAL:	3887.40	61354.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-12-01
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
3448b	211.90	3344.00	15:39:00	15.78
3450b	210.90	3318.00	16:10:00	15.73
3452b	212.50	3338.00	16:32:00	15.71
3454b	212.30	3364.00	16:59:00	15.85
3456b	212.80	3358.00	18:22:00	15.78
3458b	220.40	3492.00	18:59:00	15.84
3460b	222.60	3468.00	19:26:00	15.58
3462b	227.10	3556.00	19:52:00	15.66
3464b	222.70	3494.00	20:24:00	15.69
3466b	219.40	3452.00	20:50:00	15.73
3468b	221.60	3478.00	21:36:00	15.69
3470b	221.90	3508.00	22:10:00	15.81
3472b	227.00	3542.00	22:49:00	15.60
3474b	221.60	3488.00	23:17:00	15.74
3476b	228.20	3496.00	23:51:00	15.32
3478b	226.40	3532.00	12:17:00	15.60
3480b	227.80	3602.00	3:43:00	15.81
3482b	219.50	3446.00	4:10:00	15.70
TOTAL:	3966.60	62276.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-12-01
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3412t	828	832			3485.0			4.8	3387c	3388c	3412b
3414t	828	832			3509.0			4.8	3389c	3390c	3414b
3416t	858				3511.0			4.8	3391c	3392c	3416b
3418t	858				3530.0			4.8	3393c	3394c	3418b
3420t	866	870			3510.0			4.8	3395c	3396c	3420b
3422t	866	870			3508.0			4.8	3397c	3398c	3422b
3424t	870				3519.0			4.8	3399c	3400c	3424b
3426t	870				3507.0			4.8	3401c	3402c	3426b
3428t	878	895			3508.0			4.8	3403c	3404c	3428b
3430t	878	895			3507.0			4.8	3405c	3406c	3430b
3432t	895	812			3528.0			4.8	3407c	3408c	3432b
3434t	895	812			3508.0			4.8	3409c	3410c	3434b
3436t	812	808			3519.0			4.8	3411c	3412c	3436b
3438t	812	808			3505.0			4.8	3413c	3414c	3438b
3440t	914	910			3510.0			4.8	3415c	3416c	3440b
3442t	914	910			3518.0			4.8	3417c	3418c	3442b
3444t	906	910	922		3519.0			4.8	3419c	3420c	3444b
3446t	906	910	922		3503.0			4.8	3421c	3422c	3446b

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-12-01
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3448t	926	922			3508.0			4.8	3423c	3424c	3448b
3450t	926	922			3507.0			4.8	3425c	3426c	3450b
3452t	852				3505.0			4.8	3427c	3428c	3452b
3454t	852				3505.0			4.8	3429c	3430c	3454b
3456t	852	842	844		3809.0			4.8	3431c	3432c	3456b
3458t	852	842	844		3496.0			4.8	3433c	3434c	3458b
3460t	844	840			3523.0			4.8	3435c	3436c	3460b
3462t	844	840			3512.0			4.8	3437c	3438c	3462b
3464t	840				3506.0			4.8	3439c	3440c	3464b
3466t	840				3519.0			4.8	3441c	3442c	3466b
3468t	804				3520.0			4.8	3443c	3444c	3468b
3470t	804				3515.0			4.8	3445c	3446c	3470b
3472t	TOP UP ONLY				3514.0			4.8	3447c	3448c	3472b
3474t					3505.0			4.8	3449c	3450c	3474b
3476t	792	680	678b		3501.0			4.8	3451c	3452c	3476b
3478t	792	680	678b		3516.0			4.8	3453c	3454c	3478b
3480t	680	678b			3502.0			4.8	3455c	3456c	3480b
3482t	680	678b			3492.0			4.8	3457c	3458c	3482b

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-12-01
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
						TOTAL:					

NOTES

TOP UPS

Tanks:		Piles:
3412t	3414t	668b, 676, 816, 820, 824
3416t	3418t	852
3424t	3426t	824, 820, 801, 858, 725, 929, 943, 951, 955, 959, 836, 832, 963, 875, 858, 850, 846, 842, 828
3452t	3456t	808, 812, 828, 832, 895, 910, 914, 922, 926, 668b
3464t	3466t	926, 922, 895, 878, 870, 866, 852, 808, 910, 914, 844, 848, 832, 828, 816, 812, 906
3472t	3474t	878, 812, 852, 848, 844, 804, 866, 668b, 676, 906, 914, 922, 926

HFDI Production Control

Project Number	1814	**Date**	2018-12-01
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	21	182.00	138.18	198.58	43.71%

Daily pile Completion:	2.15%	**Daily Cement used in KG**	69140.00
Piles Poured to Date:	929	**Total Cement used to date KG**	3082067.10
Daily L/M of Drilling:	156.59	**Daily Bentonite used in KG**	7854.00
		Total Bentonite used in KG	475012.21
		Daily Water consumption	173502.00
		Total Water Consumption	8412144.26

HFDI Representative: De Wet Neethling (Name) — (Signature)

KCG Representative: Frederic Tremblay, P. Eng. (Name) — (Signature)

2018-12-02 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Don Henry Night Supervisor: Brad Depagie Project Coordinator: De Wet Neethling	Date: 2018-12-02	Shift: 24hr
		Site Conditions: -30. Starting to snow at night.	

FOREMAN'S SAFETY/ QUALITY MEETING

Drill Piles - Open Holes, Swing Radius, Debris- Hole Covers, Proper PPE, Use Spotters
Winter Work - Frostbite - Warm up
Mix Grout - Grout Exposure, Mixture Failure - Use Proper PPE, Stay Alert

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Produced grout, poured piles, drilled piles, drilled sockets

DELAYS: Grout plant generator went down during the night for 3 hours

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-12-02
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0796		Day	10.00	8.20	8.70	9.20	9.10	1.00
0800		Day	10.00	8.20	8.70	9.10	8.90	1.00
0856	Day	Day	9.00	7.10	7.50	8.20	8.18	Bucket
0860	Night	Night	10.00	7.40	8.30	9.80	9.50	Bucket
0864	Night	Night	9.00	7.10	8.50	9.50	9.20	Bucket
0868	Night	Night	10.00	6.90	8.50	9.40	9.20	Bucket
0874	Day	Day	10.00	7.90	8.30	9.10	8.90	1.00
0904	Night	Night	8.00	6.80	7.50	8.85	8.10	Bucket
0908	Day	Night	8.00	6.70	7.50	7.90	7.70	Bucket
0912	Day	Night	8.00	6.80	7.30	8.30	7.90	Bucket
0916	Night	Night	8.00	6.50	7.30	7.90	7.70	Bucket
0920	Night	Night	8.00	6.40	6.90	7.70	7.50	Bucket
0924	Day	Day	8.00	6.40	7.10	7.71	7.40	1.00
0930	Day	Night	8.00	5.70	6.40	6.85	6.80	Bucket
0934	Day	Day	8.00	5.70	6.30	7.40	7.00	1.00
0938	Day	Day	7.00	5.50	5.80	6.80	6.80	Bucket
0942	Day	Night	6.00	5.50	5.80	7.10	6.80	Bucket
0946	Day	Day	5.00	5.30	5.60	6.42	6.30	1.00

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	**Date**	2018-12-02
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0946	Day	Day	5.00	5.30	5.60	6.42	6.30	1.00
0950	Day	Day	5.00	5.00	5.30	6.05	6.00	1.00
0954	Night	Night	5.00	4.80	5.00	6.00	5.90	2.00
0958	Night	Night	5.00	4.70	5.00	5.85	5.80	Bucket
0962	Day	Night	5.00	4.80	5.10	5.90	5.80	1.50
0966	Day	Night	5.00	5.20		6.40	6.30	1.50
					TOTAL	36.62		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	**Date**	2018-12-02
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
3459c	973.00	700.00	4:56:00	3460c	971.00	697.00	5:03:00	1944.00	1397.00	0.72
3461c	974.00	690.00	5:17:00	3462c	970.00	696.00	5:27:00	1944.00	1386.00	0.71
3463c	968.00	686.00	6:40:00	3464c	969.00	689.00	6:45:00	1937.00	1375.00	0.71
3465c	967.00	689.00	6:54:00	3466c	969.00	685.00	7:10:00	1936.00	1374.00	0.71
3467c	968.00	686.00	7:50:00	3468c	968.00	687.00	7:55:00	1936.00	1373.00	0.71
3469c	969.00	687.00	8:02:00	3470c	971.00	685.00	8:07:00	1940.00	1372.00	0.71
3471c	969.00	683.00	9:06:00	3472c	973.00	688.00	9:13:00	1942.00	1371.00	0.71
3473c	968.00	681.00	9:19:00	3474c	966.00	686.00	9:26:00	1934.00	1367.00	0.71
3475c	966.00	687.00	10:50:00	3476c	973.00	686.00	10:56:00	1939.00	1373.00	0.71
3477c	968.00	686.00	11:11:00	3478c	968.00	687.00	11:25:00	1936.00	1373.00	0.71
3479c	968.00	687.00	12:06:00	3480c	969.00	684.00	12:14:00	1937.00	1371.00	0.71
3481c	969.00	686.00	12:25:00	3482c	967.00	684.00	12:34:00	1936.00	1370.00	0.71
3483c	968.00	685.00	13:32:00	3484c	969.00	687.00	13:38:00	1937.00	1372.00	0.71
3485c	968.00	691.00	13:51:00	3486c	965.00	690.00	14:00:00	1933.00	1381.00	0.71
3487c	968.00	691.00	15:14:00	3488c	967.00	684.00	15:22:00	1935.00	1375.00	0.71
3489c	966.00	683.00	15:33:00	3490c	969.00	688.00	15:40:00	1935.00	1371.00	0.71
3491c	972.00	695.00	20:46:00	3492c	976.00	693.00	20:52:00	1948.00	1388.00	0.71
3493c	978.00	700.00	21:05:00	3494c	973.00	698.00	21:15:00	1951.00	1398.00	0.72
							TOTAL:	34900.00	24787.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	**Date**	2018-12-02
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
3495c	968.00	692.00	21:33:00	3496c	980.00	702.00	21:43:00	1948.00	1394.00	0.72
3497c	964.00	700.00	22:08:00	3498c	969.00	695.00	22:17:00	1933.00	1395.00	0.72
3499c	985.00	698.00	22:39:00	3500c	992.00	701.00	22:46:00	1977.00	1399.00	0.71
3501c	971.00	711.00	22:59:00	3502c	970.00	702.00	23:09:00	1941.00	1413.00	0.73
3503c	972.00	699.00	23:40:00	3504c	965.00	698.00	23:47:00	1937.00	1397.00	0.72
3505c	968.00	694.00	12:19:00	3506c	969.00	700.00	12:29:00	1937.00	1394.00	0.72
3507c	970.00	702.00	12:43:00	3508c	967.00	697.00	12:50:00	1937.00	1399.00	0.72
3509c	975.00	701.00	1:04:00	3510c	968.00	710.00	1:10:00	1943.00	1411.00	0.73
3511c	970.00	700.00	1:41:00	3512c	968.00	701.00	1:48:00	1938.00	1401.00	0.72
3513c	969.00	702.00	2:02:00	3514c	971.00	696.00	2:09:00	1940.00	1398.00	0.72
3515c	970.00	698.00	2:41:00	3516c	965.00	702.00	2:48:00	1935.00	1400.00	0.72
3517c	972.00	700.00	3:20:00	3518c	965.00	702.00	3:26:00	1937.00	1402.00	0.72
3519c	968.00	699.00	3:45:00	3520c	972.00	696.00	3:54:00	1940.00	1395.00	0.72
3521c	976.00	689.00	4:07:00	3522c	975.00	700.00	4:13:00	1951.00	1389.00	0.71
							TOTAL:	27194.00	19587.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-12-02
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
3484b	220.00	3476.00	4:58:00	15.80
3486b	223.60	3558.00	5:22:00	15.91
3488b	221.00	3486.00	6:42:00	15.77
3490b	217.70	3406.00	7:12:00	15.65
3492b	219.60	3462.00	7:52:00	15.77
3494b	217.30	3438.00	8:11:00	15.82
3496b	206.60	3274.00	9:08:00	15.85
3498b	210.30	3334.00	9:28:00	15.85
3500b	219.70	3486.00	10:53:00	15.87
3502b	222.50	3570.00	11:23:00	16.04
3504b	214.60	3382.00	12:09:00	15.76
3506b	217.20	3440.00	12:30:00	15.84
3508b	215.50	3380.00	13:34:00	15.68
3510b	212.00	3352.00	14:16:00	15.81
3512b	216.90	3430.00	15:18:00	15.81
3514b	211.00	3340.00	15:40:00	15.83
3516b	217.90	3432.00	20:36:00	15.75
3518b	222.90	3470.00	21:10:00	15.57
TOTAL:	3906.30	61716.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	Date	2018-12-02
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
3520b	223.90	3538.00	21:36:00	15.80
3522b	220.60	3488.00	20:11:00	15.81
3524b	219.60	3468.00	#REF!	15.79
3526b	220.10	3490.00	20:41:00	15.86
3528b	220.00	3498.00	23:04:00	15.90
3530b	222.80	3520.00	23:42:00	15.80
3532b	217.80	3416.00	12:21:00	15.68
3534b	224.60	3526.00	12:45:00	15.70
3536b	222.20	3498.00	1:06:00	15.74
3538b	215.50	3404.00	1:43:00	15.80
3540b	216.80	3452.00	2:04:00	15.92
3542b	223.40	3498.00	2:43:00	15.66
3544b	221.60	3458.00	3:22:00	15.60
3546b	222.10	3488.00	3:47:00	15.70
TOTAL:	3091.00	48742.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-12-02
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3484t	918	902			3523.0			4.8	3459c	3460c	3484b
3486t	918	902			3497.0			4.8	3461c	3462c	3486b
3488t	898	890	902		3573.5			4.8	3463c	3464c	3488b
3490t	898	890	902		3493.4			4.8	3465c	3466c	3490b
3492t	890	800			3549.0			4.8	3467c	3468c	3492b
3494t	890	800			3523.6			4.8	3469c	3470c	3494b
3496t	800	796			3355.1			4.8	3471c	3472c	3496b
3498t	800	796			3416.5			4.8	3473c	3474c	3498b
3500t	796	856			3572.1			4.8	3475c	3476c	3500b
3502t	796	856			3655.4			4.8	3477c	3478c	3502b
3504t	856	874			3467.1			4.8	3479c	3480c	3504b
3506t	856	874			3525.4			4.8	3481c	3482c	3506b
3508t	924				3466.1			4.8	3483c	3484c	3508b
3510t	924				3435.6			4.8	3485c	3486c	3510b
3512t	946	934	950		3515.5			4.8	3487c	3488c	3512b
3514t	946	934	950		3423.0			4.8	3489c	3490c	3514b
3516t	934				3518.5			4.8	3491c	3492c	3516b
3518t	934				3560.2			4.8	3493c	3494c	3518b

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-12-02
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3520t	930	938			3626.3			4.8	3495c	3496c	3520b
3522t	930	938			3574.9			4.8	3497c	3498c	3522b
3524t	938	912			3554.7			4.8	3499c	3500c	3524b
3526t	938	912			3576.3			4.8	3501c	3502c	3526b
3528t	912	908			3583.9			4.8	3503c	3504c	3528b
3530t	912	908			3607.9			4.8	3505c	3506c	3530b
3532t	868	864			3503.1			4.8	3507c	3508c	3532b
3534t	868	864			3615.6			4.8	3509c	3510c	3534b
3536t	860				3586.3			4.8	3511c	3512c	3536b
3538t	860				3489.1			4.8	3513c	3514c	3538b
3540t	860	904			3536.4			4.8	3515c	3516c	3540b
3542t	860	904			3587.6			4.8	3517c	3518c	3542b
3544t	904	916			3547.4			4.8	3519c	3520c	3544b
3546t	904	916			3576.6			4.8	3521c	3522c	3546b

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-12-02
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
						TOTAL:					

NOTES

TOP UPS

Tanks:		Piles:
3492t	3494t	852, 848, 844, 840, 804, 840, 792, 895
3508t	3510t	918, 902, 898, 874, 856, 800, 796, 890
3516t	3418t	874, 890, 898, 918, 924, 946, 950, 914, 856, 800, 796, 680, 678b
3528t	3530t	874, 898, 856
3536t	3538t	938, 942, 946, 950
3540t	3542t	868, 872, 876, 864, 860, 912, 908

HFDI Production Control

Project Number	1814	**Date**	2018-12-02
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	21	171.08	123.34	171.48	39.03%

Daily pile Completion:	2.15%	**Daily Cement used in KG**	60143.00
Piles Poured to Date:	950	**Total Cement used to date KG**	3142783.10
Daily L/M of Drilling:	161.03	**Daily Bentonite used in KG**	6775.20
		Total Bentonite used in KG	481787.41
		Daily Water consumption	149955.00
		Total Water Consumption	8562099.26

HFDI Representative: De Wet Neethling (Name) _____ (Signature)

2018-12-03 (Date)

KCG Representative: _____ (Name) _____ (Signature)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Don Henry Night Supervisor: Brad Depagie Project Coordinator: De Wet Neethling	Date: 2018-12-03	Shift: 24hr
		Site Conditions: -32. Very windy and visibility low	

FOREMAN'S SAFETY/ QUALITY MEETING

Drill Piles - Open Holes, Swing Radius, Debris- Hole Covers, Proper PPE, Use Spotters
Winter Work - Frostbite - Warm up
Mix Grout - Grout Exposure, Mixture Failure - Use Proper PPE, Stay Alert

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Produced grout, poured piles, drilled piles, drilled sockets

DELAYS: We were shut down for 1.5 hours due to inclement weather.

HFDI Production Control - Drill Logs

Project Number	1814	Date	2018-12-03
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0862	Day	Night	10.00	8.40	9.20	9.50	9.40	1.00
0872	Day	Day	8.00	7.00	7.40	9.37	9.10	2.00
0876	Day	Day	8.00	6.90	7.30	9.20	9.00	1.00
0880	Day	Night	8.00	7.00	7.40	9.50	9.10	Bucket
0884	Day	Day	8.00	7.20	7.60	9.30	9.30	1.00
0888	Day	Night	10.00	7.10	8.20	9.40	9.20	Bucket
0892	Night	Night	10.00	7.10	8.50	9.30	9.20	Bucket
0894	Day	Day	9.00	7.00	7.60	9.60	9.10	2.00
0900	Day	Day	10.00	6.90	8.00	10.10	9.70	1.50
0928	Day	Night	8.00	6.50	6.80	8.40	7.70	Bucket
0932	Day	Night	7.00	5.70	6.20	7.10	6.80	Bucket
0936	Day	Night	7.00	5.80	6.70	7.25	7.10	Bucket
0940	Day	Night	6.00	5.60	6.00	7.15	6.80	Bucket
0944	Night	Night	7.00	5.50	6.50	7.30	6.80	Bucket
0948	Day	Night	6.00	5.10	5.80	6.30	6.50	Bucket
0952	Night	Night	6.00	4.80	5.80	6.50	6.00	Bucket
0954		Night	5.00	4.80	5.00	6.30	5.90	2.00
0956	Night		7.00	4.70	5.80			

NOTES

HFDI Production Control - Drill Logs

Project Number	1814	**Date**	2018-12-03
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0960	Night	Night	6.00	4.70	5.60	6.25	5.90	Bucket
					TOTAL	6.25		

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	**Date**	2018-12-03
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
3523c	969.00	699.00	5:04:00	3524c	976.00	697.00	5:12:00	1945.00	1396.00	0.72
3525c	972.00	699.00	5:25:00	3526c	968.00	705.00	5:32:00	1940.00	1404.00	0.72
3527c	965.00	687.00	6:23:00	3528c	966.00	689.00	6:29:00	1931.00	1376.00	0.71
3529c	964.00	691.00	6:42:00	3530c	964.00	691.00	6:51:00	1928.00	1382.00	0.72
3531c	965.00	692.00	9:40:00	3532c	966.00	686.00	9:46:00	1931.00	1378.00	0.71
3533c	969.00	689.00	9:53:00	3534c	968.00	683.00	9:59:00	1937.00	1372.00	0.71
3535c	968.00	684.00	10:32:00	3536c	968.00	689.00	10:39:00	1936.00	1373.00	0.71
3537c	967.00	689.00	10:46:00	3538c	969.00	691.00	10:52:00	1936.00	1380.00	0.71
3539c	968.00	688.00	11:24:00	3540c	969.00	685.00	11:30:00	1937.00	1373.00	0.71
3541c	968.00	686.00	11:34:00	3542c	967.00	690.00	11:40:00	1935.00	1376.00	0.71
3543c	968.00	691.00	12:40:00	3544c	979.00	685.00	12:54:00	1947.00	1376.00	0.71
3545c	966.00	686.00	13:03:00	3546c	968.00	686.00	13:10:00	1934.00	1372.00	0.71
3547c	968.00	689.00	17:07:00	3548c	967.00	687.00	17:25:00	1935.00	1376.00	0.71
3549c	970.00	686.00	17:30:00	3550c	966.00	686.00	17:35:00	1936.00	1372.00	0.71
3551c	965.00	688.00	19:59:00	3552c	964.00	694.00	20:05:00	1929.00	1382.00	0.72
3553c	976.00	687.00	20:19:00	3554c	965.00	692.00	20:24:00	1941.00	1379.00	0.71
3555c	970.00	690.00	20:42:00	3556c	966.00	689.00	20:49:00	1936.00	1379.00	0.71
3557c	961.00	698.00	21:05:00	3558c	969.00	691.00	21:12:00	1930.00	1389.00	0.72
							TOTAL:	34844.00	24835.00	

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-12-03
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
3559c	971.00	695.00	21:44:00	3560c	965.00	688.00	21:50:00	1936.00	1383.00	0.71
3561c	964.00	702.00	22:17:00	3562c	971.00	693.00	22:23:00	1935.00	1395.00	0.72
3563c	965.00	702.00	23:27:00	3564c	964.00	700.00	23:38:00	1929.00	1402.00	0.73
3565c	962.00	705.00	23:56:00	3566c	975.00	690.00	12:04:00	1937.00	1395.00	0.72
3567c	964.00	695.00	1:06:00	3568c	961.00	698.00	1:11:00	1925.00	1393.00	0.72
3569c	963.00	695.00	1:24:00	3570c	962.00	691.00	1:33:00	1925.00	1386.00	0.72
3571c	966.00	705.00	2:27:00	3572c	968.00	701.00	2:39:00	1934.00	1406.00	0.73
3573c	970.00	700.00	2:59:00	3574c	965.00	705.00	3:08:00	1935.00	1405.00	0.73
3575c	969.00	696.00	3:34:00	3576c	962.00	695.00	3:40:00	1931.00	1391.00	0.72
3577c	968.00	696.00	4:12:00	3578c	966.00	696.00	4:20:00	1934.00	1392.00	0.72
							TOTAL:	19321.00	13948.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-12-03
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
3548b	218.20	3432.00	4:09:00	15.73
3550b	221.00	3474.00	5:26:00	15.72
3552b	218.70	3476.00	6:25:00	15.89
3554b	215.10	3386.00	6:54:00	15.74
3556b	213.00	3368.00	9:42:00	15.81
3558b	208.80	3312.00	10:00:00	15.86
3560b	207.20	3280.00	10:35:00	15.83
3562b	210.80	3332.00	10:53:00	15.81
3564b	209.10	3318.00	11:25:00	15.87
3566b	205.00	3242.00	11:44:00	15.81
3568b	207.40	3296.00	12:50:00	15.89
3570b	212.80	3340.00	13:12:00	15.70
3572b	220.70	3447.00	17:10:00	15.62
3574b	211.90	3344.00	17:37:00	15.78
3576b	224.60	3532.00	19:08:00	15.73
3578b	218.20	3442.00	19:28:00	15.77
3580b	224.50	3504.00	20:46:00	15.61
3582b	221.20	3478.00	21:07:00	15.72
TOTAL:	3868.20	61003.00		

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-12-03
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
3584b	225.50	3502.00	21:47:00	15.53
3586b	216.00	3398.00	22:19:00	15.73
3588b	220.40	3464.00	23:21:00	15.72
3590b	225.60	3506.00	23:48:00	15.54
3592b	229.80	3560.00	1:00:00	15.49
3594b	220.20	3448.00	1:27:00	15.66
3596b	219.00	3474.00	2:30:00	15.86
3598b	219.70	3442.00	3:02:00	15.67
3600b	222.10	3430.00	3:37:00	15.44
3602b	220.00	3506.00	4:14:00	15.94
TOTAL:	2218.30	34730.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-12-03
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3548t	920	966	962		3518.8			4.8	3523c	3524c	3548b
3550t	920	966	962		3562.0			4.8	3525c	3526c	3550b
3552t	962				3505.0			4.8	3527c	3528c	3552b
3554t	962				3508.0			4.8	3529c	3530c	3554b
3556t	962	958	954		3507.0			4.8	3531c	3532c	3556b
3558t	962	958	954		3504.0			4.8	3533c	3534c	3558b
3560t	958	900			3502.0			4.8	3535c	3536c	3560b
3562t	958	900			3506.0			4.8	3537c	3538c	3562b
3564t	900	894	884		3501.0			4.8	3539c	3540c	3564b
3566t	900	894	884		3500.0			4.8	3541c	3542c	3566b
3568t	884				3509.0			4.8	3543c	3544c	3568b
3570t	884				3501.0			4.8	3545c	3546c	3570b
3572t	876				3506.0			4.8	3547c	3548c	3572b
3574t	876				3500.0			4.8	3549c	3550c	3574b
3576t	872	880			3496.0			4.8	3551c	3552c	3576b
3578t	872	880			3504.0			4.8	3553c	3554c	3578b
3580t	862				3516.0			4.8	3555c	3556c	3580b
3582t	862				3519.0			4.8	3557c	3558c	3582b

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-12-03
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3584t	888				3497.0			4.8	3559c	3560c	3584b
3586t	888				3527.0			4.8	3561c	3562c	3586b
3588t	888	940	936		3502.0			4.8	3563c	3564c	3588b
3590t	888	940	936		3511.0			4.8	3565c	3566c	3590b
3592t	936	932	928		3506.0			4.8	3567c	3568c	3592b
3594t	936	932	928		3515.0			4.8	3569c	3570c	3594b
3596t	928	944	948		3501.0			4.8	3571c	3572c	3596b
3598t	928	944	948		3497.0			4.8	3573c	3574c	3598b
3600t	948	952			3545.0			4.8	3575c	3576c	3600b
3602t	948	952			3513.0			4.8	3577c	3578c	3602b

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	Date	2018-12-03
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
						TOTAL:					

NOTES

TOP UPS

Tanks:		Piles:
3552t	3554t	904, 908, 912, 916, 924, 930, 934, 938, 942, 860, 864, 868
3568t	3570t	920, 954, 958, 962, 966
3572t	3574t	884
3580t	3582t	884, 894, 900, 920, 954, 958, 962, 876, 880, 872
3584t	3586t	876, 880, 872

HFDI Production Control

Project Number	1814	**Date**	2018-12-03
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	19	150.42	113.00	159.77	41.38%

Daily pile Completion:	1.95%	**Daily Cement used in KG**	56116.00
Piles Poured to Date:	969	**Total Cement used to date KG**	3198899.10
Daily L/M of Drilling:	146.22	**Daily Bentonite used in KG**	6308.60
		Total Bentonite used in KG	488096.01
		Daily Water consumption	139393.00
		Total Water Consumption	8701492.26

HFDI Representative: De Wet Neethling (Name) — (Signature)

KCG Representative: Frédéric Tremblay, P. Eng. (Name) — (Signature)

2018-12-04 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	**HFDI on-site Management** Superintendent: Don Henry Night Supervisor: Brad Depagie Project Coordinator: De Wet Neethling	Date: 2018-12-04 Site Conditions: -32. Windy and cold	Shift: 24hr

FOREMAN'S SAFETY/ QUALITY MEETING

Demobilization - Moving equipment and vehicles, pinch points - Only approved personnel to drive vehicles, Use Spotters
Winter Work - Frostbite - Warm up

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Produced grout, poured piles, drilled piles, drilled sockets

DELAYS:

HFDI Production Control - Drill Logs

Project Number	1814	**Date**	2018-12-04
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Pile Number	Auger: Shift	Rock Socket : Shift	Casing Length (m)	Rock Depth (m)	Casing Depth (m)	Final Length (m)	Target Length (m)	Number of Calyx Baskets
0882	Day	Day	8.00	7.00	7.50	9.50	9.38	Bucket
0886	Day		10.00	7.00	8.00	9.40	9.29	
0896	Day	Day	10.00	7.30	7.90	9.80	9.30	Bucket
0956		Day	7.00	4.70	5.80	6.47	6.00	Bucket
0964	Day	Day	5.00	4.70	5.00	6.20	5.88	Bucket

NOTES

HFDI Production Control - Cement Logs

Project Number	1814	Date	2018-12-04
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Batch 1 No.	Cement (kg)	Water (L)	Time	Batch 2 No.	Cement (kg)	Water (L)	Time	Total Cement (kg)	Total Water (L)	w/s
3579c	969.00	699.00	4:38:00	3580c	968.00	692.00	4:44:00	1937.00	1391.00	0.72
3581c	967.00	689.00	4:53:00	3582c	962.00	701.00	4:59:00	1929.00	1390.00	0.72
3583c	969.00	686.00	6:30:00	3584c	967.00	688.00	6:38:00	1936.00	1374.00	0.71
3585c	967.00	688.00	10:32:00	3586c	968.00	685.00	10:42:00	1935.00	1373.00	0.71
3587c	969.00	686.00	11:21:00	3588c	969.00	687.00	11:26:00	1938.00	1373.00	0.71
3589c	969.00	689.00	11:54:00	3590c	968.00	690.00	12:01:00	1937.00	1379.00	0.71
3591c	969.00	699.00	12:13:00	3592c	969.00	692.00	12:21:00	1938.00	1391.00	0.72
3593c	967.00	697.00	14:15:00	3594c	969.00	686.00	14:26:00	1936.00	1383.00	0.71
3595c	968.00	688.00	14:31:00	3596c	967.00	687.00	14:38:00	1935.00	1375.00	0.71
3597c	968.00	687.00	15:21:00	3598c	969.00	691.00	15:48:00	1937.00	1378.00	0.71
3599c	969.00	686.00	16:01:00	3600c	969.00	687.00	16:12:00	1938.00	1373.00	0.71
3601c	973.00	694.00	20:10:00	3602c	968.00	706.00	20:18:00	1941.00	1400.00	0.72
3603c	971.00	699.00	20:25:00	3604c	962.00	700.00	20:39:00	1933.00	1399.00	0.72
							TOTAL:	25170.00	17979.00	

NOTES

HFDI Production Control - Bentonite Logs

Project Number	1814	**Date**	2018-12-04
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Bentonite Number	Bentonite Weight (kg)	Water Volume (L)	Time to Agitation Tank	w/s
3604b	218.30	3480.00	4:34:00	15.94
3606b	219.70	3492.00	4:55:00	15.89
3608b	217.40	3440.00	6:38:00	15.82
3610b	213.20	3378.00	10:34:00	15.84
3612b	208.40	3260.00	11:30:00	15.64
3614b	209.60	3324.00	11:56:00	15.86
3616b	207.80	3288.00	12:27:00	15.82
3618b	205.30	3244.00	14:20:00	15.80
3620b	209.40	3308.00	14:40:00	15.80
3622b	208.70	3204.00	15:50:00	15.35
3624b	209.40	3268.00	16:14:00	15.61
3626b	251.00	3500.00	19:34:00	13.94
3628b	221.00	3521.00	20:27:00	15.93
TOTAL:	2799.20	43707.00		

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-12-04
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
3604t	892	956			3498.0			4.8	3579c	3580c	3604b
3606t	892	956			3523.0			4.8	3581c	3582c	3606b
3608t	956	960			3503.0			4.8	3583c	3584c	3608b
3610t	TOP UP ONLY				3502.0			4.8	3585c	3586c	3610b
3612t					3510.0			4.8	3587c	3588c	3612b
3614t	882				3509.0			4.8	3589c	3590c	3614b
3616t	882				3505.0			4.8	3591c	3592c	3616b
3618t	886	896			3500.0			4.8	3593c	3594c	3618b
3620t	886	896			3502.0			4.8	3595c	3596c	3620b
3622t	896	964			3500.0			4.8	3597c	3598c	3622b
3624t	896	964			3500.0			4.8	3599c	3600c	3624b
3626t	964				3565.0			4.8	3601c	3602c	3626b
3628t	964				3521.0			4.8	3603c	3604c	3628b

NOTES

HFDI Production Control - CB Slurry

Project Number	1814	**Date**	2018-12-04
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Agitation Tank Number	Pile Numbers				Bentonite Slurry Vol (L)	Cement Slurry Vol (L)	Agitation Tank Volume (L)	S01P Arbo (kg)	Cement Batch Numbers		Bentonite Batch Number
						TOTAL:					

NOTES

TOP UPS

Tanks: **Piles:**

HFDI Production Control

Project Number	1814	**Date**	2018-12-04
Project Name	Whale Tail Dike	**Reported by**	De Wet Neethling

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today	7	56.92	42.55	71.59	68.23%

Daily pile Completion:	0.72%	**Daily Cement used in KG**	25170.00
Piles Poured to Date:	978	**Total Cement used to date KG**	3224069.10
Daily L/M of Drilling:	36.67	**Daily Bentonite used in KG**	2899.20
		Total Bentonite used in KG	490995.21
		Daily Water consumption	61686.00
		Total Water Consumption	8763178.26

HFDI Representative: De Wet Neethling (Name) — (Signature)

KCG Representative: Frederic Tremblay, P. Eng. (Name) — (Signature)

2018-12-05 (Date)

Secant Piling Daily Report

Amaruq Project - Whale Tail Dike

Contract	HFDI on-site Management	Date: 2018-12-05	Shift: 24hr
Contractor: Henry Foundation Drilling Inc. Client: Kivalliq Contractors Group Ltd. Owner: Agnico Eagle Mines Ltd.	Superintendent: Don Henry Night Supervisor: Brad Depagie Project Coordinator: De Wet Neethling	Site Conditions: -33. Windy but calming down in the afternoon	

FOREMAN'S SAFETY/ QUALITY MEETING

Demobilization - Moving equipment and vehicles, pinch points - Only approved personnel to drive vehicles, Use Spotters
Winter Work - Frostbite - Warm up

INSTRUCTION GIVEN TO HFDI STAFF

Instructed by	Instructed to	Instruction

SUMMARY OF WORK

Started to demobilize. Moved rigs out off of the dyke. Started to pack equipment in to seacans

DELAYS:

HFDI Production Control

Project Number	1814	Date	2018-12-05
Project Name	Whale Tail Dike	Reported by	De Wet Neethling

Project Statistics

	Piles Poured	Lineal meters of pile poured	Theoretical pile volume	CB mix delivered to the dike	CB over consumption
Today					

Daily pile Completion:
Piles Poured to Date: 978
Daily L/M of Drilling:

Daily Cement used in KG	25170.00
Total Cement used to date KG	3224069.10
Daily Bentonite used in KG	2899.20
Total Bentonite used in KG	490995.21
Daily Water consumption	61686.00
Total Water Consumption	8763178.26

HFDI Representative: De Wet Neethling (Name) — (Signature)

KCG Representative: AUDREY BILODEAU (Name) — (Signature)

2018-12-06 (Date)

Appendix I-6

Grouting reports (casing drilling, bedrock drilling, grout injection and water pressure test reports)

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Jonathan Pilote

Drill #: TCG 5

Date: 28-11-F0

Day ☐
Night ☑

Station	Survey Depth	Casing total lenght (m)	Rock Depth (m)	Stick-up at level ground (m)	Comments (ex; empty, boulders, ice, sand,etc.)
7 P-216	7.9	8.99	8.3	0.30	
8 S-222	7.8	9.42	8.45	0.30	
9 P-228	7.4	9.42	8.22	0.30	
10 S-234	7.0	9.42	8.00	0.30	

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: DALE BURTON

Drill #: TC6-05 C-9925

Date: 28-11-2018

Day ☐

Night ☐

Station	Survey Depth	Casing total lenght (m)	Rock Depth (m)	Stick-up at level ground (m)	Comments (ex; empty, boulders, ice, sand,etc.)
1 P-180	6.7M	7.0	7.5 M	12" 300	
2 S-186	5.6 M	5.8	6.3 M	12" 300	
3 P-192	6.7 M	6.9	7.4 M	12" 300	
4 S-198	7.5M	7.7	8.2 M	12" 300	
5 P-204	8.2M	8.0	8.6 M	12" 300	
6 S-210	7.9M	7.9	8.4 M	12" 300	

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Jonathan Pilote

Drill #: Tag 5

Date: 29-11-18

Day ☐
Night ☑

Station	Survey Depth	Casing total lenght (m)	Rock Depth (m)	Stick-up at level ground (m)	Comments (ex; empty, boulders, ice, sand,etc.)
B-270 16	6.0	7.5	6.7	0.30	
P-264 15	6.7	8.1	7.3	0.30	
P-276 17	6.6	7.8	7.2	0.30	
S-282 18	6.7	7.9	7.2	0.30	
P-288 19	6.3	7.1	6.5	0.30	
S-294 20	6.3	7.6	6.8	0.30	

75

✓

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Dale Burton #96219

Drill #: TC-05 C-9925

Date: 29-11-2018

Day ☒

Night ☐

Station	Survey Depth	Casing total lenght (m)	Rock Depth (m)	Stick-up at level ground (m)	Comments (ex; empty, boulders, ice, sand,etc.)
P-240 11	6.5m	7.3 m	6.8m	12 inch 0.3m	"water coming after"
S-246 12	6.8	7.5	7.0m	0.3m	" "
P-252 13	6.8	7.6	7.1	0.3m	" "
S-258 14	6.7	7.5	6.9	0.3m	"water coming after"

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Dale Burton 96219

Drill #: TCH 05 C-9925

Date: 30-11-2018

Day [X]
Night [ ]

Station	Survey Depth	Casing total lenght (m)	Rock Depth (m)	Stick-up at level ground (m)	Comments (ex; empty, boulders, ice, sand,etc.)
P-0+300	6.1m	7m	6.4m	0.3m	"water coming after"
S-0+306	5.9m	6.7m	6.2m	0.3m	" "
P-0+312	6.1m	6.9m	6.3m	0.3m	" "
S-0+318	7.5m	8.3m	7.8m	0.3m	" "
P-0+324	8.5m	9.2m	8.7m	0.3m	" "
S-0+330	9.6m	10.4m	9.9	0.3m	"water coming after"
P-0+336	11.1	12m	11.5	0.3m	"water while Drilling"
S-0+342	10.8	11.7m	11.2	0.3m	"water while Drilling"

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Jonathan Pilote

Drill #: Tag 5

Date: 30-11-18

Day ☐

Night ☒

Station	Survey Depth	Casing total lenght (m)	Rock Depth (m)	Stick-up at level ground (m)	Comments (ex; empty, boulders, ice, sand,etc.)
P-0+348	11.8	12.3	11.8	0.30	
S-0+354	12.2	13.1	12.4	0.30	
P-0+360	14.2	15.4	14.5	0.30	
S-0+366	15.7	17	15.8	0.30	

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Dale Burton

Drill #: TC605 - C-9925

Date: 01-12-2018

Day [X]
Night [ ]

Station	Survey Depth	Casing total lenght (m)	Rock Depth (m)	Stick-up at level ground (m)	Comments (ex; empty, boulders, ice, sand,etc.)
372	10.9	11.8	11.3	0.3	" water while drilling "
378-B OH 378.3	10.6	11.4	10.9	0.3	" "
384	10.3	11.0	10.5	0.3	" water while drilling "
378					CASING BROKEN AND STUCKED DOWN THE HOLE

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Jonathan Blok

Drill #: @ tag 5

Date: 1-12-18

Day ☐

Night ☒

Station	Survey Depth	Casing total lenght (m)	Rock Depth (m)	Stick-up at level ground (m)	Comments (ex; empty, boulders, ice, sand,etc.)
390	9.699	10.422	10.0	0.30	
396	9.901	11.2	10.5	0.30	
402	9.742	11.684	10.9	0.30	
408	10.255	11.2	10.5	0.30	

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Dale Burton

Drill #: TC6 05 - C9925 C16-6901 Day ☒ Night ☐

Date: 02-12-2018

Station	Survey Depth	Casing total lenght (m)	Rock Depth (m)	Stick-up at level ground (m)	Comments (ex; empty, boulders, ice, sand,etc.)
414	9.3	10.2	9.6	0.3	"water while DRilling"
420	9.0	10.0	9.4	0.3	
426	8.9	10.0	9.4	0.3	
432	8.6	9.5	8.9	0.3	
438	8.3	9.3	8.7	0.3	
444	8.3	9.4	8.7	0.3	
450	8.2	9.1	8.4	0.3	

DRILLING PERFORMANCE REPORT

AGNICO EAGLE

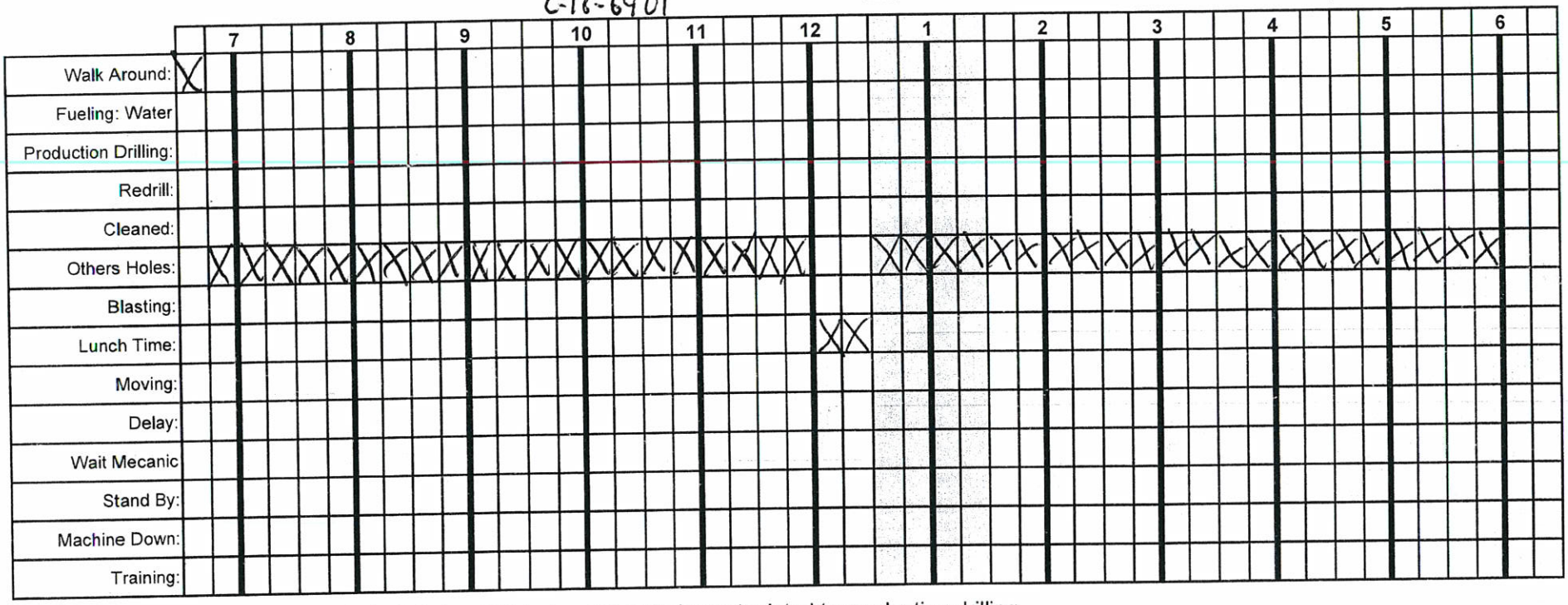
DRILL #: TC605 C-9925 C-16-6901

P. HENRY ☐ B.COTE ☐
R. BROUILLETTE ☐ G. LEMAY ☐
M.ROBERGE ☐ P.CARRIER ☐
M. OUELLET ☐ D. DANJOU ☐

EMPL#: Dale Burt #96219

DATE: 02-12-2018

SHIFT: ☒ N ☐



Others holes include G-holes, BM-holes and all holes not related to production drilling

Remarks: _____

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Jonathan Pilote

Drill #: Tag 5

Date: 2-12-18

Day ☐

Night ☒

Station	Survey Depth	Casing total lenght (feet)	~~Surface Cut (inches)~~ Rock Dept	Stick-up at level ground (inches)	Comments (ex; empty, boulders, ice, sand,etc.)
456	8.2	9.37	8.5	0.30	
462	8.1	9.01	8.5	0.30	
468	7.8	9.39	8.5	0.30	
474	7.5	8.43	8.0	0.30	
480	7.6	8.35	7.9	0.30	
486	7.5	9.4	8.8	0.30	
492	7.7	8.5	8.0	0.30	

DRILLING PERFORMANCE REPORT

AGNICO EAGLE

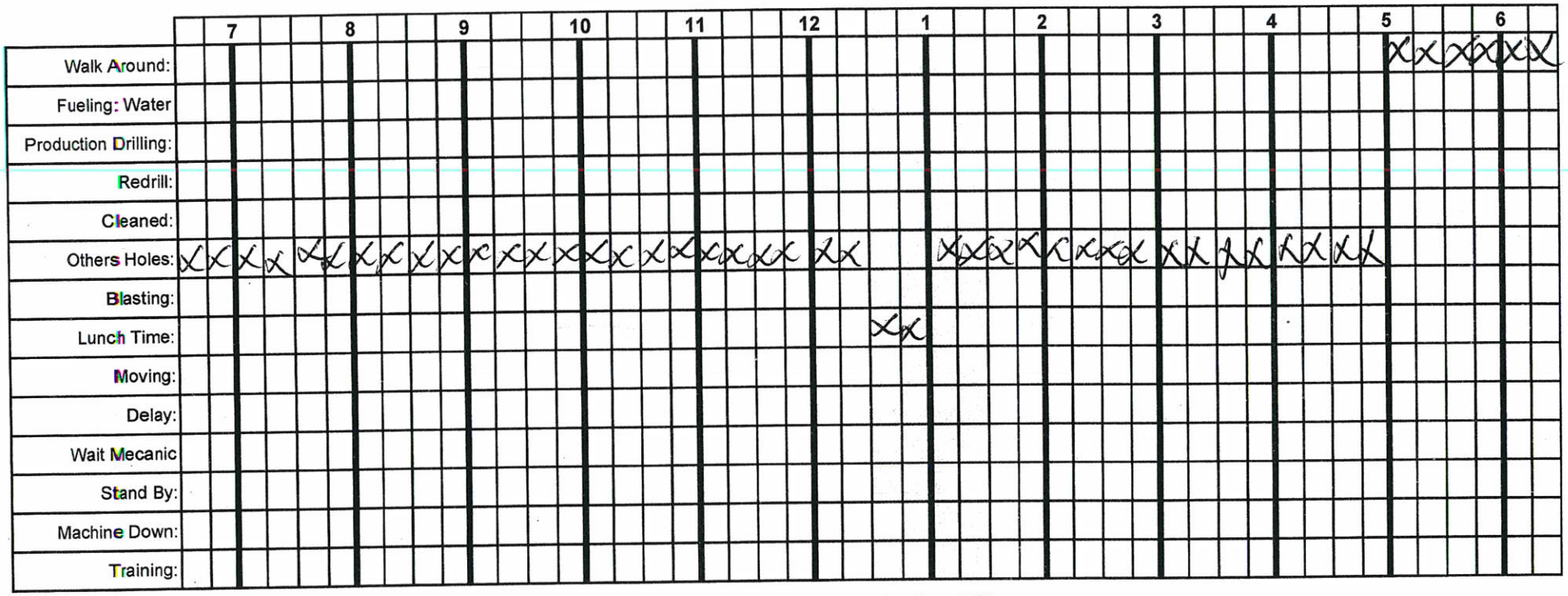
DRILL #: Tcg5 9925

P. HENRY	☐	M.HIPSAGH	☐
B.COTE	☐	J. LEMAY	☐
M.AUBIN	☐	E.ROULEAU	☐
M.OUELLET	☐	D. DANJOU	☐

EMPL#: 96306 Jonathan

DATE: 2-12-18

SHIFT: [D] [N]



Others holes include G-holes, BM-holes and all holes not related to production drilling

Remarks: _____

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Dale Burton #96219

Drill #: TG05 - C-992S

Date: 03-12-2018

Day [X]
Night [ ]

Station	Survey Depth	Casing total lenght (feet)	~~Surface Cutting~~ hit ROCK	Stick-up at level ground (inches)	Comments (ex; empty, boulders, ice, sand,etc.)
498	7.8m	8.8m	8.2m	0.3m	
504	7.6m	8.5m	7.9m	0.3m	
510	7.6m	8.6m	8.0m	0.3m	

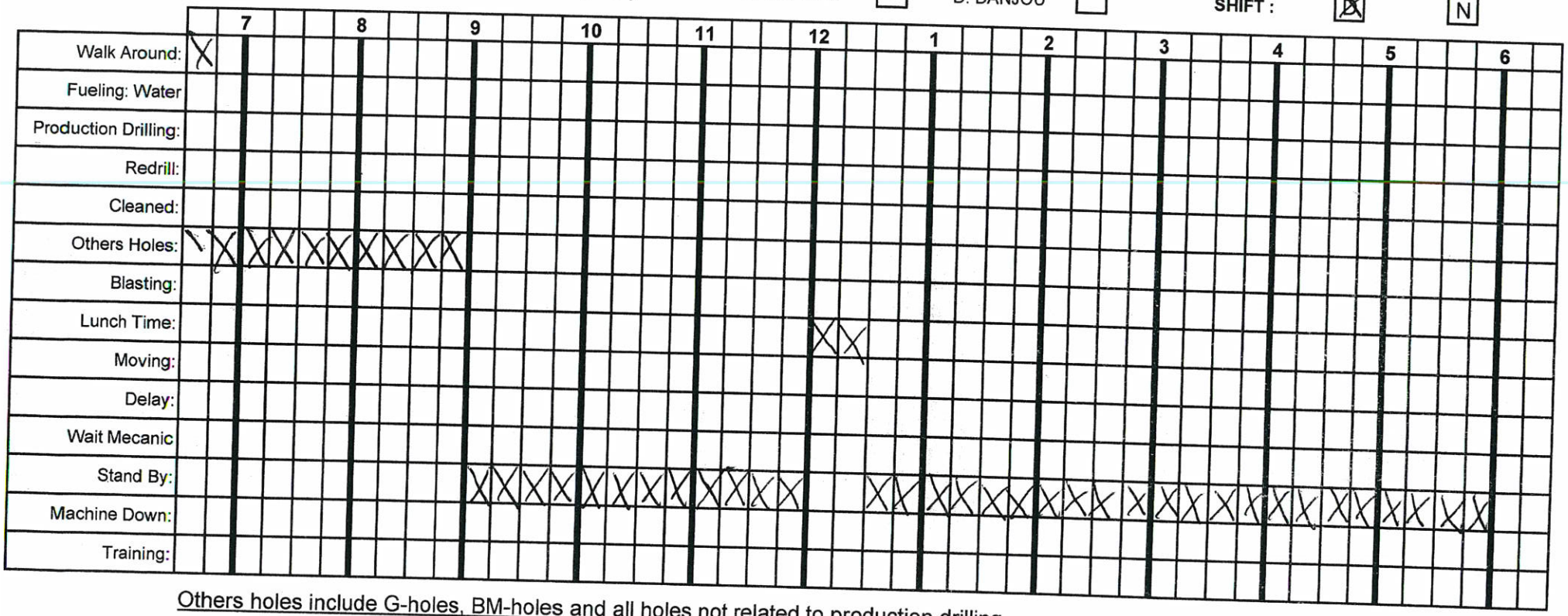
DRILLING PERFORMANCE REPORT

AGNICO EAGLE

DRILL #: T6605 / C-9925

P. HENRY ☐ M.HIPSAGH ☐
B.COTE ☐ J. LEMAY ☐
M.AUBIN ☐ J-F.BELAND ☐
M. OUELLET ☐ D. DANJOU ☐

EMPL# : Dale Burton #96219
DATE : 03-12-2018
SHIFT : [X] D [ ] N



Others holes include G-holes, BM-holes and all holes not related to production drilling

Remarks: _____

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Jonathan Pilote

Drill #: TC05

Date: 5-12-18

Day ☐ Night ☒

Station	Survey Depth	Casing total lenght (feet)	Surface Cut (inches)	Stick-up at level ground (inches)	Comments (ex; empty, boulders, ice, sand,etc.)
P-180	6.7	6.5	6.0	0.30	
S-186	5.6	6.6	6.1	0.30	
P-192	6.7	7.7	7.4	0.30	
S-198	7.5	7.7	7.4	0.30	
P-204	8.2	9.0	8.6	0.30	
S-210	7.8	8.9	8.6	0.30	

DRILLING PERFORMANCE REPORT

AGNICO EAGLE

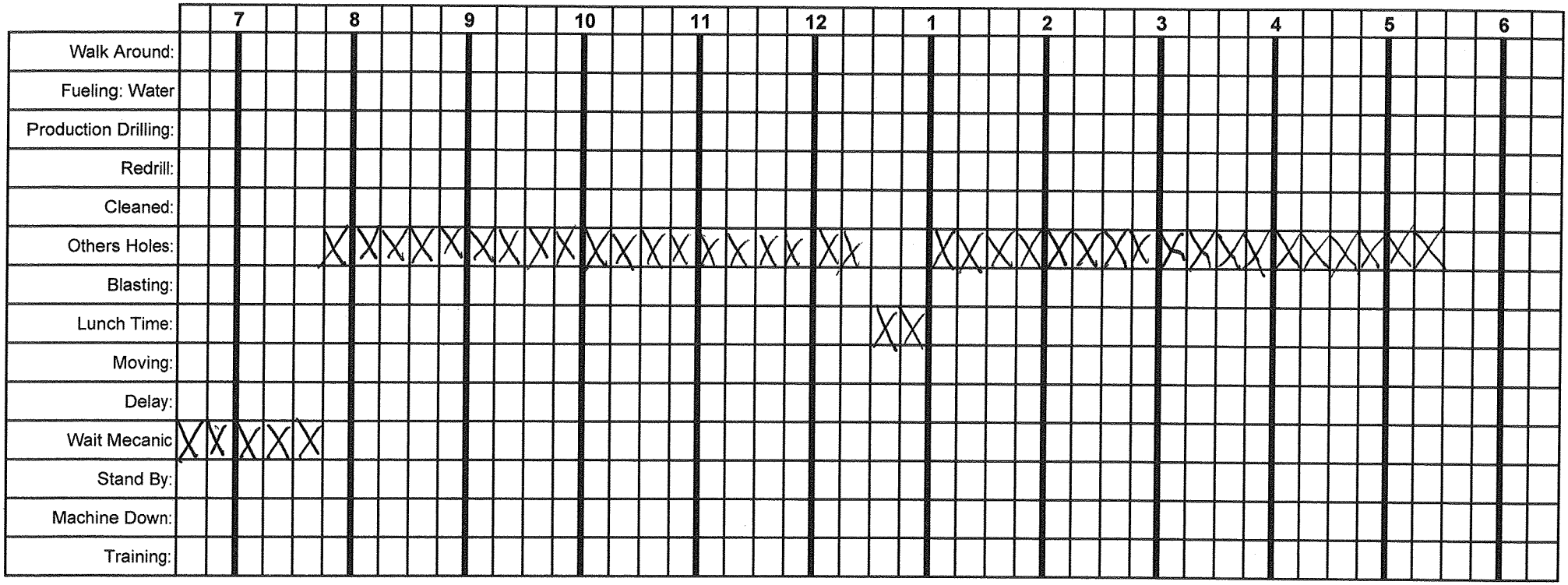
DRILL #: TC605 / G-9925

P. HENRY	☐	M.HIPSAGH	☐
B.COTE	☐	J. LEMAY	☐
M.AUBIN	☐	J-F.BELAND	☐
M. OUELLET	☐	D. DANJOU	☐

EMPL# : Dah Burt #96219

DATE : 02-01-2019

SHIFT : ☒ N ☐



Others holes include G-holes, BM-holes and all holes not related to production drilling

Remarks: Mecanic : Need to fix the welding machine

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Dale Burton #96219

Drill #: TG 05 - C-9925

Date: 02-01-2019

Day [X]
Night [ ]

Station	Survey Depth	Casing total lenght (m)	Rock Depth (m)	Stick-up at level ground (m)	Comments (ex; empty, boulders, ice, sand,etc.)
516	8.1	8.7	[redacted] 8.0	0.3	
501	7.8	8.9	8.0	0.2	
495	7.7	8.8	7.9	0.2	
465	7.8	8.5	7.9	0.2	
459	8.2	8.7	8.2	0.2	

DRILLING PERFORMANCE REPORT

AGNICO EAGLE

DRILL #: T6605 / a9925

P. HENRY	☐	B.COTE	☐
R. BROUILLETTE	☐	G. LEMAY	☐
M.ROBERGE	☐	P.CARRIER	☐
M. OUELLET	☐	D. DANJOU	☐

EMPL# Nathan Bartlett #98219

DATE : 03-01-2019

SHIFT : ☒ D ☐ N

	7					8					9					10					11					12					1					2					3					4					5					6				
Walk Around:						X																																																			
Fueling: Water																																																							
Production Drilling:																																																							
Redrill:																																																							
Cleaned:																																																							
Others Holes:									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Blasting:																																																							
Lunch Time:																														X	X																									
Moving:																																																							
Delay:																																																							
Wait Mecanic																																																							
Stand By:	X	X	X	X	X	X																																																
Machine Down:																																																							
Training:																																																							

Others holes include G-holes, BM-holes and all holes not related to production drilling

Remarks: Stand By: Blizzard

423 B.B

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Dale Burton #98219

Drill #: TG05-C-9925

Date: 03-01-2019

Day ☒

Night ☐

Station	Survey Depth	Casing total lenght (m)	Rock Depth (m)	Stick-up at level ground (m)	Comments (ex; empty, boulders, ice, sand,etc.)
453	8.0	9.0	8.3	0.2	
447	8.2	8.7	8.1	0.2	
441	8.2	8.9	8.3	0.2	
435	8.4	8.9	8.4	0.2	
429	8.7	9.3	8.8	0.2	
423	8.8	9.4	8.8	0.2	

DRILLING PERFORMANCE REPORT

AGNICO EAGLE

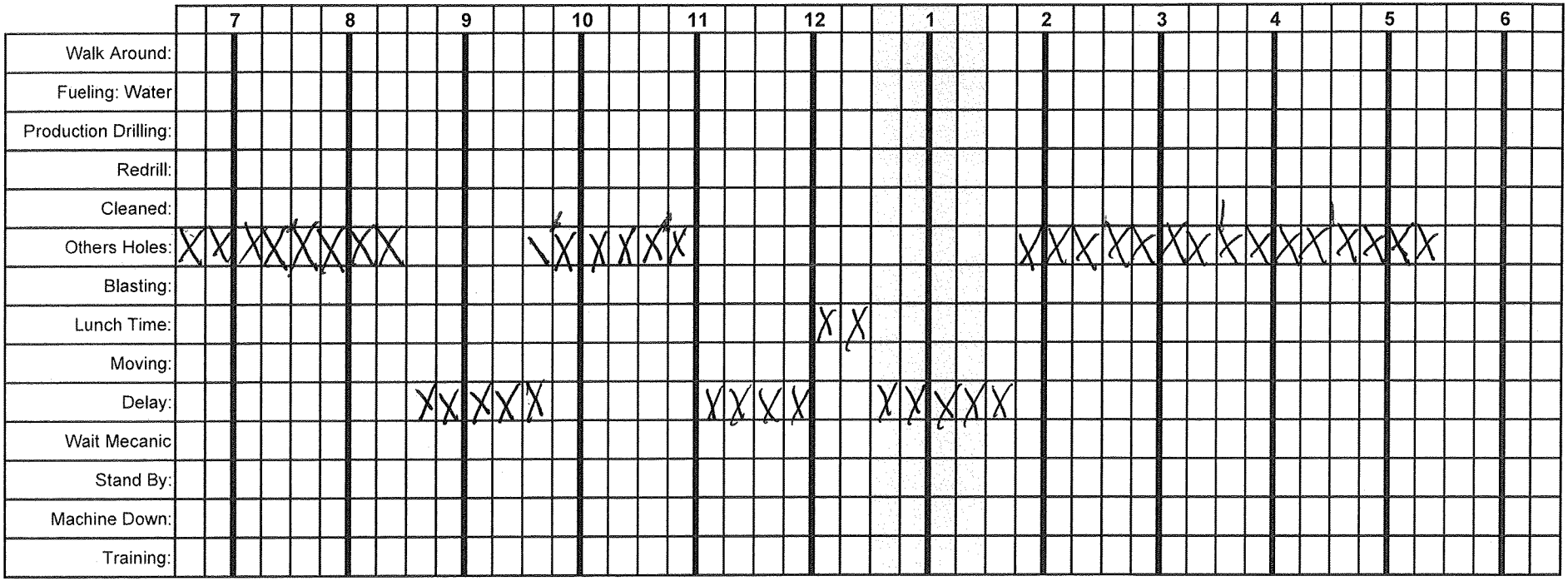
DRILL #: TC605 (1-9925)

P. HENRY	☐	B.COTE	☐
R. BROUILLETTE	☐	G. LEMAY	☐
M.ROBERGE	☐	P.CARRIER	☐
M. OUELLET	☐	D. DANJOU	☐

EMPL# : Dale Bull #9621

DATE : 04-01-2019

SHIFT : ☒ D ☐ N



Others holes include G-holes, BM-holes and all holes not related to production drilling

Remarks: _____

9
24
316

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Dale Burton #96211

Drill #: TG 05 -C-9925

Date: 04-01-2019

Day [X]
Night [ ]

Station	Survey Depth	Casing total lenght (m)	Rock Depth (m)	Stick-up at level ground (m)	Comments (ex; empty, boulders, ice, sand,etc.)
417	8.9	9.4	8.9	0.2	
411	9.1	9.6	9.2	0.1	
405	10.9	11.9	11.5	0.1	
399	9.8	10.2	9.7	0.2	
		41.1 m			

DRILLING PERFORMANCE REPORT

AGNICO EAGLE

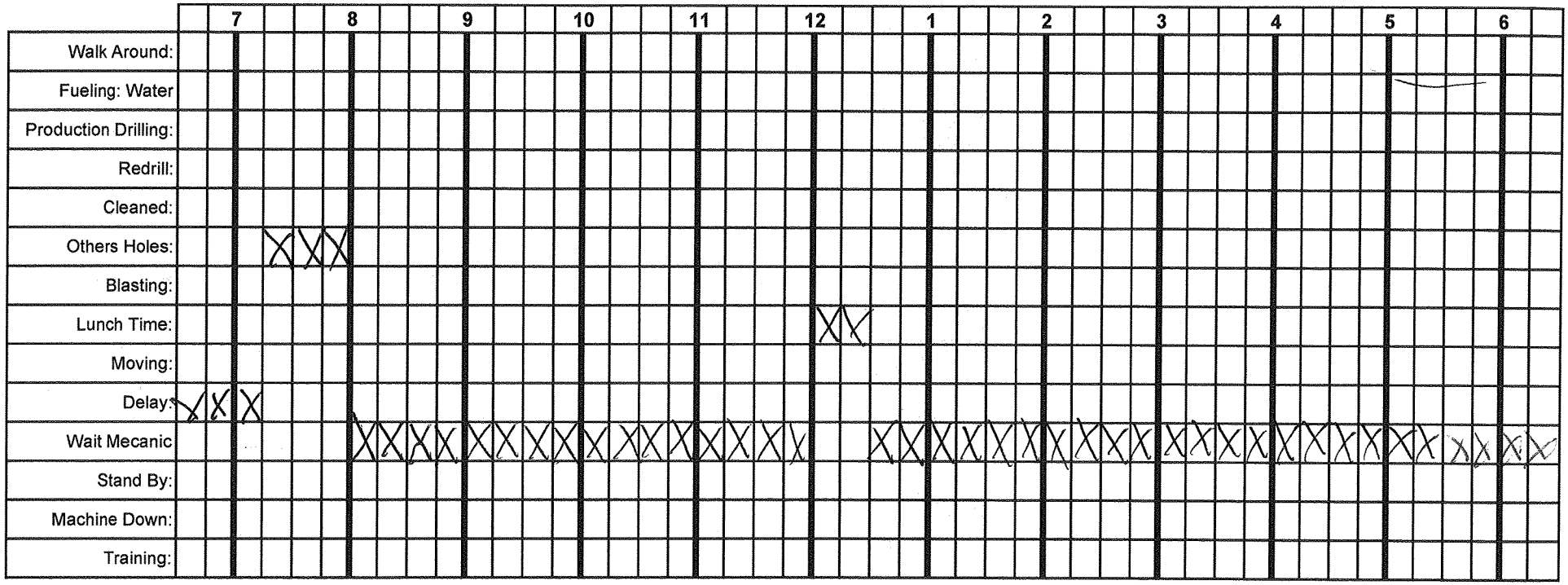
DRILL #: TC65

P. HENRY	☐	M.HIPSAGH	☐
B.COTE	☐	J. LEMAY	☐
M.AUBIN	☐	E.ROULEAU	☐
M.OUELLET	☐	D. DANJOU	☐

EMPL# : 96172 Daniel Bernard

DATE : jan 5th 2019

SHIFT : ☒ D ☐ N



Others holes include G-holes, BM-holes and all holes not related to production drilling

Remarks: Mecanic : hydrolique problems with the drill "feed stoped working"

DRILLING PERFORMANCE REPORT

AGNICO EAGLE

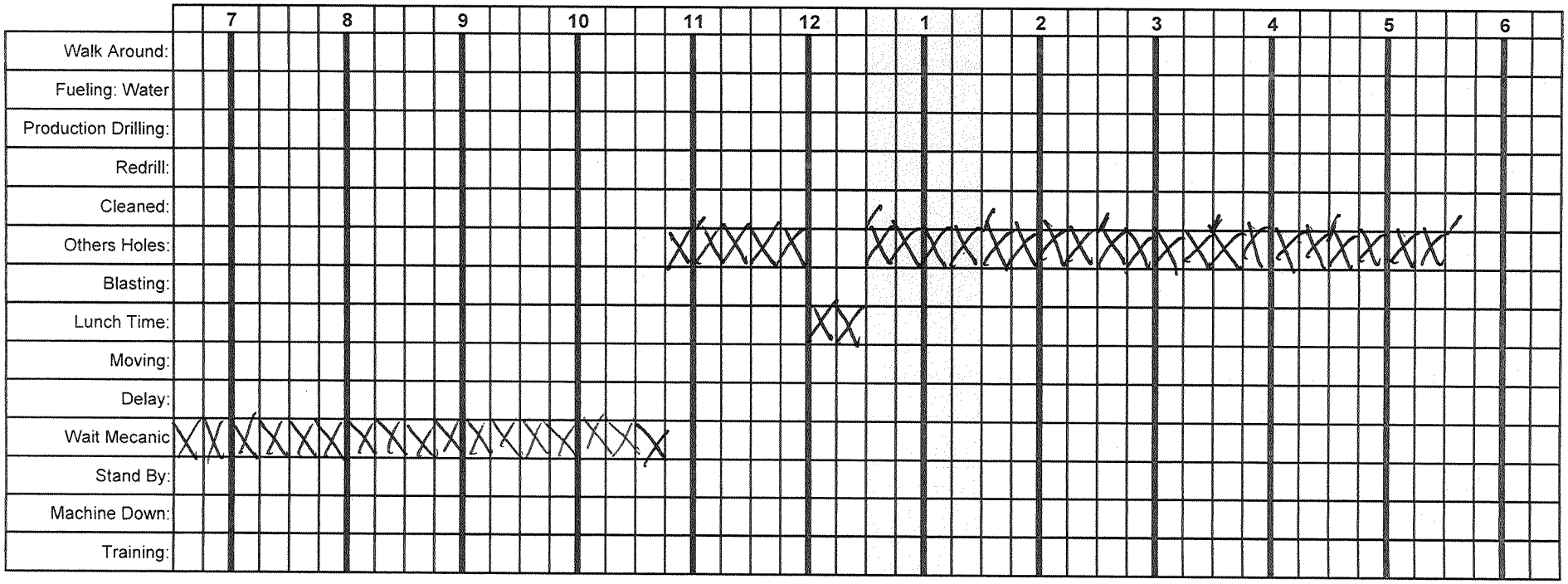
DRILL #: TC605 / C-9925

P. HENRY	☐	B.COTE	☐
R. BROUILLETTE	☐	G. LEMAY	☐
M.ROBERGE	☐	P.CARRIER	☐
M. OUELLET	☐	D. DANJOU	☐

EMPL# : Dale Burt #9621

DATE : 06-01-2019

SHIFT : ☒ D ☐ N



Others holes include G-holes, BM-holes and all holes not related to production drilling

Remarks: Mecanic : Fix the feed problem

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Dale Burton #96219

Drill #: TCA05 - C-9925

Date: 06-01-2019

Day [X]
Night [ ]

Station	Survey Depth	Casing total lenght (m)	Rock Depth (m)	Stick-up at level ground (m)	Comments (ex; empty, boulders, ice, sand,etc.)
393	[redacted]9.9	10.5	10	0.2	
387	11	11.1	10.7	0.2	Rock encountered higher that the indicate cut. 11
381	10.6	10.2	9.7	0.2	"
375	10.8	11.0	10.5	0.2	
		42.8 meters			

DRILLING PERFORMANCE REPORT

AGNICO EAGLE

96964

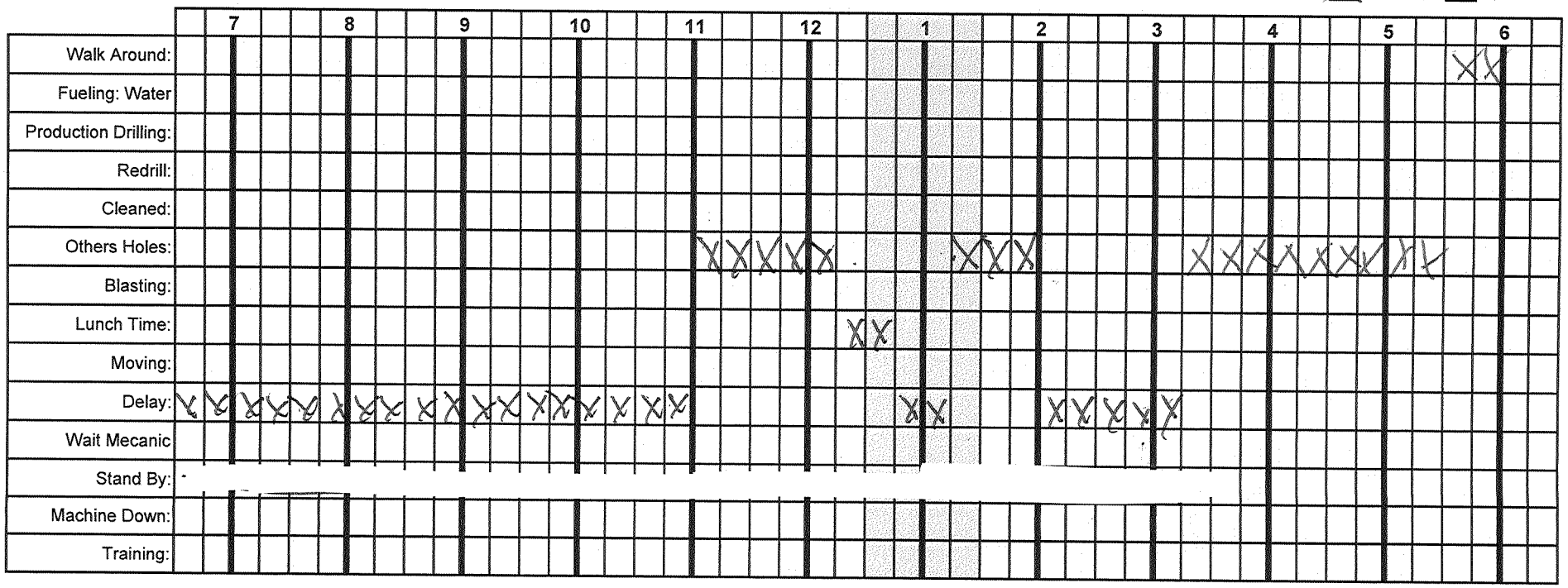
DRILL #: TC-05

P. HENRY	☐	M.HIPSAGH	☐
B.COTE	☐	J. LEMAY	☐
M.AUBIN	☐	J-F.BELAND	☐
M. OUELLET	☐	D. DANJOU	☐

EMPL# : Jean-Baptiste Bouchard

DATE : 7 - 1 - 19

SHIFT : ☒ D ☐ N



Others holes include G-holes, BM-holes and all holes not related to production drilling

Remarks: No operator

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Jean-Baptiste Bouchard

Drill #: TG 5

Date: jan 7th 2019

Day [X]
Night [ ]

Station	Survey Depth	Casing total lenght (m)	Rock Depth (m)	Stick-up at level ground (m)	Comments (ex; empty, boulders, ice, sand,etc.)
369	16.9	14	13.5	0,2	we hit the bed rock before 16.9 m,
357	12.2	12.7	12.2	0.2	we will keep a eye during the water drilling

DRILLING PERFORMANCE REPORT

AGNICO EAGLE

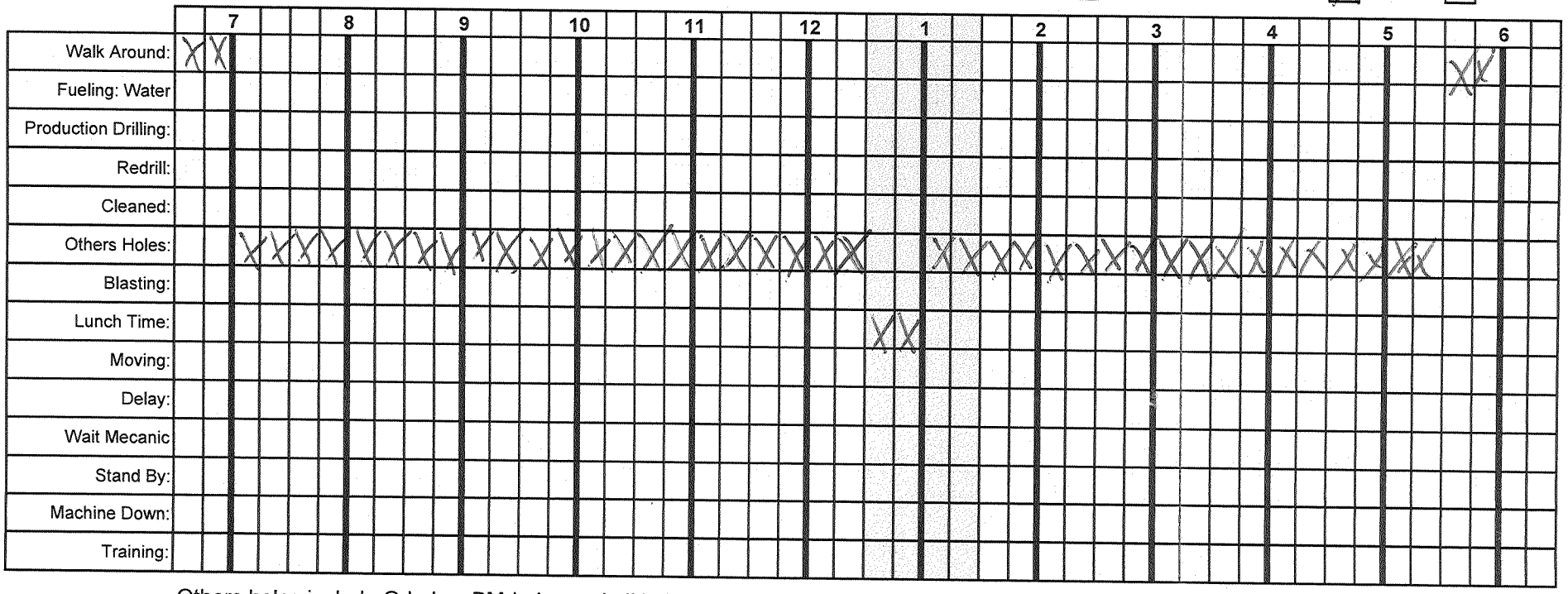
DRILL #: TCG05 C211

P. HENRY	☐	M.Hipsagh	☐
B.COTE	☐	J. LEMAY	☐
M.ROBERGE	☐		☐
M. OUELLET	☐	D. DANJOU	☐

EMPL# : ~~Jean Baptiste~~ Bouchard

DATE : 08 - 1 - 2019

SHIFT : [D] [N]



Others holes include G-holes, BM-holes and all holes not related to production drilling

Remarks: _____

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Jean-Baptiste Bouchard

Drill #: TC005

Date: 08-1-2019

Day ☑

Night ☐

Station	Survey Depth	Casing total lenght (m)	Rock Depth (m)	Stick-up at level ground (m)	Comments (ex; empty, boulders, ice, sand,etc.)
351	11.2	11.8	11.3	0.2	
345	11.5	11.7	11.2	0.2	
339	11.3	11.6	11.1	0.2	
333	10.3	10.9	10.4	0.2	
		46 meters			

DRILLING PERFORMANCE REPORT

9/6/64

AGNICO EAGLE

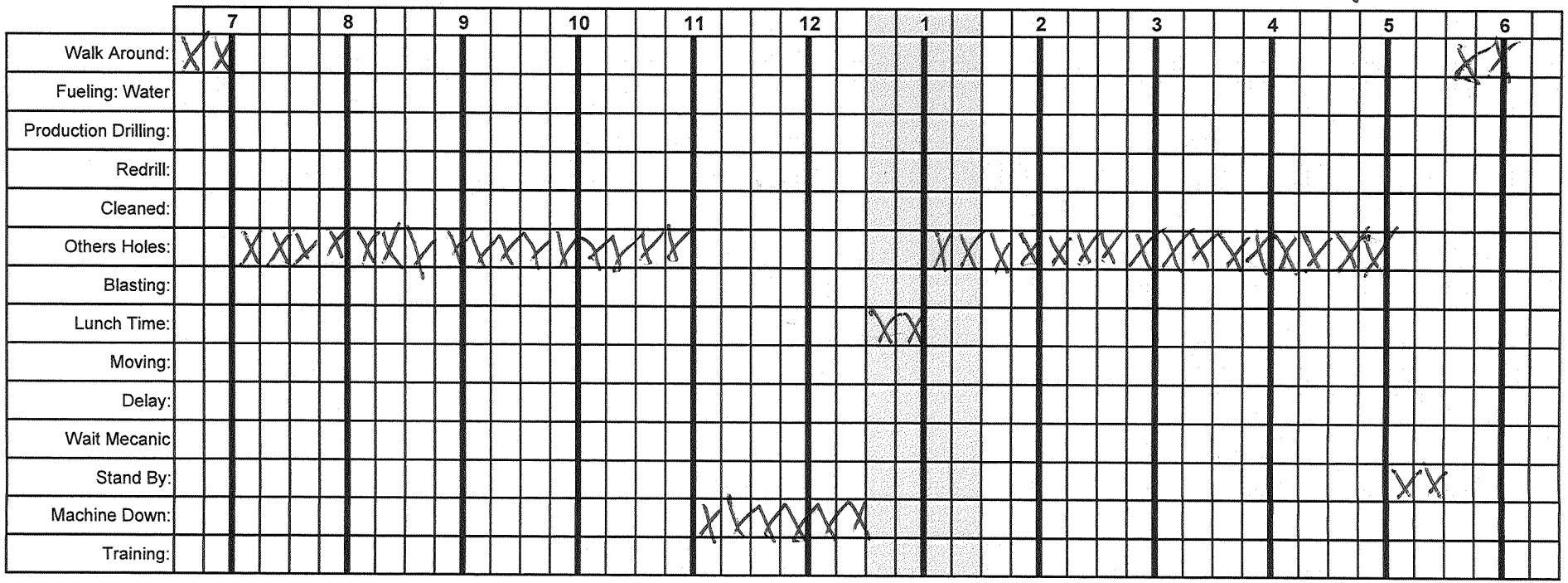
DRILL #: TL6-05 C211

P. HENRY	☐	M.HIPSAGH	☐
B.COTE	☐	J. LEMAY	☐
M.AUBIN	☐	J-F.BELAND	☐
M. OUELLET	☐	D. DANJOU	☐

EMPL#: Jean-Baptiste Bouchard

DATE: 09 - 1 - 2019

SHIFT: ☒ N ☐



Others holes include G-holes, BM-holes and all holes not related to production drilling

Remarks: Stand By two more hole

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Jean-Baptiste Bouchard 96964

Drill #: TC605 C211

Date: 09-01-2019

Day ☑

Night ☐

Station	Survey Depth	Casing total lenght (m)	Rock Depth (m)	Stick-up at level ground (m)	Comments (ex; empty, boulders, ice, sand,etc.)
327	9.0	9,5	9.0	0,2	
321	8,0	8,6	8.1	0,2	
297	6,1	6.7	6,2	0,2	
291	6,3	6,9	6,4	0,2	
267	6,5	6,9	6,4	0,2	
		38,6 meters			

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Jean-Baptiste Bouchard

Drill # : TCG05 C211

Date: 2019-01-23

Day

Night

Station	Survey depth	Casin total lenght (m)	Rock Depth (m)	Stick-up at ground level (m)	Comments (ex; empty, boulders, ice, sand, etc.)
201		8,7	8,2	0,2	
207		8,6	8,1	0,2	

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Jean-Baptiste Bouchard
Drill # : TCG05 C211
Date: 2019-01-25

Day
Night

Station	Survey depth	Casin total lenght (m)	Rock Depth (m)	Stick-up at ground level (m)	Comments (ex; empty, boulders, ice, sand, etc.)
382,5	9,8	10,8	10,3	0,2	Drilled on 2019-01-24, hole is cancelled
397,5	9,9	10,8	10,3	0,2	
400,5	9,7	10,4	9,9	0,2	
403,5	10,4	10,8	10,3	0,2	
406,5	10,7	11,2	10,7	0,2	

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Jean-Baptiste Bouchard

Drill # : TCG05 C211

Date: 2019-01-26

Day

Night

Station	Survey depth	Casin total lenght (m)	Rock Depth (m)	Stick-up at ground level (m)	Comments (ex; empty, boulders, ice, sand, etc.)
463,5	8	8,4	8	0,2	
466,5	7,8	8,2	7,8	0,2	

KIVALLIQ CONTRACTORS GROUP LTD

11811 - Casing Drilling Report

Employee: Jean Baptiste Bouchard

Drill # : TG05 - C211

Date: 30-01-2019

(Day) / Night

Station	Survey depth	Casin total lenght (m)	Rock Depth (m)	Stick-up at ground level (m)	Comments (ex; empty, boulders, ice, sand, etc.)
199.5	7.8	8.3	7.8	0.2	
202.5	8.0	8.5	8.0	0.2	

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2018-12-12

		BEDROCK DRILLING							
PM Station	**P,S,T**	**Date drilling (roc)**	**Bedrock drilling (m)**	**Bedrock washing (min)**	**Date of redrilling (downstage grouting)**	**Redrilling (m)**	**Bedrock rewashing (m)**	**Total Hole (m)**	**Drilling comments**
PM Station	**P,S,T**	**Date forage (roc)**	**Forage au roc relle (m)**	**Temps de lavage (min)**	**Date of redrilling**	**Redrilling (m)**		**Total du trou (m)**	**Commentaire de forage**
0+492	**P**	2018-12-12	**10,78**	2min				**18,90**	Soft roc
0+504	**P**	2018-12-12	**10,88**	2min				**18,90**	Soft roc

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2018-12-13

		BEDROCK DRILLING							
PM Station	**P,S,T**	**Date drilling (roc)**	**Bedrock drilling (m)**	**Bedrock washing (min)**	**Date of redrilling (downstage grouting)**	**Redrilling (m)**	**Bedrock rewashing (m)**	**Total Hole (m)**	**Drilling comments**
PM Station	**P,S,T**	**Date forage (roc)**	**Forage au roc relle (m)**	**Temps de lavage (min)**	**Date of redrilling**	**Redrilling (m)**		**Total du trou (m)**	**Commentaire de forage**
0+432	**P**	2018-12-13	**9,78**	2min				**18,60**	Water comming at 15,5m
0+444	**P**	2018-12-13	**9,98**	2min				**18,60**	
0+456	**P**	2018-12-13	**10,18**	2min				**18,60**	Water comming at 16,8m
0+468	**P**	2018-12-13	**10,58**	2min				**19,00**	Drilled 2 times, bad roc a 13m
0+480	**P**	2018-12-13	**10,38**	2min				**18,20**	

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2018-12-15

		BEDROCK DRILLING							
PM Station	**P,S,T**	**Date drilling (roc)**	**Bedrock drilling (m)**	**Bedrock washing (min)**	**Date of redrilling (downstage grouting)**	**Redrilling (m)**	**Bedrock rewashing (m)**	**Total Hole (m)**	**Drilling comments**
PM Station	**P,S,T**	**Date forage (roc)**	**Forage au roc relle (m)**	**Temps de lavage (min)**	**Date of redrilling**	**Redrilling (m)**		**Total du trou (m)**	**Commentaire de forage**
0+408	**P**	2018-12-15	**10,18**	2min				**20,60**	
0+420	**P**	2018-12-15	**9,38**	2min				**18,70**	Lost water pressure at 15m

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2018-12-16

		BEDROCK DRILLING							
PM Station	**P,S,T**	**Date drilling (roc)**	**Rock depth (m)**	**Bedrock drilled depth (m)**	**Lost of water return (YES/NO)**	**Depth of lost water (m)**	**Bedrock washing (min)**	**Total hole casing + drilling (m)**	**Drilling comments**
0+300	**P**	2018-12-16	6,3	**9,9**	NO	-	2min	**16,9**	
0+312	**P**	2018-12-16	6,2	**10,4**	NO	-	2min	**17,3**	
0+324	**P**	2018-12-16	8,6	**10,3**	NO	-	2min	**19,5**	
0+336	**P**	2018-12-16	11,4	**10,2**	NO	-	2min	**22,2**	
0+348	**P**	2018-12-16	11,7	**10,0**	NO	-	2min	**22,3**	
0+360	**P**	2018-12-16	14,4	**10,0**	NO	-	2min	**25,4**	
0+372	**P**	2018-12-16	11,2	**9,3**	NO	-	2min	**21,1**	concrete from 12,5 to 13,5
0+384	**P**	2018-12-16	10,4	**9,8**	NO	-	2min	**20,8**	hit some concrete at 11,2m, drill broken at 15h30
0+396	**P**	2018-12-16	10,4	**9,6**	YES	15,0	3min	**20,8**	Washed 2 times

Notes : **For hole # 384 and 396, there was an error in the bedrock drilled depth in the last report.**

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2018-12-17

		BEDROCK DRILLING						
PM Station	P,S,T	Date drilling (roc)	Bedrock drilled depth (m)	Lost of water return (YES/NO)	Depth of lost water (m)	Bedrock washing (min)	Total hole casing + drilling (m)	Drilling comments
0+228	**P**	2018-12-17	**9,86**	NO	-	2min	**18,00**	
0+240	**P**	2018-12-17	**10,08**	NO	-	2min	**16,80**	
0+252	**P**	2018-12-17	**10,18**	NO	-	2min	**17,20**	
0+264	**P**	2018-12-17	**10,38**	NO	-	2min	**17,60**	
0+276	**P**	2018-12-17	**10,08**	NO	-	2min	**17,20**	
0+288	**P**	2018-12-17	**10,38**	NO	-	2min	**16,80**	

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2018-12-18

		BEDROCK DRILLING								
PM Station	**P,S,T**	**Date drilling (roc)**	**Rock depth (m)**	**Bedrock drilled depth (m)**	**Lost of water return (YES/NO)**	**Depth of lost water (m)**	**Bedrock washing (min)**	**Total hole (m)**	**Drilling comments**	**Re-drill date**
0+180	**P**	2018-12-18	7,0	**10,0**	**NO**	-	2min	**17,00**		
0+192	**P**	2018-12-18	6,9	**10,2**	**NO**	-	2min	**17,10**		
0+204	**P**	2018-12-18	8,0	**10,2**	**NO**	-	2min	**18,20**	Water infiltration at 11.5m. Bloqued at 12m	
0+216	**P**	2018-12-18	8,3	**9,9**	**NO**	-	2min	**18,20**		
0+468	**P**	2018-12-13	8,5	**10,5**	**NO**	-	2min	**19,00**	Drilled 2 times, bad roc a 13m	2018-12-18
0+486	**S**	2018-12-18	8,80	**10,0**	**NO**		2min	**18,80**		
0+498	**S**	2018-12-18	8,20	**9,9**	**NO**		2min	**18,10**		
0+510	**S**	2018-12-18	8,00	**10,0**	**NO**		2min	**18,00**		

Notes :

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2018-12-20

		BEDROCK DRILLING								
PM Station	**P,S,T**	**Date drilling (roc)**	**Rock depth (m)**	**Bedrock drilled depth (m)**	**Lost of water return (YES/NO)**	**Depth of lost water (m)**	**Bedrock washing (min)**	**Total hole (m)**	**Drilling comments**	**Re-drill date**
0+450	**S**	2018-12-20	8,40	**10,1**	**NO**	-	2min	**18,50**		
0+462	**S**	2018-12-20	8,50	**9,9**	**NO**	-	2min	**18,40**		
0+474	**S**	2018-12-20	8,00	**10,1**	**NO**	-	2min	**18,10**		

Notes : **For those 3 holes, rock was way better than when we drilled the primary hole of this zone.**

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2018-12-21

		BEDROCK DRILLING								
PM Station	**P,S,T**	**Date drilling (roc)**	**Rock depth (m)**	**Bedrock drilled depth (m)**	**Lost of water return (YES/NO)**	**Depth of lost water (m)**	**Bedrock washing (min)**	**Total hole (m)**	**Drilling comments**	**Re-drill date**
0+426	**S**	2018-12-21	9,40	**9,6**	**YES**	14,0	2min	**19,00**	Lost water pressure at 14m	
0+438	**S**	2018-12-21	8,70	**10,1**	**NO**	-	2min	**18,80**		

Notes :

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2018-12-22

		BEDROCK DRILLING								
PM Station	**P,S,T**	**Date drilling (roc)**	**Rock depth (m)**	**Bedrock drilled depth (m)**	**Lost of water return (YES/NO)**	**Depth of lost water (m)**	**Bedrock washing (min)**	**Total hole (m)**	**Drilling comments**	**Re-drill date**
0+402	**S**	2018-12-22	10,90	**4,6**	**YES**	15,50	2min	**15,50**	Lost water pressure at 15,5m. Bad rock at this depth.	
0+414	**S**	2018-12-22	9,60	**10,2**	**NO**	-	2min	**19,80**		

Notes : Hole # 402 ; we stop drilling at 15.5m, we're gonna make down stage grouting on this hole.

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2018-12-23

		BEDROCK DRILLING								
PM Station	**P,S,T**	**Date drilling (roc)**	**Rock depth (m)**	**Bedrock drilled depth (m)**	**Lost of water return (YES/NO)**	**Depth of lost water (m)**	**Bedrock washing (min)**	**Total hole (m)**	**Drilling comments**	**Re-drill date**
0+384	**P**	2018-12-16	10,5	**10,1**	**NO**	-	2min	**20,60**		2018-12-23

Notes : **Re-drill on the hole # 384.**

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2018-12-27

		BEDROCK DRILLING								
PM Station	**P,S,T**	**Date drilling (roc)**	**Rock depth (m)**	**Bedrock drilled depth (m)**	**Lost of water return (YES/NO)**	**Depth of lost water (m)**	**Bedrock washing (min)**	**Total hole (m)**	**Drilling comments**	**Re-drill date**
0+348	**P**	2018-12-16	11,8	**9,9**	**NO**	-	2min	**21,70**	**Cleaning has been done on december 27, hole has caved.**	2018-12-27
0+402	**S**	2018-12-22	10,90	**8,1**	**YES**	15,50	2min	**19,00**	Lost water pressure at 15,5m. Bad rock at this depth. **Redrill : Can't reach more than 19m, drill get stuck deeper than that**	2018-12-27
0+486	**S**	2018-12-18	8,80	**10,0**	**NO**	-	2min	**18,80**		2018-12-27

Notes : **Only re-drill and cleaning has been done today.**

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2018-12-30

		BEDROCK DRILLING								
PM Station	**P,S,T**	**Date drilling (roc)**	**Rock depth (m)**	**Bedrock drilled depth (m)**	**Lost of water return (YES/NO)**	**Depth of lost water (m)**	**Bedrock washing (min)**	**Total hole (m)**	**Drilling comments**	**Re-drill date**
0+354	**S**	2018-12-30	12,40	**9,7**	**NO**	-	2 min	**22,10**	Caved at 15,5m. Try to clean it 3 times but nothing works.	
0+366	**S**	2018-12-30	15,80	**10,0**	**NO**	-	3 min	**25,80**		
0+378	**S**	2018-12-30	10,90	**7,1**	**YES**	16,10	5 min	**18,00**	Very bad rock and blocked 2 times a 14m. 3x cleaning.	
0+390	**S**	2018-12-30	10,00	**10,2**	**YES**	15,30	2min	**20,20**		
0+402	**S**	2018-12-22	10,90	**9,4**	**YES**	15,50	2min	**20,30**	Lost water pressure at 15,5m. Bad rock at this depth. **Redrill : Can't reach more than 19m, drill get stuck deeper than that. Redrill 2 : Drilled to 20,3m and lost water pressure.**	2018-12-27 **2018-12-30**

Notes :

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2018-12-31

		BEDROCK DRILLING								
PM Station	**P,S,T**	**Date drilling (roc)**	**Rock depth (m)**	**Bedrock drilled depth (m)**	**Lost of water return (YES/NO)**	**Depth of lost water (m)**	**Bedrock washing (min)**	**Total hole (m)**	**Drilling comments**	**Re-drill date**
0+282	**S**	2018-12-31	7,20	**10,0**	**NO**	-	2min 56sec	**17,20**		
0+294	**S**	2018-12-31	6,80	**10,2**	**NO**	-	1min 42sec	**17,00**		
0+306	**S**	2018-12-31	6,20	**10,6**	**NO**	-	1min 26sec	**16,80**		
0+318	**S**	2018-12-31	7,80	**10,2**	**NO**	-	1min 17sec	**18,00**		
0+330	**S**	2018-12-31	9,90	**10,1**	**NO**	-	1min 43sec	**20,00**		
0+342	**S**	2018-12-31	11,20	**10,1**	**YES**	15,80	2min 31sec	**21,30**		

Notes :

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2019-01-01

		BEDROCK DRILLING								
PM Station	**P,S,T**	**Date drilling (roc)**	**Rock depth (m)**	**Bedrock drilled depth (m)**	**Lost of water return (YES/NO)**	**Depth of lost water (m)**	**Bedrock washing (min)**	**Total hole (m)**	**Drilling comments**	**Re-drill date**
0+258	S	2019-01-01	6,90	**9,8**	**NO**	-	2min 14sec	**16,70**		
0+270	S	2019-01-01	6,70	**10,2**	**YES**	9,2m	1min 31sec	**16,90**	Bad rock at the bottom of the hole	
0+378	S	2018-12-30	10,90	**10,0**	**YES**	16,10	5 min	**20,90**	Very bad rock and blocked 2 times a 14m. 3x cleaning. **Redrill : semi-lost of water pressure at 18,5m but still got the good depth.**	2019-01-01

Notes :

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2019-01-05

		BEDROCK DRILLING								
PM Station	**P,S,T**	**Date drilling (roc)**	**Rock depth (m)**	**Bedrock drilled depth (m)**	**Lost of water return (YES/NO)**	**Depth of lost water (m)**	**Bedrock washing (min)**	**Total hole (m)**	**Drilling comments**	**Re-drill date**
0+429	**T**	2019-01-05	8.90	**10.0**	**NO**	-	2min	**19.20**		
0+435	**T**	2019-01-05	8.50	**10.0**	**NO**	-	2min	**18.80**		
0+441	**T**	2019-01-05	8.40	**10.0**	**NO**	-	2min	**18.70**		
0+447	**T**	2019-01-05	8.25	**10.0**	**NO**	-	2min	**18.60**		
0+453	**T**	2019-01-05	8.20	**10.0**	**NO**	-	2min	**18.50**		
0+459	**T**	2019-01-05	8.20	**10.0**	**NO**	-	2min	**18.50**		
0+465	**T**	2019-01-05	8.20	**10.0**	**NO**	-	2min	**18.50**		
0+495	**T**	2019-01-05	7.80	**10.0**	**NO**	-	2min	**18.10**		
0+501	**T**	2019-01-04	7.50	**10.0**	**NO**	-	2min	**18.90**		
0+516	**P**	2019-01-04	9.20	**10.0**	**NO**	-	2min	**18.60**		

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2019-01-07

			BEDROCK DRILLING									
	PM Station	**P,S,T**	**Bedrock elevation**	**Total hole (m)** ***including casing stickup***	**Date drilling (roc)**	**Rock depth (m)**	**Bedrock drilled depth (m)**	**Lost of water return (YES/NO)**	**Depth of lost water (m)**	**Bedrock washing (min)**	**Total hole (m)**	**Drilling comments**	**Re-drill date**
56	**0+405**	T	146.635	21.1	2019-01-05	10.88	10.1	**NO**	-	2min	**20.70**		
58	**0+411**	T	148.354	19.2	2019-01-05	9.10	10.0	**NO**	-	2min	**20.00**		

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2019-01-07

		BEDROCK DRILLING								
PM Station	**P,S,T**	**Date drilling (roc)**	**Rock depth (m)**	**Bedrock drilled depth (m)**	**Lost of water return (YES/NO)**	**Depth of lost water (m)**	**Bedrock washing (min)**	**Total hole (m)**	**Drilling comments**	**Re-drill date**
0+417	T	2019-01-07	9.52	**10.1**	**NO**	-	2min	**19.50**		
0+423	T	2019-01-07	9.41	**10.1**	**NO**	-	2min	**19.50**		

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2019-01-07

		BEDROCK DRILLING								
PM Station	**P,S,T**	**Date drilling (roc)**	**Rock depth (m)**	**Bedrock drilled depth (m)**	**Lost of water return (YES/NO)**	**Depth of lost water (m)**	**Bedrock washing (min)**	**Total hole (m)**	**Drilling comments**	**Re-drill date**
0+381	T	2019-01-09	10.62	**11.0**	**NO**	-	2min	**21.50**		
0+387	T	2019-01-09	10.15	**10.1**	**NO**	-	2min	**20.50**		
0+393	T	2019-01-09	10.30	**10.2**	**NO**	-	2min	**20.50**		
0+399	T	2019-01-05	9.60	**10.0**	**NO**	-	2min	**20.70**		

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2019-01-07

		BEDROCK DRILLING								
PM Station	**P,S,T**	**Date drilling (roc)**	**Rock depth (m)**	**Bedrock drilled depth (m)**	**Lost of water return (YES/NO)**	**Depth of lost water (m)**	**Bedrock washing (min)**	**Total hole (m)**	**Drilling comments**	**Re-drill date**
0+246	S	2019-01-10	7.20	**10.2**	**NO**	-	2min02sec	**17.20**		
0+267	T	2019-01-10	6.43	**10.3**	**NO**	-	2min	**17.50**		
0+291	T	2019-01-10	6.25	**10.3**	**NO**	-	1min59sec	**16.80**		
0+297	T	2019-01-10	6.04	**10.3**	**NO**	-	2min01sec	**16.90**		
0+321	T	2019-01-10	7.90	**10.4**	**NO**	-	2min	**18.40**		
0+327	T	2019-01-10	8.91	**9.5**	**NO**	-	2min13sec	**18.50**		
0+333	T	2019-01-10	10.21	**10.7**	**NO**	-	1min53sec	**21.00**		
0+339	T	2019-01-10	11.30	**10.3**	**NO**	-	2min06sec	**21.70**		
0+345	T	2019-01-10	11.40	**10.2**	**NO**	-	2min	**21.80**		
0+351	T	2019-01-10	11.17	**10.9**	**NO**	-	2min07sec	**22.20**		
0+357	T	2019-01-10	12.12	**11.3**	**NO**	-	1min56	**23.50**		
0+369	T	2019-01-10	16.60	**6.7**	**NO**	-	2min26	**23.60**	Miss 4m, to be redrilled	
0+375	T	2019-01-10	10.69	**10.7**	**NO**	-	2min01sec	**21.50**		
0+381	T	2019-01-10	9.90	**10.9**	**NO**	-	2min	**21.50**		

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2019-01-14

			BEDROCK DRILLING								
	PM Station	P,S,T	Date drilling (roc)	Rock depth (m)	Bedrock drilled depth (m)	Lost of water return (YES/NO)	Depth of lost water (m)	Bedrock washing (min)	Total hole (m)	Drilling comments	Re-drill date
6	**0+210**	**S**	2019-01-14	8.10	**10.2**	**NO**	-	2min	**18.10**		
8	**0+222**	**S**	2019-01-14	8.58	**10.0**	**NO**	-	2min	**18.50**		
10	**0+234**	**S**	2019-01-14	8.34	**10.2**	**NO**	-	2min	**18.20**		

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2019-01-23

		BEDROCK DRILLING								
PM Station	**P,S,T**	**Date drilling (roc)**	**Rock depth (m)**	**Bedrock drilled depth (m)**	**Lost of water return (YES/NO)**	**Depth of lost water (m)**	**Bedrock washing (min)**	**Total hole (m)**	**Drilling comments**	**Re-drill date**
0+201	**T**	2019-01-23	8,20	**10,0**	**NO**	-	3min	**18,60**		
0+207	**T**	2019-01-23	8,10	**10,0**	**NO**	-	2min15sec	**18,50**		

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2019-01-26

		BEDROCK DRILLING								
PM Station	**P,S,T**	**Date drilling (roc)**	**Rock depth (m)**	**Bedrock drilled depth (m)**	**Lost of water return (YES/NO)**	**Depth of lost water (m)**	**Bedrock washing (min)**	**Total hole (m)**	**Drilling comments**	**Re-drill date**
0+397,5	Q	2019-01-26	9,80	**10,1**	**NO**	-	2min30sec	**20,30**		
0+400,5	Q	2019-01-26	9,40	**10,0**	**NO**	-	2min20sec	**19,80**		
0+403,5	Q	2019-01-26	9,80	**10,0**	**NO**	-	3min	**20,20**	Really dirty water comming out from the hole. Kind of CB mix.	

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2019-01-27

		BEDROCK DRILLING								
PM Station	**P,S,T**	**Date drilling (roc)**	**Rock depth (m)**	**Bedrock drilled depth (m)**	**Lost of water return (YES/NO)**	**Depth of lost water (m)**	**Bedrock washing (min)**	**Total hole (m)**	**Drilling comments**	**Re-drill date**
0+406,5	Q	2019-01-27	10,20	**10,1**	**NO**	-	2min45sec	**20,70**		
0+463,5	Q	2019-01-27	8,00	**10,0**	**NO**	-	2min30sec	**18,40**		

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL DIKE - DRILLING REPORT

DATE : 2019-01-28

		BEDROCK DRILLING								
PM Station	**P,S,T**	**Date drilling (roc)**	**Rock depth (m)**	**Bedrock drilled depth (m)**	**Lost of water return (YES/NO)**	**Depth of lost water (m)**	**Bedrock washing (min)**	**Total hole (m)**	**Drilling comments**	**Re-drill date**
0+466,5	**Q**	2019-01-28	7,80	**10,0**	**NO**	-	3min	**18,20**		

Dynamitage TCG

Rapport Forage au Bedrock

Employé: Dale Burton #96219 #Foreuse: 9932 Jour ☑ Nuit ☐

Date: 30-01-2019

Station	Profondeur du roc	Profondeur au roc	Profondeur foré (mètre)	Perte d'eau de forage (Oui/Non)	Profondeur de la perte d'eau	Temps de lavage (min.)	Changement de structure majeur	Particularités rencontrées lors du forage
Q-199,5			18,3	Yes	14m			
Q-202,5			18,5	YES	14m			

DRILLING PERFORMANCE REPORT

AGNICO EAGLE

P. HENRY ☐ M.Hipsagh ☐

B.COTE ☐ J. LEMAY ☐

DRILL #: TCH #9932 M.ROBERGE ☐

M. OUELLET ☐ D. DANJOU ☐

EMPL# : Rah Bwt #9621

DATE : 30-01-2019

SHIFT : ☒ N ☐

	7			8			9			10			11			12			1			2			3			4			5			6		
Walk Around:																																				
Fueling: Water																																				
Production Drilling:																																				
Redrill:																																				
Cleaned:																																				
Others Holes:																			X	X	X	X	X	X												
Blasting:																																				
Lunch Time:																			X	X																
Moving:																																				
Delay:	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Wait Mecanic																																				
Stand By:																																				
Machine Down:																																				
Training:																																				

Others holes include G-holes, BM-holes and all holes not related to production drilling

Remarks: Delay: Waiting for the other drill to move forwards

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2018-12-15

PROJECT WTD - Amaruq **Operator:** Francois Pichette **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	EFF. PRESSURE		FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Seq.	Depth (m)							Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4	504	P	10	6	A	07:40	07:57	00:17	43	5,9	5,9	2,53							
	4	504	P	6	2	A	08:11	08:22	00:11	4,4	3,9	3,7	0,40							
	2	504	P	2	0	A	08:34	09:04	00:30	121	2,2	2,3	4,03							
	4	492	P	10	6	A	10:11	10:32	00:21	142	5,9	5,2	6,76							
	4	492	P	6	2	A	10:43	10:57	00:14	50	3,9	3,9	3,57							
	2	492	P	2	0	A	11:07	11:31	00:24	75	2,2	2,4	3,13							
	4	480	P	10	6	A	14:16	14:30	00:14	22	5,6	5,5	1,57							
	4	480	P	6	2	A	14:37	15:14	00:37	320	3,6	3,8	8,65							
	2	480	P	2	0	A	15:19	15:29	00:10	5,5	2,0	2,1	0,55							
	2	468	P	4	2	A	15:58	16:27	00:29	214	2,7	2,6	7,38							We can't reach the bottom of the hole cause it was blocked, so we only made two stage.
	2	468	P	2	0	A	16:33	16:51	00:18	49	2,0	1,9	2,72							

Signed: Contractor Rep. _____ Engineer Rep _____ Client Rep _____

Nicolas Tremblay, Jr. Eng.

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2018-12-16

PROJECT WTD - Amaruq **Operator:** Francois Pichette **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	EFF. PRESSURE		FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Seq.	Depth (m)							Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4	456	P	10	6	A	08:10	08:23	00:13	270	5,7	0,0	20,8							
						B	08:23	08:48	00:25	480			19,2							
						C	08:48	09:05	00:17	420			24,7							
						D	09:05	09:40	00:35	760			21,7							
						D+	09:40	09:52	00:12	230			19,2							
	4	456	P	6	2	A	09:55	10:10	00:15	260	3,7	0,0	17,3							
						B	10:10	10:21	00:11	200			18,2							
						C	10:21	10:28	00:07	200			28,6							
						D	10:28	12:07	01:39	1440			14,5							
	4	456	P	2	0	A	14:08	14:19	00:11	260	1,9	0,0	23,6							
						B	14:19	14:30	00:11	240			21,8							
						C	14:30	14:40	00:10	200			20,0							
						D	14:40	14:50	00:10	165			16,5							
						D+	14:50	15:02	00:12	210			17,5							
	4	444	P	10	6	A	15:19	15:28	00:09	190	5,4	0	21,1							Stage 2 and 3 of hole # 444 will be done on 2018-12-17
						B	15:28	15:39	00:11	260			23,64							
						C	15:39	15:48	00:09	200			22,22							
						D	15:48	16:00	00:12	240			20,00							
						D+	16:00	16:57	00:57	1210			21,23							

Signed: Contractor Rep. Nicolas Tremblay, Jr. Eng.

Engineer Rep _____

Client Rep _____

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2018-12-17

PROJECT WTD - Amaruq **Operator:** Francois Pichette **Shift:** **Day** X **Night**

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	EFF. PRESSURE		FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Seq.	Depth (m)							Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4	444	P	6	2	A	07:22	07:42	00:20	77,3	3,4	3,3	3,85							
	2	444	P	2	0	A	07:48	08:00	00:12	10,5	2,1	2,2	0,88							
						A	08:42	09:00	00:18	425		0,0	23,61							
	4	432	P	10	6	D	09:00	09:42	00:42	625	5,6	0,0	14,88							
						D+	09:42	11:12	01:30	1093		1,1	12,14							
						A	13:15	13:31	00:16	320		0,0	20,00							
	4	420	P	10	6	D	13:31	14:08	00:37	700	5,6	0,0	18,92							
						E	14:08	15:25	01:17	966		3,1	12,55							

Signed: Contractor Rep. Nicolas Tremblay, Jr. Eng.

Engineer Rep _____

Client Rep _____

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2018-12-18

PROJECT WTD - Amaruq **Operator:** Francois Pichette **Shift:** Day X / Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	EFF. PRESSURE		FLOW RATE	QUALITY CONTROL						COMMENTS
				Depth (m)							Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m	Name	Seq.	From	To	A,B,C,D	Start	End	Duration, min	(l)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
						A	07:11	07:20	00:09	320		0,0	35,56							
	4	408	P	10	6	D	07:20	08:22	01:02	710	6,2	2,6	11,77							
						D+	08:22	10:09	01:47	852		4,4	7,96							
						A	10:16	10:34	00:18	300		0	16,67							
						C	10:34	10:46	00:12	235		0	19,58							
	4	396	P	10	6	D	10:46	11:21	00:35	565	6,1	1,8	16,14							
						D+	11:21	12:16	00:55	572		4,4	10,40							
						E+	12:16	12:32	00:16	201		3,1	12,56							
						A	14:40	14:58	00:18	260		0,0	14,44							
	0	384	P	0	0	D	14:58	16:08	01:10	1226	6,1	0,8	17,51							This hole is blocked at the bottom of the casing, so we did the grouting there. The hole will have to be redrilled
						D+	16:08	16:38	00:30	764		1,0	25,47							

Signed: Contractor Rep. Nicolas Tremblay, Jr. Eng.

Engineer Rep _____

Client Rep _____

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2018-12-19

PROJECT WTD - Amaruq **Operator:** Francois Pichette **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	EFF. PRESSURE		FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Seq.	Depth (m)							Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4,0	432	P	15,1	11,1	A	09:40	09:55	00:15	6,1	3,1	2,1	0,41							
	1,4	432	P	11,1	9,7	A	10:02	10:15	00:13	6	1,5	1,5	0,46							
	4,0	420	P	15,7	11,7	A	10:28	10:42	00:14	350	3,2	0,0	25,00							
						B	10:42	10:48	00:06	200		0,0	33,33							
						D	10:48	11:26	00:38	900		0,9	23,68							
						D+	11:26	11:53	00:27	583		2,0	21,59							
	4,0	468	P	19,0	15,0	A	07:51	08:05	00:14	7	5,9	5,9	0,50							Re-grouting
	4,0	468	P	15,0	11,0	A	08:19	08:38	00:19	119	3,2	3,2	6,26							Re-grouting
	1,2	468	P	11,0	9,8	A	08:45	09:00	00:15	20,1	1,5	1,5	1,34							Re-grouting
	2,5	408	P	15,1	12,6	A	14:12	14:26	00:14	6,2	3,2	3,2	0,44							
	1,7	408	P	12,6	10,9	A	14:36	14:58	00:22	56,9	1,6	1,6	2,59							
	2	396	P	13,9	11,9	A	15:01	15:09	00:08	220	3,2	0	27,50							
						D	15:09	15:33	00:24	105		3,2	4,38							
	1,9	396	P	11,9	10,0	A	16:00	16:11	00:11	320	1,6	0	29,09							
						B	16:11	16:20	00:09	260		0	28,89							
						D	16:20	16:55	00:35	620		1,6	17,71							

Signed: Contractor Rep. _____ Engineer Rep _____ Client Rep _____

Nicolas Tremblay, Jr. Eng.

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2018-12-20

PROJECT: WTD - Amaruq **Operator:** Francois Pichette **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	EFF. PRESSURE		FLOW RATE	QUALITY CONTROL						COMMENTS
				Depth (m)							Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m	Name	Stage	From	To	A,B,C,D	Start	End	Duration, min	(l)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	1,6	P-420	3	12,0	10,4	A	07:25	08:21	56	220	1,6	1,6	3,93	N/A						PACKER HAS BROKE IN THE HOLE, WE CHANGE IT AND RESTART AT 8:02. GOT THE REFUSAL AT PRESSURE
	3,9	P-372	1	20,7	16,8	A	09:09	09:14	5	110	4,6	0,0	22,00	N/A						
						B	09:14	09:21	7	200		0,8	28,57	N/A						
						C	09:21	09:34	13	290		1,4	22,31	N/A						
						D	09:34	10:26	52	900		4,3	17,31	>180		1,66			13,5	
						D+	10:26	11:20	54	406		4,6	7,52	>180		1,64			13	REFUSAL AT PRESSURE
	4,0	P-372	2	16,8	12,8	A	13:18	13:36	18	32	3,0	3,0	1,78	N/A						REFUSAL AT PRESSURE
	1,1	P-372	3	12,8	11,7	A	13:45	14:15	30	91	1,6	1,6	3,03	40		1,65			12,7	REFUSAL AT PRESSURE
	3,7	P-360	1	24,1	20,4	A	14:51	15:10	19	66	5,2	5,2	3,47	N/A						REFUSAL AT PRESSURE
	4,0	P-360	2	20,4	16,4	A	15:29	15:47	18	289	3,6	0	16,06	37		1,62			14,8	GROUT WAS BY-PASSING THE PACKER, SO WE STOP THE INJECTION AND RAISED UP THE PACKER OF 1M. SEE STAGE BELOW
						C	15:47	15:49	2	25	3,6	0	12,50	N/A						
	5,0	P-360	2	20,4	15,4	C	16:00	16:22	22	11	3,1	3,1	0,50	N/A						TAKE 2 WITH THE PACKER 1M HIGHER
	0,4	P-360	3	15,4	15,0	A	16:27	16:38	11	5	2	2	0,45	N/A						REFUSAL AT PRESSURE

Signed: Contractor Rep. _____ Engineer Rep _____ Client Rep _____

NICOLAS TREMBLAY, JR. ENG.

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2018-12-21

PROJECT WTD - Amaruq **Operator:** Francois Pichette **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	EFF. PRESSURE		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)		(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	0,3	S-510	1	14,3	14,0	A	08:44	08:46	2	12	6,0	4,6	4,9	0,0	N/A						THE HOLE HAS CAVED ABOUT 4M. WE HAD NO FLOW AND THE TARGET PRESSURE SO WE SWITCH TO STAGE 2.
	4,0	S-510	2	14,0	10,0	A	08:55	09:13	18	250	13,9	2,9	0,0	21,0	37		1,655			14,3	GROUT WAS BY-PASSING OVER THE PACKER, SO WE LIFT IT TO STAGE 3
						B	09:13	09:22	9	218	24,2		0,0	26,0	38		1,61			14,6	
	5,7	S-510	3	14,0	8,3	A	09:30	09:59	29	140	4,8	2,4	2,4	2,2	N/A						REFUSAL AT PRESSURE
	3,5	S-498	2	13,9	10,4	A	10:15	10:31	16	230	14,4	2,9	0,0	25,0	N/A						HOLE AS CAVED ABOUT 4.5 M, SO WE STARTED AT STAGE 2 BECAUSE WE CAN'T REACH THE BOTTOM.
						B	10:31	10:39	8	200	25,0		0,6	20,0	40		1,63				
						C	10:39	12:03	84	880	10,5		2,9	12,6	170		1,71				
						D	12:03	12:23	20	200	10,0		2,9	6,9	73		1,62				
						D+	12:28	12:47	19	127	6,7		2,9	2,6	N/A						REFUSAL AT PRESSURE AFTER 1650 L.
	2,0	S-498	3	10,4	8,4	A	13:02	13:15	13	7	0,5	1,9	1,9	0,4	N/A						REFUSAL AT PRESSURE
	3,5	S-486	2	14,3	10,8	A	14:05	14:16	11	87	7,9	3,0	2,9	8,0	N/A						STARTED WITH STAGE TWO BECAUSE THE HOLE HAS CAVED ABOUT 4M. THEN WE SWITCH TO STAGE 3 BECAUSE GROUT WAS BY-PASSING DE PACKER.
	5,0	S-486	3	14,3	9,3	A	14:21	14:52	31	93	3,0	2,1	2,0	2,8	N/A						REFUSAL AT PRESSURE

Signed: Contractor Rep. NICOLAS TREMBLAY, JR. ENG.

Engineer Rep

Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2018-12-22

PROJECT WTD - Amaruq **Operator:** Francois Pichette **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	EFF. PRESSURE		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)		(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
0,27	4,0	S-474	1	18,1	14,1	A	10:17	10:33	16	30	1,9	4,6	4,5	0,1	-	-	-	-	-	-	Refusal at pressure
23,25	4,0	S-474	2	14,1	10,1	A	10:38	11:00	22	105	4,8	3,0	3,0	1,4	-	-	-	-	-	-	Refusal at pressure
17,12	1,8	S-474	3	10,1	8,3	A	11:05	11:19	14	18	1,3	1,5	1,5	0,3	-	-	-	-	-	-	Refusal at pressure
	3,9	S-462	1	18,3	14,4	A	13:40	14:07	27	240	8,9		1,0	25,0	37	-	1,64	-	-	20,5	
						B	14:07	14:32	25	560	22,4		2,0	23,0	48	-	1,69	-	-	14,3	
						B									49	-	1,665	-	-	15,0	
						C	14:32	15:05	33	500	15,2	4,5	3,9	10,0	-	-	-	-	-	-	
						D	15;05	16:02	57	490	8,6		4,0	5,0	-	-	-	-	-	-	
						D+	16:02	16:17	40	40	1,0		4,7	1,4	-	-	-	-	-	-	Refusal at pressure. Back pressure of ± 2 bar at the end when we took off the packer

Signed: Contractor Rep. _____ Engineer Rep _____ Client Rep _____

NICOLAS TREMBLAY, JR. ENG.

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2018-12-23

PROJECT WTD - Amaruq **Operator:** Francois Pichette **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	EFF. PRESSURE		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)		(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	2,3	S-462	2	13,0	10,7	A	07:43	08:07	24	22	0,9	2,9	2,8	0,2	-	-	-	-	-	-	REFUSAL AT PRESSURE
	1,7	S-462	3	10,7	9,0	A	08:13	08:31	18	19,5	1,1	1,4	1,4	0,3	-	-	-	-	-	-	REFUSAL AT PRESSURE
	3,6	S-450	1	18,1	14,5	A	08:41	08:56	15	59	3,9	4,6	4,7	1,6	-	-	-	-	-	-	
	4,0	S-450	2	14,5	10,5	A	09:04	09:09	5	55	11,0	3,0	3,0	2,0	-	-	-	-	-	-	BROKEN PACKER AFTER 5 MIN, WE CHANGE IT AND LIFT IT UP OF 1M.
	5,0	S-450	2-B	14,5	9,5	A	09:23	09:37	14	18	1,3	2,8	2,8	1,5	-	-	-	-	-	-	REFUSAL AT PRESSURE
	0,7	S-450	3	9,5	8,8	A	09:42	09:57	15	8,6	0,6	1,3	1,3	0,4	-	-	-	-	-	-	REFUSAL AT PRESSURE
						A	10:31	10:46	15	270	18,0		0,0	22,0	-	-	-	-	-	-	
						B	10:46	10:57	11	250	22,7		0,0	23,0	-	-	-	-	-	-	
						C	10:57	11:09	12	280	23,3		0,0	23,0	89	-	1,65	-	-	17	
	2,5	S-438	1	17,3	14,8	D	11:09	11:34	25	600	24,0	4,6	0,5	31,0	172	-	1,68	-	-	17,5	
						D+	11:34	11:42	8	250	31,3		1,2	30,0	-	-	-	-	-	-	
						E	11:42	12:07	25	448	17,9		2,9	19,0	>180	-	1,8	-	-	19,8	STOP AT Q_{MAX}
						A	14:09	14:23	14	210	15,0		0,0	15,7	39	-	1,675	-	-	15,5	
															40	-	1,66	-	-	12,6	
						B	14:23	14:42	19	181	9,5		0,0	24,0	41	-	1,625	-	-	11,8	
	3,8	S-426	1	18,8	15,0	C	14:42	14:50	8	200	25,0	4,5	0,0	19,5	-	-	-	-	-	-	
						D	14:50	15:26	36	917	25,5		0,6	26,0	-	-	-	-	-	-	
						D+	15:26	15:58	32	629	19,7		1,9	21,00	-	-	-	-	-	-	STOP AT Q_{MAX}

Signed: Contractor Rep. Engineer Rep Client Rep

NICOLAS TREMBLAY, JR. ENG.

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2018-12-24

PROJECT WTD - Amaruq **Operator:** Francois Pichette **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	EFF. PRESSURE		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)					(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	2,0	S-426	2	12,5	10,5	A	07:43	08:02	19	34,6	1,8	2,9	2,9	0,2	37	-	1,68	-	-	19,2	HOLE RAISED UP FROM 15 TO 12,5 M DURING TH E NIGHT. REFUSAL AT PRESSURE
	1,1	S-426	3	10,5	9,4	A	08:39	09:04	25	220	8,8	0,9	0,0	16,0	-	-	-	-	-	-	
						C	09:04	09:34	30	195	6,5		1,0	0,4	120	-	1,72	-	-	18,1	REFUSAL AT PRESSURE
						C									97	-	1,705	-	-	17,5	
	4,0	S-438	2	17,5	13,5	A	09:53	10:09	16	200	12,5	2,6	0,4	18,0	-	-	-	-	-	-	
						B	10:09	10:41	32	334	10,4		2,6	0,3	41	-	1,67	-	-	20	HOLE GOES DOWN FROM 15,5 TO 17,5M. REFUSAL AT PRESSURE
						B									42	-	1,67	-	-	17,1	
	4,0	S-438	3	13,5	9,5	A	10:53	11:08	15	150	10,0	1,4	0,0	18,0	-	-	-	-	-	-	
						B	11:08	11:30	22	530	24,1		0,2	25,0	-	-	-	-	-	-	
						C	11:30	12:10	40	570	14,3		0,9	13,0	-	-	-	-	-	-	
						D	12:10	13:24	74	472	6,4		1,5	0,8	-	-	-	-	-	-	REFUSAL AT PRESSURE
	4,0	S-414	1	20,1	16,1	A	14:09	14:42	33	300	9,1	4,2	4,2	0,4	-	-	-	-	-	-	REFUSAL AT PRESSURE
	4,0	S-414	2	16,1	12,1	A	14:51	15:04	13	6,5	0,5	2,4	2,4	0,4	-	-	-	-	-	-	REFUSAL AT PRESSURE
	1,8	S-414	3	12,1	10,3	A	15:07	15:18	11	4	0,4	1,0	1,1	0,2	-	-	-	-	-	-	REFUSAL AT PRESSURE
	3,9	S-402	3	15,3	11,4	A	15:30	15:48	18	280	15,6	1,9	0,0	20,0	52	-	1,76	-	-	19,6	
						B	15:48	16:04	16	380	23,8		0,0	31,0	-	-	-	-	-	-	DOING DOWN STAGE GROUTING ON THIS HOLE, SO WE BEGIN WITH STAGE 3. REFUSAL AT PRESSURE.
						C	16:04	16:46	42	370	8,8		1,9	1,80	-	-	-	-	-	-	

Signed: Contractor Rep. NICOLAS TREMBLAY, JR. ENG.

Engineer Rep

Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2018-12-26

PROJECT WTD - Amaruq **Operator:** Francois Pichette **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	EFF. PRESSURE		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)					(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4,0	P-324	1	19,2	15,2	A	07:18	07:41	23	200	8,7	4,0	0,0	15,2	-	-	-	-	-	-	
						C	07:41	08:16	35	800	22,9		0,5	25,0	-	-	-	-	-	-	WE STOP AT Q_{MAX}
						D	08:16	09:01	45	1003	22,3		2,6	20,0	>180	-	1,735	-	-	9,8	
	3,1	P-336	2	16,7	13,6	A	10:07	10:20	13	252	19,4	2,4	0,4	16,0	-	-	-	-	-	-	REFUSAL AT PRESSURE.
						B	10:20	10:52	32	210	6,6		2,4	0,5	47	-	1,685	-	-	14,0	
	1,9	P-336	3	13,6	11,7	A	13:23	13:37	14	5	0,4	1,3	1,3	0,1	39	-	1,67	-	-	10,3	REFUSAL AT PRESSURE.
	4,0	P-312	1	16,7	12,7	A	14:26	14:54	28	68	2,4	3,8	3,7	0,3	40	-	1,68	-	-	16,7	REFUSAL AT PRESSURE.
	4,0	P-312	2	12,7	8,7	A	15:03	15:17	14	17,5	1,3	2,0	2,0	0,9	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	1,7	P-312	3	8,7	7,0	A	15:26	15:40	14	9,5	0,7	0,6	0,7	0,4	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	4,0	P-300	1	16,5	12,5	A	15:56	16:20	24	83	3,5	3,6	3,6	0,5	-	-	-	-	-	-	REFUSAL AT PRESSURE.
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	

Signed: Contractor Rep. Engineer Rep Client Rep

NICOLAS TREMBLAY, JR. ENG.

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2018-12-27

PROJECT WTD - Amaruq **Operator:** Francois Pichette **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	EFF. PRESSURE		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)					(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4,0	P-300	2	12,5	8,5	A	07:09	07:33	24	42	1,8	1,8	2,1	0,5	-	-	-	-	-	-	DIFFICULTY TO KEEP A STEADY PRESSURE. REFUSAL AT PRESSURE.
	1,7	P-300	3	8,5	6,8	A	07:42	07:53	11	4,2	0,4	0,5	0,5	0,0	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	2,0	P-324	2	13,2	11,2	A	08:12	08:24	12	5,7	0,5	2,0	2,0	0,0	-	-	-	-	-	-	HAD A BACK PRESSURE AT STAGE 1. THE HOLE PASSED FROM 15,2M TO 13,2M. REFUSAL AT PRESSURE.
	1,7	P-324	3	11,2	9,5	A	08:30	08:41	11	2	0,2	0,9	0,9	0,0	-	-	-	-	-	-	REFUSAL AT PRESSURE.
						A	09:54	10:19	25	350	14,0		0,0	20,0	40	-	1,695	-	-	21,3	DID THE CLEANING AND REACH 22M, BUT THE PACKER GET STUCK AT 15M.
															39	-	1,68	-	-	21,4	
	7,0	P-348	1	22,0	15,0	C	10:19	11:14	55	1050	19,1	3,8	3,0	28,0	90	-	1,685	-	-	16,7	
															93	-	1,70	-	-	17,1	
						D	11:14	13:03	109	891	8,2		3,8	1,1	174	-	1,695	-	-	17,7	REFUSAL AT PRESSURE.
	2,8	P-348	3	15,0	12,2	A	13:14	13:25	11	3,3	0,3	1,3	1,3	0,1	-	-	-	-	-	-	REFUSAL AT PRESSURE.
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	

Signed: Contractor Rep. NICOLAS TREMBLAY, JR. ENG. Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2018-12-29

PROJECT WTD - Amaruq **Operator:** Francois Pichette **Shift:** Day X / Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	EFF. PRESSURE		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)					(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4,0	S-498	1	18,5	14,5	A	07:07	07:17	10	0,5	0,1	3,8	3,9	0,0	37	-	1,65	-	-	19,3	REFUSAL AT PRESSURE.
	4,0	S-498	2	14,5	10,5	A	07:26	07:38	12	2,8	0,2	2,1	2,2	0,0	-	-	-	-	-	-	RE-GROUT, REFUSAL AT PRESSURE.
	1,7	S-498	3	10,5	8,8	A	07:44	07:55	11	2	0,2	0,8	0,9	0,0	-	-	-	-	-	-	RE-GROUT, REFUSAL AT PRESSURE.
	4,0	S-486	1	19,1	15,1	A	08:13	08:26	13	9,5	0,7	4,0	4,0	0,2	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	4,0	S-486	2	15,1	11,1	A	08:32	08:46	14	10	0,7	2,2	2,2	0,1	-	-	-	-	-	-	RE-GROUT, REFUSAL AT PRESSURE.
	1,7	S-486	3	11,1	9,4	A	08:53	09:05	12	6	0,5	0,9	0,9	0,1	-	-	-	-	-	-	RE-GROUT, REFUSAL AT PRESSURE.
	3,9	P-288	1	17,0	13,1	A	10:17	10:57	40	301	7,5	3,8	3,9	0,1	39	-	1,67	-	-	23	AT 10H41, TRE FLOW GOES DOWN REALLY QUICK, SO WE MADE A QUICK TEST TO SEE IF SOMETHING WAS WRONG OR NOT, BUT EVERYTHING WAS OK SO WE RESTART THE INJECTION AND GOT THE REFUSAL AT PRESSURE.
	4,0	P-288	2	13,1	9,1	A	11:10	11:23	13	12,6	1,0	2,1	2,3	0,6	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	1,7	P-288	3	9,1	7,4	A	13:44	13:55	11	1	0,1	0,7	1,0	0,0	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	4,0	P-276	1	17,5	13,5	A	14:07	14:47	40	391	9,8	3,8	3,8	0,2	42	-	1,665	-	-	17,5	REFUSAL AT PRESSURE.
	4,0	P-276	2	13,5	9,5	A	15:01	15:19	18	16,5	0,9	2,0	2,0	0,2	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	1,7	P-276	3	9,5	7,8	A	15:26	15:39	13	4,2	0,3	0,7	0,8	0,1	-	-	-	-	-	-	REFUSAL AT PRESSURE.
															-	-	-	-	-	-	
															-	-	-	-	-	-	

Signed: Contractor Rep. N. Trem

NICOLAS TREMBLAY, JR. ENG.

Engineer Rep

Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2018-12-30

PROJECT WTD - Amaruq **Operator:** Francois Pichette **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	EFF. PRESSURE		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4,0	P-264	1	17,8	13,8	A	07:23	07:37	14	21,6	1,5	3,9	3,9	1,2	39		1,665			20,5	REFUSAL AT PRESSURE.
	4,0	P-264	2	13,8	9,8	A	07:44	08:07	23	63	2,7	2,2	2,2	0,8	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	1,5	P-264	3	9,8	8,3	A	08:14	08:27	13	3	0,2	0,8	0,8	0,0	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	4,0	P-252	1	17,5	13,5	A	08:35	09:07	32	180	5,6	3,8	3,8	0,2	39	-	1,67	-	-	20,3	REFUSAL AT PRESSURE.
	4,0	P-252	2	13,5	9,5	A	09:16	09:33	17	9,6	0,6	2,0	2,0	0,0	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	1,8	P-252	3	9,5	7,7	A	09:40	09:53	13	2,6	0,2	0,7	0,7	0,0	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	4,0	S-402	2	19,5	15,5	A	13:16	13:30	14	10,2	0,7	3,4	3,4	0,8	-	-	-	-	-	-	THE HOLE HAS BEEN DRILLED TO 20,3M BUT THE TIME WE INJECTED IT, IT WHEN BACK TO 19,5M. SO WE DID THE RE-GROUT AT THE SAME STAGE ELEVATION THEN LAST TIME. REFUSAL AT PRESSURE FOR BOTH STAGE.
	4,3	S-402	3	15,5	11,2	A	13:40	13:50	10	6,2	0,6	1,6	1,6	0,1	41	-	1,665	-	-	20,1	
	4,0	S-390	1	20,5	16,5	A	14:36	15:01	25	370	14,8	4,2	0,0	22,0	-	-	-	-	-	-	
						C	15:01	15:27	26	565	21,7		0,0	24,0	67	-	-	-	-	16	
						D	15:27	15:47	20	505	25,3		0,4	21,0	-	-	-	-	-	-	
						D+	15:47	16:14	27	500	18,5		2,0	15,0	-	-	-	-	-	-	
						F	16:14	16:43	29	185	6,4		4,5	1,2	>22	-	1,76	-	-	17,8	REFUSAL AT PRESSURE.
															-	-	-	-	-	-	

Signed: Contractor Rep. NICOLAS TREMBLAY, JR. ENG.

Engineer Rep

Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2018-12-31

PROJECT WTD - Amaruq **Operator:** Francois Pichette **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	EFF. PRESSURE		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	3,5	S-390	2	16,0	12,5	A	07:11	07:24	13	3	0,2	2,5	2,5	0,0	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	1,6	S-390	3	12,5	10,9	A	07:28	07:41	13	2,2	0,2	1,1	1,1	0,0	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	5,0	S-378	2	18,3	13,3	A	08:41	09:11	30	370	12,3	2,8	0,0	23,0	34	-	1,67	-	-	18,1	BROKEN PACKER AT 14,3M SO WE LIFT IT UP OF 1M.
						C	09:11	09:40	29	700	24,1		0,0	20,0	75	-	1,66	-	-	13,1	
						D	09:40	10:02	22	510	23,2		0,2	20,0	110	-	-	-	-	13,9	
						D+	10:02	11:24	82	868	10,6		2,8	4,0	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	1,9	S-378	3	13,3	11,4	A	13:54	14:05	11	2,5	0,2	1,2	1,2	0,0	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	4,0	S-366	1	26,0	22,0	A	14:23	14:37	14	30	2,1	4,8	4,8	0,6	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	4,0	S-366	2	22,0	18,0	A	14:50	15:04	14	18	1,3	3,1	3,1	0,8	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	1,5	S-366	3	18,0	16,5	A	15:12	12:25	13	6	0,5	1,8	1,9	0,2	-	-	-	-	-	-	REFUSAL AT PRESSURE.
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	

Signed: Contractor Rep. NICOLAS TREMBLAY, JR. ENG. Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-01

PROJECT WTD - Amaruq **Operator:** Francois Pichette **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	7,4	S-354	1-2	22,4	15,0	A	07:19	07:46	27	270	10,0	2,6	0,0	15,0	27	12,3	1,655	-	-	18,5	HOLE BLOCK AT 15M BUT DRILLED AT 22,4M
						C	07:46	08:25	39	370	9,5		2,6	1,8	117	2,2	1,67	-	-	19	REFUSAL AT PRESSURE
	2,0	S-354	3	15,0	13,0	A	08:46	08:58	12	9	0,8	1,3	1,3	0,3	-	-	-	-	-	-	REFUSAL AT PRESSURE
	4,0	S-342	1	21,6	17,6	A	09:11	09:29	18	5,5	0,3	4,3	4,3	0,0	-	-	-	-	-	-	REFUSAL AT PRESSURE
	4,0	S-342	2	17,6	13,6	A	09:37	10:15	38	575	15,1	2,6	0,0	21,0	28	7,8	1,66	-	-	16,5	
						B	10:15	11:50	95	895	9,4		2,6	0,2	34	2,7	1,635	-	-	14	REFUSAL AT PRESSURE
	1,9	S-342	3	13,6	11,7	A	13:50	14:04	14	2,4	0,2	1,2	1,2	0,0	-	-	-	-	-	-	
	4,0	S-330	1	20,3	16,3	A	14:45	15:13	28	138	4,9	4,1	4,1	1,2	-	-	-	-	-	-	REFUSAL AT PRESSURE
	4,0	S-330	2	16,3	12,3	A	15:24	15:35	11	6	0,5	2,4	2,4	0,2	-	-	-	-	-	-	REFUSAL AT PRESSURE
	1,9	S-330	3	12,3	10,4	A	15:42	15:58	16	12	0,8	1,0	1,0	0,1	-	-	-	-	-	-	REFUSAL AT PRESSURE
	2,0	S-318	1	18,4	16,4	A	16:04	16:18	14	13,5	1,0	3,9	3,9	0,3	-	-	-	-	-	-	REFUSAL AT PRESSURE
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	

Signed: Contractor Rep. 

NICOLAS TREMBLAY, JR. ENG.

Engineer Rep _____

Client Rep _____

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-02

PROJECT WTD - Amaruq **Operator:** Francois Pichette **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4,0	S-318	2	14,3	10,3	A	10:12	10:26	14	9,4	0,7	2,2	2,2	0,3	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	2,0	S-318	3	10,3	8,3	A	10:33	10:44	11	1,3	0,1	0,8	0,8	0,1	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	4,0	S-306	1	17,1	13,1	A	13:15	13:27	12	16,1	1,3	3,9	4,0	0,8	30	6,80%	1,695	-	-	18,6	REFUSAL AT PRESSURE.
	4,0	S-306	2	13,1	9,1	A	13:35	13:48	13	2,8	0,2	2,1	2,1	0,1	28	5,00%	1,67	-	-	14,6	REFUSAL AT PRESSURE.
	2,4	S-306	3	9,1	6,7	A	13:56	14:07	11	2,5	0,2	0,7	0,7	0,2	-	-	-	-	-	-	REFUSAL AT PRESSURE.
						A	14:22	14:54	32	350	10,9		0,0	19,0	-	-	-	-	-	-	
	4,0	S-294	1	17,3	13,3	B	14:54	15:05	11	250	22,7	3,8	0,0	23,0	33	-	1,645	-	-	14,5	
						C	15:05	15:37	32	373	11,7		3,8	0,1	59	-	1,655	-	-	21,2	REFUSAL AT PRESSURE.
	4,0	S-294	2	13,3	9,3	A	15:49	16:03	14	4	0,3	2,1	2,1	0,1	-	-	-	-	-	-	REFUSAL AT PRESSURE.
	1,7	S-294	3	9,3	7,6	A	16:09	16:20	11	0,6	0,1	0,7	0,7	0,0	-	-	-	-	-	-	REFUSAL AT PRESSURE.
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	

Signed: Contractor Rep. NICOLAS TREMBLAY, JR. ENG. Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-03

PROJECT WTD - Amaruq **Operator:** François Pichette **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)							Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(Bar)	(Bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4	S-282	1	17.5	13.5	A	10:06	10:22	16	21.5	3.8	3.8	0.5	-	-	-	-	-	-	Refusal at pressure
	4		2	13.5	9.5	A	10:28	10:44	16	32.5	2	2	0.7	-	-	-	-	-	-	Refusal at pressure
	1.6		3	9.5	7.9	A	10:50	11:01	11	8.4	0.7	0.7	0.1	-	-	-	-	-	-	Refusal at pressure
	4	S-270	1	17.2	13.2	A	11:08	11:34	26	131.3	3.8	3.8	0.2	-	-	-	-	-	-	Refusal at pressure
	4		2	13.2	9.2	A	13:27	14:05	38	400	2	0	28	29	7.6	1.665			17	
						B	14:05	14:40	35	830		2	0	33	2.2	1.66			22.4	Refusal at pressure
	1.7		3	9.2	7.5	A	14:48	14:59	11	2	0.7	0.9	0	-	-	-	-	-	-	Refusal at pressure
	4	S-258	1	17.2	13.2	A	15:29	15:44	15	19.9	3.6	3.6	0.2	-	-	-	-	-	-	Refusal at pressure
	4		2	13.2	9.2	A	15:52	16:06	14	11.3	1.9	1.9	0.4	-	-	-	-	-	-	Refusal at pressure
	1.5		3	9.2	7.7	A	16:14	16:26	12	4.7	0.6	0.6	0.2	-	-	-	-	-	-	Refusal at pressure

Signed: Contractor Rep. *Louis Simard* Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-04

PROJECT WTD - Amaruq **Operator:** François Pichette **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)							Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(Bar)	(Bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4	S-240	1	17.1	13.1	A	07:18	07:45	27	42.4	3.7	3.7	0.5	28	6.2	1.68	-	-	33.8	Refusal at pressure
	4		2	13.1	9.1	A	07:54	08:07	13	7.4	2	2	0	-	-	-	-	-	-	Refusal at pressure
	1.8		3	9.1	7.3	A	08:14	08:25	11	2.9	1.1	1.1	0.2	-	-	-	-	-	-	Refusal at pressure
	4	S-228	1	18.3	14.3	A	08:39	09:07	28	49	3.8	3.8	0.3	27	-	1.68	-	-	29.5	Refusal at pressure
	4		2	14.3	10.3	A	09:16	09:43	27	99.5	2.1	2.1	0.1	-	-	-	-	-	-	Refusal at pressure
	0.88		3	10.3	9.4	A	09:54	10:07	11	2.6	0.7	0.7	0.2	-	-	-	-	-	-	Refusal at pressure
	4	S-216	1	18.5	14.5	A	10:34	11:10	36	163.4	3.8	3.8	0	-	-	-	-	-	-	Refusal at pressure
	4		2	14.5	10.5	A	11:20	11:31	11	9.6	2.1	2.1	0.2	-	-	-	-	-	-	Refusal at pressure
	1.5		3	10.5	9.0	A	11:39	11:49	10	3.4	0.8	0.8	0.1	-	-	-	-	-	-	Refusal at pressure

Signed: Contractor Rep. *Louis Simard* Engineer Rep _____ Client Rep _____

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-05

PROJECT WTD - Amaruq **Operator:** François Pichette **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)							Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(Bar)	(Bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4	P-204	1	18.5	14.5	A	07:22	07:47	25	320	3.8	0	21							
						B	07:47	0.811111	11	200		0	22							
						C	07:48	08:18	30	370		0	21							
						D	08:18	08:35	17	340		0	20	90		1.695	0		32.1	
						F	08:35	08:51	16	340		0	22							
						E	08:51	09:17	26	557		0.5	21							Total 2127 litres
	10	P-192	3	17.4	7.4	A	10:04	10:46	42	192	0.8	0.8	1.3	34	-	1.645	-	-	22.8	
														34	-	1.61	-	-	25.1	
	10	P-180	3	17.3	7.3	A	11:03	11:43	40	304	0.7	0.7	0.4	27	8.9	1.61	-	-	24	
	4	S-378	1	21.2	17.2	A	14:10	14:47	37	211	4.2	4.2	1.5							Refusal

Signed: Contractor Rep. *Louis Simard* Engineer Rep _____ Client Rep _____

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-07

PROJECT WTD - Amaruq **Operator:** Sébastien Fleury **Shift:** **Day** X **Night**

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	EFF. PRESSURE		FLOW RATE	QUALITY CONTROL						COMMENTS
				Depth (m)							Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m	Name	Seq.	From	To	A,B,C,D	Start	End	Duration, min	(l)	(psi)	(psi)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4	P-516	1	19	15	A	07:15	07:35	20	240	3.8	0	2							
						B	07:35	08:00	25	256	3.8	3.8	3.8							Refusal
	4		2	14.9	11	A	08:09	08:26	17	152	2.1	1	19							
						B	08:26	08:48	26	102	2.1	2.1	0	34	2.2	1.7	0	-	17	Refusal
	2.4		3	10.9	9	A	09:01	09:13	12	1.2	1	1	0							Refusal
	4.5	T-501	1	18.9	14	A	09:57	10:00	13	3.6	3.8	3.7	0							Refusal
																				Bad roc at 10.5m
	4		2	14.9	11	A	10:17	10:37	20	61.3	2	2	0							Refusal
	2.6		3	10.9	8	A	10:43	10:55	12	7	1	1	0							Refusal

Signed: Contractor Rep. Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-07

PROJECT WTD - Amaruq **Operator:** Sébastien fleury **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	6.0	T-495	1	18.1	12.1	B	14:59	15:08	12	6.6		3.6	3.6	0.0	32	-	1.655	-	-	22.4	Refusal
	2.0	T-495	2	12.0	10.0	B	15:13	15:25	12	1.7		1.9	1.9	0.0							Refusal
	2.0	T-495	3	10.0	8.0	B	15:31	15:44	13	3.5		0.8	0.8	0.0							Refusal

Signed: Contractor Rep. *Louis Simard* Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-07

PROJECT WTD - Amaruq **Operator:** François Marquis **Shift:** Day / Night X

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4.0	T-465	1	18.5	14.5	B	19:38	20:09	31	460		3.7	0.0	20.0							
						C	20:09	20:59	50	368		3.7	3.7	2.1							Refusal
	4.0		2	14.5	10.5	B	21:23	22:45	82	948		1.9	1.9	1.1							Refusal
	2.2		3	10.5	8.3	B	22:56	23:07	11	2.6		0.9	0.9	0.0							Refusal

Signed: Contractor Rep. *Louis Simard* Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-08

PROJECT WTD - Amaruq **Operator:** Sébastien Fleury **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4.0	T-459	1	18.5	14.5	B	07:33	07:48	15	111.6	-	3.7	3.7	0.0							Refusal
	4.0	T-459	2	14.5	10.5	B	08:00	08:19	19	60.5	-	2.0	2.0	0.0							Refusal
	2.0	T-459	3	10.5	8.3	B	09:51	10:02	1	0.9	-	0.9	0.9	0.0							Refusal
	4.0	T-453	1	18.5	14.5	B	08:38	08:50	12	43.6	-	3.7	3.7	0.0							Refusal
	4.0	T-453	2	14.5	9.5	B	09:01	09:32	31	193.6	-	2.0	2.0	0.0							Up 1m bypass the packer at 180 litres. Refusal
	2.0	T-453	3	9.5	8.3	B	09:38	09:50	12	1.1	-	0.9	0.9	0.0							Refusal
	4.0	T-447	1	18.6	14.6	B	10:29	10:41	12	23.2	-	3.7	3.7	1.0							Refusal
	4.0	T-447	2	14.6	10.6	B	10:48	11:00	12	22.6	-	1.9	1.9	1.2							Refusal
	2.2	T-447	3	10.6	8.4	B	11:05	11:45	40	143.1	-	1.0	1.0	0.0	31	4.9	1.65	-	-	23	Refusal
	4.0	T-441	1	18.7	14.7	B	13:55	14:18	23	88.3	-	3.7	3.7	0.0							Refusal
	5.0	T-441	2	14.7	9.7	B	14:26	14:48	22	39	-	2.0	2.0	1.6							Up 1m bypass the packer at 16 litres. Refusal
	1.0	T-441	3	9.7	8.7	B	14:56	15:07	11	3.1	-	1.0	1.0	0.0							Refusal
	4.0	T-435	1	18.8	14.8	B	15:16	15:35	21	59.5	-	3.7	3.7	0.0	32	-	1.665	-	-	24.5	Refusal
	4.0	T-435	2	14.8	10.8	B	15:41	15:54	13	20.2	-	2.0	2.0	1.0							Refusal

	2.5	T-435	3	10.8	8.3	B	16:00	16:14	14	24.6	-	1.0	1.0	1.1							Refusal

Signed: Contractor Rep. *Louis Simard* Engineer Rep _____ Client Rep _____

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-09

PROJECT WTD - Amaruq **Operator:** Mael Lavoie **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4.0	T-429	1	19.2	15.2	B	07:35	07:47	12	6.8	-	3.8	3.8	0.0							Refusal
	4.0	T-429	2	15.2	11.2	B	07:53	08:04	11	7.5	-	2.0	2.0	0.0							Refusal
	2.9	T-429	3	11.2	8.3	B	08:13	08:50	37	350.2	-	1.2	0.0	12.0	32	-	1.665	-	-	24.5	
	2.9	T-429	3	11.2	8.3	C	08:50	09:04	14	180	-	1.2	0.0	14.0	56	1.1	1.66	-	-	22.5	
	2.9	T-429	3	11.2	8.3	D	09:04	09:16	12	150	-	1.2	0.0	14.0							
	2.9	T-429	3	11.2	8.3	F	09:16	09:30	14	180	-	1.2	0.9	11.8							
	2.9	T-429	3	11.2	8.3	E	09:30	09:47	17	11	-	1.2	1.2	0.0	≥ 180	0				22	Refusal at 871
	4.0	T-423	1	19.8	15.8	B	13:38	13:56	18	39.2	-	4.1	4.1	0.0							Refusal
	4.0	T-423	2	15.8	11.8	B	14:05	14:29	24	104.3	-	2.3	2.3	0.0							Refusal
	3.5	T-423	3	11.8	8.3	B	14:36	15:01	25	92.9	-	1.4	1.4	0.0							Refusal
	4.0	T-417	1	19.9	15.9	B	15:17	15:46	29	132.3	-	4.1	4.1	0.0							Refusal
	4.0	T-417	2	15.9	11.9	B	15:54	16:19	25	241	-	2.4	0.0	15.0							
	4.0	T-417	2	15.9	11.9	C	16:19	16:27	8	139	-	2.4	0.0	15.0	70	-	1.85			22	
	4.0	T-417	2	15.9	11.9	D	16:27	16:45	18	85	-	2.4	0.0	8.0							
	4.0	T-417	2	15.9	11.9	F	16:45	17:13	28	201	-	09:36	2.4	1.10							Refusal

Signed: Contractor Rep. *Louis Simard* Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-10

PROJECT WTD - Amaruq **Operator:** Sébastien Fleury **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4.0	T-411	1	20.0	16.0	B	10:00	10:21	21	280	-	4.1	0.0	15.0							
	4.0	T-411	1	20.0	16.0	C	10:21	10:41	20	115	-	4.1	4.1	1.1							Refusal
	4.0	T-411	2	16.0	12.0	B	10:51	11:33	42	242	-	2.4	2.4	2.1							Refusal
	3.7	T-411	3	12.0	8.3	B	11:41	11:51	10	34	-	1.5	1.5	0.0							Refusal
	4.0	T-405	1	21.6	17.6	B	14:05	14:40	35	335	-	4.6	0.0	14.0							
	4.0	T-405	1	21.6	17.6	C	14:40	14:57	17	245	-	4.6	1.2	15.0	74	-	1.675	-	-	21.3	
	4.0	T-405	1	21.6	17.6	D	14:57	15:48	51	522	-	4.6	0.0	0.0	+180	-	1.705	-	-	20.8	Refusal
	4.0	T-405	2	17.6	13.6	B	16:00	16:21	21	118	-	2.8	2.8	2.0							Refusal
	5.3	T-405	3	13.6	8.3	B	16:29	16:45	16	48	-	2.0	2.0	1.0							Refusal

Signed: Contractor Rep. *Louis Simard* Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-11

PROJECT WTD - Amaruq **Operator:** Mael Lavoie **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4.0	T-267	1	17.5	13.5	B	12:20	12:41	21	55	1.0	4.0	4.0	0.8							Refusal
	4.0	T-267	2	13.5	9.5	B	12:47	13:02	13	17.8	-	2.3	2.3	0.0							Refusal
	2.0	T-267	3	9.5	7.5	B	13:12	14:21	69	446	-	1.6	1.6	0.0	37	-	1.705	-	-	20.4	Refusal at 446 litres
	2.0	P-204	3	10.6	8.6	B	15:00	15:12	12	6.3	-	0.9	0.9	0.0	34		1.68	-	-	24.8	Refusal
	6.0	T-399	1	19.9	13.9	B	16:17	16:51	34	375	-	3.7	0.0	16.8	33	-	1.68	-	-	26.7	
	2.0	T-399	1	19.9	13.9	C	16:51	18:10	79	270	-	3.7	3.7	3.1	59	-	1.685	-	-	22.1	Up 1m bypass over the packer lost 450 litres.
															72	-	1.675	-	-	22.6	Refusal at 1101 litres
		T-399	2	13.9	11.9	B	18:16	18:27	11	16.4	-	2.0	2.0	1.8							Refusal
	2.0	T-399	3	11.9	9.9	B	18:31	18:41	10	5.2	-	1.5	1.5	0.0							Refusal

Signed: Contractor Rep. Louis Simard Engineer Rep _____ Client Rep _____

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-11

PROJECT WTD - Amaruq **Operator:** François Marquis **Shift:** Day / Night X

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4.0	P-204	2	14.6	10.6	B	02:06	02:33	27	411		2.3	0.0	17.0							
						C	02:33	02:51	28	297		2.3	0.0	17.0							
						D	02:51	04:00	69	1305		2.3	2.0	10.0							Total 2013 litres

Signed: Contractor Rep. *Louis Simard* Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-13

PROJECT WTD - Amaruq **Operator:** Sébastien Fleury **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4.0	T-393	1	20.2	16.2	B	14:28	14:57	29	53.3	4.0	4.0	4.0	0.0							Refusal
			2	16.2	12.2	B	15:09	15:36	27	128.3	2.2	2.2	2.2	0.6	34	-	1.67	-	-	10.6	Refusal
			3	12.2	10.2	B	15:46	16:01	15	3	1.2	1.2	1.2	0.0							Refusal

Signed: Contractor Rep. *Louis Simard* Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-14

PROJECT WTD - Amaruq **Operator:** Mael Lavoie **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4.0	T-387	1	21.2	17.2	B	07:01	07:48	38	291.4		4.4	4.5	0.0							refusal
	4.0	T-387	2	17.2	13.2	B	07:57	08:13	21	25.6		2.6	2.7	0.0							refusal
	2.1	T-387	3	13.2	11.1	B	08:18	08:35	17	26.7		1.2	1.3	0.1							refusal
	4.0	T-381	1	21.1	17.1	B	09:17	09:48	31	242		4.2	4.1	0.0	46	1.3	1.64	-	-	7.7	refusal
	6.0	T-381	2, 3	17.1	11.1	B	10:03	12:05	2h02	281.9		2.5	2.4	0.1							Bypass over the packer, stage 2 and 3 at the same time.
	4.0	T-375	1	21.7	17.7	B	14:13	14:51	38	465		4.7	3.8	0.0	32	-	1.665	-	-	13.5	refusal
						B									32	-	1.665	-	-	17.6	
						B									31	-	1.665	-	-	19.8	
	4.0	T-375	2	17.7	13.7	B	15:00	15:30	30	151		2.9	2.9	0.0	32	-	1.66	-	-	14.8	refusal
	2.0	T-375	3	13.7	11.7	B	15:41	15:59	19	79.3		1.8	1.7	0.0	33	-	1.665	-	-	14.3	refusal

Signed: Contractor Rep. *Louis Simard* Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-15

PROJECT WTD - Amaruq **Operator:** Mael Lavoie **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4.0	T-357	1	23.7	19.7	B	09:41	10:33	52	294.7		5.1	5.1	0.1							Refusal
	7.3	T-357	2,3	19.7	12.4	B	15:31	16:04	33	185.5		2.3	2.3								Stage 2 bypass the packer, stage 2 and 3 at the same time. Refusal
	4.0	T-351	1	22.4	18.4	B	16:18	16:50	32	29.7		4.8	4.8								Refusal

Signed: Contractor Rep. *Louis Simard* Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-16

PROJECT WTD - Amaruq **Operator:** Mael Lavoie **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4.0	T-351	2	18.4	12.4	B	06:50	07:14	24	175.5		3.1	0.3								
	2.0	T-351	3	14.4	12.4	B	07:47	08:03	16	33		3.1									
	4.0	T-345	1	21.9	17.9	B	08:17	08:43	26	75.6		4.5	4.5								
	4.0	T-345	2	17.9	13.9	B	09:18	09:32	26	62.9		2.8	2.9		43	-	1.66			13.6	
	2.0	T-345	3	13.9	11.9	B	09:18	09:32	14	10		1.8	1.9								
	4.0	T-369	1	23.6	19.6	B	10:09	10:35	26	82.4		3.7	3.7								
	4.0		2	19.6	15.6	B	10:42	10:53	13	16		1.9	1.9								
	2.0		3	15.6	13.6	B	10:59	11:10	11	12		1.6	1.6								
	4.0	T-339	1	21.7	17.7	B	14:10	14:23	13	9.4		4.5	4.5	0.4	33		1.64	-	-	17.3	
	5.0		2	17.3	12.7	B	14:29	15:41	72	386.5		2.7	2.7								
	1.3		3	12.7	11.4	B	15:47	16:00	13	10.1		1.8	1.7								
	4.0	T-333	1	21.0	17.0	B	16:14	16:32	33	28.2		4.5	4.5								

Signed: Contractor Rep. *Louis Simard* Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-17

PROJECT WTD - Amaruq **Operator:** Mael Lavoie **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4,0	T-333	2	17,0	13,0	B	06:50	07:21	31	188	6,1	2,7	2,6	0,0	34	-	1,65	-	-	17,4	REFUSAL AT PRESSURE
	2,0	T-333	3	13,0	11,0	B	07:27	07:57	30	95	3,2	1,8	1,8	0,0	-	-	-	-	-	-	REFUSAL AT PRESSURE
	4,0	T-327	1	18,5	14,5	B	08:08	08:44	36	300	8,3	3,8	3,2	5,0	-	-	-	-	-	-	BY PASS OVER THE PACKER, SWITCH TO STAGE 2
	8,0	T-327	2	18,5	10,5	B	09:48	10:16	28	48	1,7	3,8	3,8	0,0	-	-	-	-	-	-	REFUSAL AT PRESSURE
	1,6	T-327	3	10,5	8,9	B	10:20	10:32	12	2	0,2	1,3	1,3	0,1	-	-	-	-	-	-	REFUSAL AT PRESSURE
	4,0	T-321	1	18,4	14,4	B	13:17	13:33	16	70	4,4	4,0	4,0	0,8	-	-	-	-	-	-	REFUSAL AT PRESSURE
	4,0	T-321	2	14,4	10,4	B	13:38	13:46	8	77	9,6	2,3	0,0	15,0	-	-	-	-	-	-	BY PASS OVER THE PACKER, RAISED IT UP OF 1M.
	5,0	T-321	2B	14,4	9,4	B	13:50	14:20	30	215	7,2	2,3	2,3	0,8	-	-	-	-	-	-	REFUSAL AT PRESSURE
	0,8	T-321	3	9,4	8,6	B	14:23	14:33	10	7	0,7	1,3	1,3	0,4	-	-	-	-	-	-	REFUSAL AT PRESSURE
	4,0	T-291	1	16,9	12,9	B	15:30	15:44	14	18	1,3	3,7	3,6	0,6	-	-	-	-	-	-	REFUSAL AT PRESSURE
	4,0	T-291	2	12,9	8,9	B	15:49	16:05	16	28,6	1,8	1,9	1,9	0,0	-	-	-	-	-	-	REFUSAL AT PRESSURE
	2,0	T-291	3	8,9	6,9	B	16:09	16:20	11	10,8	1,0	1,2	1,1	0,40	-	-	-	-	-	-	REFUSAL AT PRESSURE

Signed: Contractor Rep. NICOLAS TREMBLAY, JR. ENG. Engineer Rep _____ Client Rep _____

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-18

PROJECT WTD - Amaruq **Operator:** Mael Lavoie **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4,0	T-297	1	16,7	12,7	B	10:20	10:46	26	101	3,9	3,6	3,6	0,5	33	8,79	1,64	-	-	19	REFUSAL AT PRESSURE
	4,0	T-297	2	12,7	8,7	B	11:03	11:21	18	51,7	2,9	1,8	1,8	0,9	-	-	-	-	-	-	REFUSAL AT PRESSURE
	2,0	T-297	3	8,7	6,7	B	11:25	12:10	45	465	10,3	1,1	0,4	12,0	34	-	1,64	-	-	19,6	
						C	12:10	12:46	36	216	6,0		1,1	0,7	57	-	1,66	-	-	19,2	REFUSAL AT PRESSURE
	4,0	S-246	1	17,7	13,7	B	15:07	15:27	20	63,5	3,2	3,9	4,0	1,0	-	-	-	-	-	-	REFUSAL AT PRESSURE
	4,0	S-246	2	13,7	9,7	B	15:35	15:51	16	24,2	1,5	2,2	2,1	0,6	-	-	-	-	-	-	REFUSAL AT PRESSURE
	2,2	S-246	3	9,7	7,5	B	16:01	16:16	15	14,4	1,0	1,2	1,2	0,4	-	-	-	-	-	-	REFUSAL AT PRESSURE
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	
															-	-	-	-	-	-	

Signed: Contractor Rep. NICOLAS TREMBLAY, JR. ENG. Engineer Rep _____ Client Rep _____

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-19

PROJECT WTD - Amaruq **Operator:** Mael Lavoie **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4,0	S-234	1	18,8	14,8	B	06:54	07:24	30	236	7,9	4,1	1,0	20,0	32	-	1,65	-	-	19,6	
						C	07:24	08:28	64	595	9,3		4,0	2,0	58	-	1,67	-	-	19,2	REFUSAL AT PRESSURE
	4,0	S-234	2	14,8	10,8	B	08:33	08:56	23	34	1,5	2,4	2,4	0,6	-	-	-	-	-	-	WE ADD 28L OF WATER IN THE 100L OF MIX C THAT WAS STILL IN THE TUB. REFUSAL AT PRESSURE
	1,4	S-234	3	10,8	9,4	B	10:56	11:13	17	6	0,4	1,3	1,3	0,0	-	-	-	-	-	-	REFUSAL AT PRESSURE
	4,0	S-222	1	18,9	14,9	B	13:42	14:23	41	485	11,8	4,0	1,1	13,0	39	-	1,69	-	-	18,9	
						B									40	-	1,68	-	-	14,5	
						C	14:23	14:55	32	211	6,6		4,0	1,2	61	-	1,67	-	-	14,9	REFUSAL AT PRESSURE
	4,0	S-222	2	14,9	10,9	B	15:07	15:25	18	43,2	2,4	2,2	2,2	0,4	-	-	-	-	-	-	REFUSAL AT PRESSURE
	1,4	S-222	3	10,9	9,5	B	15:38	15:49	11	14	1,3	1,3	1,4	0,6	-	-	-	-	-	-	REFUSAL AT PRESSURE
	4,0	S-210	1	18,6	14,6	B	16:02	16:27	25	390	15,6	4,0	1,1	7,1	-	-	-	-	-	-	
						C	16:27	17:03	36	195	5,4		4,1	0,2	-	-	-	-	-	-	REFUSAL AT PRESSURE

Signed: Contractor Rep. NICOLAS TREMBLAY, JR. ENG. Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-19

PROJECT WTD - Amaruq **Operator:** Mael Lavoie **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4,0	S-210	2	14,6	10,6	B	07:21	07:51	30	37	1,2	2,3	2,3	0,3	-	-	-	-	-	-	REFUSAL AT PRESSURE
	2,2	S-210	3	10,6	8,4	B	07:56	08:10	14	5,1	0,4	1,3	1,3	0,2	-	-	-	-	-	-	REFUSAL AT PRESSURE
															-	-	-	-	-	-	
	4,0	S-198	1	18,2	14,2	B	08:54	09:17	23	60	2,6	3,9	4,0	0,2	31	-	1,645	-	-	-	REFUSAL AT PRESSURE
	4,0	S-198	2	14,2	10,2	B	09:22	10:22	60	693	11,6	2,2	0,0	21,0	33	-	1,65	-	-	-	
						C	10:22	11:22	60	523	8,7		2,2	2,0	56	-	1,66	-	-	-	REFUSAL AT PRESSURE
	2,0	S-198	3	10,2	8,2	B	11:27	12:09	36	115	3,2	1,3	1,3	0,2	-	-	-	-	-	-	REFUSAL AT PRESSURE

Signed: Contractor Rep. NICOLAS TREMBLAY, JR. ENG. Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-25

PROJECT WTD - Amaruq **Operator:** Sam Beaudin **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	3,8	T-201	1	18,4	14,6	B	07:21	08:34	73	900	12,3	4,1	0,0	20,0	33	-	-	-	-	19,5	
						B									32	-	-	-	-	20,2	
						C	08:34	10:33	119	1800	15,1		1,3	18,0	74	-	-	-	-	13,3	
						C									65	-	-	-	-	14,1	
						D	10:33	11:38	56	1092	19,5		2,0	21,0	99	-	-	-	-	9,1	
						D									120	-	-	-	-	7,8	STOP AT Qmax AT 3800L
	4,0	T-207	1	18,7	14,7	B	14:27	14:54	27	128	4,7	4,0	4,1	0,7	32	-	-	-	-	28,5	GUAGE PRESSURE AT 4,1 BAR. REFUSAL AT PRESSURE
	4,0	T-207	2	14,7	10,7	B	15:06	15:34	28	134	4,8	2,3	2,3	0,1	-	-	-	-	-	-	REFUSAL AT PRESSURE
	1,9	T-207	3	10,7	8,8	B	15:47	16:19	32	139	4,3	1,3	1,3	0,1	-	-	-	-	-	-	REFUSAL AT PRESSURE

Signed: Contractor Rep. NICOLAS TREMBLAY, JR. ENG. Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-01-26

PROJECT WTD - Amaruq **Operator:** Sam Beaudin **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	1,5	T-201	3	10,0	8,5	B	11:30	11:42	12	6,1	0,5	1,3	1,3	0,4	-	-	-	-	-	-	REFUSAL AT PRESSURE
																					STAGE 2 HAS BEEN BLOCKED DUE TO STAGE 1 BACKPRESSURE DURING THE NIGHT

Signed: Contractor Rep. NICOLAS TREMBLAY, JR. ENG. Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 30-01-2019

PROJECT WTD - Amaruq **Operator:** Sébastien Fleury **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4.0	Q-397.5	1	20.3	16.3	B	08:00	08:25	25	155		4.1	4.1	0.2							Refusal
	4.0	Q-397.5	2	16.3	12.3	B	08:36	09:11	35	310		2.4	2.4	0.0							Refusal
	2.0	Q-397.5	3	12.3	10.3	B	09:17	09:58	41	600		1.6	0.0	20.0							
		Q-397.5				C	09:58	10:25	27	450			0.0	20.0							Q max at 1050 litres no pressure
	4.0	Q-400.5	1	19.8	15.8	B	10:58	11:17	19	102		4.1	4.1	0.8							Refusal
	4.0	Q-400.5	2	15.8	11.8	B	14:59	15:36	37	500		2.3	0.0	21.0							
		Q-400.5				C	15:36	16:25	49	633		2.3	2.3	0.6							Refusal

Signed: Contractor Rep. *Louis Simard* Engineer Rep _____ Client Rep _____

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 31-01-2019

PROJECT WTD - Amaruq **Operator:** Sébastien Fleury **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4.3	Q406.5	1	20.7	17.4	B	09:06	09:31	25	100		4.1	4.1	0.9							Refusal
	4.0	Q406.5	2	17.4	13.4	B	09:40	10:04	24	92.3		2.4	2.4	0.3							Refusal
	2.0	Q406.5	3	13.4	11.4	B	10:14	10:44	30	102.2		1.7	1.7	0.2							Refusal
	2.0	Q400.5	3	9.9	7.9	B	10:50	11:00	10	0		1.7	1.7	0.0							Refusal Backflow in casing , hole can't be done.
	4.0	Q403.5	1	20.2	16.2	B	13:11	13:43	32	119		3.9	3.9	2.4							Refusal
	5.5	Q403.5	2	16.2	10.7	B	13:51	14:23	32	125.8		2.1	2.1	1.4							Up 1.5m bypass the packer, Refusal
	0.7		3	10.7	10.0	B	14:29	14:41	12	4.1		1.7	1.7	0.0							Refusal

Signed: Contractor Rep. *Louis Simard* Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 31-01-2019

PROJECT WTD - Amaruq **Operator:** Sébastien Fleury **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4.0	Q466.5	1	18.2	14.2	B	15:40	16:08	28	158		3.8	3.8	0.0							Refusal
	4.0	Q466.5	2	14.2	10.2	B	16:15	16:32	17	51.7		2.1	2.1	0.0							Refusal
	2.0	Q466.5	3	10.2	8.2	B	16:40	17:00	20	59.3		1.3	1.3								Refusal

Signed: Contractor Rep. *Louis Simard* Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG **QC Rep:** GHD **Date:** 2019-02-01

PROJECT WTD - Amaruq **Operator:** Sébastien Fleury **Shift:** Day X Night

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LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm^3)	Initial Set	Final Set	(°C)	
	4.0	Q-463.5	1	18.4	14.4	B	07:46	09:00	74	504.8		3.9	3.9	0.3							Refusal
	4.0	Q-463.5	2	14.4	10.4	B	09:06	09:21	15	21.3		2.1	2.1	0.0							Refusal
	2.0	Q-463.5	3	10.4	8.4	B	09:26	09:49	23	67.6		1.3	1.3	0.3							Refusal

Signed: Contractor Rep. *Louis Simard* Engineer Rep Client Rep

GROUTING APPLICATION RECORD

CONTRACTOR: KCG | QC Rep: GHD | Date: 10-02-19

PROJECT: WTD - Amaruq | Operator: S - Fleury | Shift: Day / Night | Page: of

LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm³)	Initial Set	Final Set	(°C)	
	4	199.5	2	14	10	B	7:02	7:46	4/4	324		2.2	0	16.5							
		0				C	7:46	8:16	30	233		2.2	1.1	13							
						D	8:16	8:40	34	120		2.2	2.4	3							Bypass
																					1m refusal - 679 L
	2.7	199.5	3	10	8.8	B	8:48	9:00	12	83		1.8	1.4	1.3							refusal
	4	202.5	2	14	10	B	9:10	9:40	30	80.7		2.2	2.3								refusal
	2.5	202.5	3	10	9.5	B	9:45	10:01	16	30.2		1.4	1.3	0.2							refusal

Signed: Contractor Rep. Leann Simard / Jennot Cayen | Engineer Rep _____ | Client Rep _____

GROUTING APPLICATION RECORD

CONTRACTOR: KCG | QC Rep: GHD | Date: 12-02-19

PROJECT: WTD - Amaruq | Operator: S. Fleury | Shift: Day / Night | Page: of

LUGEON DATA		HOLE I.D.				MIX	INJECTON PERIOD			VOL. INJECTED	AVE. FLOW RATE	TARGET PRESS.		FINAL FLOW RATE	QUALITY CONTROL						COMMENTS
		Name	Stage	Depth (m)								Defined	Final		Marsh	Bleed	Density	Vicat		Temp	
Lu	ΔL, m			From	To	A,B,C,D	Start	End	Duration, min	(l)	(lpm)	(bar)	(bar)	(lpm)	(sec)	(%)	(g/cm³)	Initial Set	Final Set	(°C)	
	4	2M9.5	1	18.5	14.5	B	13:47	14:10	23	102.4		4.0	4.08	1.2							refusal
	4	2M9.5	1	18.5	14.5	B	14:17	14:50	33	193.0		3.9	4.02	1.4							refusal

Signed: Contractor Rep. Louis Simard | Engineer Rep | Client Rep

KIVALLIQ CONTRACTORS GROUP LTD

WATER PRESSURE TEST RECORD

Grouting Plant: C-243 **Date:** 2019-01-06

Hole ID: P-516

Project: Amuruq **Interval, m:** **From:** 18,9 **To:** 14,9 **Day:** ☒

Location: Whale Tail Dike **Hole Stage:** S-1 **Night:** ☐

Casing Lenght, m:

Ground Water El, m: 152,3 **Gauge Height Above Ground Surface, m:** 1,3 **Temp, C:**

Target Pressure Stage	Recorded Gauge Pressure [bar]	Actual time (Hr:Min:Sec)	Min	Flowmeter Reading [l]	Average Flow Rate [l/min]	Actual Pressure [bar]	Lu	Remarks
P1	1,30	14:54	0		9,8	1,93	-12,69	
		14:55	1		10,1	1,93		
		14:56	2		9,9	1,93		
		14:57	3		10,8	1,93		
		14:58	4		15,7	1,93		
1/3 P max		14:59	5		16,8	1,93		
P2	2,50	15:00	0		22,00	3,13	-17,57	
		15:01	1		22,30	3,13		
		15:02	2		22,10	3,13		
		15:03	3		24,80	3,13		
		15:04	4		25,00	3,13		
2/3 P max		15:05	5		25,40	3,13		
P3	3,8	15:06	0		36,30	4,43	-20,49	
		15:07	1		35,20	4,43		
		15:08	2		38,10	4,43		
		15:09	3		36,00	4,43		
		15:10	4		35,00	4,43		
P max		15:11	5		34,90	4,43		
P4	2,50	15:11	0		25,50	3,13	-20,37	
		15:12	1		25,30	3,13		
		15:13	2		24,90	3,13		
		15:14	3		25,90	3,13		
		15:15	4		26,10	3,13		
2/3 P max		15:16	5		26,10	3,13		
P5	1,30	15:16	0		22,10	1,93	-28,63	
		15:17	1		20,90	1,93		
		15:18	2		20,70	1,93		
		15:19	3		20,60	1,93		
		15:20	4		20,90	1,93		
1/3 P max		15:21	5		21,00	1,93		
Average Lugeon Value							**-19,95**	

Contractor Rep _____

Engineer Rep _____

Client Rep _____

KIVALLIQ CONTRACTORS GROUP LTD

WATER PRESSURE TEST RECORD

Grouting Plant: C-243 **Date:** 2019-01-06

Hole ID: P-516

Project: Amuruq **Interval, m:** **From:** 14,9 **To:** 10,9 **Day:** ☒

Location: Whale Tail Dike **Hole Stage:** S-2 **Night:** ☐

Casing Lenght, m:

Ground Water El, m: 152,3 **Gauge Height Above Ground Surface, m:** 1,3 **Temp, C:**

Target Pressure Stage	Recorded Gauge Pressure [bar]	Actual time (Hr:Min:Sec)	Min	Flowmeter Reading [l]	Average Flow Rate [l/min]	Actual Pressure [bar]	Lu	Remarks
P1	1,40	16:00	0		70	2,03	-86,21	
		16:01	1		75	2,03		
		16:02	2		74,7	2,03		
		16:03	3		70,5	2,03		
		16:04	4		71	2,03		
1/3 P max		16:05	5		70	2,03		
P2	1,40	16:05	0		74,50	2,03	-91,75	
		16:06	1		74,00	2,03		
		16:07	2		75,10	2,03		
		16:08	3		74,70	2,03		
		16:09	4		75,00	2,03		
2/3 P max		16:10	5		74,60	2,03		
P3	2,1	16:10	0		96,00	2,73	-87,91	
		16:11	1		88,40	2,73		
		16:12	2		96,50	2,73		
		16:13	3		91,70	2,73		
		16:14	4		92,00	2,73		
P max		16:15	5		94,30	2,73		
P4	1,40	16:15	0		76,00	2,03	-93,60	
		16:16	1		78,00	2,03		
		16:17	2		74,90	2,03		
		16:18	3		75,00	2,03		
		16:19	4		75,00	2,03		
2/3 P max		16:20	5		78,00	2,03		
P5	0,70	16:20	0		66,00	1,33	-124,06	
		16:21	1		67,00	1,33		
		16:22	2		64,30	1,33		
		16:23	3		66,80	1,33		
		16:24	4		67,00	1,33		
1/3 P max		16:25	5		68,00	1,33		
Average Lugeon Value							**-96,70**	

Contractor Rep _____

Engineer Rep _____

Client Rep _____

KIVALLIQ CONTRACTORS GROUP LTD

WATER PRESSURE TEST RECORD

Grouting Plant: C-243 **Date:** 2019-01-06

Hole ID: P-516

Project: Amuruq **Interval, m:** **From:** 10 **To:** 8 **Day:** ☒

Location: Whale Tail Dike **Hole Stage:** S-3 **Night:** ☐

Casing Lenght, m:

Ground Water El, m: 152,3 **Gauge Height Above Ground Surface, m:** 1,3 **Temp, C:**

Target Pressure Stage	Recorded Gauge Pressure [bar]	Actual time (Hr:Min:Sec)	Min	Flowmeter Reading [l]	Average Flow Rate [l/min]	Actual Pressure [bar]	Lu	Remarks
P1	0,30	16:46	0		62	1,02	-303,92	
		16:47	1		61,8	1,02		
		16:48	2		61	1,02		
		16:49	3		61,1	1,02		
		16:50	4		61	1,02		
1/3 P max		16:51	5		61	1,02		
P2	0,70	16:51	0		75,00	1,42	-264,08	
		16:52	1		75,00	1,42		
		16:53	2		74,00	1,42		
		16:54	3		75,00	1,42		
		16:55	4		74,50	1,42		
2/3 P max		16:56	5		74,80	1,42		
P3	1,0	16:56	0		75,00	1,72	-218,02	
		16:57	1		76,00	1,72		
		16:58	2		77,00	1,72		
		16:59	3		75,90	1,72		
		17:00	4		75,10	1,72		
P max		17:01	5		76,00	1,72		
P4	0,70	17:01	0		72,00	1,42	-253,52	
		17:02	1		70,00	1,42		
		17:03	2		69,00	1,42		
		17:04	3		71,00	1,42		
		17:05	4		71,00	1,42		
2/3 P max		17:06	5		71,00	1,42		
P5	0,30	17:06	0		55,00	1,02	-269,61	
		17:07	1		55,80	1,02		
		17:08	2		55,00	1,02		
		17:09	3		56,00	1,02		
		17:10	4		56,00	1,02		
1/3 P max		17:11	5		55,00	1,02		
Average Lugeon Value							**-261,83**	

Contractor Rep _____

Engineer Rep _____

Client Rep _____

KIVALLIQ CONTRACTORS GROUP LTD

WATER PRESSURE TEST RECORD

Grouting Plant: C-243 **Date:** 02-01-2019

Hole ID: 306

Project: Amuruq **Interval, m:** **From:** 13,1 **To:** 17,1 **Day:** ☒

Location: Whale Tail Dike **Hole Stage:** #1 **Night:** ☐

Casing Lenght, m: 6,7

Ground Water El, m: 152,3 **Gauge Height Above Ground Surface, m:** 1,3 **Temp, C:** -33

Target Pressure Stage	Recorded Gauge Pressure [bar]	Actual time (Hr:Min:Sec)	Min	Flowmeter Reading [l]	Average Flow Rate [l/min]	Actual Pressure [bar]	Lu	Remarks
P1	1,40	07:09	0	0,3	6,24	2,04	7,65	
1,63								
1/3 P max		07:14	5	31,5				
P2	3,30	07:17	0	0,1	4,26	3,94	2,70	
3,3								
2/3 P max		07:22	5	21,4				
P3	4,9	07:26	0	0,1	4,26	5,54	1,92	
4,9								
P max		07:31	5	21,4				
P4	3,30	07:36	0	0	1,74	3,94	1,10	
3,3								
2/3 P max		07:41	5	8,7				
P5	1,60	07:45	0	0,1	1,28	2,24	1,43	
1,63								
1/3 P max		07:50	5	6,5				
Average Lugeon Value							**2,96**	

Contractor Rep _____
Nicolas Tremblay, Jr. Eng

Engineer Rep _____

Client Rep _____

KIVALLIQ CONTRACTORS GROUP LTD

WATER PRESSURE TEST RECORD

Grouting Plant: C-243 **Date:** 02-01-2019

Hole ID: 306

Project: Amuruq **Interval, m:** From: 9,1 To: 13,1 **Day:** ☒

Location: Whale Tail Dike **Hole Stage:** #2 **Night:** ☐

Casing Lenght, m: 6,7

Ground Water El, m: 152,3 **Gauge Height Above Ground Surface, m:** 1,3 **Temp, C:** -33

Target Pressure Stage	Recorded Gauge Pressure [bar]	Actual time (Hr:Min:Sec)	Min	Flowmeter Reading [l]	Average Flow Rate [l/min]	Actual Pressure [bar]	Lu	Remarks
P1		08:31	0	0,1				
0,96	0,70				7,68	1,34	14,33	
1/3 P max		08:36	5	38,5				
P2		08:38	0	0,1				
1,93	1,00				16,78	1,64	25,58	
2/3 P max		08:43	5	84				
P3		08:46	0	0,1				
2,90	0,8				25,38	1,44	44,06	
P max		08:51	5	127				
P4		08:53	0	133				
1,93	0,45				22,40	1,09	51,38	
2/3 P max		08:58	5	245,0				
P5		09:00	0	0,1				
0,96	0,76				4,78	1,40	8,54	
1/3 P max		09:05	5	24				
Average Lugeon Value							**28,78**	

Contractor Rep

Nicolas Tremblay, Jr. Eng

Engineer Rep

Client Rep

KIVALLIQ CONTRACTORS GROUP LTD

WATER PRESSURE TEST RECORD

Grouting Plant: C-243 **Date:** 02-01-2019

Hole ID: 306

Project: Amuruq **Interval, m:** **From:** 6,8 **To:** 9,1 **Day:** ☒

Location: Whale Tail Dike **Hole Stage:** #3 **Night:** ☐

Casing Lenght, m: 6,7

Ground Water El, m: 152,3 **Gauge Height Above Ground Surface, m:** 1,3 **Temp, C:** -33

Target Pressure Stage	Recorded Gauge Pressure [bar]	Actual time (Hr:Min:Sec)	Min	Flowmeter Reading [l]	Average Flow Rate [l/min]	Actual Pressure [bar]	Lu	Remarks
P1		09:30	0	0				
0,4	0,35				7,00	0,98	31,06	
1/3 P max		09:35	5	35				
P2		09:38	0	0				
0,80	0,56				6,20	1,19	22,65	
2/3 P max		09:43	5	31				
P3		09:44	0	0				
1,20	0,91				7,20	1,54	20,33	
P max		09:49	5	36				
P4		09:51	0	0				
0,80	0,61				6,00	1,24	21,04	
2/3 P max		09:56	5	30,0				
P5		09:58	0	0				
0,4	0,40				5,40	1,03	22,79	
1/3 P max		10:03	5	27				
Average Lugeon Value							**23,57**	

Contractor Rep

Nicolas Tremblay, Jr. Eng

Engineer Rep

Client Rep

KIVALLIQ CONTRACTORS GROUP LTD

WATER PRESSURE TEST RECORD

Grouting Plant: C-243 **Date:** 2018-12-21

Hole ID: 474

Project: Amuruq **Interval, m:** **From:** 14,1 **To:** 18,1 **Day:** ☒

Location: Whale Tail Dike **Hole Stage:** #1 **Night:** ☐

Casing Lenght, m: 8,1

Ground Water El, m: 152,3 **Gauge Height Above Ground Surface, m:** 1,3 **Temp, C:** -31

Target Pressure Stage	Recorded Gauge Pressure [bar]	Actual time (Hr:Min:Sec)	No.	Flowmeter Reading [l]	Average Flow Rate [l/min]	Actual Pressure [bar]	Lu	Remarks
P1		16:10	0	3,2				
		16:11	1	4,9				
1,5	1,44	16:12	2	5,4	0,66	2,04	0,81	
		16:13	3	6,1				
		16:14	4	6,3				
1/3 P max		16:15	5	6,5				
P2		16:18	0	1,7				
		16:19	1	2,1				
3,1	2,9	16:20	2	2,5	0,40	3,5	0,29	
		16:21	3	2,8				
		16:22	4	3,3				
2/3 P max		16:23	5	3,7				
P3		16:25	0	0,8				
		16:26	1	1,3				
4,6	4,5	16:27	2	1,5	0,34	5,1	0,17	
		16:28	3	1,7				
		16:29	4	2,1				
P max		16:30	5	2,5				
P4		16:31	0	2,6				
		16:32	1	2,8				
3,1	3,15	16:33	2	3,1	0,28	3,75	0,19	
		16:34	3	3,4				
		16:35	4	3,7				
2/3 P max		16:36	5	4,0				
P5		16:38	0	0,2				
		16:39	1	0,4				
1,5	1,64	16:40	2	0,6	0,20	2,24	0,22	
		16:41	3	0,8				
		16:42	4	1,0				
1/3 P max		16:43	5	1,2				
Average Lugeon Value							**0,33**	

Contractor Rep

Nicolas Tremblay, Jr. Eng.

Engineer Rep

Client Rep

KIVALLIQ CONTRACTORS GROUP LTD

WATER PRESSURE TEST RECORD

Grouting Plant: C-243 **Date:** 2018-12-22

Hole ID: 474

Project: Amuruq **Interval, m:** **From:** 10,1 **To:** 14,1 **Day:** ☒

Location: Whale Tail Dike **Hole Stage:** #2 **Night:** ☐

Casing Lenght, m: 8,1

Ground Water El, m: 152,3 **Gauge Height Above Ground Surface, m:** 1,3 **Temp, C:** -31

Target Pressure Stage	Recorded Gauge Pressure [bar]	Actual time (Hr:Min:Sec)	No.	Flowmeter Reading [l]	Average Flow Rate [l/min]	Actual Pressure [bar]	Lu	Remarks
P1	0,1	06:49	0	0,4	18,92	0,73	64,79	
		06:50	1	11,8				
1,0		06:51	2	34,2				
		06:52	3	52				
		06:53	4	71				
1/3 P max		06:54	5	95				
P2	0,15	06:56	0	0,2	21,56	0,78	69,10	
		06:57	1	22				
2,0		06:58	2	45				
		06:59	3	64				
		07:00	4	85				
2/3 P max		07:01	5	108				
P3	0,2	07:03	0	0,1	23,98	0,83	72,23	
		07:04	1	24				
3,0		07:05	2	48				
		07:06	3	72				
		07:07	4	96				
P max		07:08	5	120				
P4	0,1	07:10	0	0,1	22,98	0,78	73,65	
		07:11	1	23				
2,0		07:12	2	47				
		07:13	3	69				
		07:14	4	92				
2/3 P max		07:15	5	115				
P5	0,0	07:17	0	0	21,80	0,6	86,51	
		07:18	1	22				
1,0		07:19	2	44				
		07:20	3	65				
		07:21	4	87,0				
1/3 P max		07:22	5	109				
Average Lugeon Value							**73,26**	

Contractor Rep

Nicolas Tremblay, Jr. Eng.

Engineer Rep

Client Rep

KIVALLIQ CONTRACTORS GROUP LTD

WATER PRESSURE TEST RECORD

Grouting Plant: C-243 **Date:** 2018-12-22

Hole ID: 474

Project: Amuruq **Interval, m:** **From:** 8,3 **To:** 10,1 **Day:** ☒

Location: Whale Tail Dike **Hole Stage:** #3 **Night:** ☐

Casing Lenght, m: 8,1

Ground Water El, m: 152,3 **Gauge Height Above Ground Surface, m:** 1,3 **Temp, C:** -31

Target Pressure Stage	Recorded Gauge Pressure [bar]	Actual time (Hr:Min:Sec)	No.	Flowmeter Reading [l]	Average Flow Rate [l/min]	Actual Pressure [bar]	Lu	Remarks
P1		08:57	0	0				
		08:58	1	4,2				
0,5	0,35	08:59	2	7,4	3,32	0,97	19,01	
		09:00	3	10,5				
		09:01	4	13,6				
1/3 P max		09:02	5	16,6				
P2		09:05	0	0				
		09:06	1	6,2				
1,0	0,66	09:07	2	11,1	5,16	1,28	22,40	
		09:08	3	16,1				
		09:09	4	21,0				
2/3 P max		09:10	5	25,8				
P3		09:13	0	0,3				
		09:14	1	7				
1,5	1,0	09:15	2	12,6	5,76	1,62	19,75	
		09:16	3	18,1				
		09:17	4	23,5				
P max		09:18	5	29,1				
P4		09:20	0	0,8				
		09:21	1	6,1				
1,0	0,65	09:22	2	10,6	4,70	1,27	20,56	
		09:23	3	15,1				
		09:24	4	20,0				
2/3 P max		09:25	5	24,3				
P5		09:27	0	0				
		09:28	1	5				
0,5	0,31	09:29	2	8,8	4,08	0,93	24,37	
		09:30	3	12,8				
		09:31	4	16,5				
1/3 P max		09:32	5	20,4				
Average Lugeon Value							**21,22**	

Contractor Rep

Nicolas Tremblay, Jr. Eng.

Engineer Rep

Client Rep

KIVALLIQ CONTRACTORS GROUP LTD

WATER PRESSURE TEST RECORD

Grouting Plant: C-243 **Date:**

Hole ID:

Project: Amuruq **Interval, m:** **From:** 13,3 **To:** 17,3 **Day:** ☒

Location: Whale Tail Dike **Hole Stage:** 1 **Night:** ☐

Casing Lenght, m:

Ground Water El, m: 152,3 **Gauge Height Above Ground Surface, m:** 1,3 **Temp, C:**

Target Pressure Stage	Recorded Gauge Pressure [bar]	Actual time (Hr:Min:Sec)	Min	Flowmeter Reading [l]	Average Flow Rate [l/min]	Actual Pressure [bar]	Lu	Remarks
P1	1,18	09:06	0	18,70	3,74	1,81	25,83	
		09:07	1	18,80				
		09:08	2	18,50				
		09:09	3	18,80				
		09:10	4	18,50				
1/3 P max			5					
P2	2,94	09:11	0	32,00	6,4	3,57	22,41	
		09:12	1	31,20				
		09:13	2	31,30				
		09:14	3	31,00				
		09:15	4	30,80				
2/3 P max			5					
P3	4,7	09:18	0	43,20	8,64	5,33	20,26	
		09:19	1	42,60				
		09:20	2	41,60				
		09:21	3	40,80				
		09:22	4	41,10				
P max			5					
P4	2,94	09:23	0	29,90	5,98	3,57	20,94	
		09:24	1	29,10				
		09:25	2	28,90				
		09:26	3	29,30				
		09:27	4	29,50				
2/3 P max			5					
P5	1,18	09:28	0	18,70	3,74	1,81	25,83	
		09:29	1	18,70				
		09:30	2	18,60				
		09:31	3	18,60				
		09:32	4	18,60				
1/3 P max			5					
Average Lugeon Value							**23,05**	

Contractor Rep _____

Engineer Rep _____

Client Rep _____

KIVALLIQ CONTRACTORS GROUP LTD

WATER PRESSURE TEST RECORD

Grouting Plant: C-243 **Date:**

Hole ID:

Project: Amuruq **Interval, m:** **From:** 9,3 **To:** 13,3 **Day:** ☒

Location: Whale Tail Dike **Hole Stage:** 2 **Night:** ☐

Casing Lenght, m:

Ground Water El, m: 152,3 **Gauge Height Above Ground Surface, m:** 1,3 **Temp, C:**

Target Pressure Stage	Recorded Gauge Pressure [bar]	Actual time (Hr:Min:Sec)	Min	Flowmeter Reading [l]	Average Flow Rate [l/min]	Actual Pressure [bar]	Lu	Remarks
P1	0,52	09:57	0	73,20	14,64	1,15	159,13	
		09:58	1	73,00				
		09:59	2	73,60				
		10:00	3	73,10				
		10:01	4	72,40				
1/3 P max			5					
P2			0				#DIV/0!	
			1					
			2					
			3					
			4					
2/3 P max			5					
P3			0				#DIV/0!	
			1					
			2					
			3					
			4					
P max			5					
P4			0				#DIV/0!	
			1					
			2					
			3					
			4					
2/3 P max			5					
P5			0				#DIV/0!	
			1					
			2					
			3					
			4					
1/3 P max			5					
Average Lugeon Value							**#DIV/0!**	

Contractor Rep _____

Engineer Rep _____

Client Rep _____

KIVALLIQ CONTRACTORS GROUP LTD

WATER PRESSURE TEST RECORD

Grouting Plant: C-243 **Date:**

Hole ID:

Project: Amuruq **Interval, m:** **From:** 7,3 **To:** 9,3 **Day:** ☒

Location: Whale Tail Dike **Hole Stage:** 3 **Night:** ☐

Casing Lenght, m:

Ground Water El, m: 152,3 **Gauge Height Above Ground Surface, m:** 1,3 **Temp, C:**

Target Pressure Stage	Recorded Gauge Pressure [bar]	Actual time (Hr:Min:Sec)	Min	Flowmeter Reading [l]	Average Flow Rate [l/min]	Actual Pressure [bar]	Lu	Remarks
P1	0,18	10:27	0	68,80	13,76	0,81	424,69	
		10:28	1	61,00				
		10:29	2	60,90				
		10:30	3	61,10				
		10:31	4	60,80				
1/3 P max			5					
P2	0,94	10:33	0	91,50	18,3	1,57	291,40	
		10:34	1	92,10				
		10:35	2	92,00				
		10:36	3	92,20				
		10:37	4	92,00				
2/3 P max			5					
P3	0,4		0					
			1					
			2					
			3					
			4					
P max			5					
P4	0,44		0					
			1					
			2					
			3					
			4					
2/3 P max			5					
P5	0,42		0					
			1					
			2					
			3					
			4					
1/3 P max			5					
Average Lugeon Value							**358,05**	

Contractor Rep _____

Engineer Rep _____

Client Rep _____

KIVALLIQ CONTRACTORS GROUP LTD

WATER PRESSURE TEST RECORD

Grouting Plant: C-243 **Date:** 18-01-2018

Hole ID: 297

Project: Amuruq **Interval, m:** **From:** 12,7 **To:** 16,7 **Day:** ☒

Location: Whale Tail Dike **Hole Stage:** #1 **Night:** ☐

Casing Lenght, m: 6,5

Ground Water El, m: 152,3 **Gauge Height Above Ground Surface, m:** 1,3 **Temp, C:** -36

Target Pressure Stage	Recorded Gauge Pressure [bar]	Actual time (Hr:Min:Sec)	Min	Flowmeter Reading [l]	Average Flow Rate [l/min]	Actual Pressure [bar]	Lu	Remarks
P1	1,60	08:17	0	50	26,15	2,23	29,32	
1,6			1					
			2					
			3					
			4					
1/3 P max		08:22	5	177				
P2	3,20	08:26	0	42	32,10	3,83	20,95	
3,2			1					
			2					
			3					
			4					
2/3 P max		08:31	5	202				
P3	4,6	08:33	0	31	38,75	5,23	18,52	
4,7			1					
			2					
			3					
			4					
P max		08:38	5	230				
P4	3,20	08:41	0	49	27,55	3,83	17,98	
3,2			1					
			2					
			3					
			4					
2/3 P max		08:46	5	190,0				
P5	1,60	08:49	0	40	18,81	2,23	21,09	
1,6			1					
			2					
			3					
			4					
1/3 P max		08:54	5	133				
Average Lugeon Value							**21,57**	

Contractor Rep

Nicolas Tremblay, Jr. Eng

Engineer Rep

Client Rep

KIVALLIQ CONTRACTORS GROUP LTD

WATER PRESSURE TEST RECORD

Grouting Plant: C-243 **Date:** 18-01-2018

Hole ID: 297

Project: Amuruq **Interval, m:** From: 8,7 To: 12,7 **Day:** ☒

Location: Whale Tail Dike **Hole Stage:** #2 **Night:** ☐

Casing Lenght, m: 6,5

Ground Water El, m: 152,3 **Gauge Height Above Ground Surface, m:** 1,3 **Temp, C:** -36

Target Pressure Stage	Recorded Gauge Pressure [bar]	Actual time (Hr:Min:Sec)	Min	Flowmeter Reading [l]	Average Flow Rate [l/min]	Actual Pressure [bar]	Lu	Remarks
P1		09:17	0	200				
			1					
0,9	0,73		2		51,70	1,36	95,04	
			3					
			4					
1/3 P max		09:22	5	515				
P2		09:29	0	32				We stop the test after P2 because we had reach the maximum flow of the pump and can't get higher pressure.
			1					
1,8	0,75		2		51,80	1,38	93,84	
			3					
			4					
2/3 P max		09:34	5	287				
P3			0					
			1					
2,7			2					
			3					
			4					
P max			5					
P4			0					
			1					
1,8			2					
			3					
			4					
2/3 P max			5					
P5			0					
			1					
0,9			2					
			3					
			4					
1/3 P max			5					
Average Lugeon Value							**94,44**	

Contractor Rep _____

Nicolas Tremblay, Jr. Eng

Engineer Rep _____

Client Rep _____

KIVALLIQ CONTRACTORS GROUP LTD

WATER PRESSURE TEST RECORD

Grouting Plant: C-243 **Date:** 18-01-2018

Hole ID: 297

Project: Amuruq **Interval, m:** **From:** 6,7 **To:** 8,7 **Day:** ☒

Location: Whale Tail Dike **Hole Stage:** #3 **Night:** ☐

Casing Lenght, m: 6,5

Ground Water El, m: 152,3 **Gauge Height Above Ground Surface, m:** 1,3 **Temp, C:** -36

Target Pressure Stage	Recorded Gauge Pressure [bar]	Actual time (Hr:Min:Sec)	Min	Flowmeter Reading [l]	Average Flow Rate [l/min]	Actual Pressure [bar]	Lu	Remarks
P1		09:17	0	40				We stop the test after P1 because we had reach the maximum flow of the pump and can't get higher pressure.
			1					
0,4	0,54		2		51,65	1,17	220,73	
			3					
			4					
1/3 P max		09:22	5	311				
P2			0					
			1					
0,8			2					
			3					
			4					
2/3 P max			5					
P3			0					
			1					
1,2			2					
			3					
			4					
P max			5					
P4			0					
			1					
0,8			2					
			3					
			4					
2/3 P max			5					
P5			0					
			1					
0,4			2					
			3					
			4					
1/3 P max			5					
Average Lugeon Value							**220,73**	

Contractor Rep _____

Nicolas Tremblay, Jr. Eng

Engineer Rep _____

Client Rep _____

Appendix I-7

Quality Control – Daily Reports

Daily Field Report

Client: Agnico Eagle	Inspection Date: 25th july 2018
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project Nº : 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	23 ˚C

Field Results

- Sampling of Fine Filter on the Sana Crusher stock pile, located on the pad "H". 11 samples has been taken (# FF-AMQ-010 to FF-AMQ-021). Gradations tests will be done on those samples at the Meadowbank site.
- A visual inspection of the Fine Filter stock Pile, located on the pad "H" has been achieved. In total, the stock pile has 8 benches properly done to minimize the segregation and to avoid the water accumulation on the aggregate. On the North part of the first bench, there are big cobbles that are mixed with the Fine Filter. This area will need a special attention during the further loading to not load those cobbles.
- Begin of the stripping operations of the unfrozen soil of the East Abutment of the WTD. The stripping has been done between the stations 0+840 to 0+790.
- Two samples of unfrozen till has been taken during the stripping works of the East Abutment (# EA-AMQ-001 at 0+820 and EA-AMQ-002 at 0+800).Moisture content and gradation will be done on those samples.

Corrective action to be taken:

Follow up visit required: Yes ☐ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime C. and Denis-Jacques C.
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time*

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 26th of July 2018
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project N°: 11139395-B1	☐ Other (specify):
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**20˚C**

Field Results

- Stripping works at the East Abutment (from station 0+790 to 0+736). The iced till floor is thawing very well and there is not a lot of water accumulation due to high contain of sand into the till in place.
- Sampling of iced till at on the East Abutment (# EA-AMQ-003 at 0+775 & # EA-AMQ-004 at 0+765). Moisture contain and gradation will be realize on those samples.
- A visual inspection of the Coars Filter stock pile, located on the pad "H" has been done. It has 6 benches and the quantity still to be confirm. In general, the benches are too much high and not enough to limit the segregation has showed on the pictures. We are waiting for the arrival of the soil lab to do the sampling of this stock pile (there's no Gilson in the lab at Meadowbank…).

Corrective action to be taken:

- For the further loading activities of the Coars Filter, specials attention will be needed to minimize the actual segration.

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager :

Time on site : 12h

Daily Field Report

Client: Agnico Eagle	Inspection Date: 27th of July 2018 (day shift)
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☒ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project N°: 11130305-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**25°C**

Field Results

- Second pass of stripping on the East Abutment, around 300mm off thawed till has been remove between stations 0+840 to 0+736). There's still no big accumulations of water due to the thaw of the till, the material is pretty gravely so far.
- Installation and deployment of the last turbidity curtains into the Whale Tail Lake.
- Beginning of the stripping works on the West Abutment. They dug the abutment in a deepness around 2.5m before to reach the frozen material. Gravel and cobbles had been take-off from the excavation. The dimensions of this excavation are to be conforms.
- Finishing of the access road to reach the side of the WT Lake on the downstream side of the WTD.
- The Rockfill works started around 17h on the downstream working pad of the WTD. The rockfill, from the pad G had no boulders bigger than 1000mm and free of ice or snow. They rockfill until station 0+720.
- Starting of the Canadian dewatering and the WTP.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-07-27 (Night shift)
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



20 ˚C

Field Results

- Due to the presence of lighting and thunder the works are suspended until 7:45 PM.
- Visual inspection of rockfill quality in loading area in pad "G", the material has no element over one meter of diameter and there is no presence of frozen material.
- Check rockfill placement in water.
- Set up of rockfill in access road for downstream side and upstream side of the dike.
- The works as begun at the station 0+720 and finish to 0+700 for the downstream side and station 0+777 and finish to 0+755 for the upstream side.
- All the works of rockfill placement is suspended at 1:00 AM until tomorrow morning because the WTP is broken.

Corrective action to be taken:

Follow up visit required: Yes ☐ No ☐

Site Representative : Patrice Gagnon

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager :

Time on site : 12h

AGNICO EAGLE

Daily Field Report

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 28th of July 2018
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☒ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project N°: 11130305-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

10 ˚C

Field Results

- Stripping work on the East Abutment until the frozen till (elev. 154.4m at the station 0+785). Due to the rain of the last night and the melting of the till, a pound is growing up and the between the stations 0+736 0+740 on the full length of the excavation. Dewatering would be more than interesting in this area.
- A sample of till (# EA-AMQ-005) has been taken (0+785 elev. 154,4m) to realize a moisture contain and a gradation.
- Rockfill work has been realized for the two working platforms. They both are on station 0+650. The gradation of the rockfill seems to be ok, free of ice/snow and no boulder bigger than 1000m has been put.
- Sana's crusher started in the mid-afternoon. Fine Filter is in production.
- They extended the pipe of the pump near the station 0+650.

Corrective action to be taken:

- The QA and I had noticed that the distance between the two platforms is narrow compare to the drawings. Sana's told us that this is their working method because they don't have a boom long enough to do the future works between the platforms. This extra length will be remove after.

Follow up visit required: Yes ☐ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-07-28 (Night shift)
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



10 ˚C

Field Results

- Check rockfill placement in water, started at station 0+650 on both side of the dike.
- The rockfill material is good, he has free of ice/snow and there are no element over 1 meter of diameter.
- At the end of the shift, the rockfill platform is at station 0+600 on both side of the dike.

Corrective action to be taken:

Follow up visit required: Yes ☐ No ☐

Site Representative : Patrice Gagnon

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager :

Time on site : 12h

AGNICO EAGLE

Daily Field Report

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 29th of July 2018
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☒ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project N°: 11130305-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



5 °C

Field Results

- Stripping of the East Abutment. Now we get ice into the till.
- Rockfill activities on the both working platforms. They are now at the approximate station of 0+560. Rockfill free of snow and ice. Good rock quality and mostly well graduate. But some time, rockfill seems to be a little bit finer than it might be.
- Sampling of Fine Filter that has been produced yesterday (daily tonnage 347 T), located at the stockpile of the pad H. Sample # FF-AMQ-022
- Pulling of the Turbidity Curtain E.

Corrective action to be taken:

- The pound at the station 0+736 of the EA steel there.
- Some boulders bigger than 1000mm has been saw on both of the platforms. They will have to be marked and remove for those who are inside of the dike. The contractor was doing has much as it can to avoid them, but we will mention it again.

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-07-29(Night)
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130305-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

5 ˚C

Field Results

- Check rockfill activities on both working platform of the dike. They starts at the station 0+560 on both side. The rockfill material is look good, no frozen or snow in the material and no element over 1 meter. But there are some trucks than gradation seems to be a little finer and I warned the supervisor of Sana to correct the situation (11h00 PM).
- After midnight, the situation are corrected, the visual inspection of rockfill has showed that material have a better gradation. Good collaboration of Sana night shift supervisor.
- At the end of the shift, the rockfill platform is at station 0+495 for the both side.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

AGNICO EAGLE

Daily Field Report

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: July 30, 2018 Day Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☒ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



6 ˚C

Field Results

- Sana's crusher started at the end of the day to product Fine Filter. (around 4:00 p.m.)
- Rockfill activities on the both working platforms at El: 153.5 m. They are now (End of day) at the approximate station 0+445.
- No work done for the turbidity curtain. Not enough workers in the crosshift days
- Stripping work on the East Abutment until the frozen till. No sample Taken

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

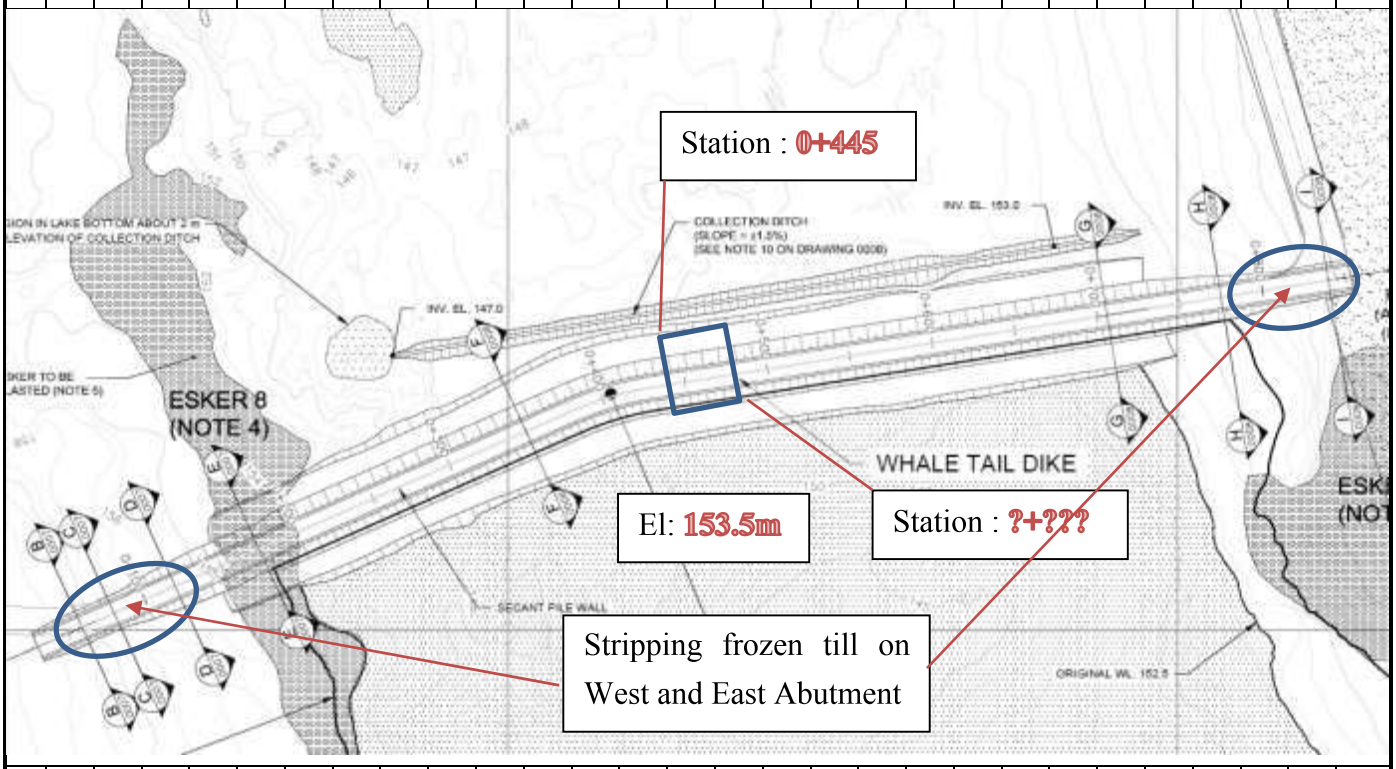
Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-07-30 (Day Shift)	

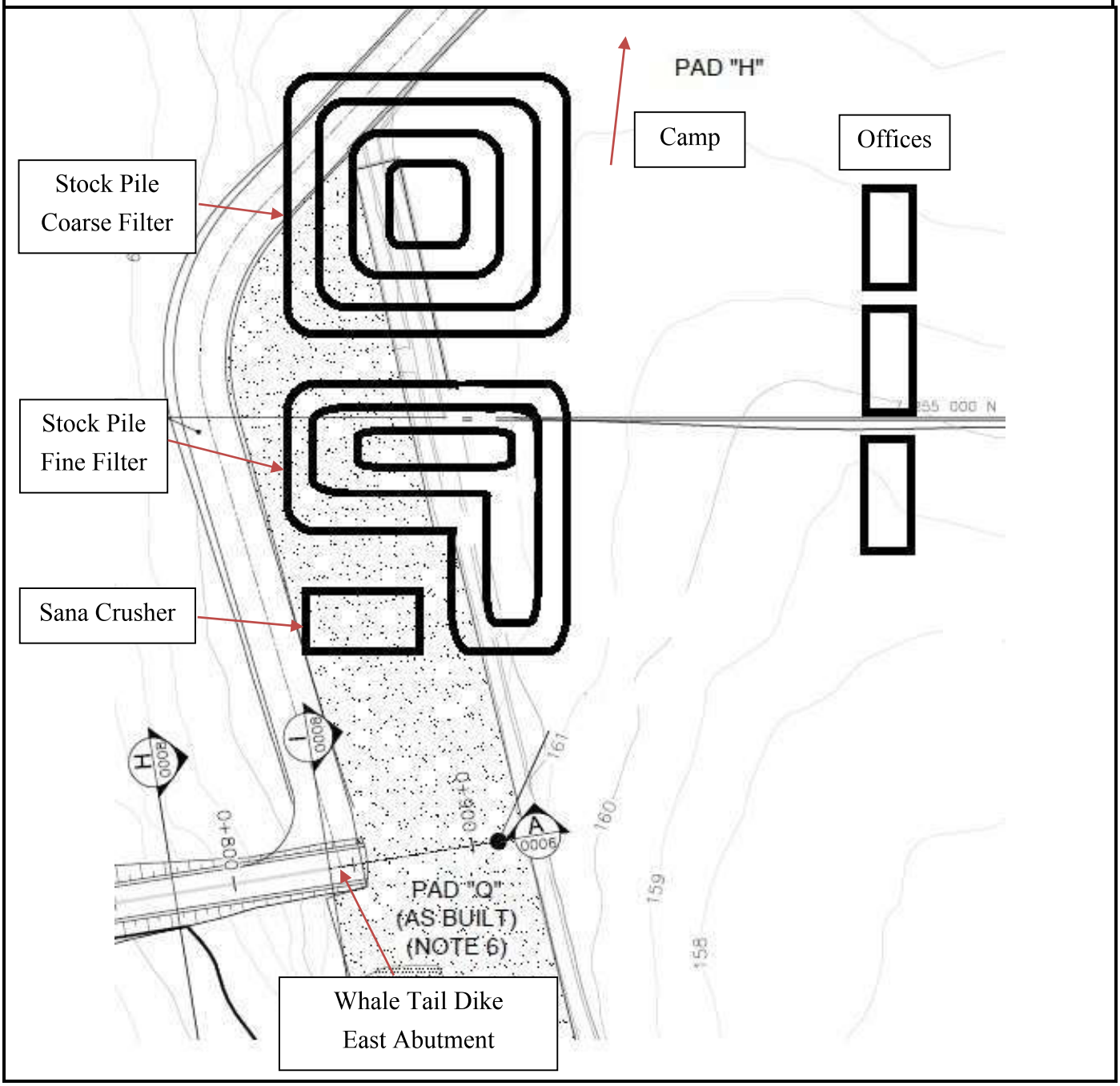


Prepared by: _____ Verified by: _____

AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 2 of 2
Inspection date: 2018-07-30 (Day Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: July 30, 2018 Nigth Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☒ Water Management
	☐ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



4 ˚C

Field Results

- Fine filter in production.
- Check rockfill activities on both working platform of the dike. They starts at the station 0+445 on both side. The rockfill material is look good, no frozen or snow in the material.
- Used the ripper for stripping the surface on East Abutment for removed the frozen till. (elev: 155.0m at the station 0+840)
- The rockfill placement on platform is at station 0+405 for the both side. The gradation of the rockfill seems to be good, but we see a little boulder than bigger 1000 mm has been put upstream on limit off the south plateform.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

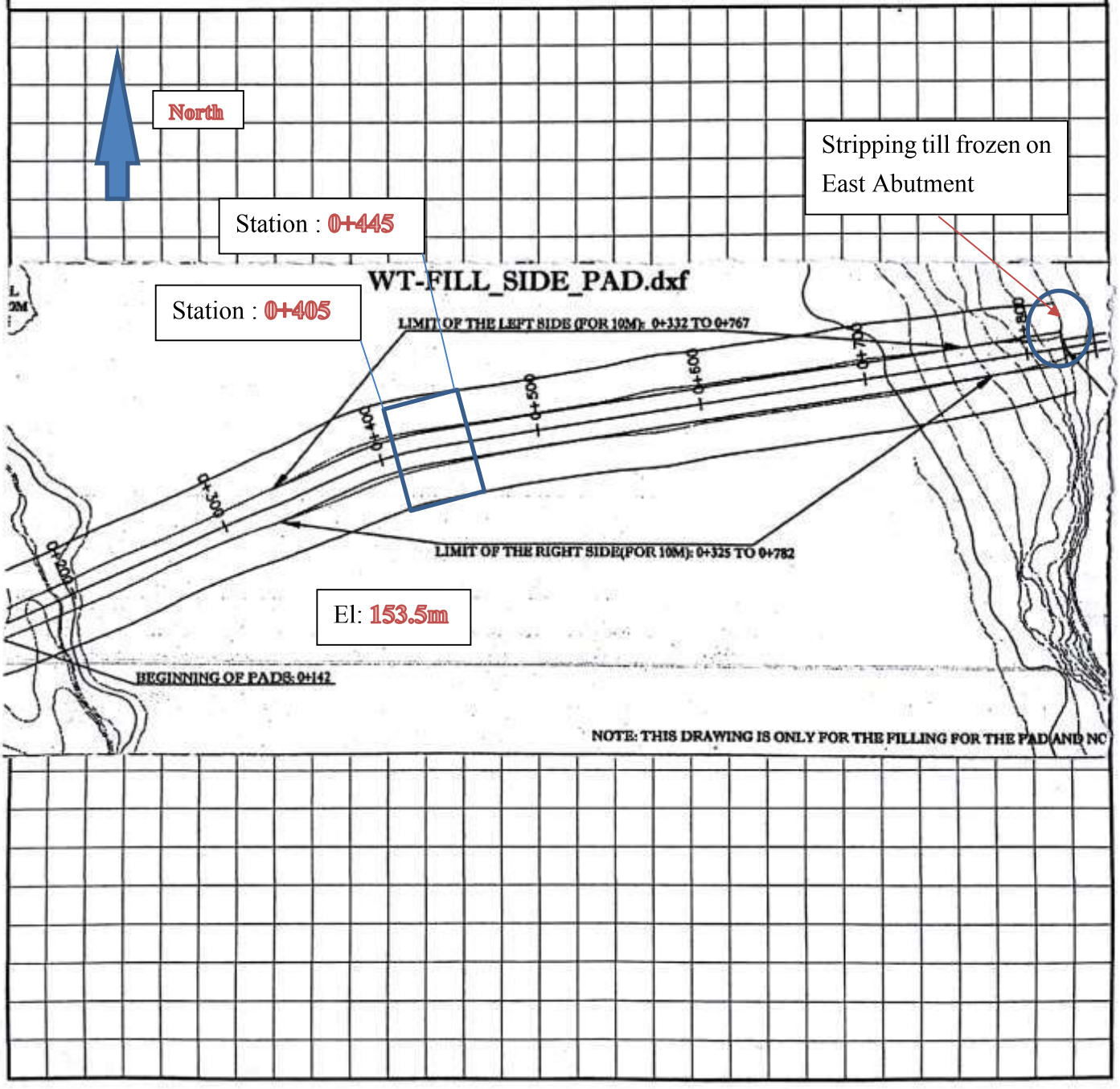
Project Manager : Daniel Pedneault

Time on site : 12h

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Plan/Sketch

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-07-30	



Prepared by: _____ Verified by: _____

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: July 31, 2018 Day Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☒ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

15 ˚C

Field Results

- Fine filter in production.
- Took a sample of fine filter from the production of last night (July 30, 2018). Stock on level #2 at the stockpile on pad H. Sample #FF-AMQ-023 (Nightly tonnage: 2576 T. Overall: 84 666 T.)
- Stripping of the East Abutment. A sample has been taken # EA-AMQ-006 Located at station: 0+815.5 Elev.156.822m. A gradation and the % moisture will be done, when we will have the lab set up.
- Rockfill start at 0+407 in the morning and finish at 0+384. Elevation 153.5
- No turbidity barrier deployment today. Not enough workers

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

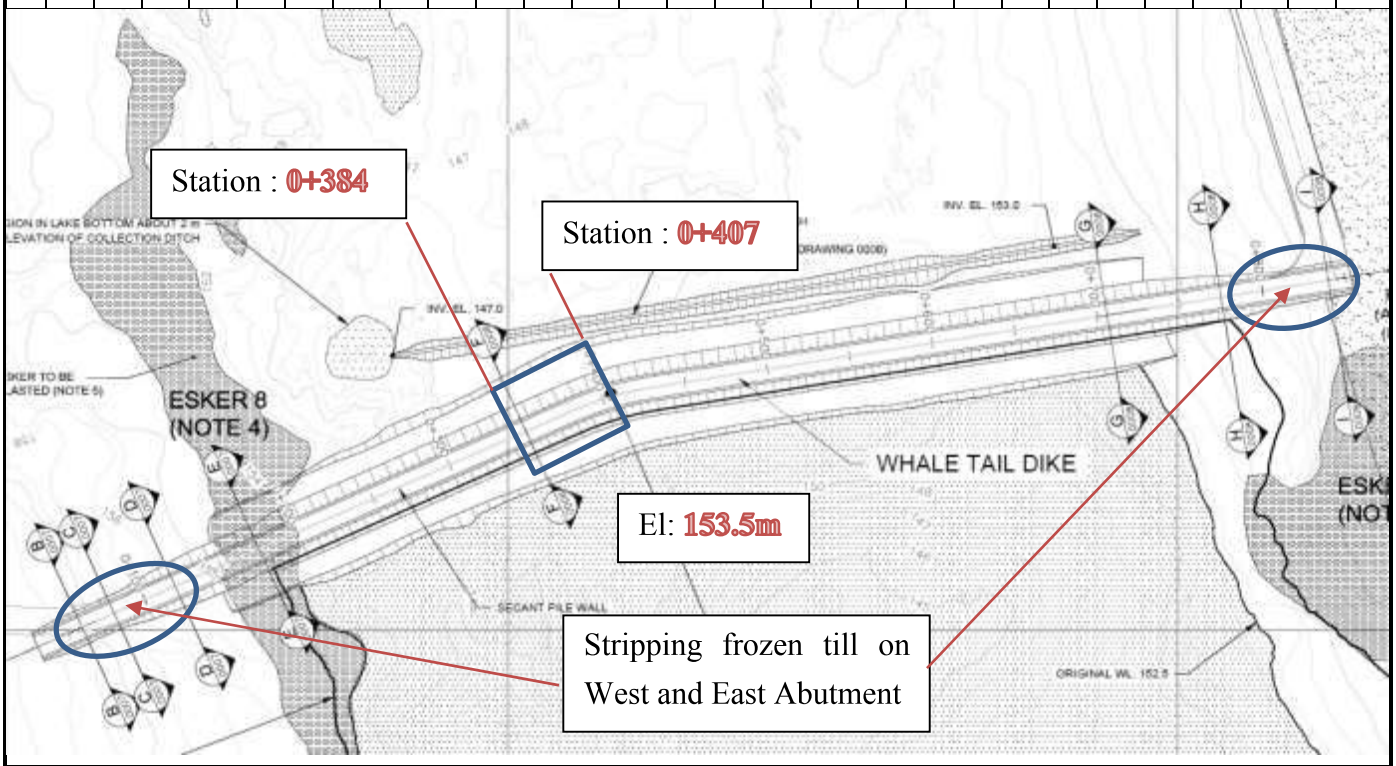
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-07-31 (Day Shift)	

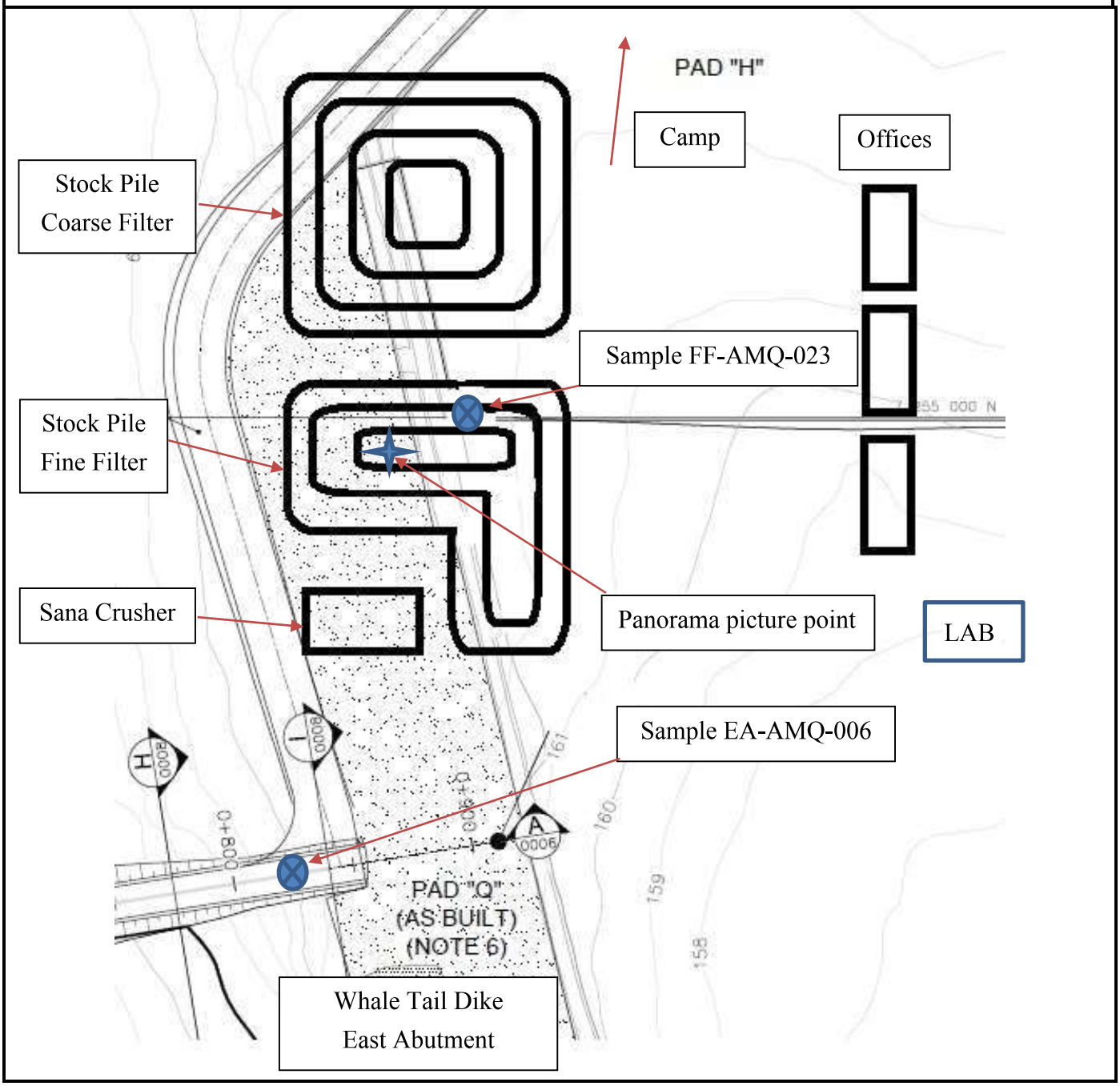


Prepared by: _____ Verified by: _____

AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 2 of 2
Inspection date: 2018-07-31 (Day Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: July 31, 2018 Nigth Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☒ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



8 ˚C

Field Results

- Fine filter in production.
- Check rockfill activities on both working platform of the dike. They start at 0+384 in the evening and finish at 0+320 on both side. After a visual inspection of rockfill quality in loading area in pad “G”, the material has too much fine particles between the station 0+370 and 0+340.
- Used the ripper for stripping the surface on East Abutment for removed the frozen till.
- Took a sample (FF-AMQ-024) of fine filter from the production of last Day (July 31, 2018) and take another sample (FF-AMQ-025) from the production of the night.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

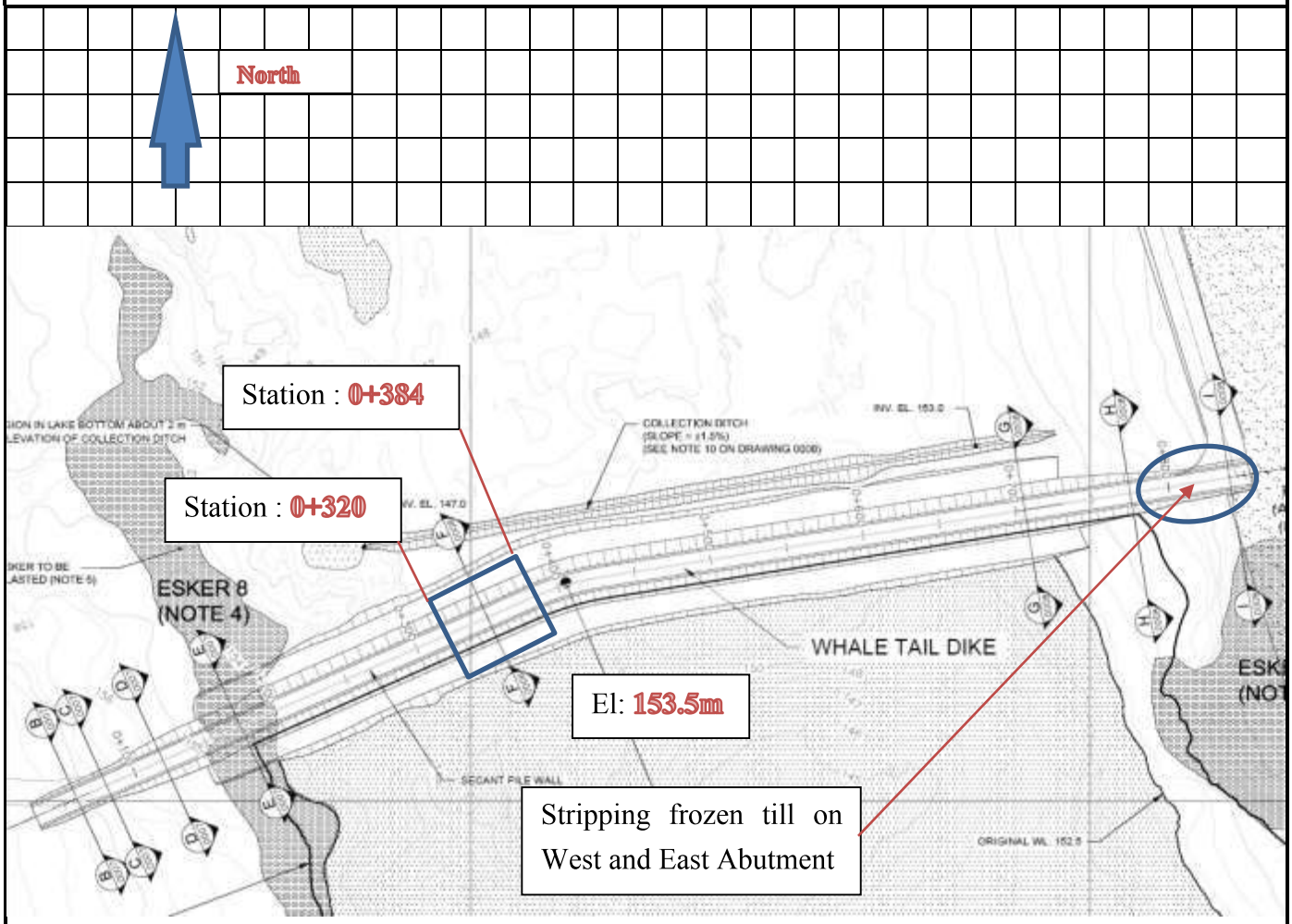
Time on site : 12h

AGNICO EAGLE

Daily Field Report

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Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-07-31 (Night Shift)	

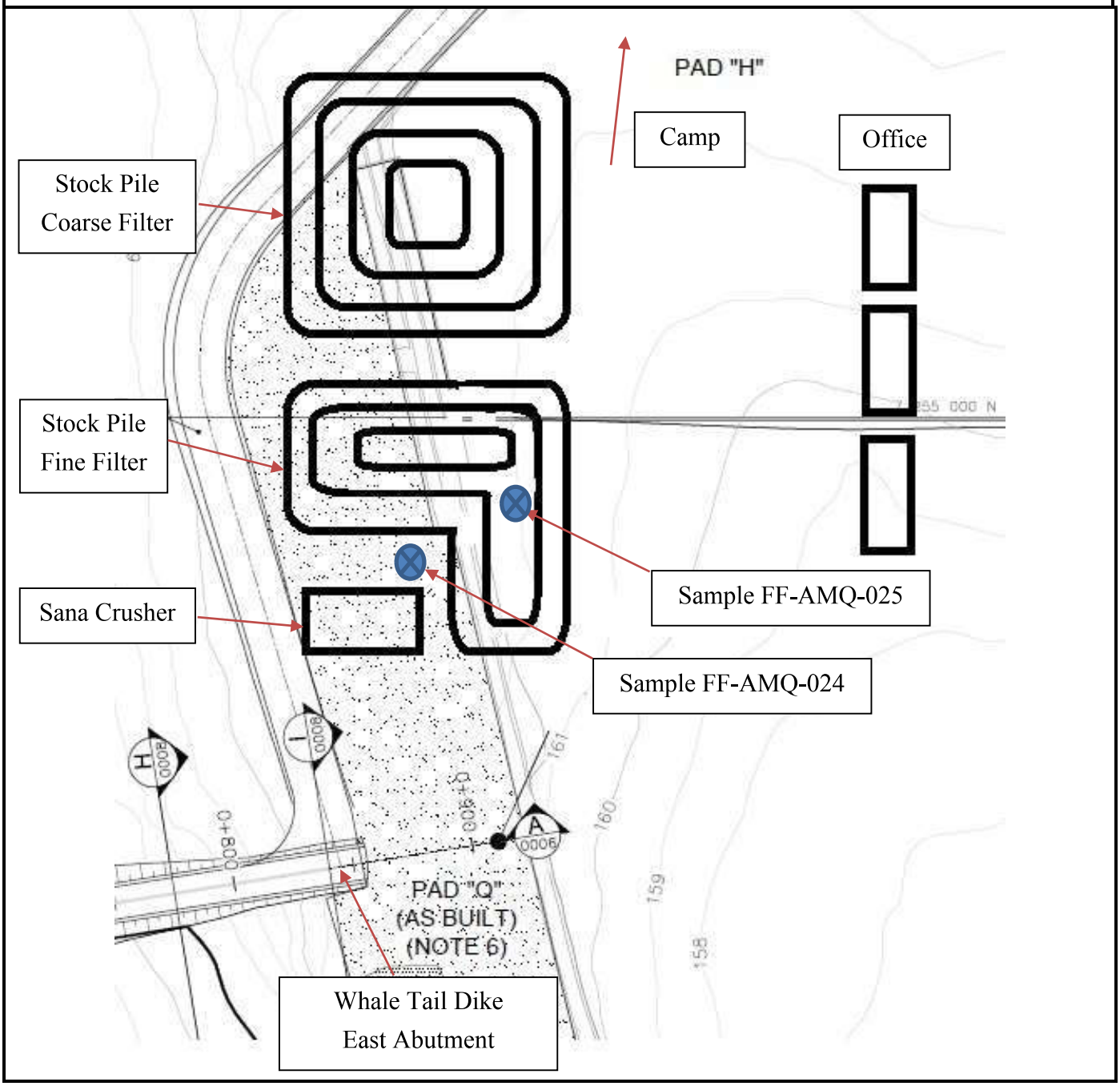


Prepared by: _____ Verified by: _____

AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 2 of 2
Inspection date: 2018-07-31 (Night Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 01, 2018 Day Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☒ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

8 ˚C

Field Results

- Fine filter in production. Took a sample (FF-AMQ-026) of fine filter from the daily production (August 1, 2018).
- Rockfill activities on both working platform. They start at 0+320 in the morning and finish at 0+295 on both side. They stop the rockfill between 10:30 and 11:30 because the pump needed to be extend and P.E.L. workers ask to stop the rockfill (co-activities too dangerous)
- Stripping of the East Abutment. No Work done on the West Abutment, not enough workers.
- An excavator on the dike is moving the bumper on South dike, north side to be able to do the batimetric test tomorrow.
- Turbidity barrier deployment on barrier D. The barrier reach the other side of the lac but they had to stop working, it's too windy to work on the water.
- Add 400' long on the pump pipe

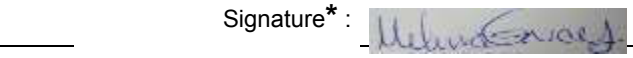
Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : 

Project Manager : Daniel Pedneault

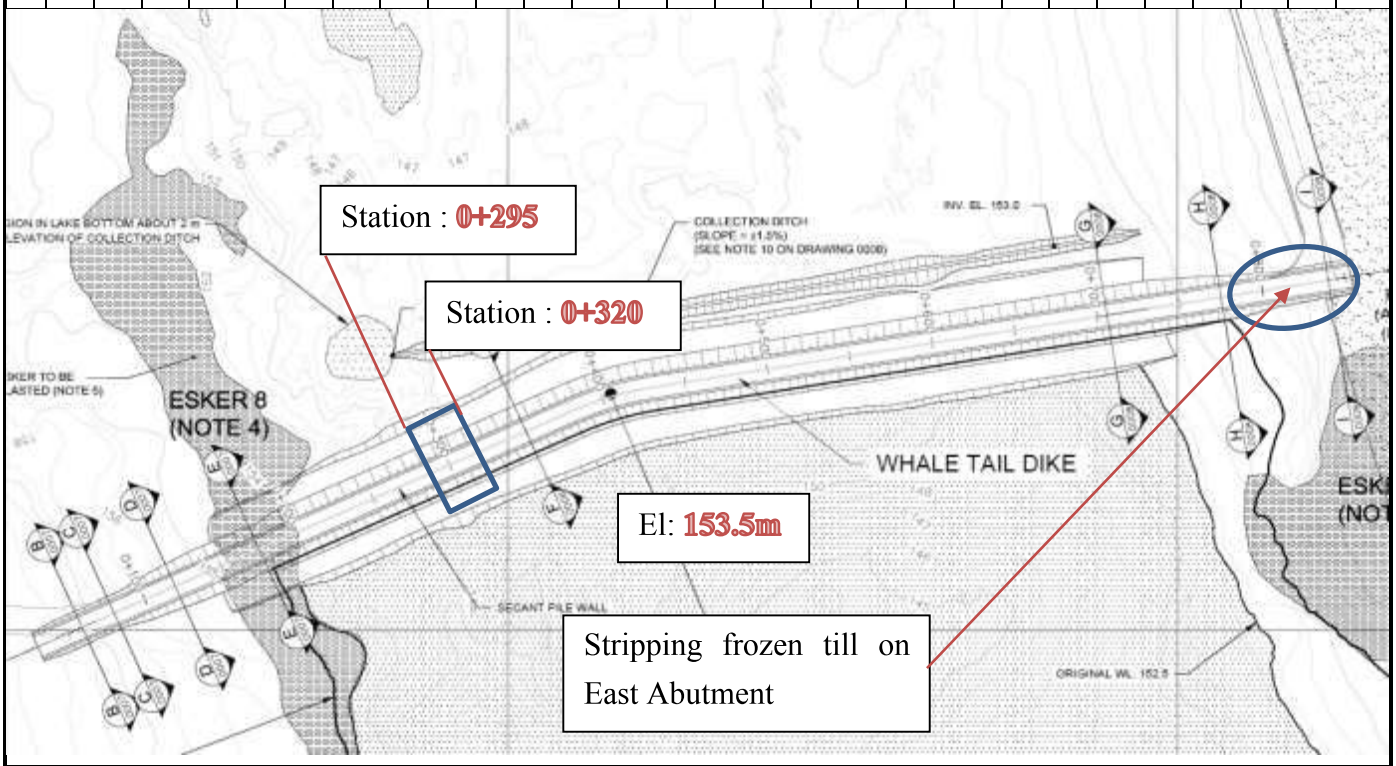
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-08-01 (Day Shift)	

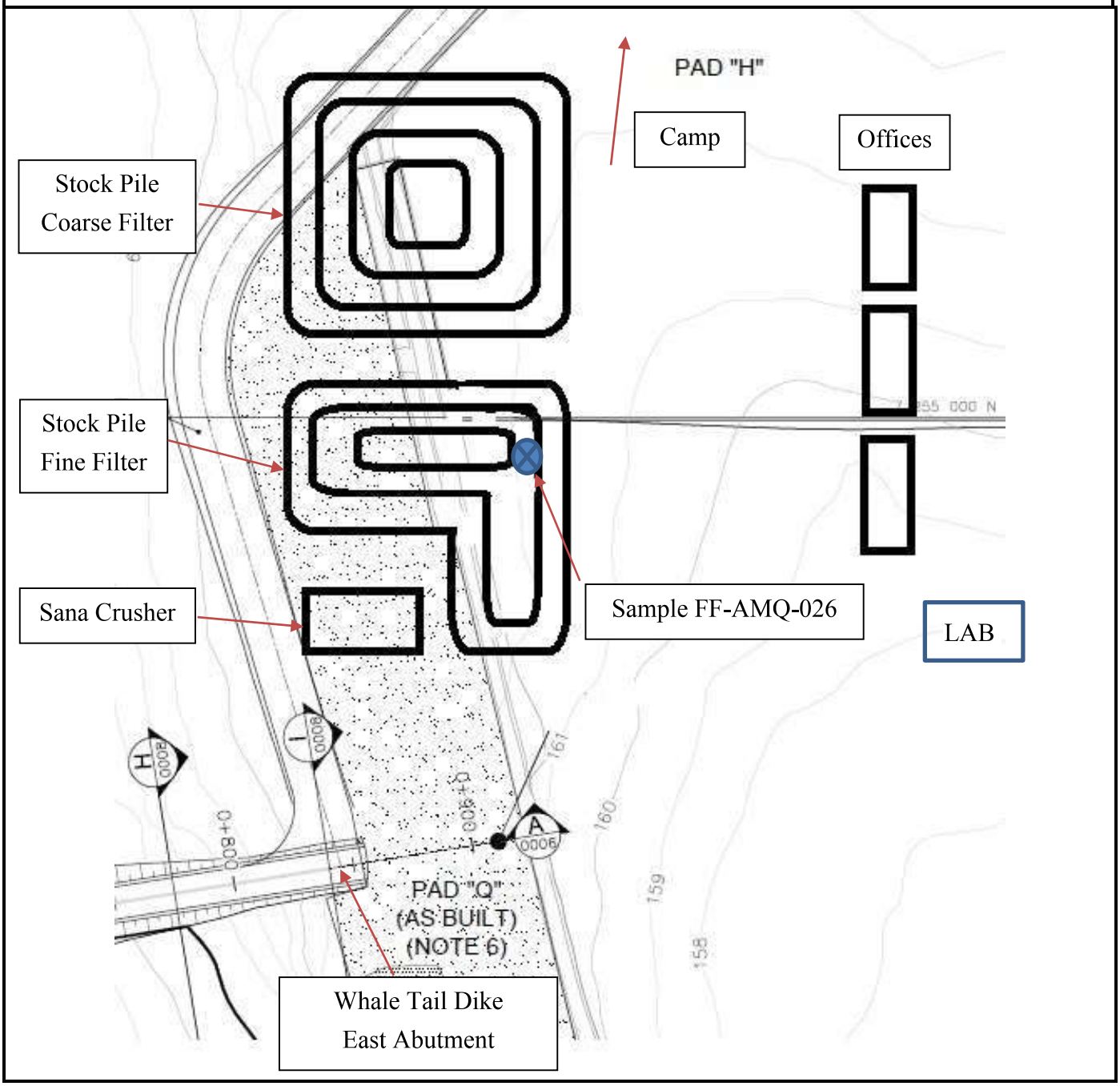


Prepared by: _____ Verified by: _____

AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 2 of 2
Inspection date: 2018-08-01 (Day Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 01 , 2018 Night Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☒ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



6 ˚C

Field Results

- Fine filter in production. Took a sample (FF-AMQ-027) of fine filter from the nightly production (August 1, 2018).
- Rockfill activities on both working platform. They start at 0+295 in the evening and finish at 0+257 on both side. The rockfill material is look good, no frozen or snow in the material.
- Stripping of the East Abutment.
- Start a new fine filter stock pile on pad “Q”.
- Start to make some gradations in the laboratory.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

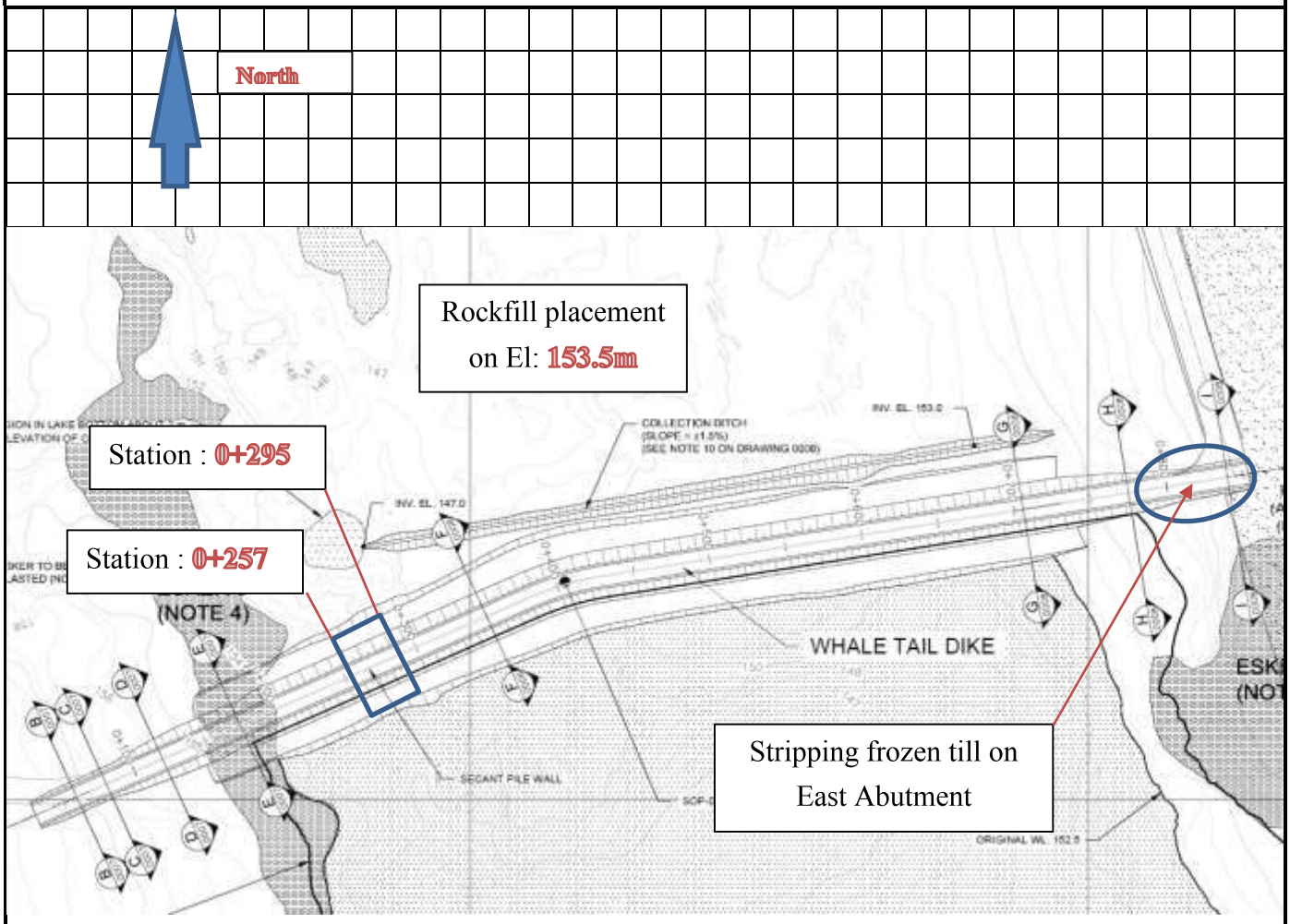
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-08-01 (Night Shift)	

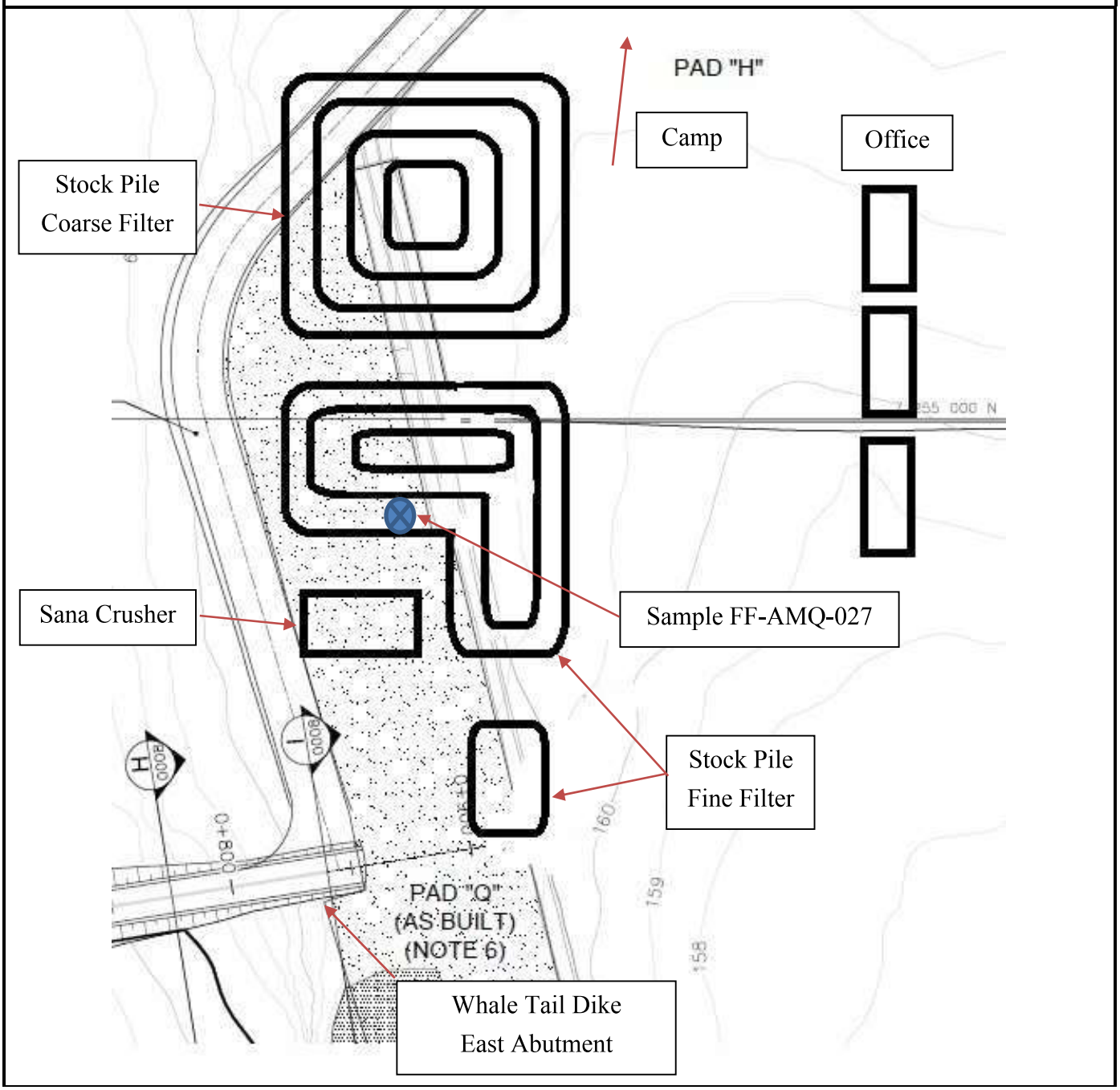


Prepared by: _____ Verified by: _____

AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 2 of 2
Inspection date: 2018-08-01 (Night Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 02 , 2018 Day Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☒ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



4 ˚C

Field Results

- Fine filter in production. Production of August 1st : daily : 4986T overall: 96 519T
- Rockfill activities on both working platform. They start at 0+257 in the morning and finish at 0+228 on both side. The rockfill material is look good, no frozen or snow in the material.
- Stripping of the East Abutment. They found a Big block of ice at station 0+777 between elevation 153m and 151m
- Took a sample (FF-AMQ-028) of fine filter from the daily production (August 2, 2018).
- The first moisture test has been done in the new lab. But we cannot do any gradation for today. We didn't received the proper sieves to fit with the specs curves. It will be discuss with the Dikes designer,
- On west Abutment they install some sediment barrier for the soup dump. (Where the will put de material they will extract between the south and the north dikes.)

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

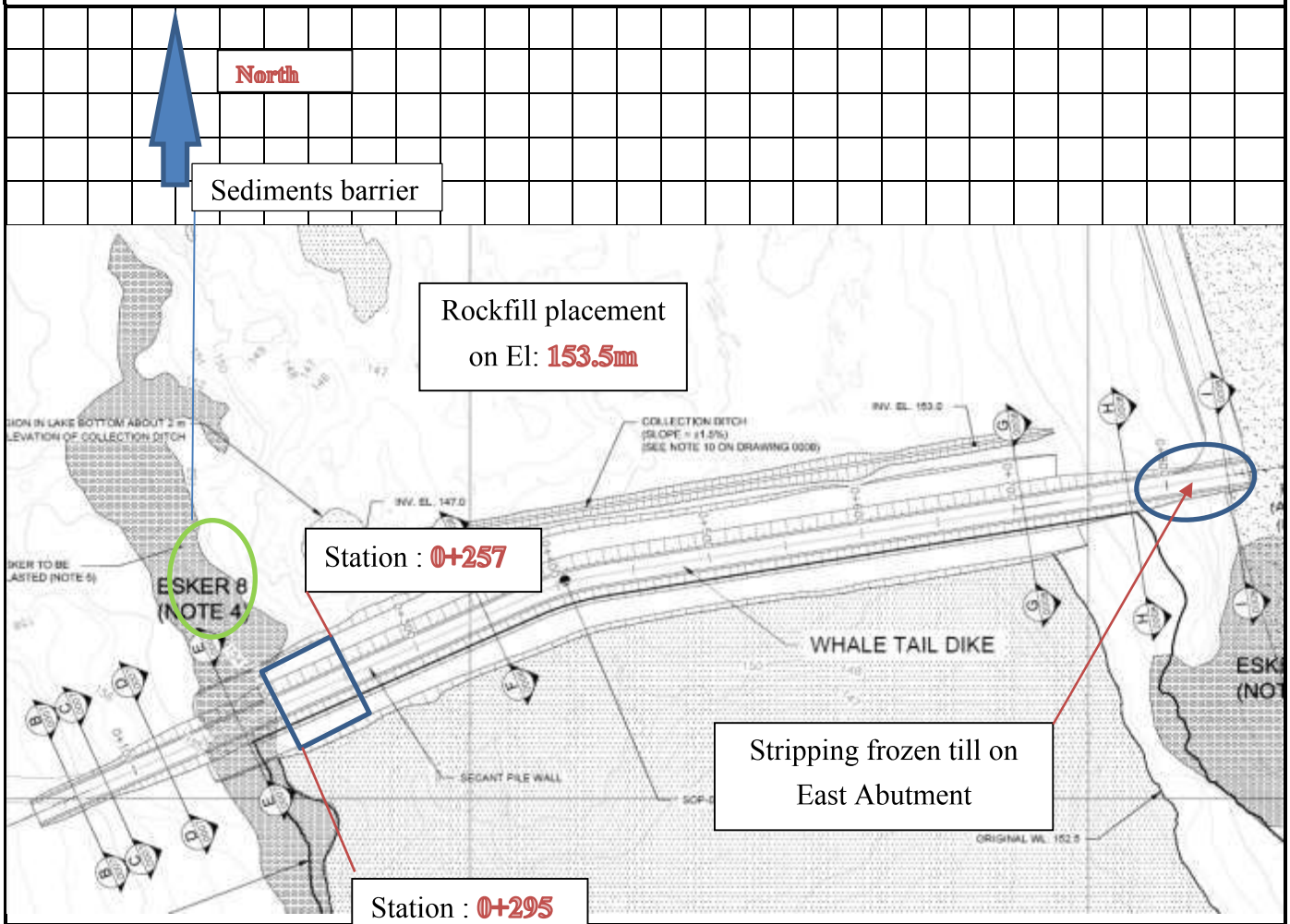
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-08-02 (Day Shift)	

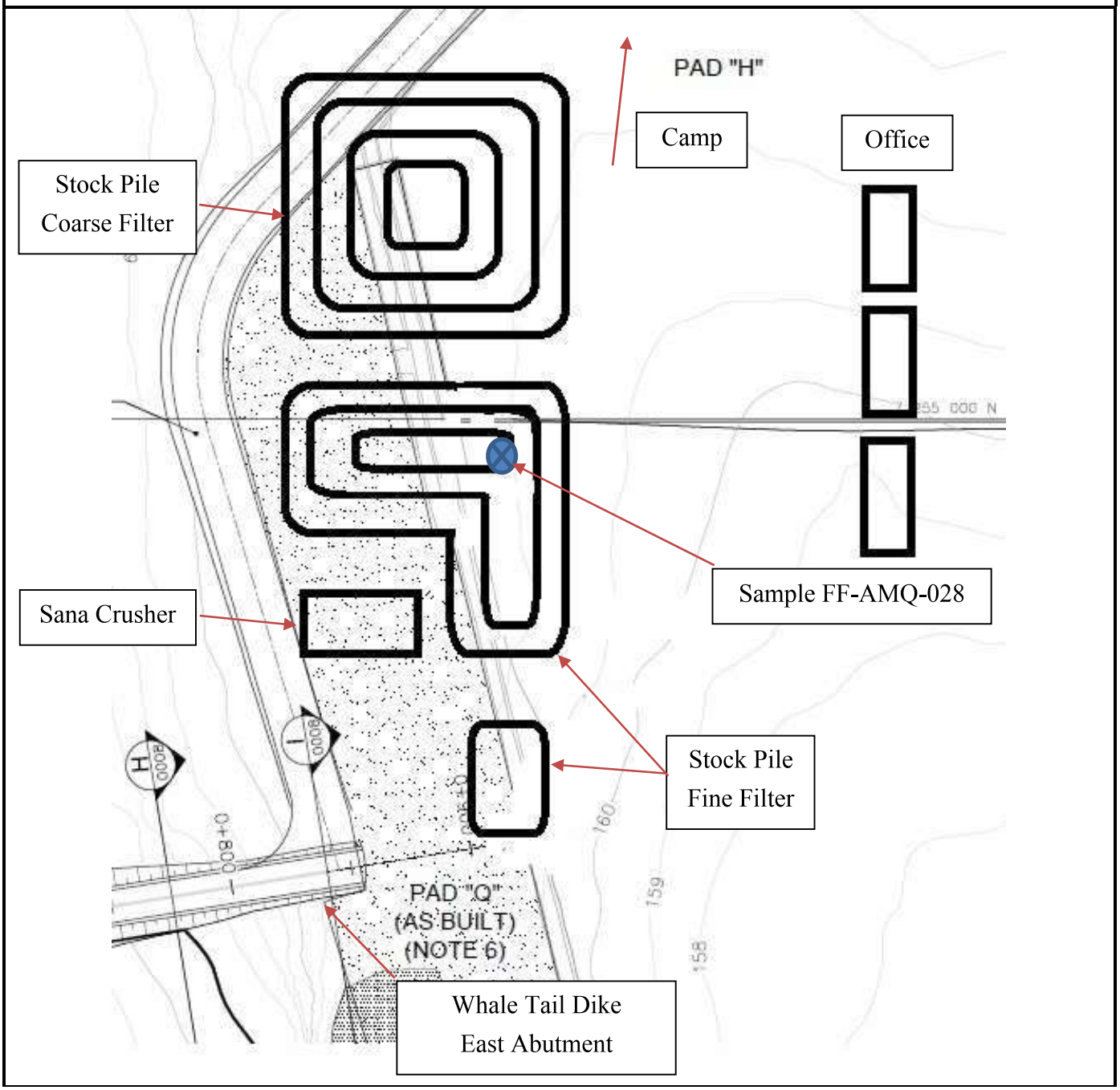


Prepared by: _____ Verified by: _____

AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 2 of 2
Inspection date: 2018-08-02 (Day Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 03 , 2018 Night Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☒ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

4 ˚C

Field Results

- Fine filter in production. Took a sample (FF-AMQ-030) of fine filter from the Nightly production (August 2, 2018).
- Finish the Rockfill activities on both working platform at elevation 153.5m. They start at 0+228 in the evening and finish at 0+200 on both side. The rockfill material is look good, no frozen or snow in the material.
- Stripping of the East Abutment.
- Cleaning the west abutment
- The laboratory have been level up and the water have been plug.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

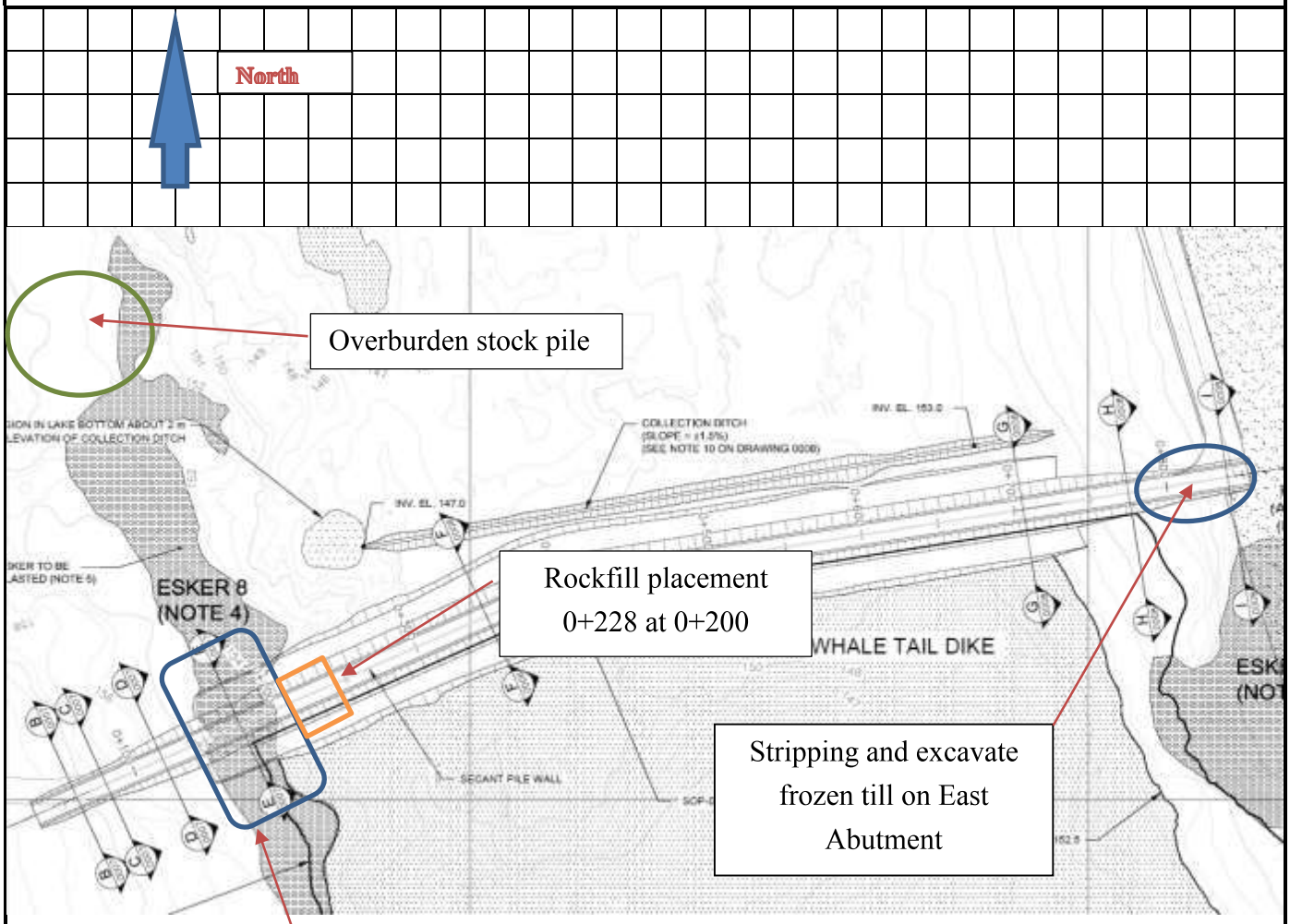
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-08-02 (Night Shift)	

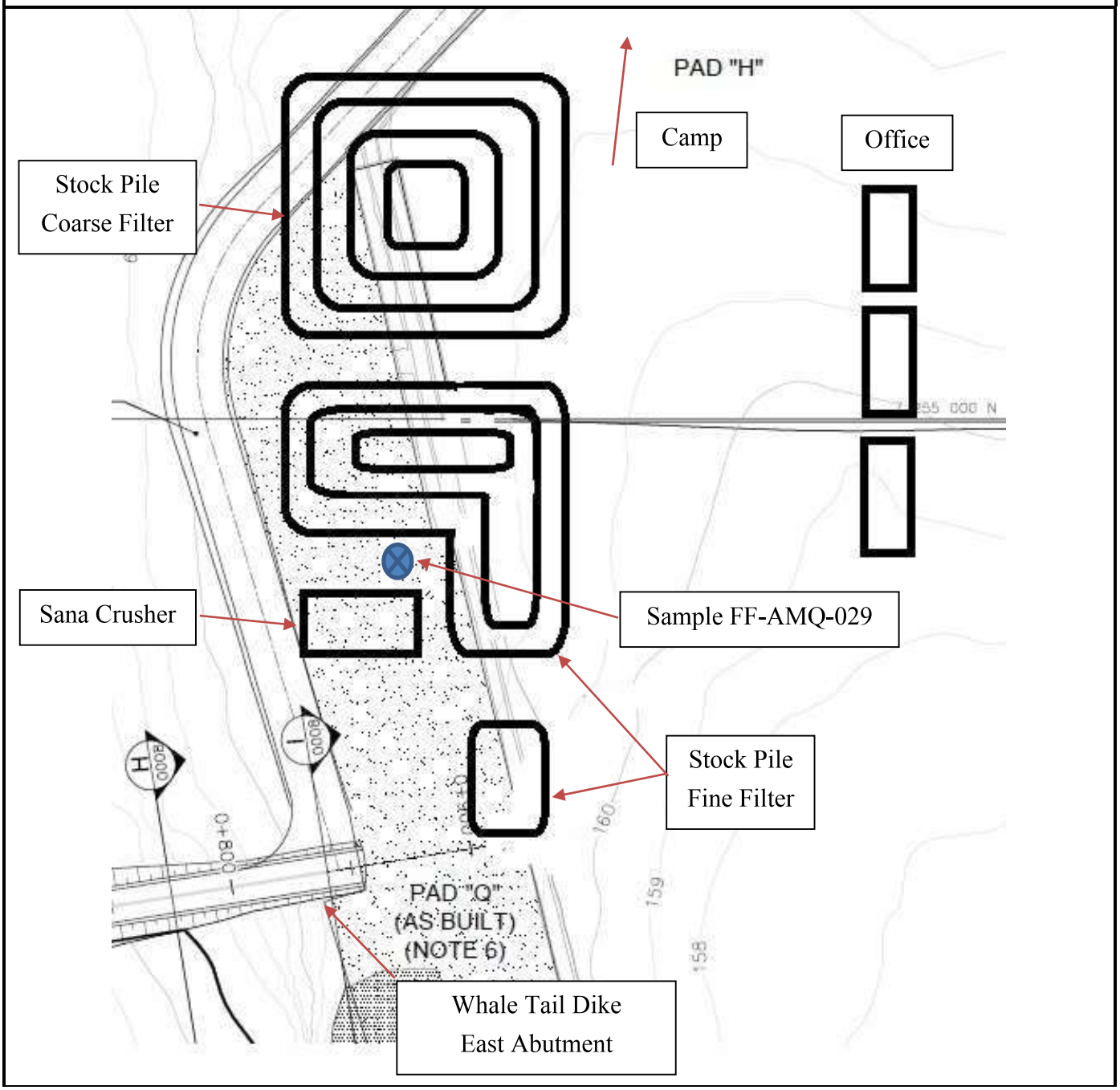


Prepared by: _____ Verified by: _____

AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 2 of 2
Inspection date: 2018-08-02 (Night Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 03 , 2018 Day Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☒ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

10 ˚C

Field Results

- Fine filter in production. Took a sample (FF-AMQ-030) of fine filter from the daily production (August 3, 2018). The crusher broke at 1h00 p.m.
- Fix the Turbidity curtain barrier “D”
- Stripping of the East Abutment. Sampling #EA-AMQ-007
- Cleaning the west abutment overburden
- The laboratory have been level up and the water have been plug.
- They start digging between the 2 dikes.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Mélina Guay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

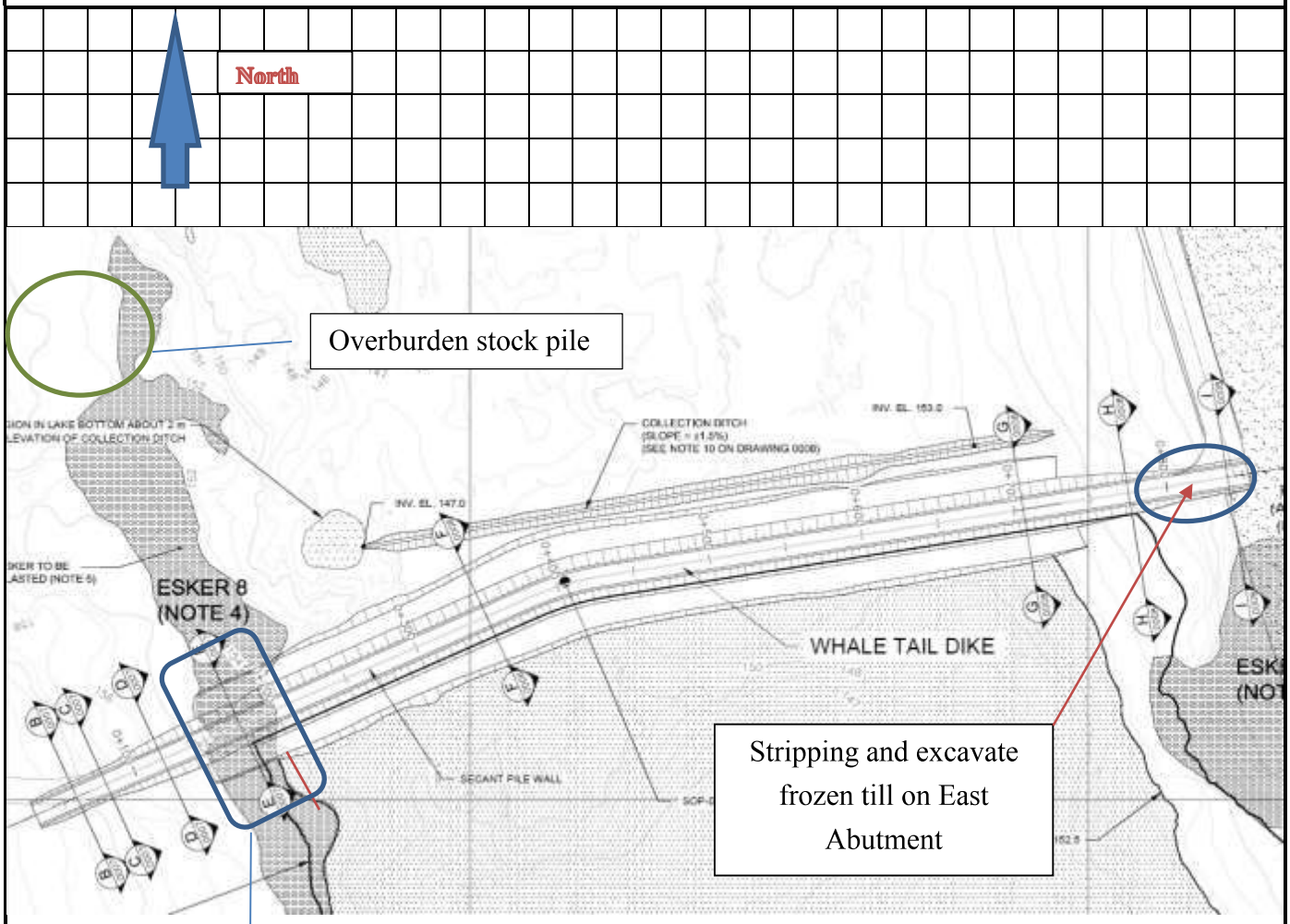
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-08-03 (Day Shift)	

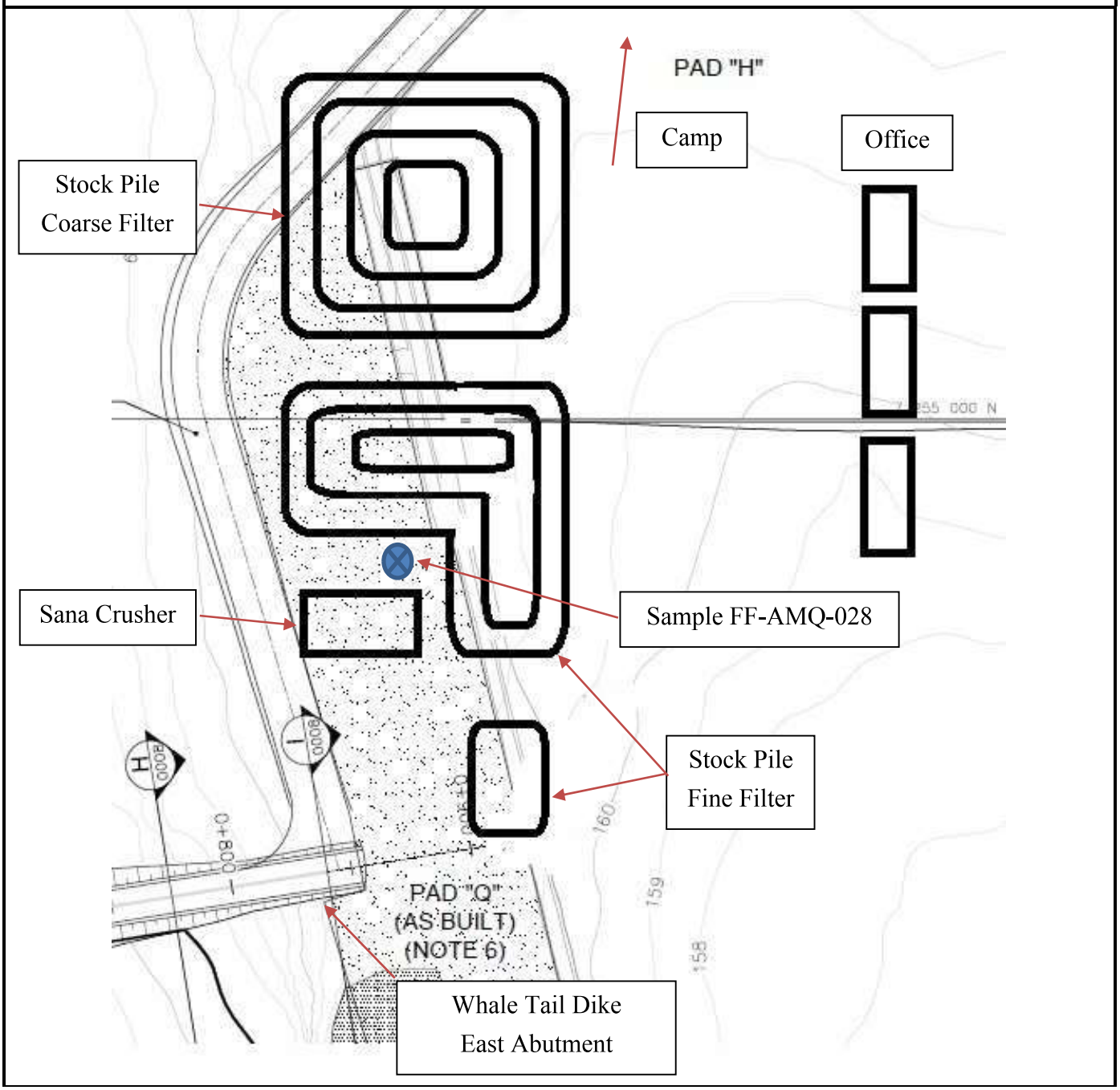


Prepared by: _____ Verified by: _____

AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 2 of 2
Inspection date: 2018-08-03 (Day Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 03 , 2018 Night Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☒ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

8 °C

Field Results

- Fine filter in production. Took a sample (FF-AMQ-031) of fine filter from the nightly production (August 4, 2018).
- They start slopping in the key trench south at 0+200 in the evening and finish at 0+300 on both side.
- Stripping of the East Abutment.
- Cleaning the overburden west abutment
- Gradation FF-AMQ-022 and FF-AMQ-029 is done.
- Took two sample (WA-AMQ-001 and WA-AMQ-002) of sand from the Esker 8 (August 4, 2018).

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cérdick Fillon Tremblay (Print Name)

From : AEM

Signature* : Cérdick Fillon Tremblay

Project Manager : Daniel Pedneault

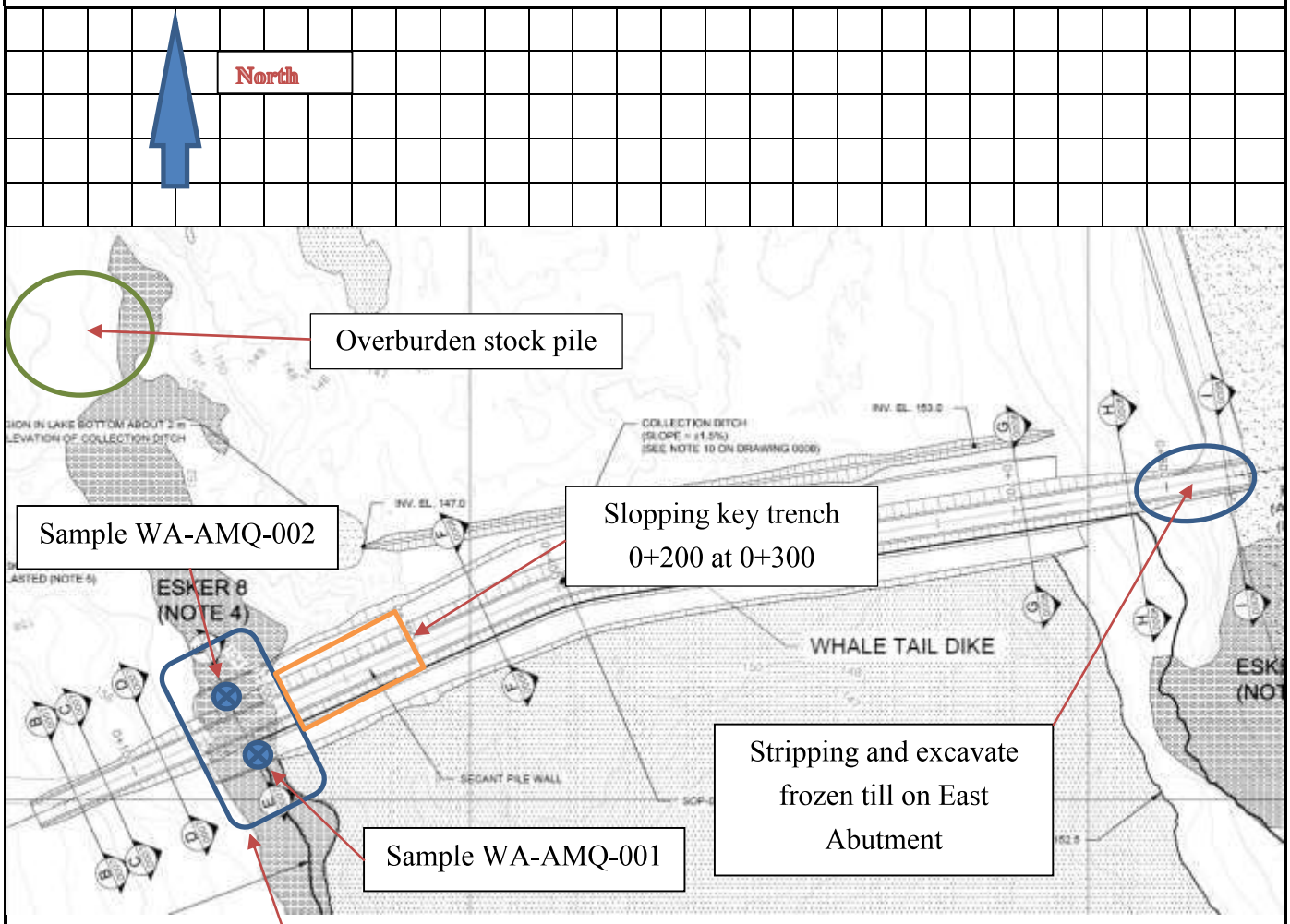
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-08-03 (Night Shift)	

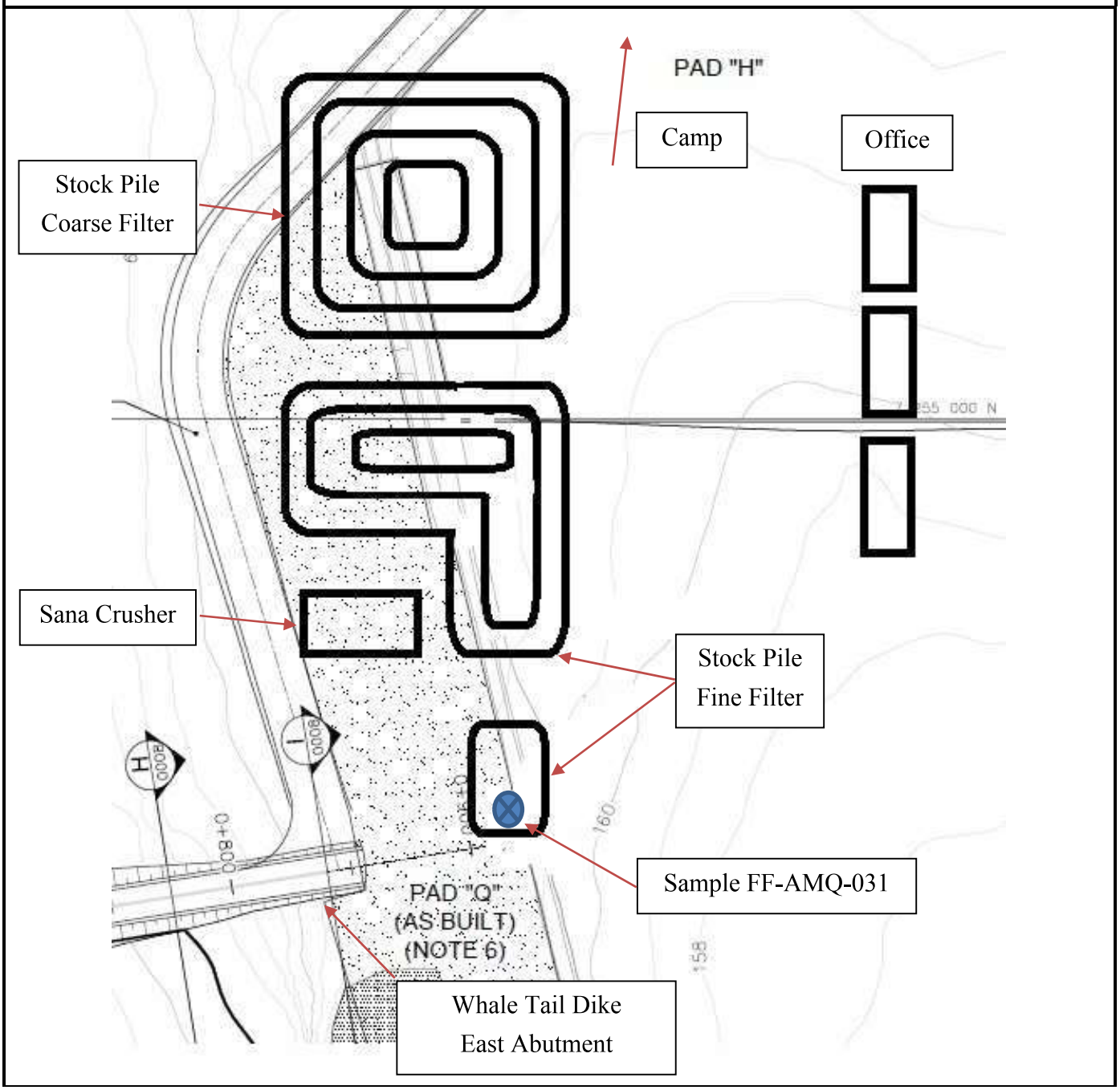


Prepared by: _____ Verified by: _____

AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 2 of 2
Inspection date: 2018-08-03 (Night Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 04 , 2018 Day Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☒ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

5 ˚C

Field Results

- Fine filter in production. Took a sample (FF-AMQ-032) of fine filter from the nightly production (August 4, 2018).
- Stripping of the East Abutment.
- Cleaning the key trench between 0+203 and 0+240 on south side north side on going.
- Gradation FF-AMQ-028 and FF-AMQ-030 is done. Others on going

Corrective action to be taken:

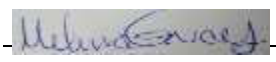
Follow up visit required:

Patrice Gagnon — Yes ☒ No ☐

Site Representative : AEM

From : Daniel Pedneault

Inspector : Mélina Guay (Print Name)

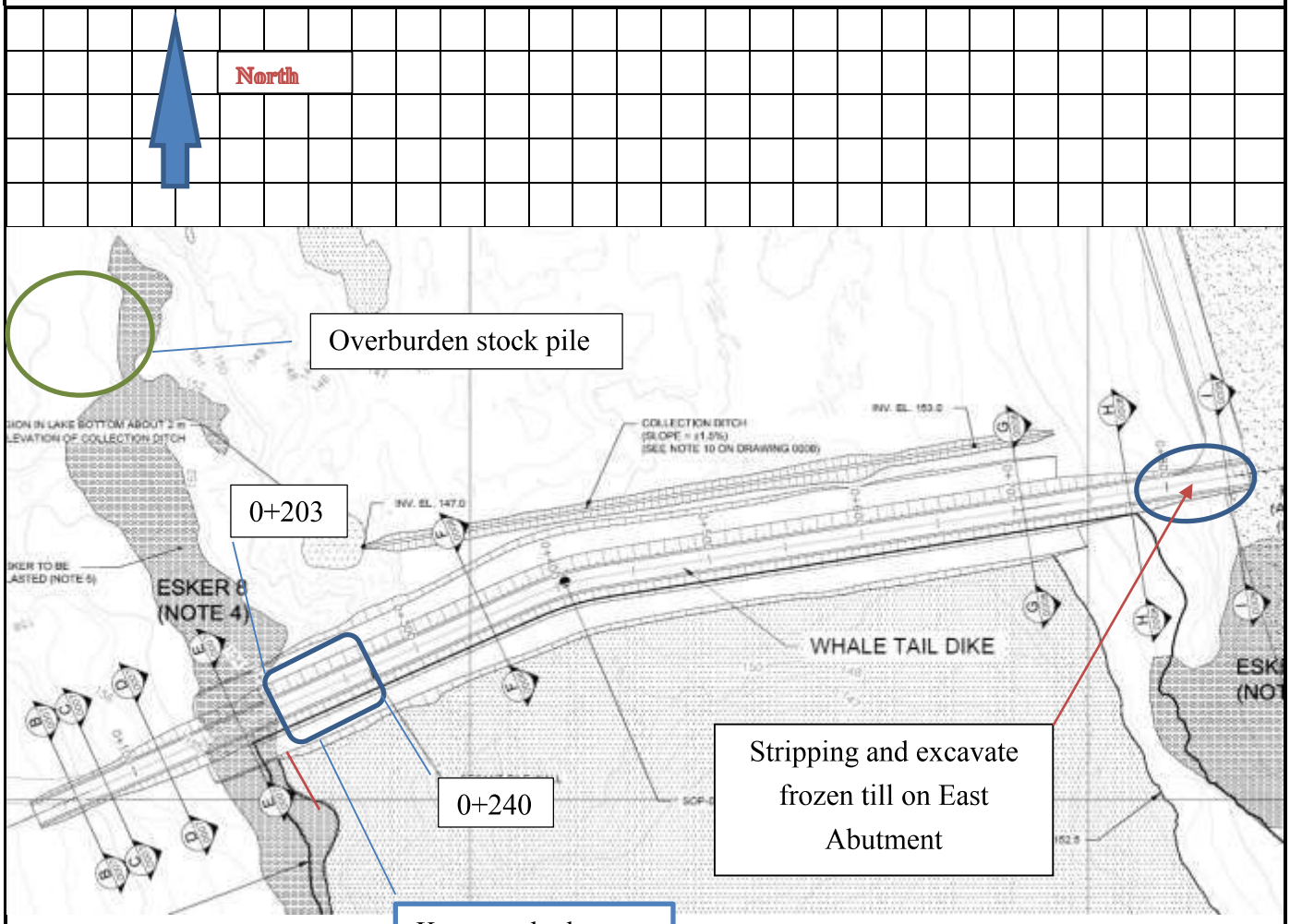
Signature* : 

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-08-04 (Day Shift)	

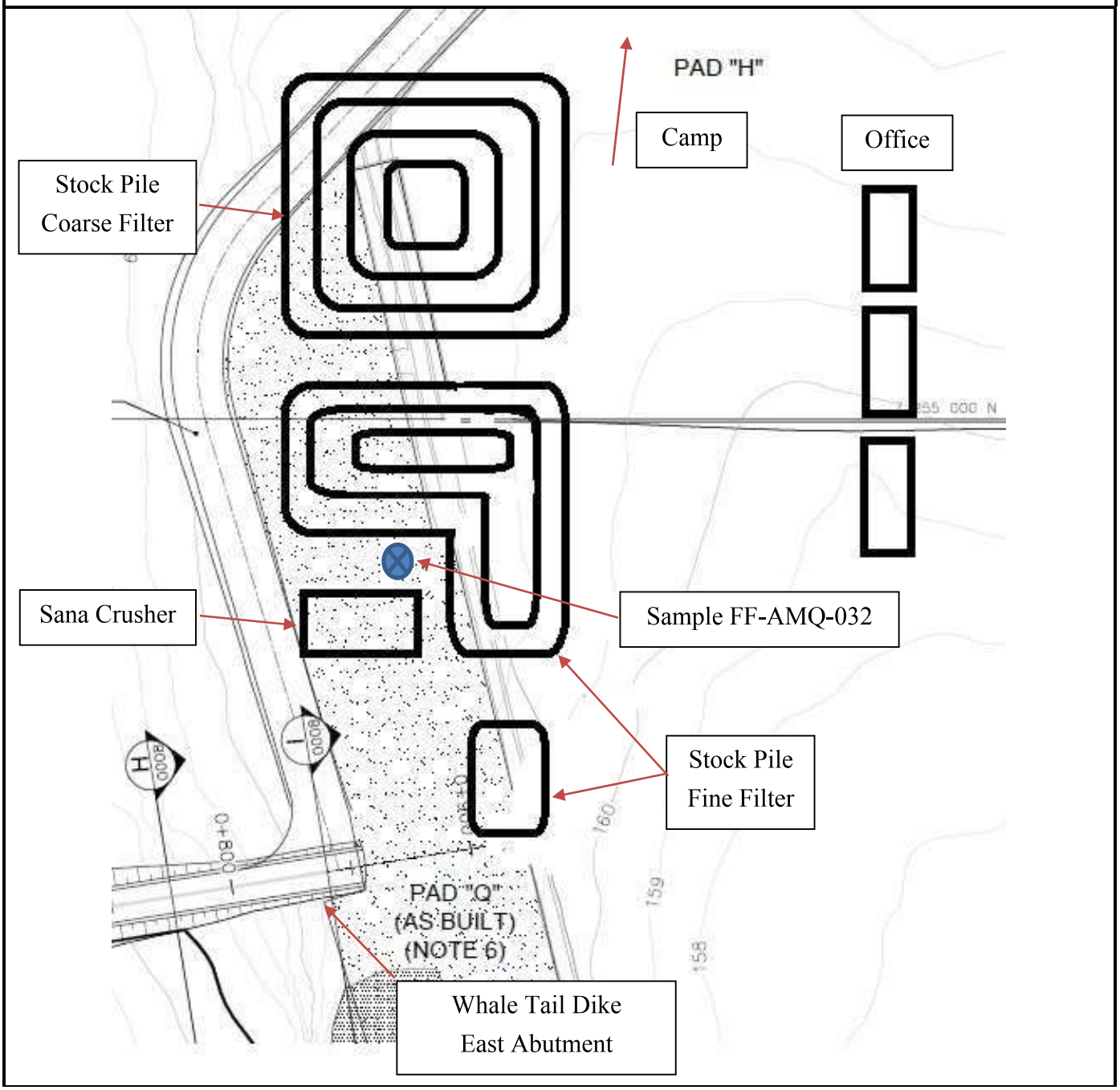


Prepared by: _____ Verified by: _____

AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 2 of 2
Inspection date: 2018-08-04 (Day Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 04 , 2018 Night Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☒ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

2 ˚C

Field Results

- Fine filter in production. Took a sample (FF-AMQ-033) of fine filter from the nightly production (August 5, 2018).
- They start bed rock sounding for remove all soft lakebed and make the first step of approval key trench at 0+200 to 0+260.
- Stripping of the East Abutment and West Abutment.
- Took two sample (EA-AMQ-009 and EA-AMQ-009) of silt and clay from the East Abutment 8 (August 4, 2018).
- Mass excavation of lakebed at 0+260 to 0+350.
- Gradation FF-AMQ-023, 024, 025 and 026 is done. Others on going.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cérdick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

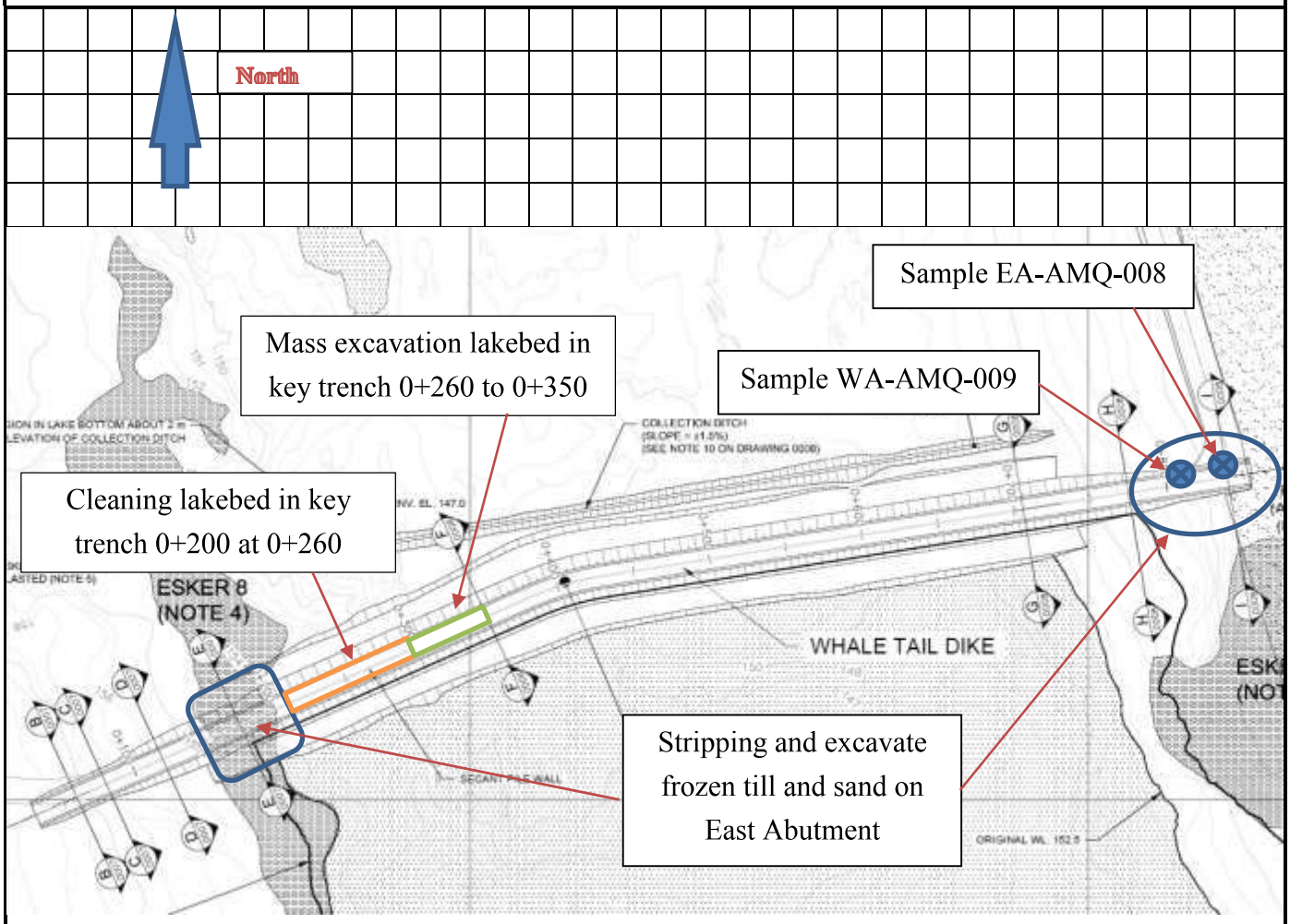
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-08-03 (Night Shift)	

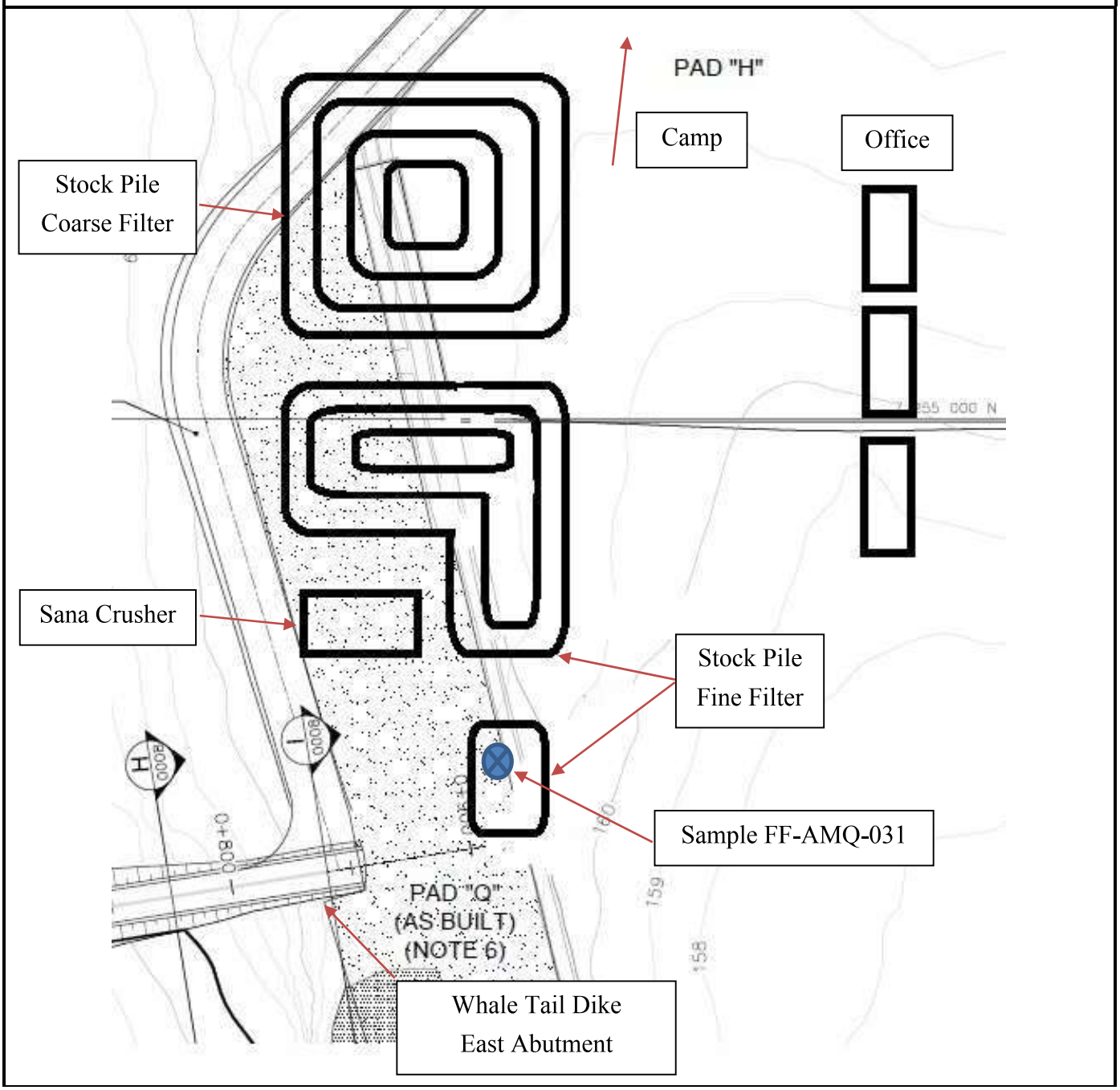


Prepared by: _____ Verified by: _____

AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 2 of 2
Inspection date: 2018-08-03 (Night Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 05 , 2018 Day Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☒ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



10 ˚C

Field Results

- Fine filter in production. Took a sample (FF-AMQ-034) of fine filter from the daily production (August 5, 2018).
- The foundation approval for the clean-up of the key trench between 0+205 and 0+255 have been sign.
- Stripping of the West Abutment.
- The start backfilling the CF in the key trench between 0+215 and 0+230 on north side. A sample have been taken in place while they were removing the material.
- Mass excavation of lakebed at 0+260 to 0+340.
- Gradation on going.
- Bathymetry test stop at 0+380

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

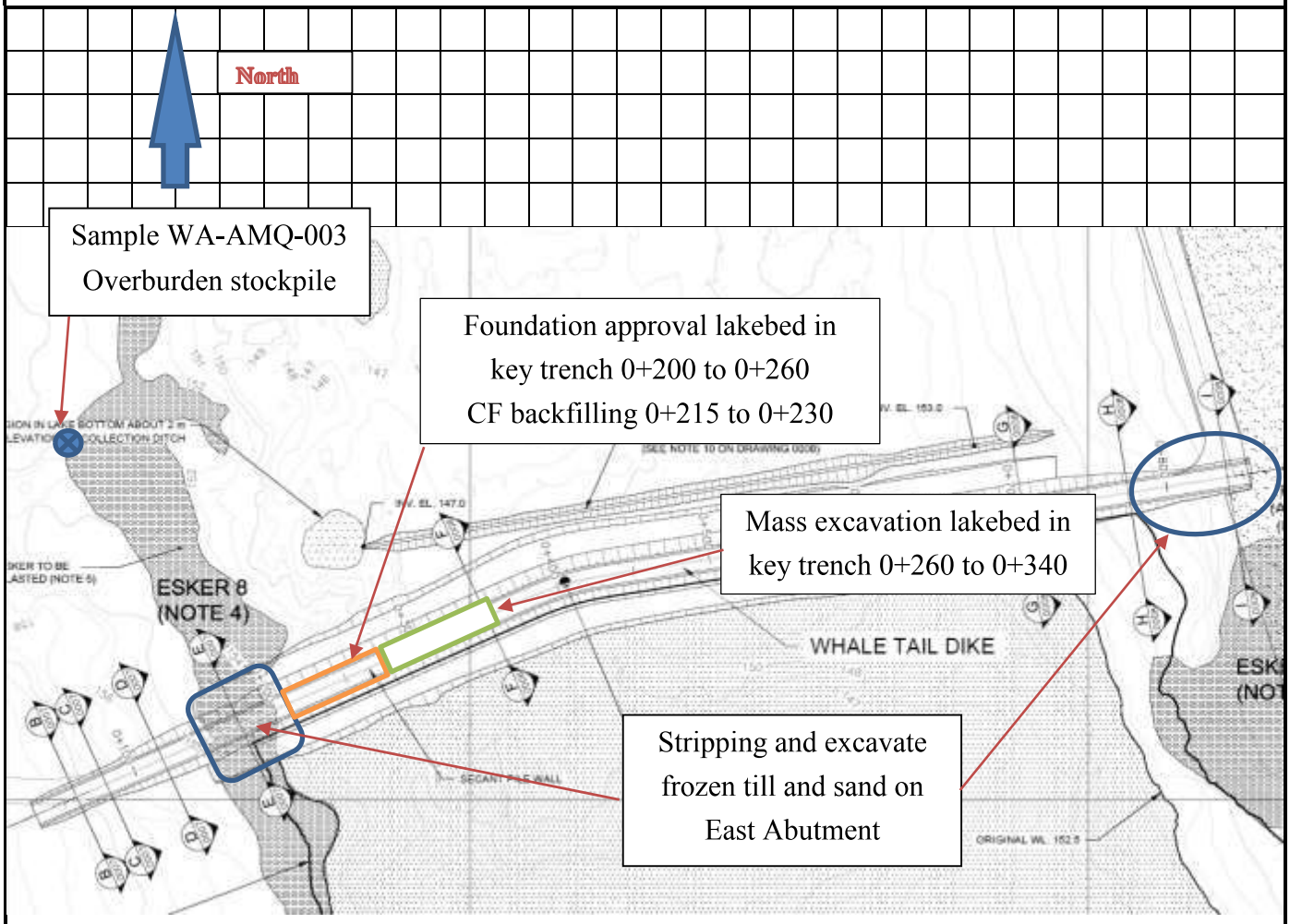
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-08-05 (Day Shift)	

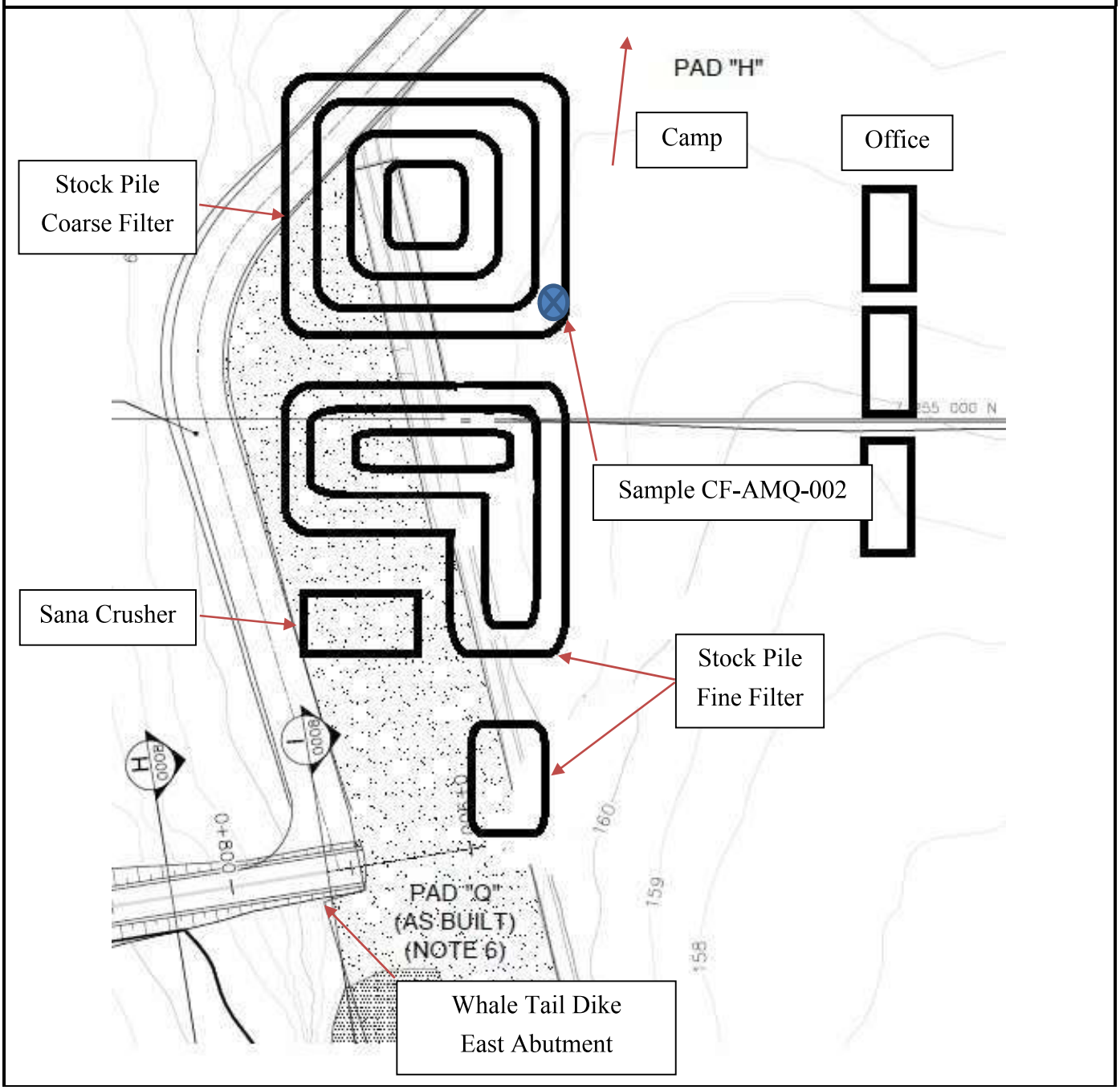


Prepared by: _____ Verified by: _____

AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 2 of 2
Inspection date: 2018-08-05 (Day Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 05 , 2018 Night Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☒ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

8 ˚C

Field Results

- Fine filter in production.
- Approval form for the backfill of the CF in the key trench between 0+215 to 0+245 for the north side and 0+217 to 0+245 for the south side.
- Stripping of the West Abutment.
- Took sample (CF-AMQ-003) at station 0+225 from the south side in the key trench.
- Mass excavation of lakebed at 0+340 to 0+353.
- Gradation FF-AMQ-031, 032. Others on going.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cérdick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

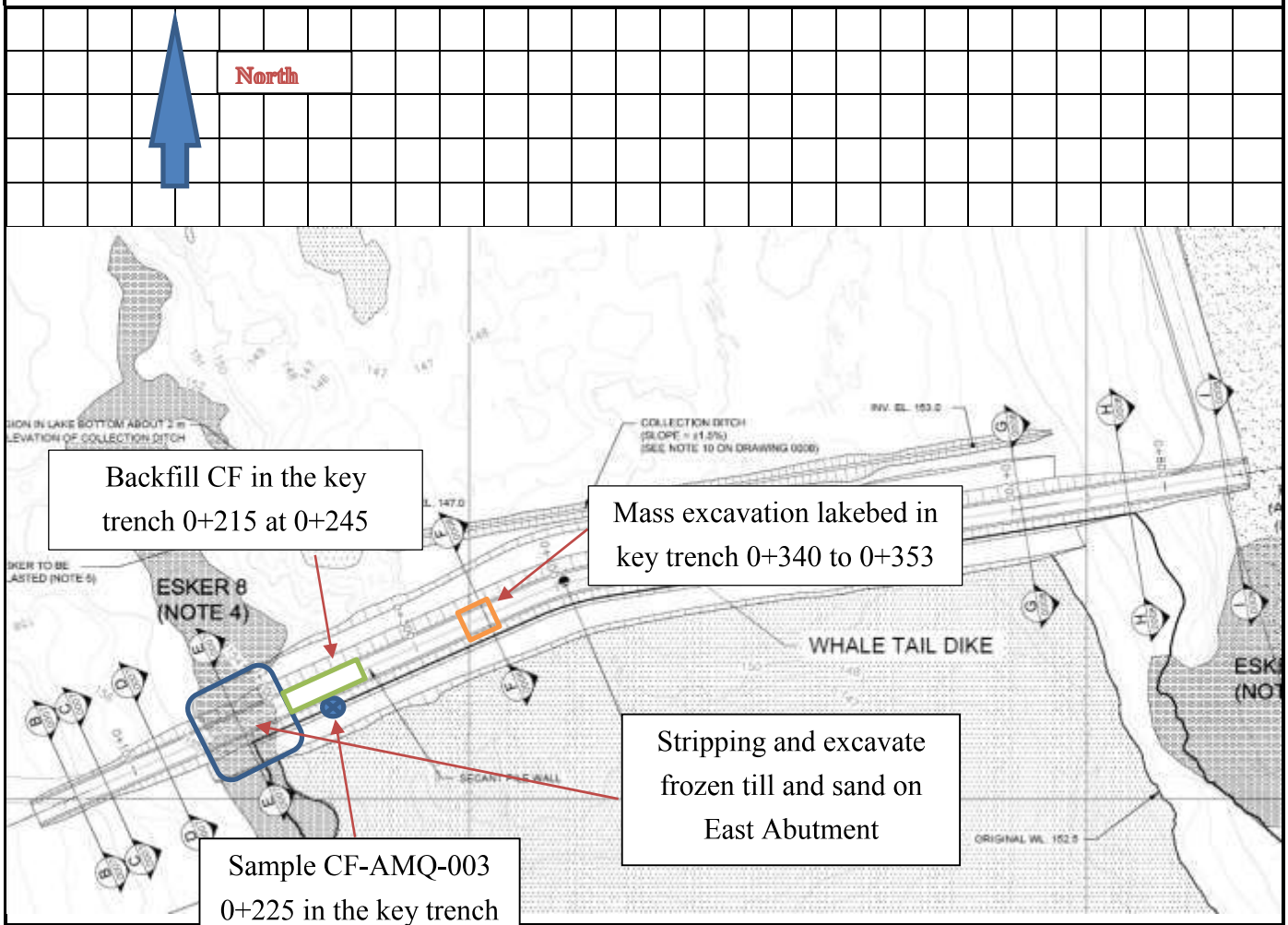
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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-08-05 (Night Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 06 , 2018 Day Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☒ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



10 ˚C

Field Results

- Fine filter in production. The stock pile is not placed has mention in the norms. No stages in the stockpile. There is segregation in the material.
- Approval form SNC for the backfill of the FF in the key trench between 0+240 and 0+220 .
- Stripping of the West Abutment and cleaning the East Abutment.
- Took sample (FF-AMQ-034) at station 0+230 elev. 154.0 in the key trench.
- Non lakebed cleaning of mass removal, not enough workers (travel day).
- Gradation CF-AMQ-002, 003. Others on going.
- Bathymetry done between station 0+245 and 0+295.
- Foundation approval from SNC for the foundation (key trench) between 0+255 and 0+295.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

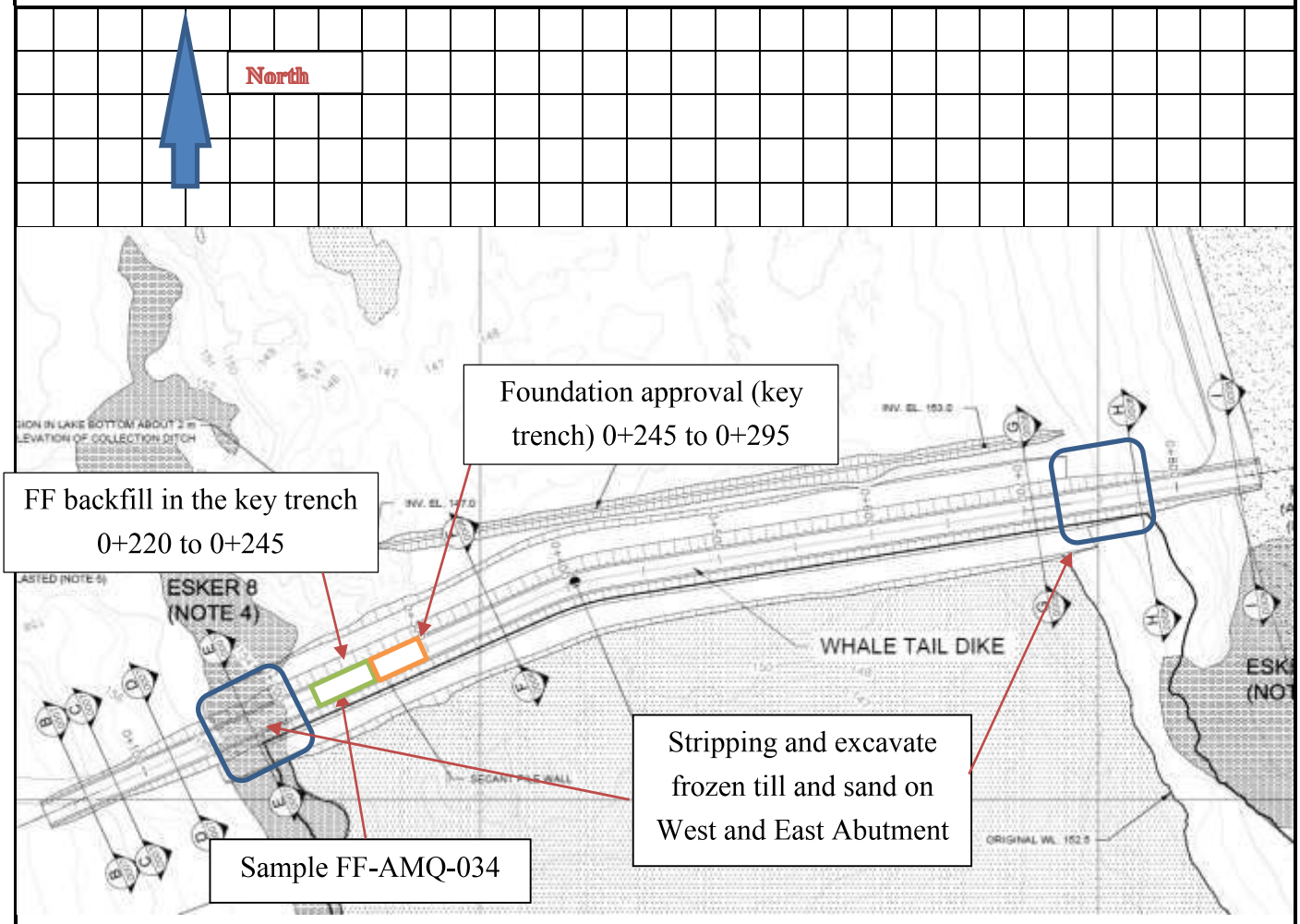
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-06 (Day Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 06 , 2018 Night Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☒ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

7 ˚C

Field Results

- Fine filter in production.
- Approval form for the backfill of the CF in the key trench between 0+245 to 0+280 for the north and south side.
- Stripping of the East and West Abutment.
- Mass excavation of lakebed at 0+353 to 0+380.
- Cleaning the lakebed at station 0+295 to 0+310 for the north side.
- Placement for the backfill of the FF in the key trench between 0+240 and 0+260

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cérdick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

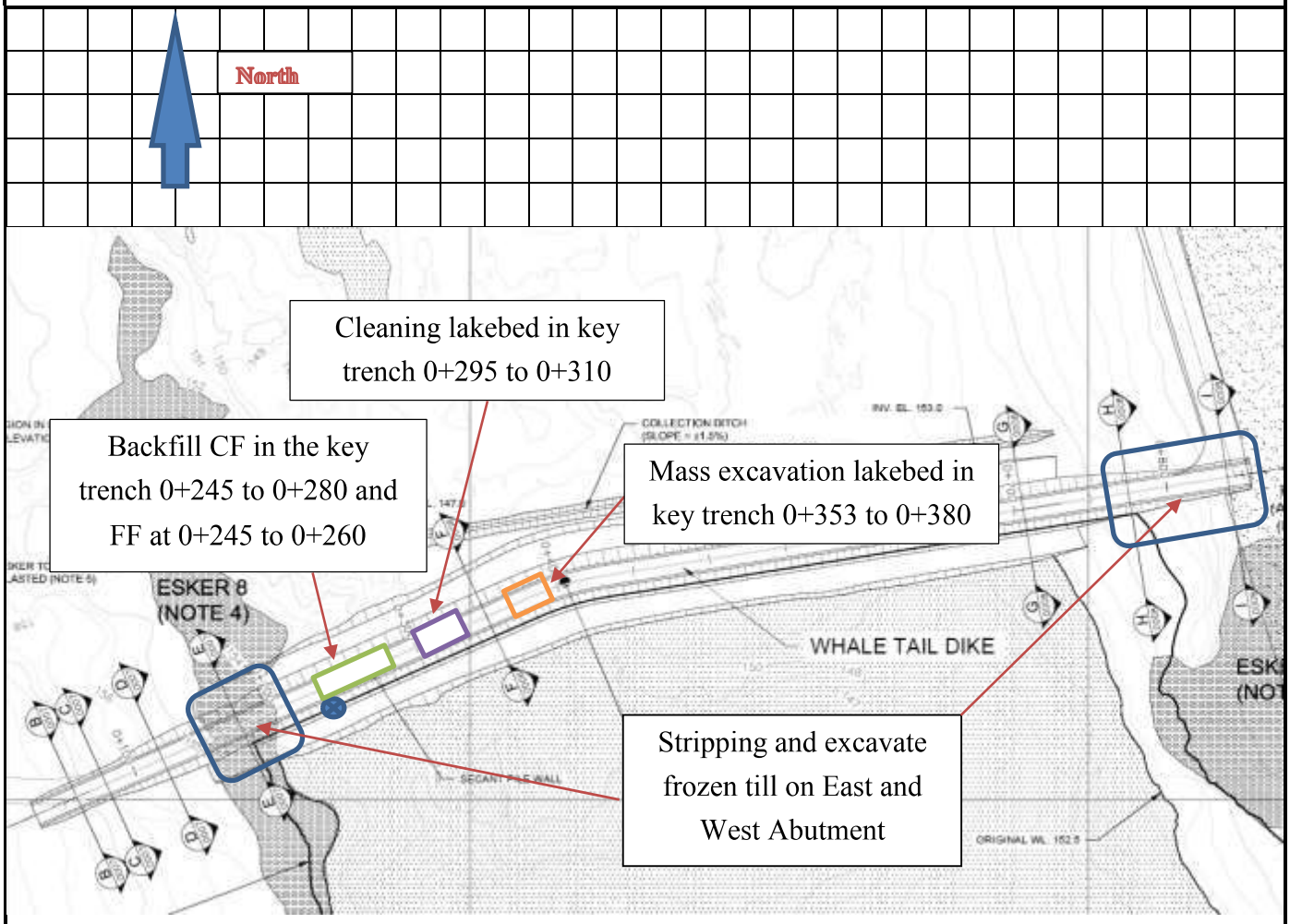
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-08-06 (Night Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 07 , 2018 Day Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☒ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

16 ˚C

Field Results

- Fine filter in production. Overall tonnage 119100 t.
- Station 0+295 to 328 :
- Cleaning the soft lakebed sediment, Bathymetry and the foundation approval by SNC for the key trench cleaning is done.
- Stripping of on the West Abutment.
- Mass excavation of lakebed at 0+380 to 0+400.
- Sample of fine filter in the key trench at 0+250
- Placement of the backfill for the FF in the key trench between 0+260 and 0+280
- Gradation #CF-AMQ-003 done and others on going

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Mélina Guay (Print Name)

From : AEM

Signature* : 

Project Manager : Daniel Pedneault

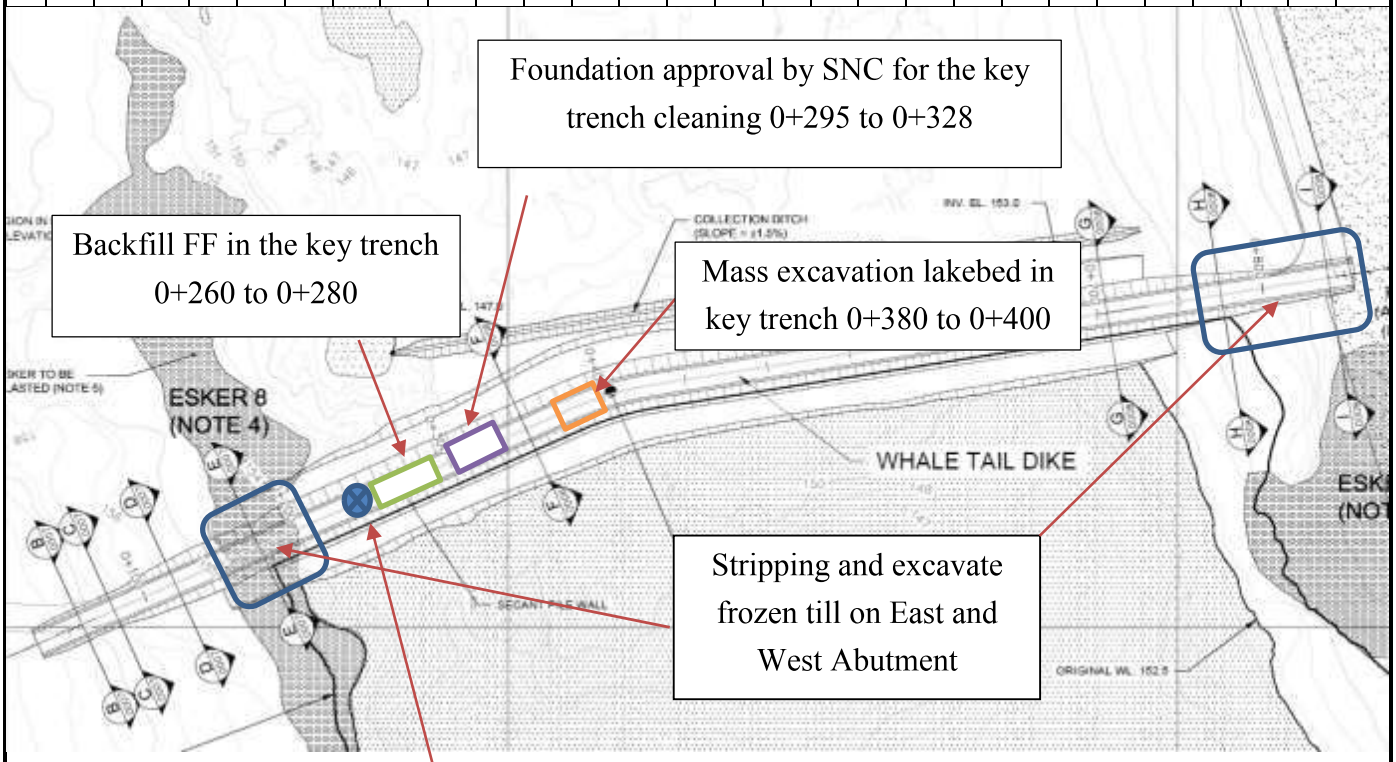
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-07 (Day Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 07 , 2018 Night Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☒ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

6 ˚C

Field Results

- Fine filter in production.
- Approval form for the backfill of the CF in the key trench between 0+280 to 0+320 for the north and south side.
- Mass excavation of lakebed at 0+400 to 0+420.
- Cleaning the lakebed at station 0+328 to 0+370 for upstream and downstream.
- Placement for the backfill of the FF in the key trench between 0+280 and 0+295

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Cérdick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

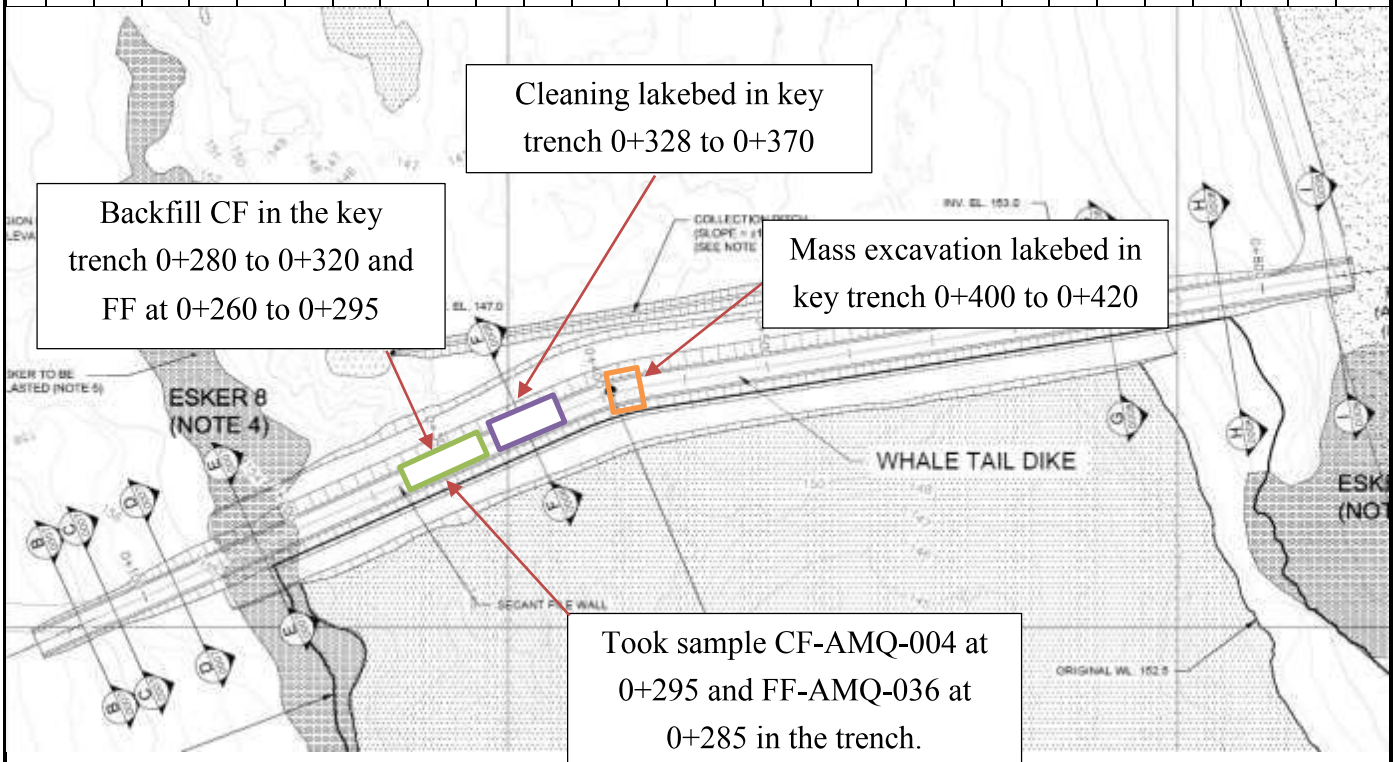
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-08-07 (Night Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 08 , 2018 Day Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☒ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

10 ˚C

Field Results

- Stripping of the east and West abutment
- Mass excavation of lakebed on going.
- Cleaning the lakebed between stations 0+328 to 0+360, again …. 1m offset from the second bathymetry. Third bathymetry didn't go as well as planned.

KCG had issues with the bathymetry between 0+328 and 0+360 there was too much turbidity and movement in the water. The third time, the turbidity was too high and the bed rock is too deep.

Corrective action to be taken:

The Fine Filter stock pile is not conform. Non benches, lots of segregation. The constructor put the fault on the lack of spaces to put is material.

In afternoon, they did some benches with the loader. No production was planned for the day. Mechanical issues.

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric Mcdonald

Inspector : Melina Guay
(Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

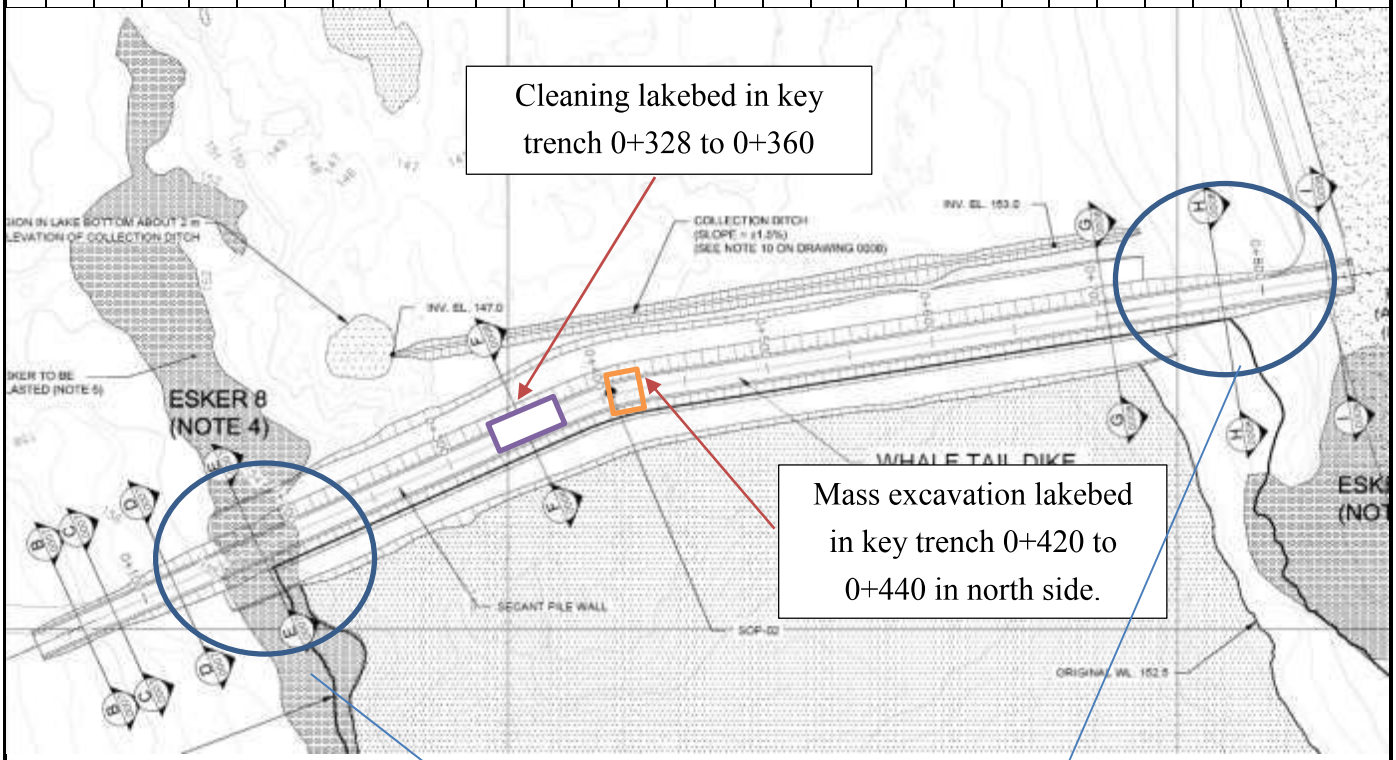
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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-08 (Day Shift)	

North



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 08 , 2018 Night Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☒ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

7 ˚C

Field Results

- Fine filter in production.
- Backfill of the CF in the key trench between 0+320 to 0+335. No backfill of the FF.
- Mass excavation of lakebed and rockfill at 0+440 to 0+480 for the north side.
- Cleaning and made the foundation approval from SNC for the foundation (key trench) between 0+328 to 0+360
- We have taken some “spot check” with survey stick to ensure in a reasonable way that 100% of the lakebed till is removed since the shovel alone won’t feel it.
- Stripping and excavation on West Abutment.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Cérdick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

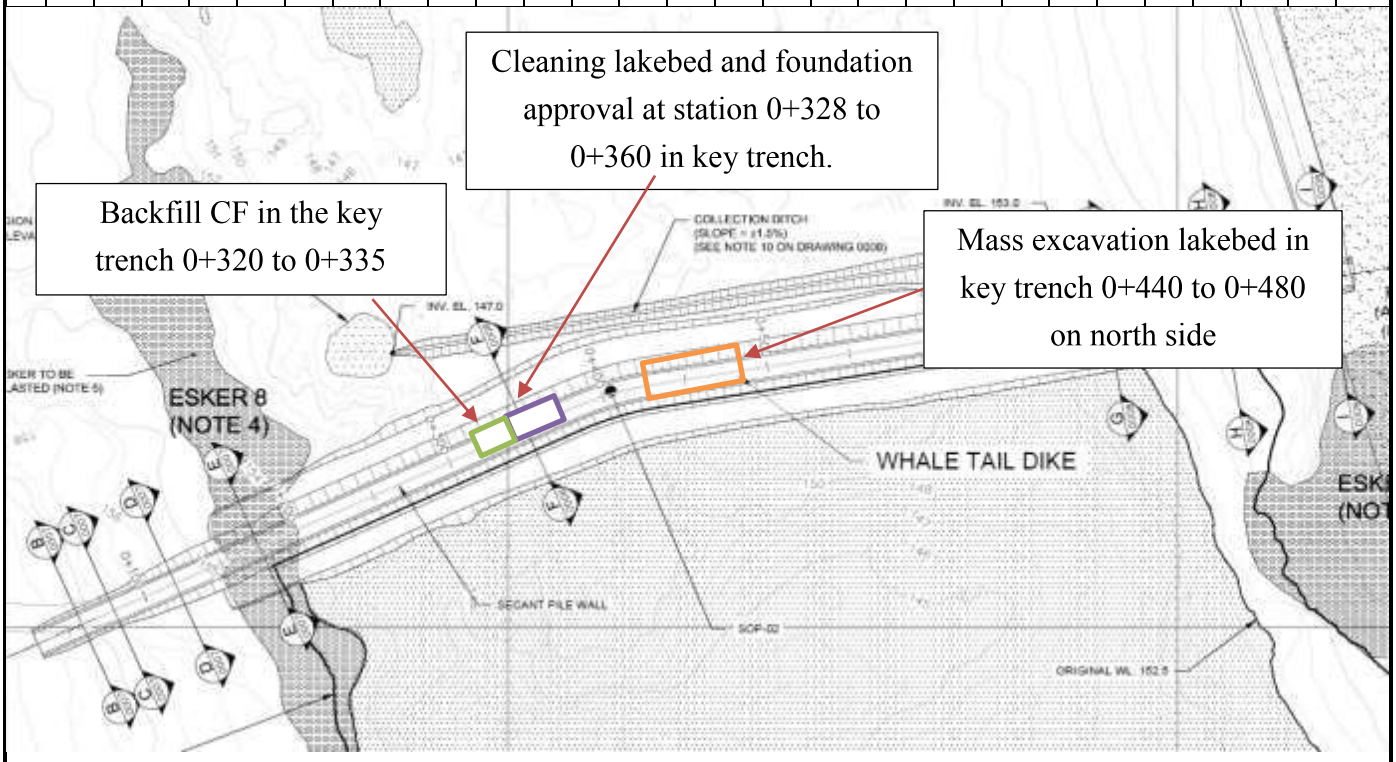
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-08-08 (Night Shift)	



Prepared by: _____ Verified by: _____

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 09 , 2018 Day Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☒ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



5 ˚C

Field Results

- Stripping of the east and West abutment the good material they use it for the road to Mammoth Dike.
- Mass excavation of lakebed on going.
- Cleaning the lakebed between stations 0+340 and 0+360, again …. We find out that we were 0.8m offset from the proposed bedrock. When we do the final cleanup we have to wait 10 -15 minutes to let the soil unfroze and dig it out.

KCG will write a procedure step by step to do before the foundation approval.

- Fine filter in production. The fine filter storage is better than yesterday. They did benches and they try to not dump the material from too high.
- Bathymetry with the gps shovel, will be done each 20m side by side. We have to be able to backfill faster. The sediments won't have the time to settle.
- Slopes and mass excavation between 0+340 and 0+360 have been done with the big shovel again.
- Between 0+330 and 0+340 the slopes aren't not like it was plan. The quantity of coarse filter is less than is supposed to be. A non-conformity is raise by the contractor but Agnico would prefer to fix the problem rather than have a non-conformity.
- Foundation approval on the south side between 0+342 and 0+363. The constructor have de permit to backfill only on south side with coarse filter, the north side will be done on night shift.

Gradation #EA-AMQ-002 done others on going by Daniel Roy.

The Coarse filter between 0+328 and 0+340 on south side have to be removed based on decision from SNC.

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric Mcdonald

Inspector : Melina Guay
(Print Name)

From : AEM

Signature* : 

Project Manager : Daniel Pedneault

Time on site : 12h

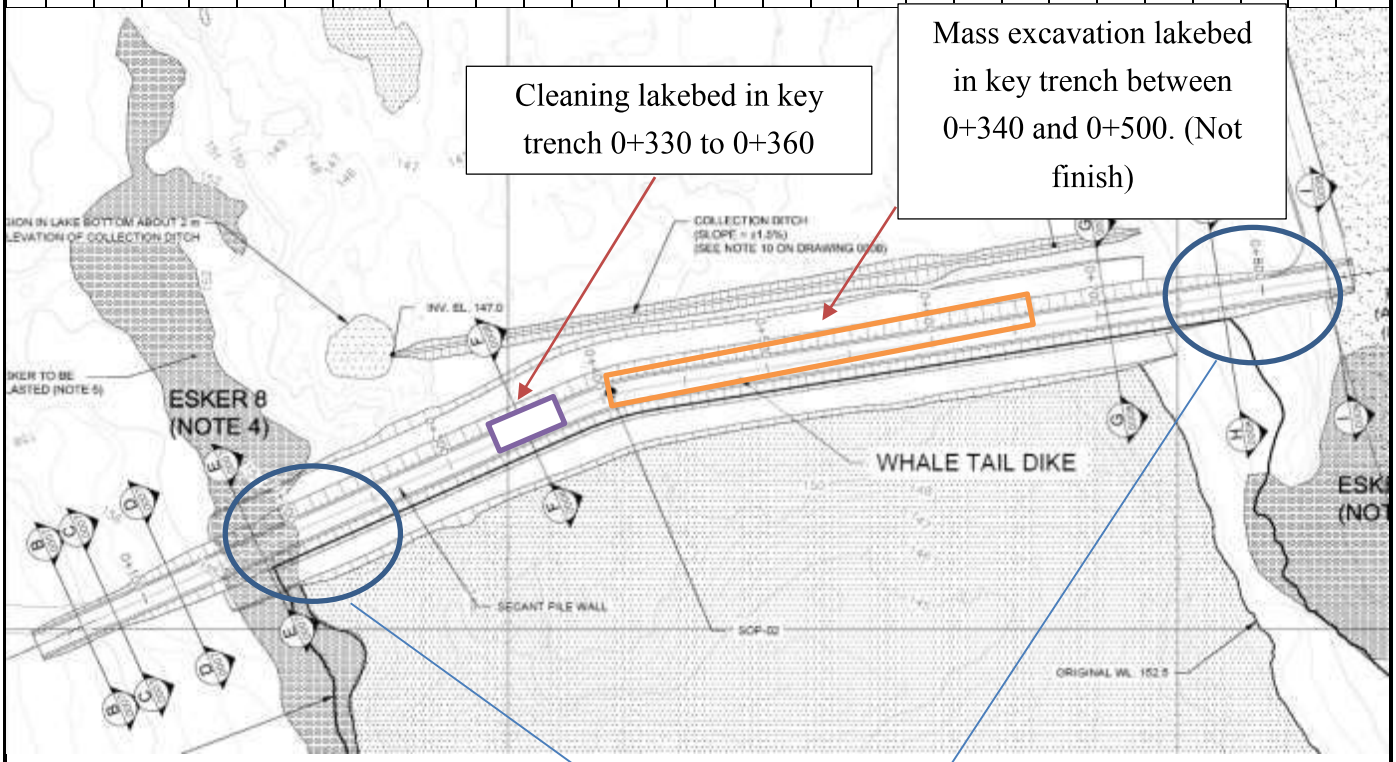
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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-09 (Day Shift)	

North



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 09 , 2018 Night Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☒ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



5 ˚C

Field Results

- Fine filter in production.
- Backfill of the CF in the key trench at 0+328 to 0+352 for the south side.
- Mass excavation of lakebed and rockfill.
- Cleaning and made again the foundation approval from SNC for only the south foundation (key trench) at 0+328 to 0+352.
- Stripping and excavation on West Abutment.
- The removal CF in the key trench must not be use again for the backfill.
- Took sample of CF in the key trench at station 0+345 for the south side.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Cérdick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

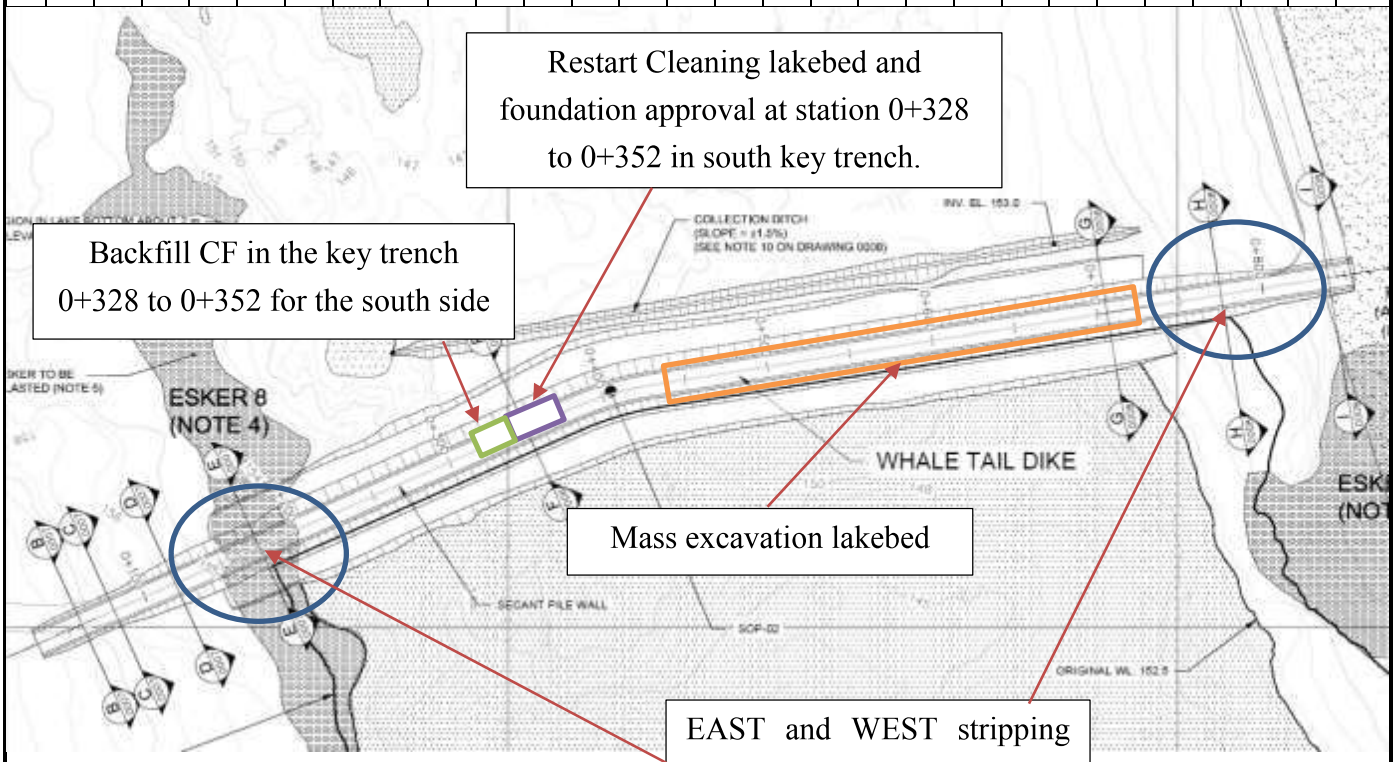
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-08-09 (Night Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 10 , 2018 Day Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☒ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



5-10 ˚C

Field Results

- Stripping of the east and West abutment.
- Mass excavation of lakebed on going.
- Foundation approval to backfill the CF and the FF in the key trench.
- Coarse filter backfill between 0+328 and 0+360 on south side only. FF between 0+314 and 0+325
- Fine filter in production.
- Bathymetry with shovel gps done between 0+340 and 0+360 on north side.

The slopes will be profiles by taking the deepest point of the bedrock and add 1m deeper to be sure if we take off more material the slopes will be alright.

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric Mcdonald

Inspector : Melina Guay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

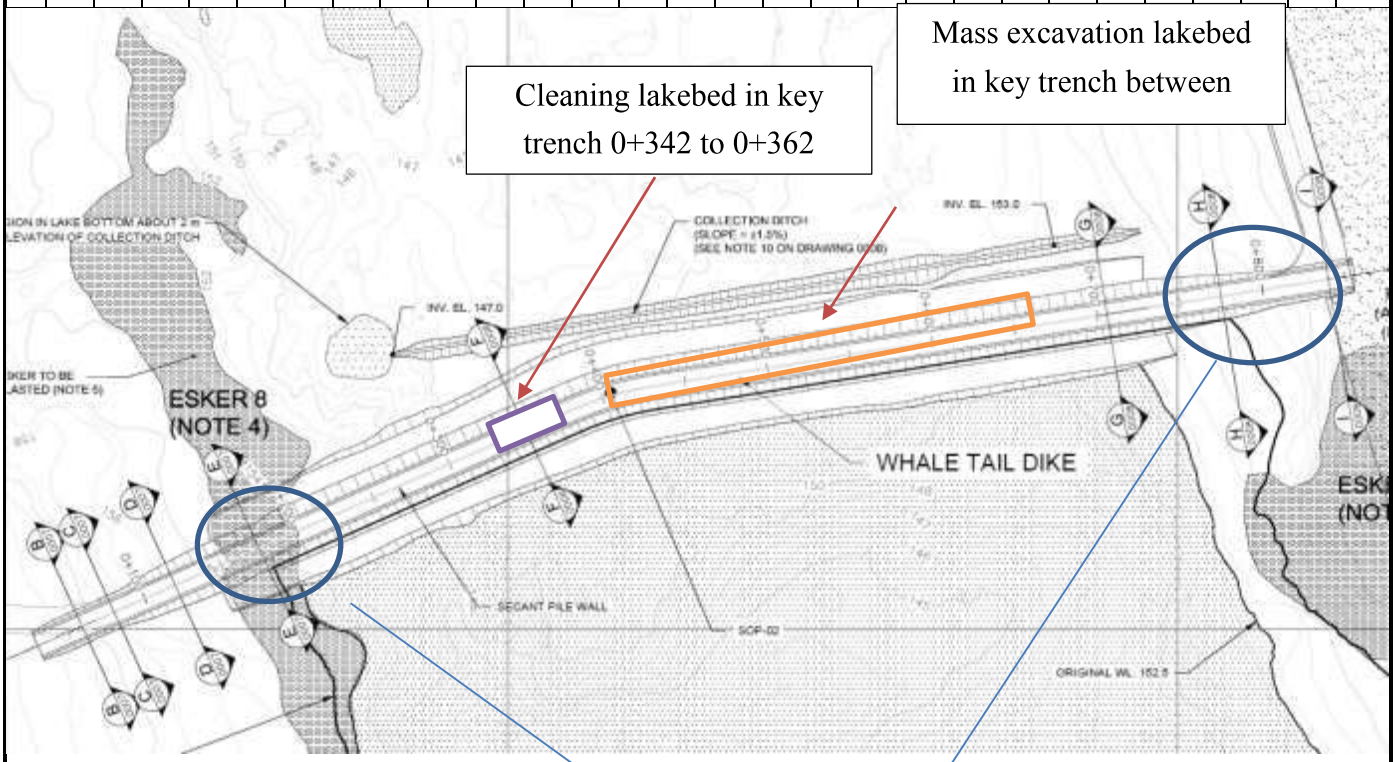
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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-10 (Day Shift)	

North



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 10 , 2018 Night Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☒ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

5 ˚C

Field Results

- Fine filter in production.
- Backfill and approval form of the CF in the key trench at station 0+328 to 0+355 for the north side.
- Mass excavation of lakebed and rockfill on going.
- Cleaning of the lakebed at station 0+360 to 0+070. Between this stations, we have excavated a fault zone with heavily fractured bedrock. We stop at el: 144 for wait the decision by Agnico Eagle.
- Took sample FF-AMQ-037 in the key trench at station 0+335 and el: 153m.
- Took sample of fault gouge in the key trench at station 0+361 and el: 144.15m.
- Backfill FF in the key trench at station 0+325 to 0+330.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Cédick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

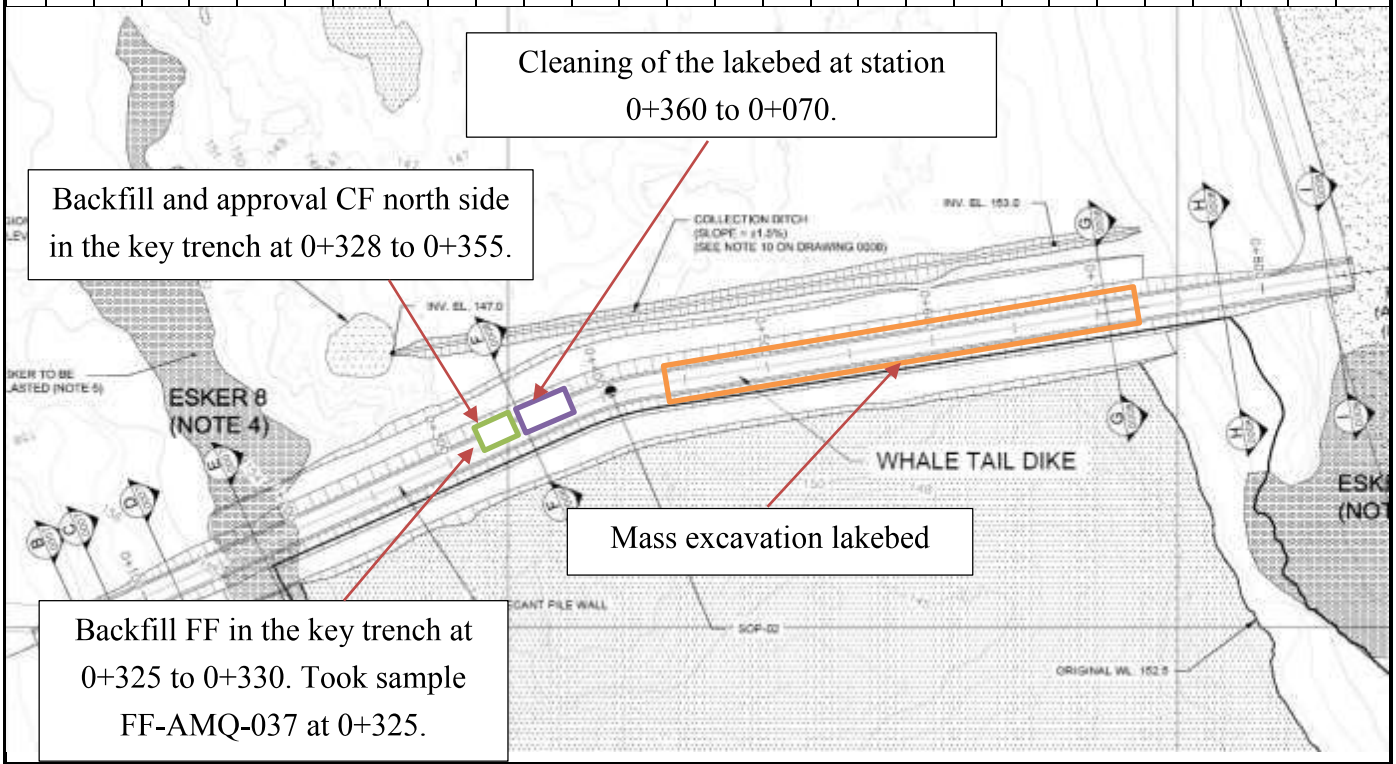
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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-08-10 (Night Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 11 , 2018 Day Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☒ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

5 ˚C

Field Results

- Stripping of the east and West abutment.
- Mass excavation of lakebed on going.
- Between station 0+355 and 0+375, the contractor don't have the equipment to go as deep as 143.08m, so SNC and Agnico discuss with the designer and decided to stop the excavation with a maximum elevation at 143.08m.
- FGL propose a work procedure between 0+355 and 0+375 to be able to clean the foundation, do the bathymetry and profile the slopes side by side. Put the CF after the foundation approval, clean the center again, do another bathymetry for the center line and put the FF after the second approval.
- Gradation #CF-AMQ-004, FF-AMQ-033, 034, 035, 036 send.
- Gradation on going by Daniel Roy

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric Mcdonald

Inspector : Melina Guay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

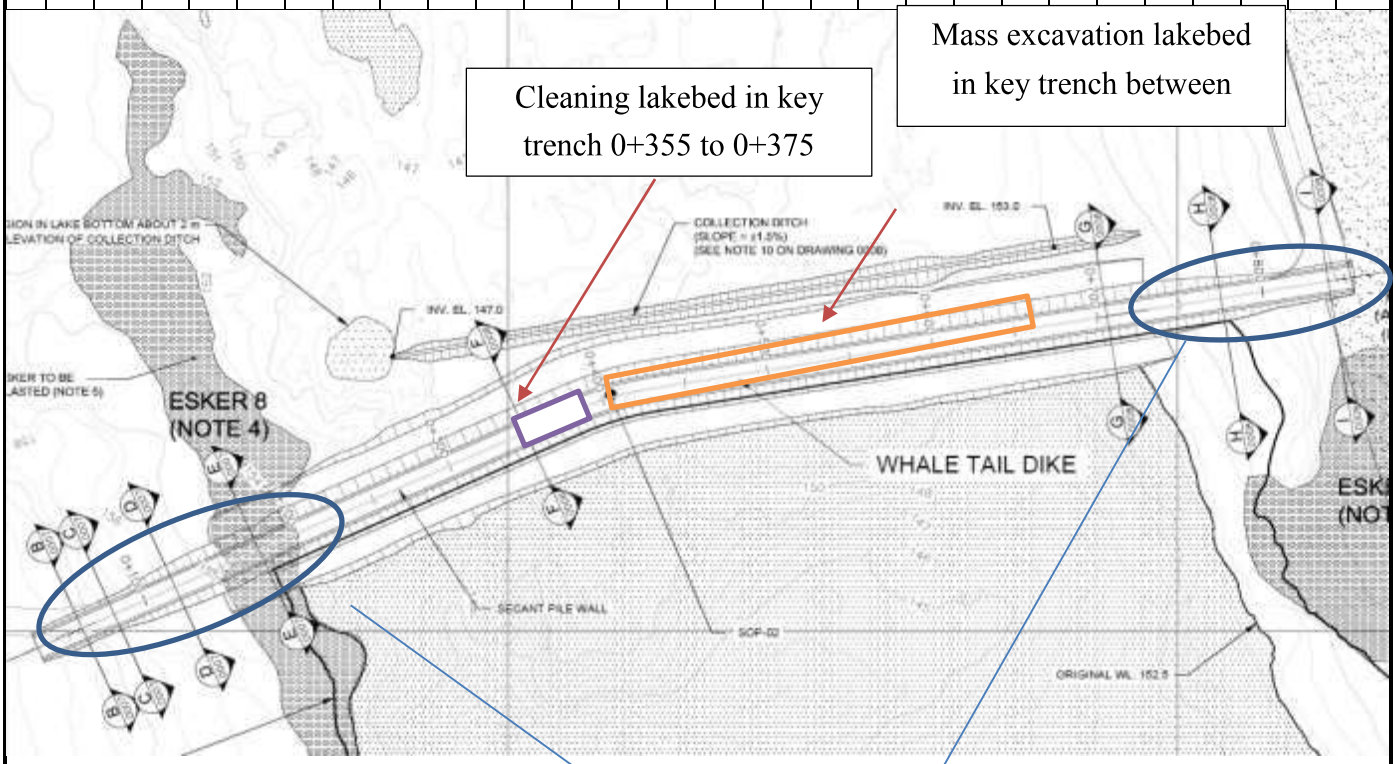
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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-11 (Day Shift)	

North



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 11 , 2018 Night Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☒ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

2 ˚C

Field Results

- Fine filter in production.
- Mass excavation of lakebed and rockfill on going.
- Bathymetry with the GPS shovel, will be done at station 0+150 to 0+182 and 0+355 to 0+370.
- After some spot check with the shovel around the FF at station 0+205, we find at bottom the key trench a lot of lakebed sediment. We need to make another clean-up for two side between the stations 0+182 to 0+205 before start bathymetry.
- Slopes and mass excavation between 0+355 and 0+370 have been done with the big shovel again at the end of bathymetry.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Cédick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

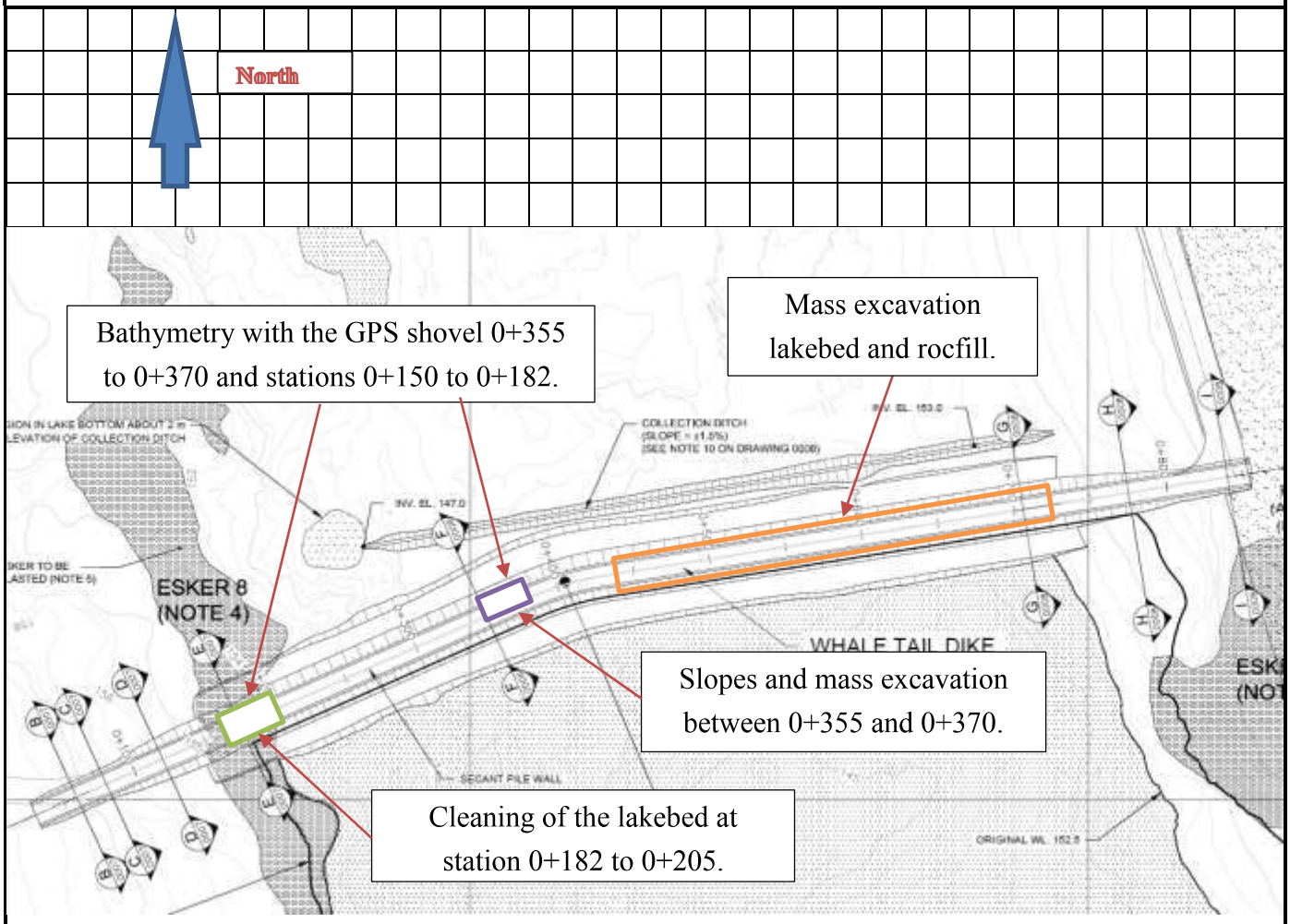
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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-08-11 (Night Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 12 , 2018 Day Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☒ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF




3 ˚C

Field Results

- Stripping of the east and West abutment.
- Final cleanup of the lake bed between 0+183 and 0+205.
- Bathymetry between 0+183 and 0+205 both sides
- Finalizes Slopes profiling between 0+355 and 0+375
- Foundation approval between 0+355 and 0+375. (FGL in authorize to put the CF between those station.) Another cleanup and bathymetry have to be done for the center line. (the trench is too wide)
- Foundation approval between 0+150 and 0+205 (FGL is authorize to put the CF between those stations)
- At stations 0+620 elev. 149.79m
  0+635 elev. 149.88m
  0+650 elev. 149.66m

In 24h, we will have to note the elevation of the ice at the same station to see if it's melting.

- Verification of the deepest point of the toe between 0+150 and 0+125 (end of water). (sloping)

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric Mcdonald

Inspector : Melina Guay
(Print Name)

From : AEM

Signature* : 

Project Manager : Daniel Pedneault

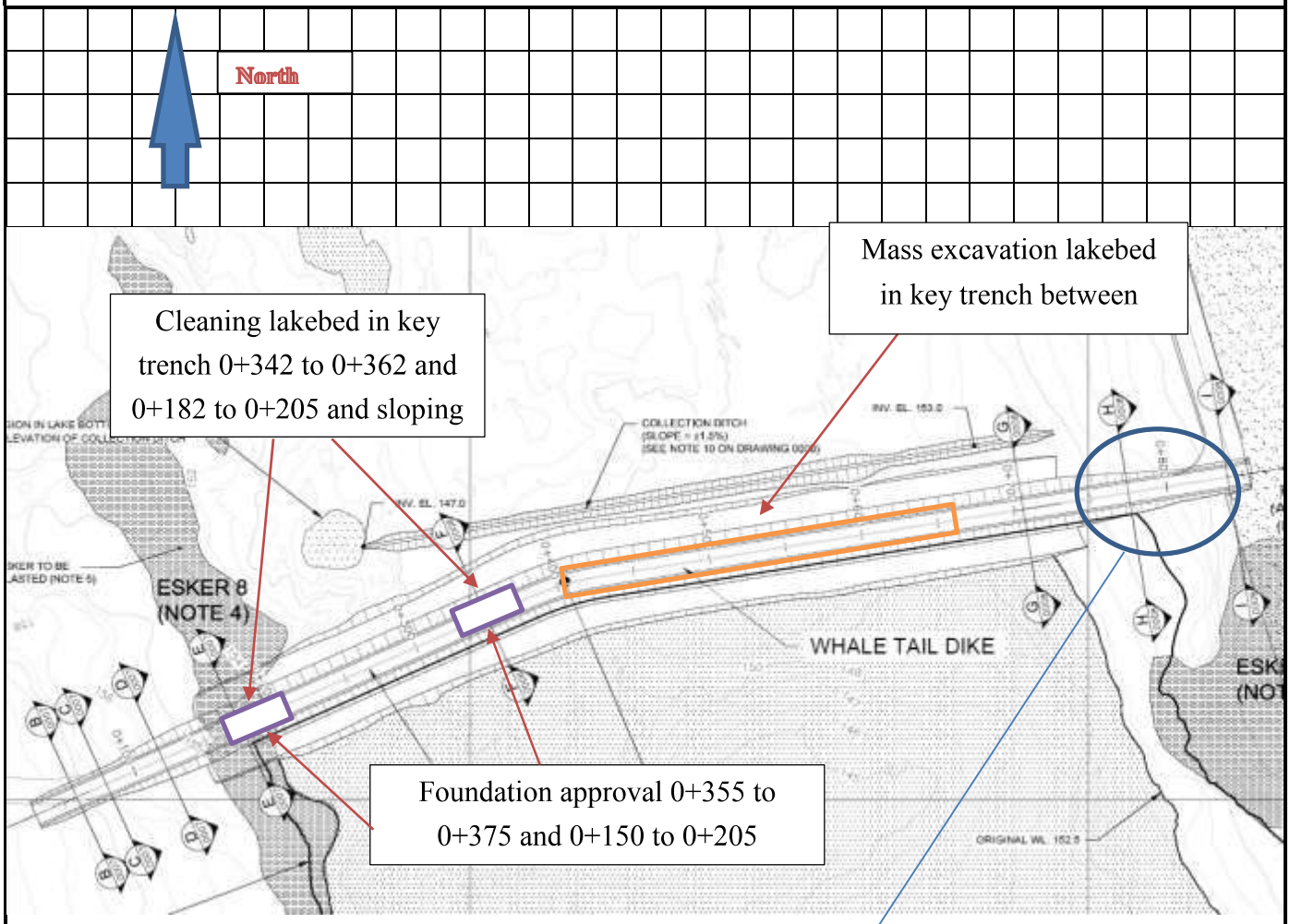
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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-12 (Day Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 12 , 2018 Night Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☒ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



2 ˚C

Field Results

- Fine filter in production.
- Striping of the East. After visual inspection, some operators working at the East abutment should need to follow the same procedures as the workers who works close to water. The heavy equipment work below water level at about five meter from the shoreline.
- The bedrock is not enough clean at West abutment at station 0+125 to 0+060. Their need to excavate more material before the approval foundation.
- Backfill of CF between stations: -0+355 to 0+375 north side. (Sampling: CF-AMQ-006 at 0+370, key trench)
  -0+205 to 0+150 south side. (Sampling: CF-AMQ-007 at 0+185, West key trench abutment)
- Bathymetry between 0+150 and 0+132 both sides.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Cédick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

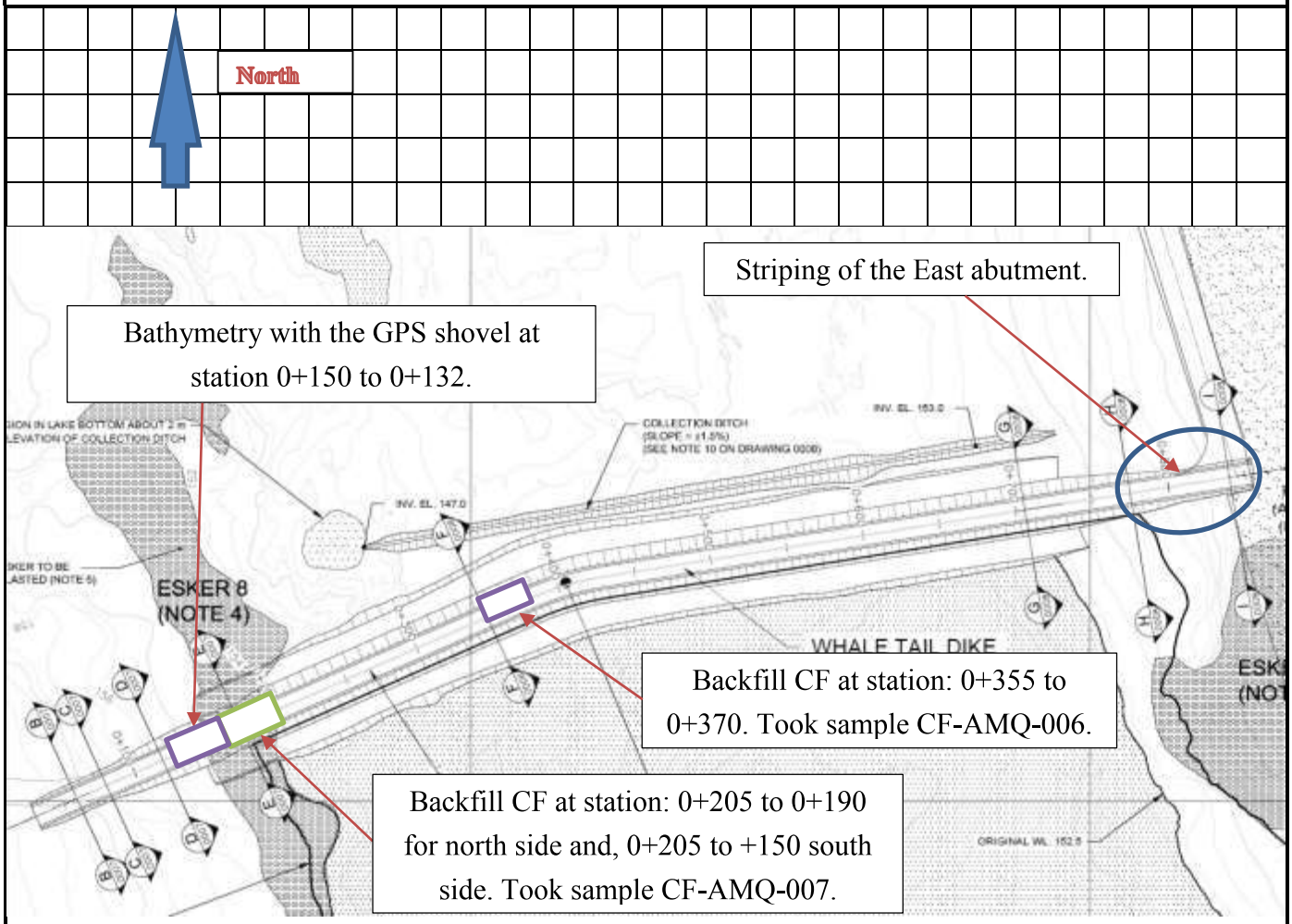
Time on site : 12h

AGNICO EAGLE

Daily Field Report

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Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-08-12 (Night Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: August 13th , 2018 Day Shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☒ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF




3 ˚C

Field Results

- Fine filter in production at Sana crusher.
- Stripping and dewatering in east abutment.
- Backfill of CF between stations: -0+150 to 0+130 both sides
- Foundation approval for the key trench and the coarse filter at stations 0+150 to 0+130.
- Fine filter placement start at station 0+240 to finish and at the end of the shift on station 0+205.
- Fine filter sampling (FF-AMQ-039) at station 0+222. (5H00 PM)
- Approved the section of coarse filter station 0+205 at 0+150 on both side. The backfill of FF will follow.

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Daniel Roy

From : AEM

Signature* : (Print Name)

Project Manager : Daniel Pedneault

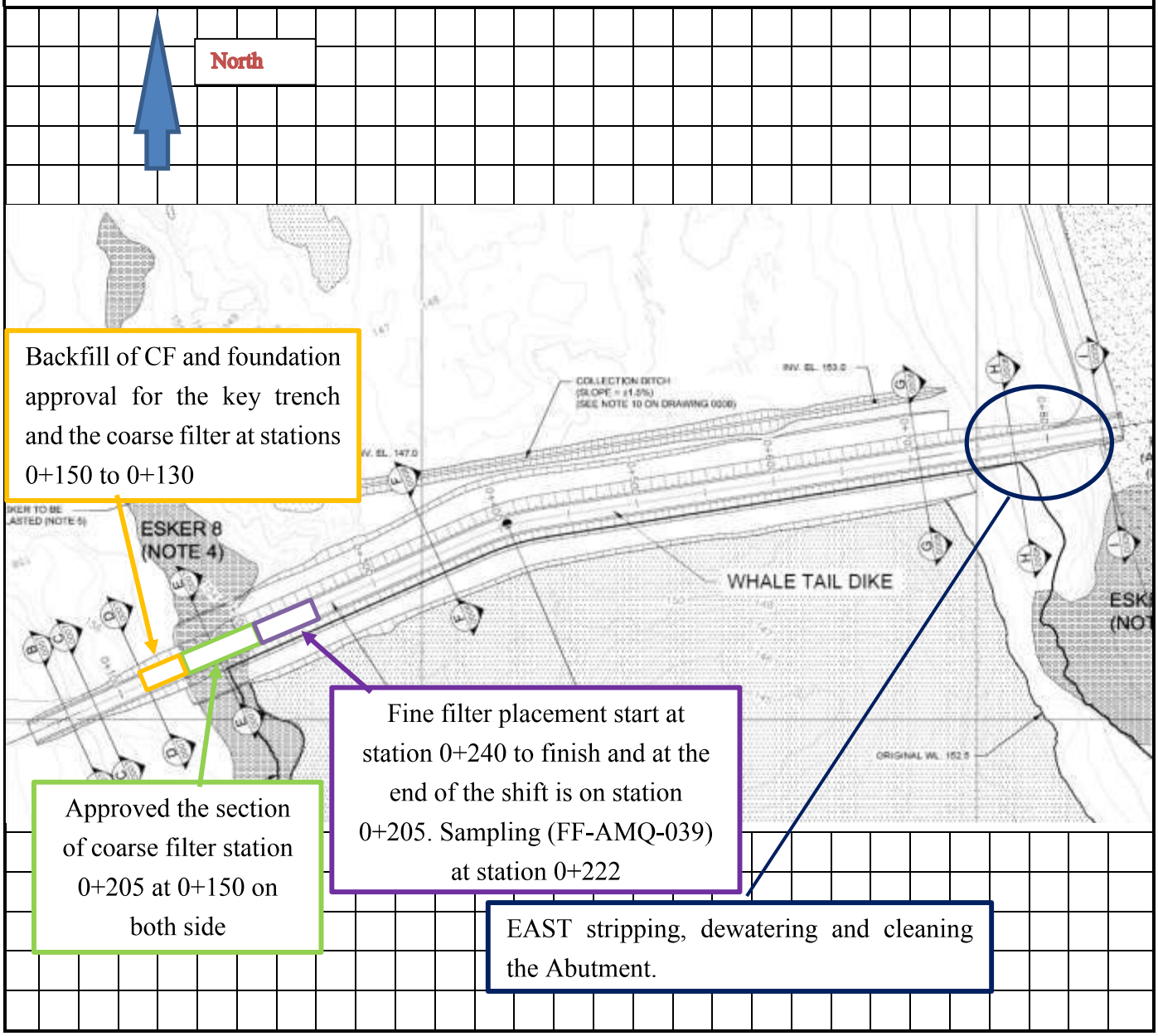
Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-13 (Day Shift)	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-13(Night)
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130305-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

3 ˚C

Field Results

- Fine filter in production at Sana crusher.
- Stripping in east abutment.
- Final cleaning in west abutment. Station 0+130 at 0+063. This section has been approved to 0+060.
- Fine filter placement start at station 0+205 to finish at the end of the shift on station 0+156.
- Fine filter sampling (FF-AMQ-040) at station 0+200. (10H00 PM)
- Approved the section of coarse filter station 0+355 at 0+375 on both side. (Placement of Fine filter until elevation 148 and bathymetry of it according to the conception proposition)

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

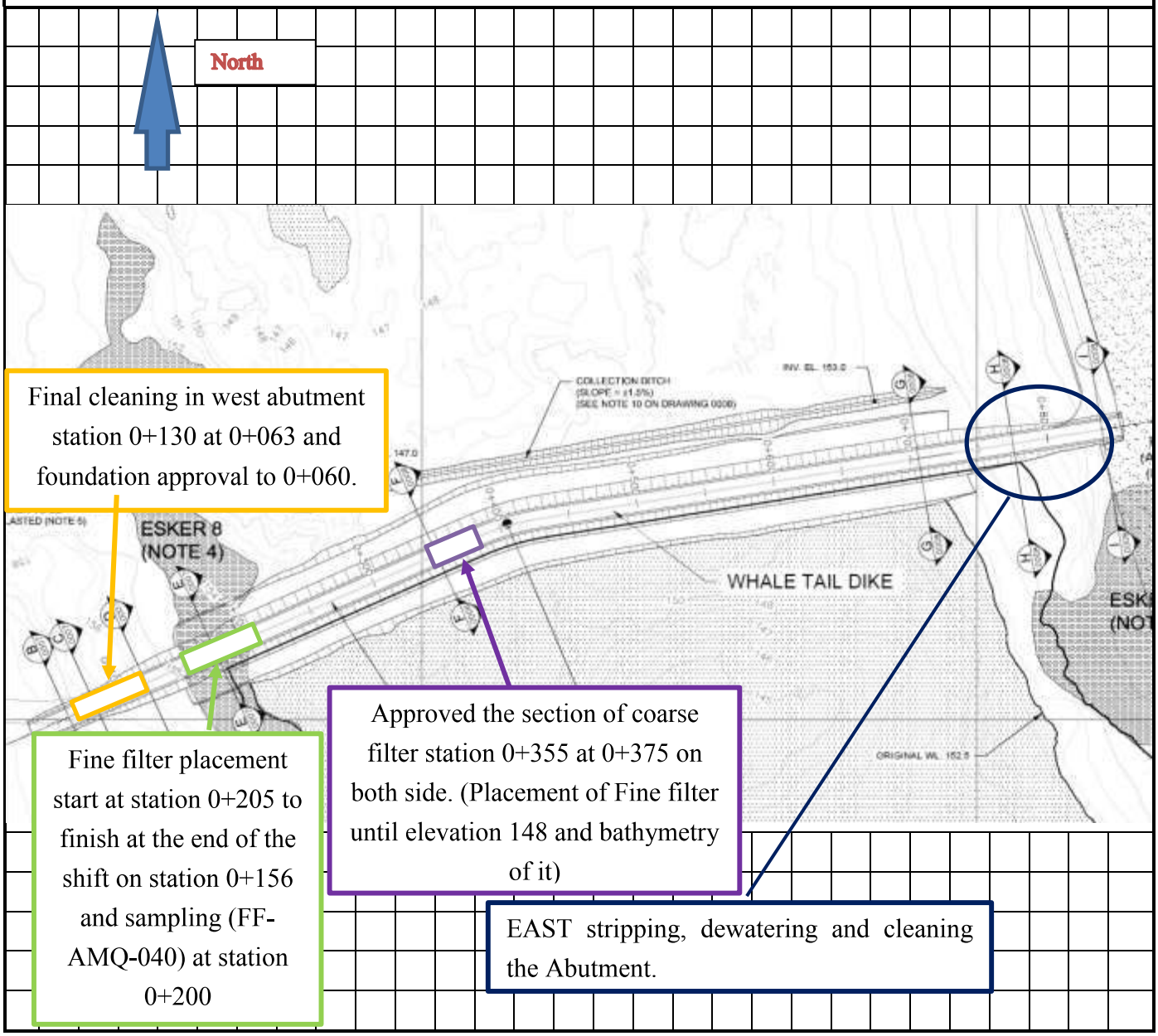
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-13 (Night Shift)	



Prepared by: Denis-Jacques Coulombe Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 14th august, 2018 (day shift)
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☒ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project Nº : 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	10˚C

Field Results

- FF in Production at the Sana Crusher, pad Q. Sample FF-AMQ-041 has been take for production gradation.
- CF placement at the WA from station 0+150 to 0+090, south side and North side.
- FF placement at the WA from station 0+156 to 0+086 for the elevation 153.5m, than went back with the FF form station 0+086 to 0+110 at the elevation 157,0m.
- Final cleaning of the key trench between the stations 0+375 to 0+395. We received the bathymetry result very late at the end of the shift, the approval form will be done after the double check during the beginning of the next day.
- Mid-rough cleaning of the key trench between the stations 0+400 to 0+620.
- FF placement into the key trench between the station 0+345 to 0+354, elevation 153,5m.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative :

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

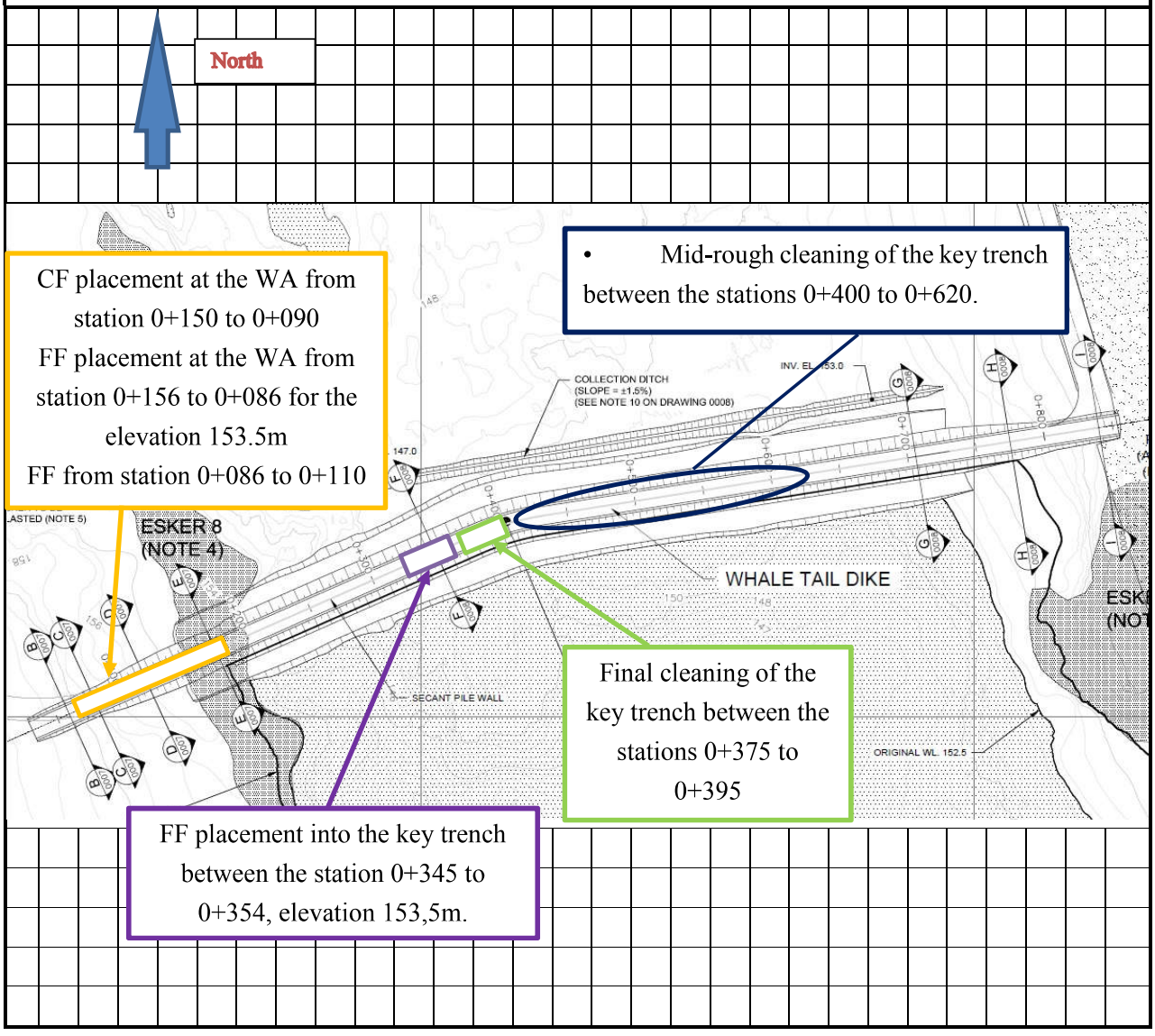
Project Manager : Daniel Pedneault

Time on site : 12h

AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-14 (Day Shift)	



Prepared by: Maxime Côté Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-14(Night)
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☒ Foundation Prep. ☐ Vibration Monitoring
	☐ Rockfill Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training	0 ˚C
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	

Field Results

- Fine filter in production at Sana crusher. Sampling (FF-AMQ-044).
- Fine filter placement 0+354 to 0+370. Sampling (FF-AMQ-045) at station 0+360.
- Cleaning foundation station 0+395 to station 0+415.
- Fine filter placement station 0+206 to station 0+226. Sampling (FF-AMQ-046) at station 0+218.
- Excavation and cleanup the rock at station 0+075 to 0+070.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

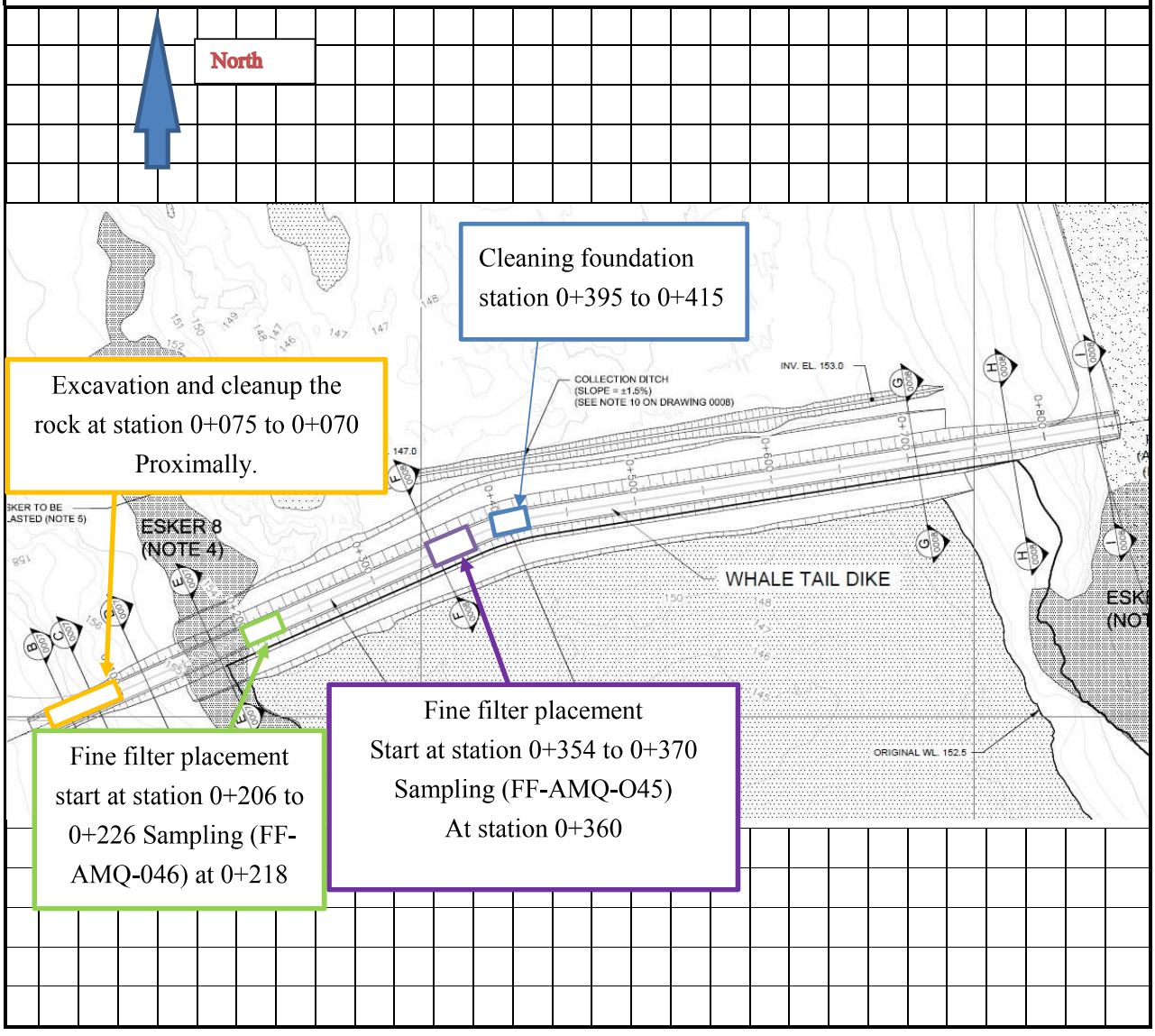
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-14 (Night Shift)	



Prepared by: Denis Jacques Coulombe Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 15th August, 2018 (day shift)
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☒ Foundation Prep. ☐ Vibration Monitoring
	☐ Rockfill Placement ☒ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF




7 ˚C

Field Results

- Fine Filter in production at the Sana Crusher (sample FF-AMQ-049).
- Stripping work at the East Abutment. We get now the bed rock, it need a good cleaning by a lip bucket and keep going on with the water management.
- Approval Form has been achieved for the key trench between the stations 0+375 to 0+395. Field check points and boat bathymetry has been done and the key trench is on the bed rock, free from mud and loose rock.
- Coars Filter placement on the South slope of the key trench between the station 0+375 to 0+390.
- Fine filter placement above the elevation 153.5m until 155.0m between the stations 0+226 to 0+275 (samples FF-AMQ-047 and FF-AMQ-048).
- Rough sloping on the North side of the key trench between stations 0+495 to 0+637.
- Final cleaning and slopping of the key trench between the stations 0+395 to 0+415. Field spots check has been done to assure that the key trench is on the bed rock, free of loose rock and of mud. The approval form is not delivered yet.

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric Mcdonald

Inspector : Maxime (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

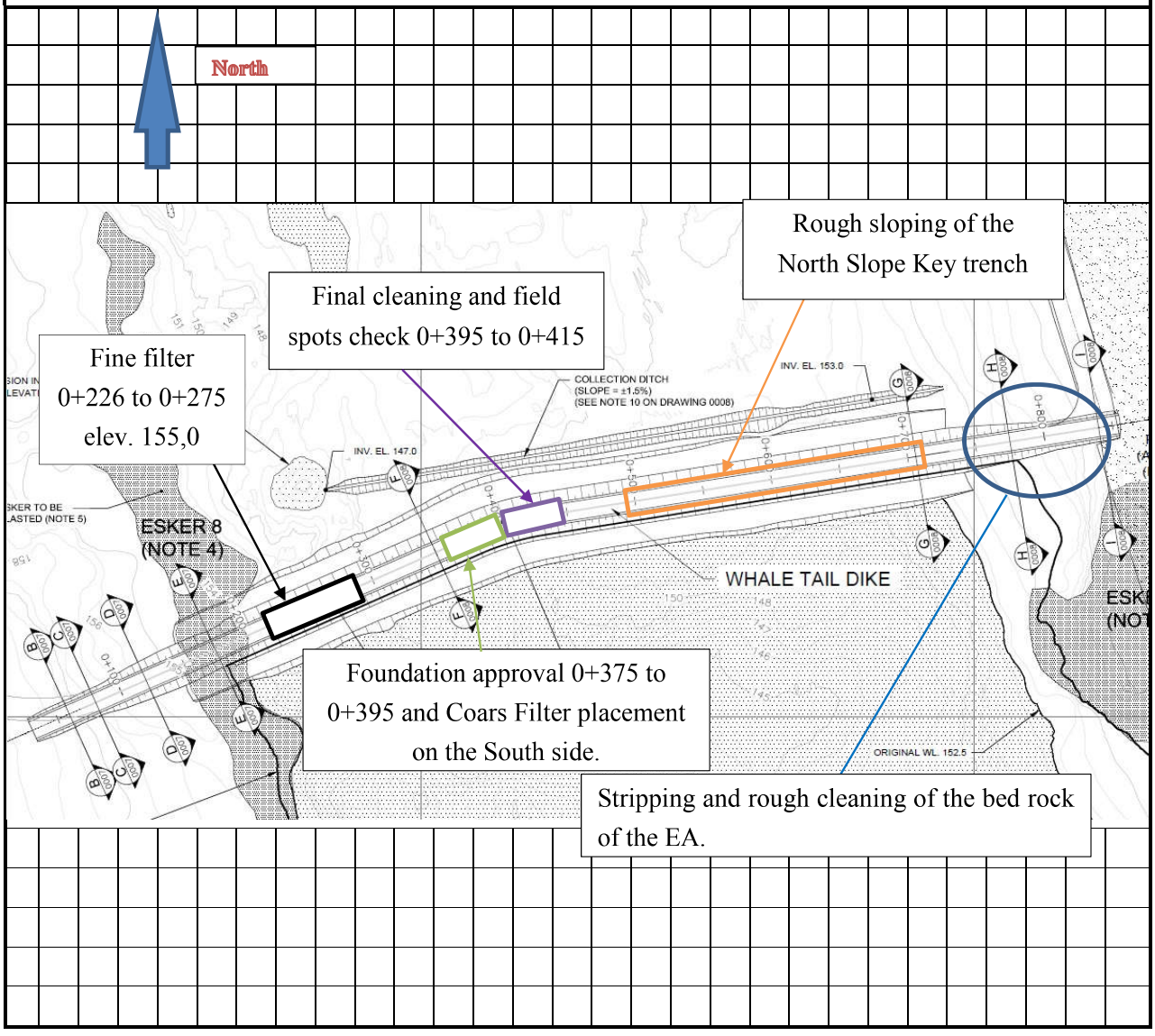
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-15 (Day Shift)	



Prepared by: Maxime Côté Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-15(Night)
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

0 ˚C

Field Results

- Fine filter in production at Sana crusher. Sampling (FF-AMQ-047).
- Coarse filter placement station 0+375 to 0+395 on both side.
- Coarse filter placement station 0+090 to 0+139 on upstream side. Sampling (CF-AMQ-009) at station 0+130.
- Cleanup foundation station 0+415 to 0+435.
- Stripping in east abutment.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonnald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

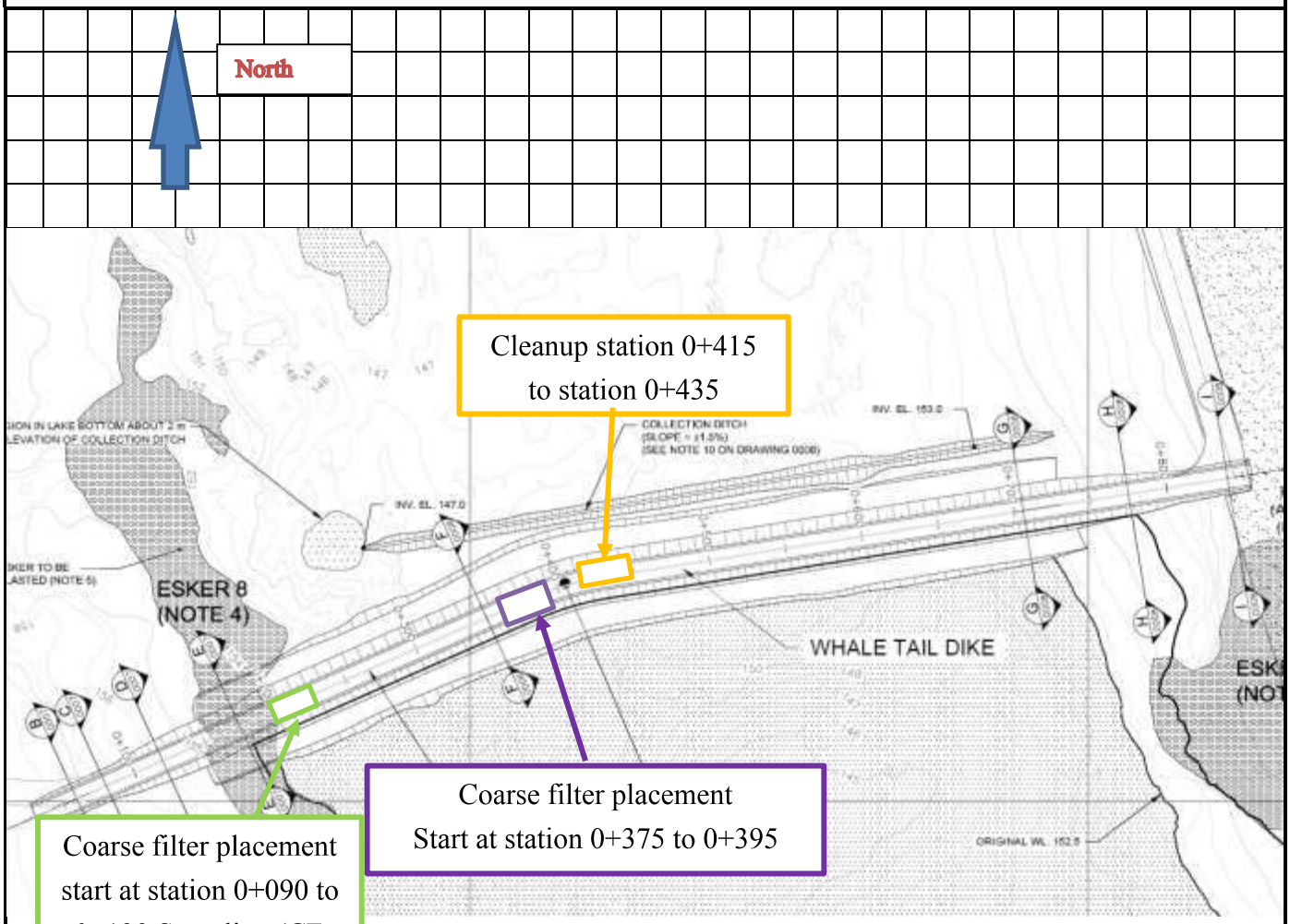
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-14 (Night Shift)	



Prepared by: Denis Jacques Coulombe Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 16th August, 2018
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☒ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training	8 °C
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	

Field Results

- Sana crusher in reparation, almost no production.
- Approval Form has been done for the key trench cleaning between the stations 0+395 to 0+415.
- Approval Form has been done for the placement of the Coars Filter into the key trench between stations 0+375 to 0+395.
- Fine Filter placement inside the key trench until elevation 153.5m and the station 0+375. (Sample FF-AMQ-051)
- Coars Filter placement on the north side of the key trench from station 0+139 to 0+170.
- Final cleaning of the key trench between stations 0+435 to 0+455. After my field spots check, the bed rock seems to be more fractured than it was for the section before (0+415 to 0+435). No approval form for the moment.
- East Abutment stripping thru the bedrock between stations 0+739 (elev. 150,70m) and 0+772 (elev. 150,38m). This bedrock is very broken, and was hard to do a perfect cleaning of it with the lip bucket (see the sketch). An approval form has been gave. They started to put rockfill on the south side of the EA to fill up all the material we lost during the thawing of the natural.
- Rough clean of the key trench between station 0+500 and 0+650

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Macdonald

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

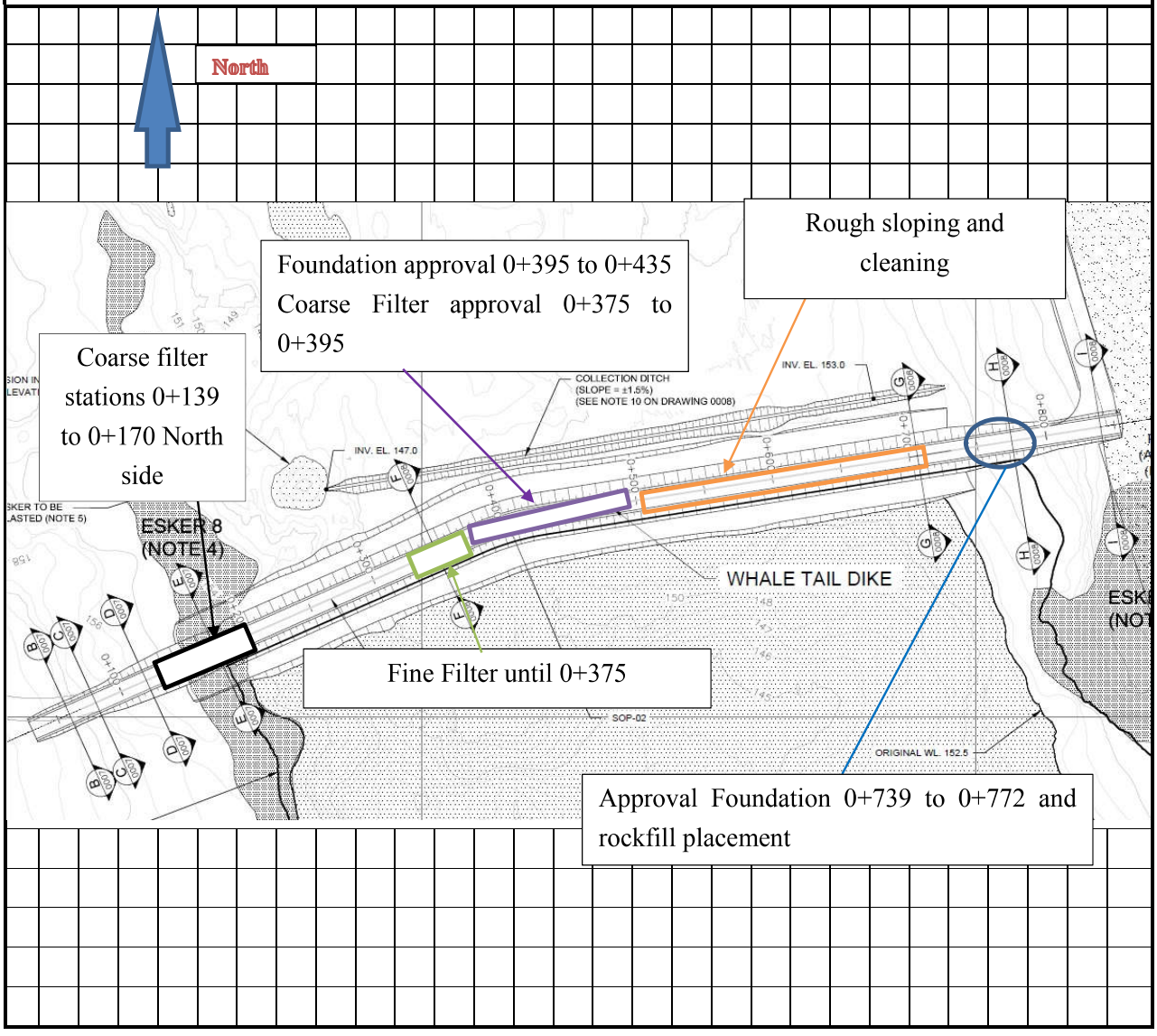
Time on site : 12h

AGNICO EAGLE

Daily Field Report

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 2
Inspection date: 2018-08-16 (Day Shift)	



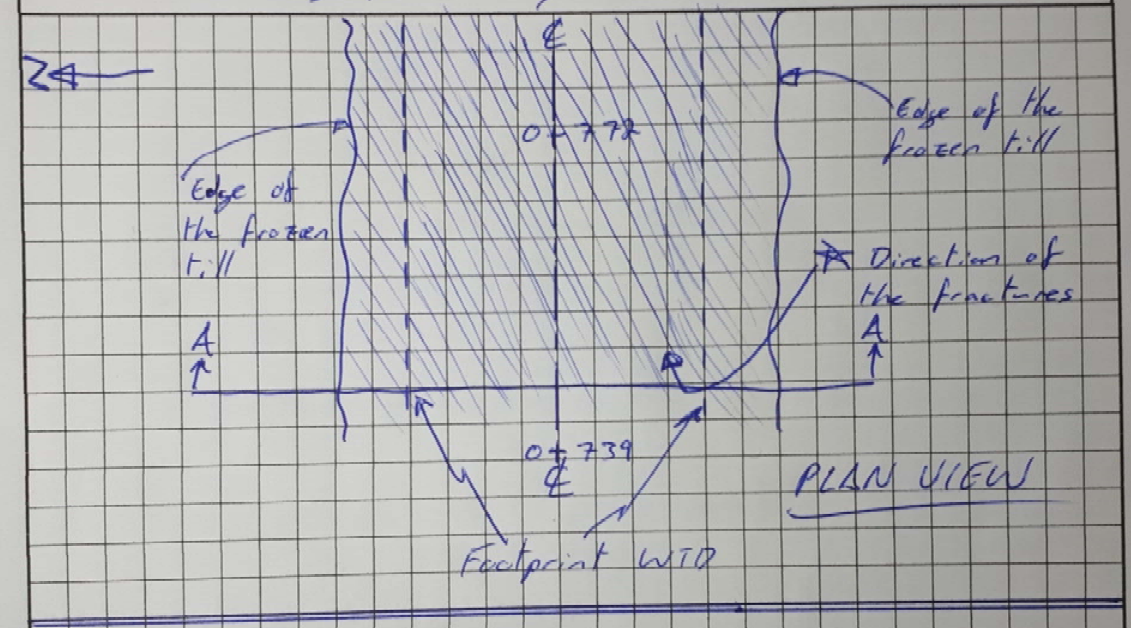
Prepared by: Maxime Côté Verified by: _____

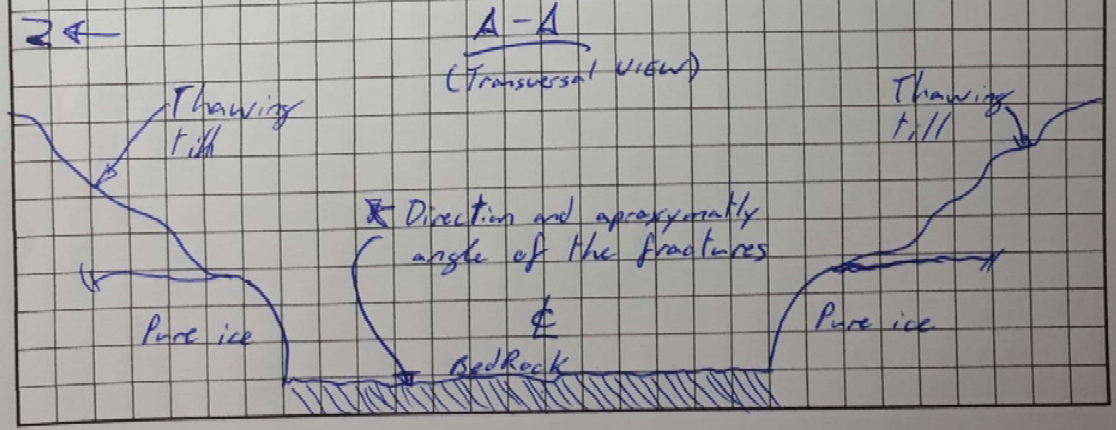
AGNICO EAGLE

Daily Field Report

Plan/Sketch

Client: AEM	Project no.: 11130315-131
Project: WTD	Page 2 of 2
Inspection date: 16th August, 2018 / East Abutment Rockbed	





Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-16(Night)
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

8 ˚C

Field Results

- Fine filter in production at Sana crusher. Sampling (FF-AMQ-054)
- Fine filter placement station 0+370 to 0+395. Sampling (FF-AMQ-052) at station 0+380.
- Fine Filter placement station 0+230 to 0+260, start at elevation 155m to reach 157m of elevation. Sampling (FF-AMQ-053) at station 0+240 at elevation 157.
- Coarse filter placement station 0+395 to 0+415. This section is approved. Sana is authorized to put the fine filter.
- Rockfill placement in east abutment station 0+736 to 0+768 to reach elevation 155m. (South Side)
- Coarse filter placement in east abutment station 0+736 to 0+768 to reach elevation 155m. (North Side)

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonnald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

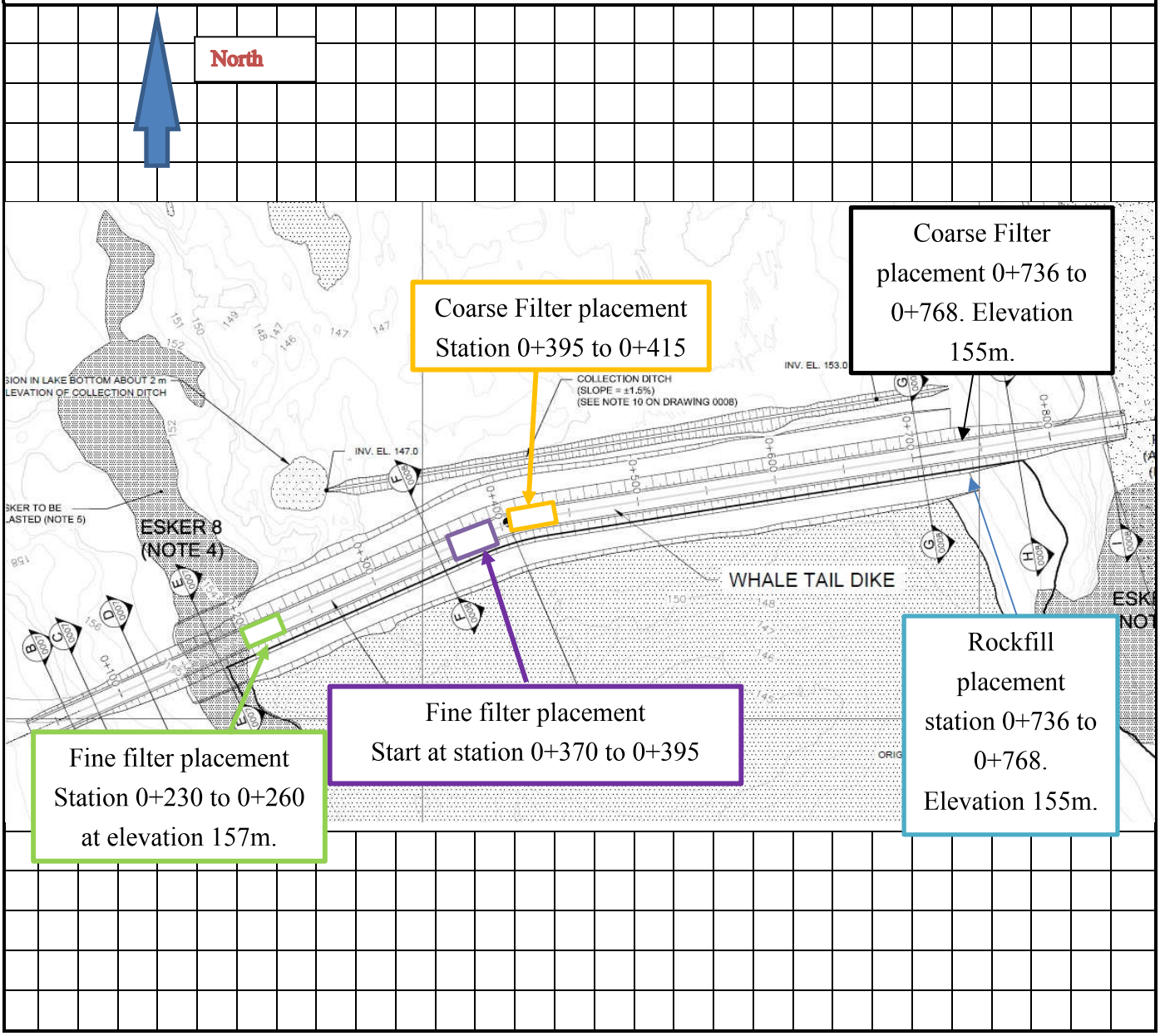
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-16 (Night Shift)	



Prepared by: Denis Jacques Coulombe Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 17th August, 2018
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☒ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project Nº : 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	15 ˚C

Field Results

- Sana crusher in production, sample FF-AMQ-057.
- Final cleaning of the key trench between stations 0+475 to 0+495. Clean bedrock, free of mud and cobbles. Seems to be fractured.
- Coarse Filter placement on the south side of the East Abutment between 0+738 to 0+764, elevation 153.5m. Sample FF-AMQ-010.
- Re-stripping of the bedrock and water management between the precedent stations.
- Fine filter placement from station 0+740 to 0+755 (approximately).
- Fine Filter placement into the key trench from the stations 0+395 to 0+405, elevation 153.5m. Sample FF-AMQ-056.
- Coarse Filter placement into the key trench until the station 0+430, Noth and South sides.
- Fine filter placement at the West Abutment until the station 0+140, elevation 157.0m.
- Coarse Filter placement on the south side of the WA until the station 0+180.
- Rough clean of the key trench between station 0+500 and 0+650

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Macdonald

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

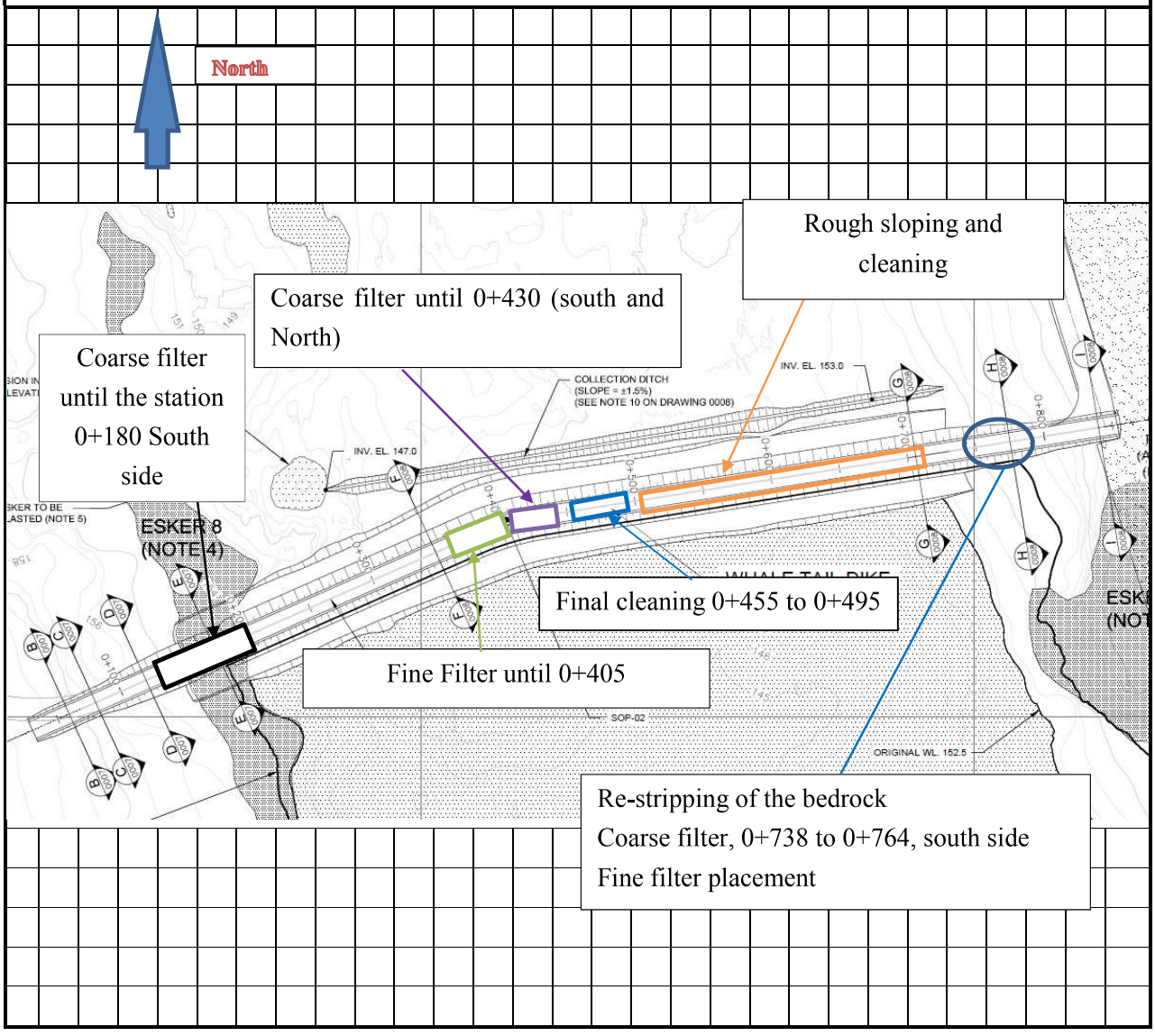
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-17 (Day Shift)	



Prepared by: Maxime Côté Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-17(Night)
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

8 ˚C

Field Results

- Fine filter in production at Sana crusher. Sampling (FF-AMQ-058).
- Approval form of the coarse filter for section between station 0+415 and 0+435.
- Coarse filter placement station 0+435 to 0+455 on both side. Approval form is done for this section.
- Coarse filter placement station 0+455 to 0+475 on south side. Approval form is done for this section.
- Coarse filter placement station 0+455 to 0+460 on north side.
- Fine filter placement station 0+405 to 0+435. Sampling (FF-AMQ-059) at station 0+422. This section is approved.
- Fine filter placement station 0+135 to 0+209. Start at elevation 155m to reach 157m. Sampling (FF-AMQ-060) at station 0+196. This section is approved.
- Rough cleaning between station 0+580 and 0+060 on north side of the dike.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonnald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

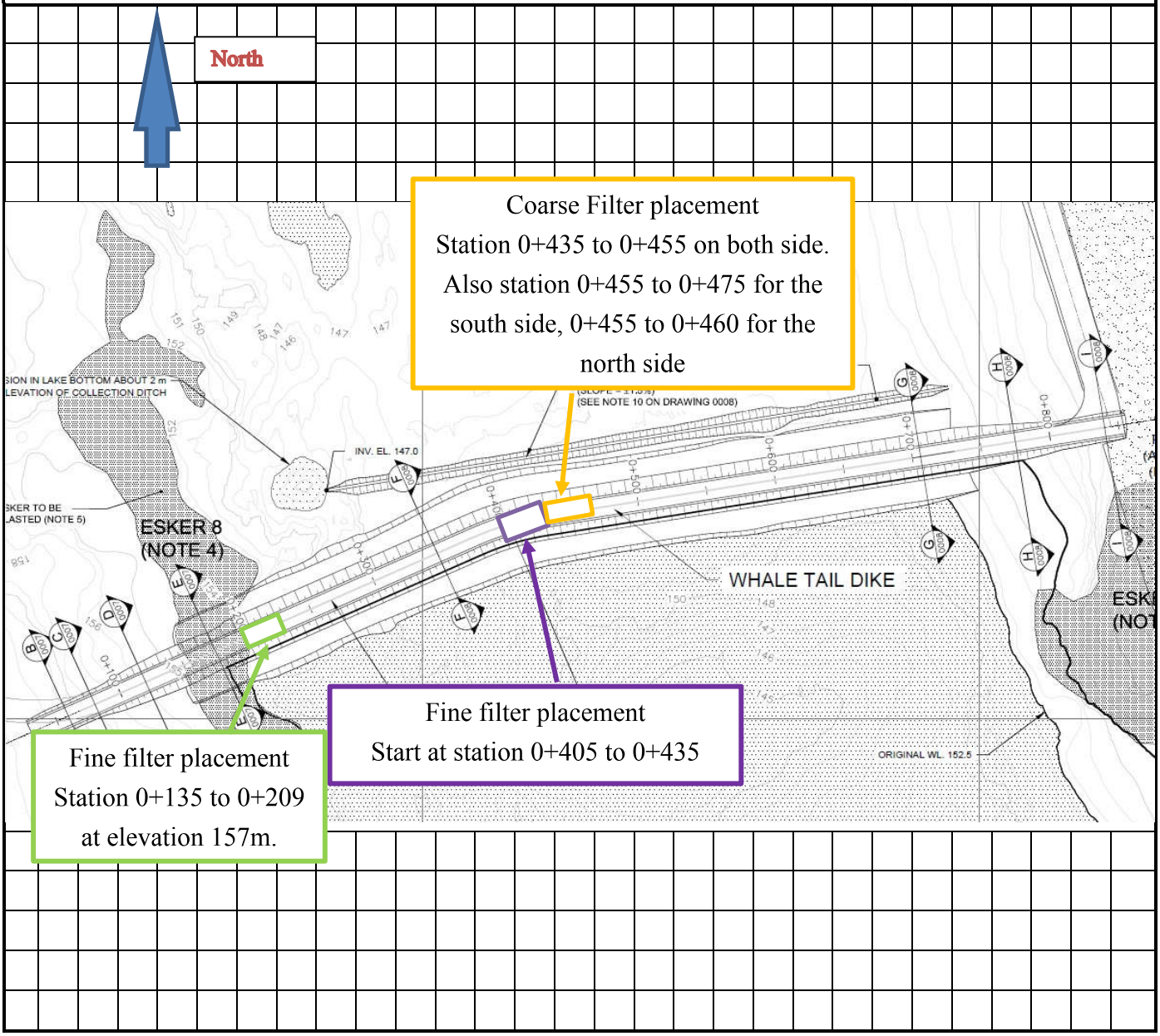
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-17 (Night Shift)	



Prepared by: Denis Jacques Coulombe Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 18th August, 2018
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☒ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	5 °C

Field Results

- Sana crusher is no more in production.
- Final cleaning of the key trench between stations 0+495 to 0+515. Clean bedrock, free of mud and cobbles. Seems to be not too much fractured.
- Coarse Filter placement over the elevation 153.5 until 155.0m, on the south side of the fine filter already in place between the stations 0+220 to 0+320. For now, no compaction has been done and the mud has been take off before the placement.
- Fine filter placement at the East Abutment until the station 0+763, elevation 153.3m. Sample FF-AMQ-062.
- Fine filter placement into the key trench until the station 0+470, elevation 153.5m. Sample FF-AMQ-061
- Rough clean of the key trench between station 0+500 and 0+650
- Coarse Filter placement between the Fine Filter and the “natural ground” (“” because the natural ground has been replace by coarse filter in the last few days, this section is put on hold for talking with the designer). Stations 0+090 to 0+135, North and South side, elevation 157.0m.
- Coarse Filter placement inside the key trench from the station 0+455 to 0+495, North and South sides.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Macdonald

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

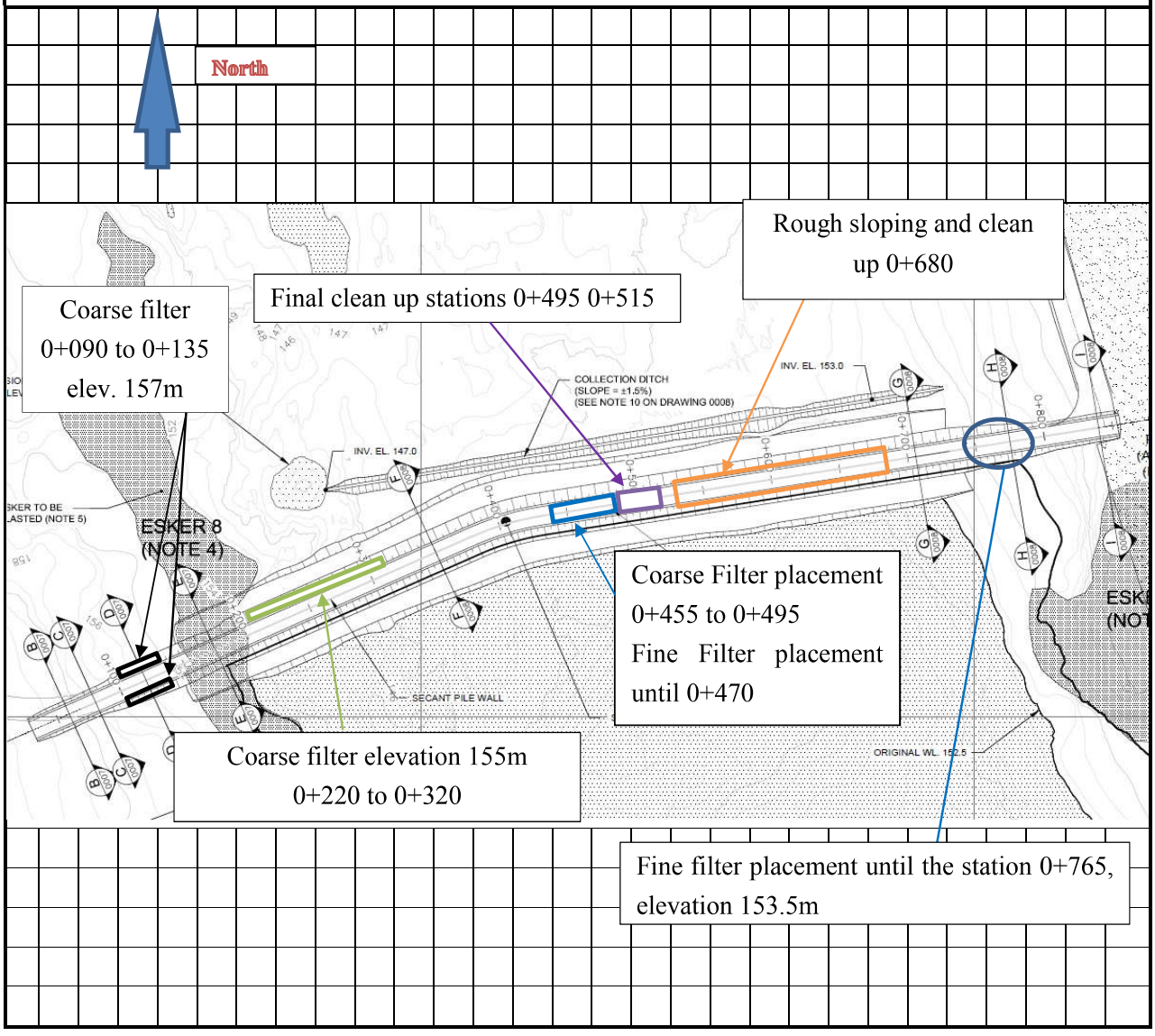
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-18 (Day Shift)	



Prepared by: Maxime Côté Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-18(Night)
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project Nº : 11130315-B1	

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

4 ˚C

Field Results

- At the beginning of shift sampling the coarse filter (CF-AMQ-011) at station o+260 elevation 155.0m.
- Fine filter placement station 0+380 to 0+395. Sampling (FF-AMQ-063) at station 0+387 el: 155,5m.
- Fine filter placement station 0+471 to 0+480.
- Coarse filter placement between station 0+495 and 0+515. This section is approved.
- Rockfill placement station 0+140 to 0+240 on North side.
- Stripping and cleaning on east abutment 0+772 to 0+790. Approval form is done for this section. Also rockfill placement station 0+770 until station 0+785 for the south side. For the north side, coarse filter placement in same station.
- Boat check (bathymetries) for section 0+515 to 0+555 has been done.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonnald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

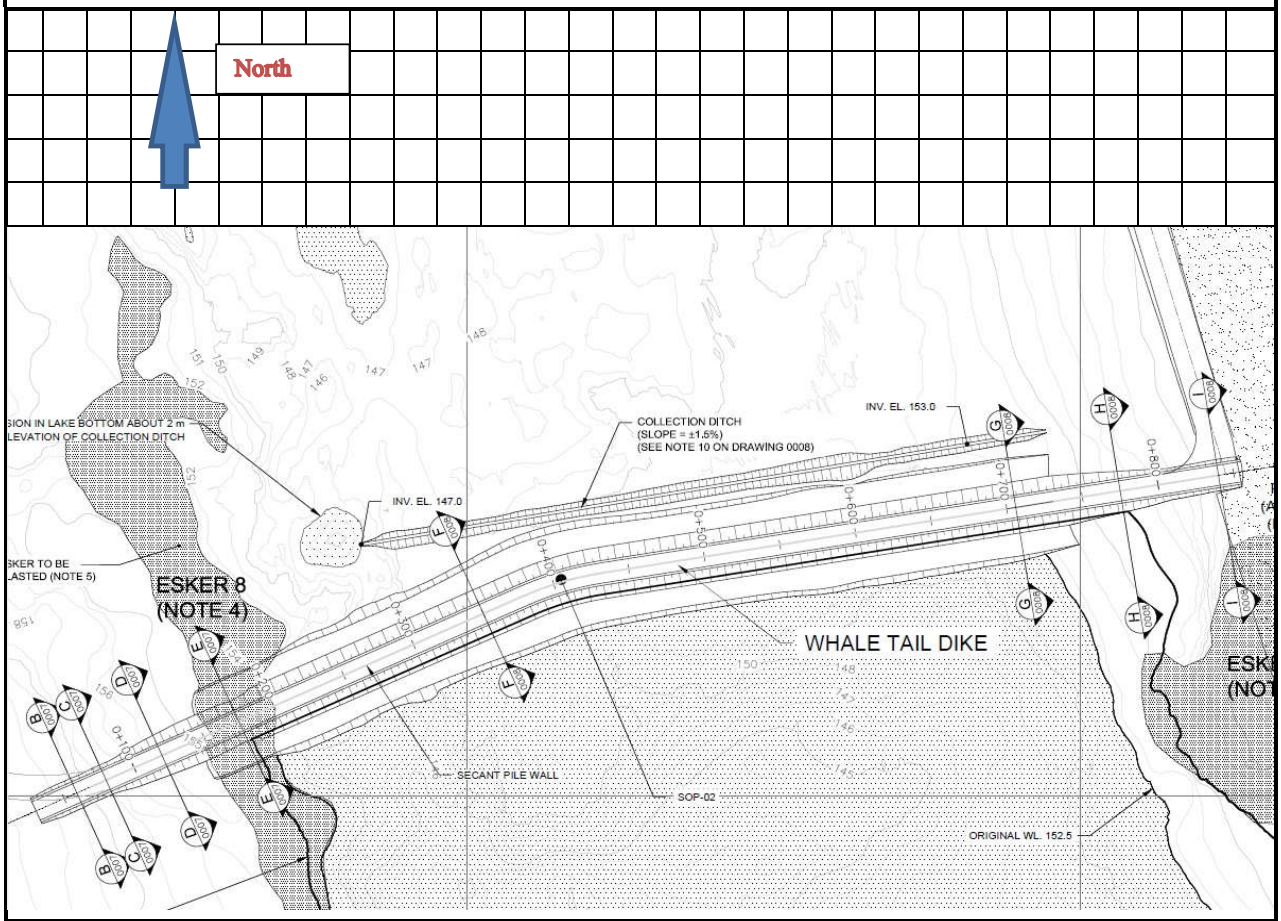
Time on site : 12h

AGNICO EAGLE

Daily Field Report

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-18 (Night Shift)	



Prepared by: Denis Jacques Coulombe Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-19-D
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☒ Water Management ☒ Sampling ☐ Grout curtain ☒ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project Nº : 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	4 ˚C

Field Results

- Field spots checks of the final cleanup of the key trench bedrock between stations 0+515 to 0+555. Free of ice, till and cobble. Seems to be fractured bedrock. Approval Form has been done.
- Coarse Filter placement North side stations 0+515 to 0+540
- Approval form of the Coarse Filter placement inside the key trench between the stations 0+495 to 0+515. Ready for the Fine filter placement.
- Rockfill placement over the elevation 153.5m until 155.0m on the south side of the dike, between the station 0+260 to 0+165. 4 passes of Dozer D8 has been done. The mud over the platform has been removed before the placement.
- Fine filter placement over the key trench area over the elevation 153.5m until 157.0m form the station 0+395 until 0+435. Sample FF-AMQ-064 @ 0+410 elevation 157.0m.
- Verbal approval of the North and South slopes (natural ground) of the East Abutment between the stations 0+772 until 0+806.
- Rockfill placement on the South slope to fill the missing material from the thawing of the natural ground. Placement of Coarse Filter over the Rockfill.
- Coarse filter placement over the natural ground of the North slope.
- Final cleanup of the key trench between the stations 0+555 to 0+575.
- Rough cleanup of the key trench.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

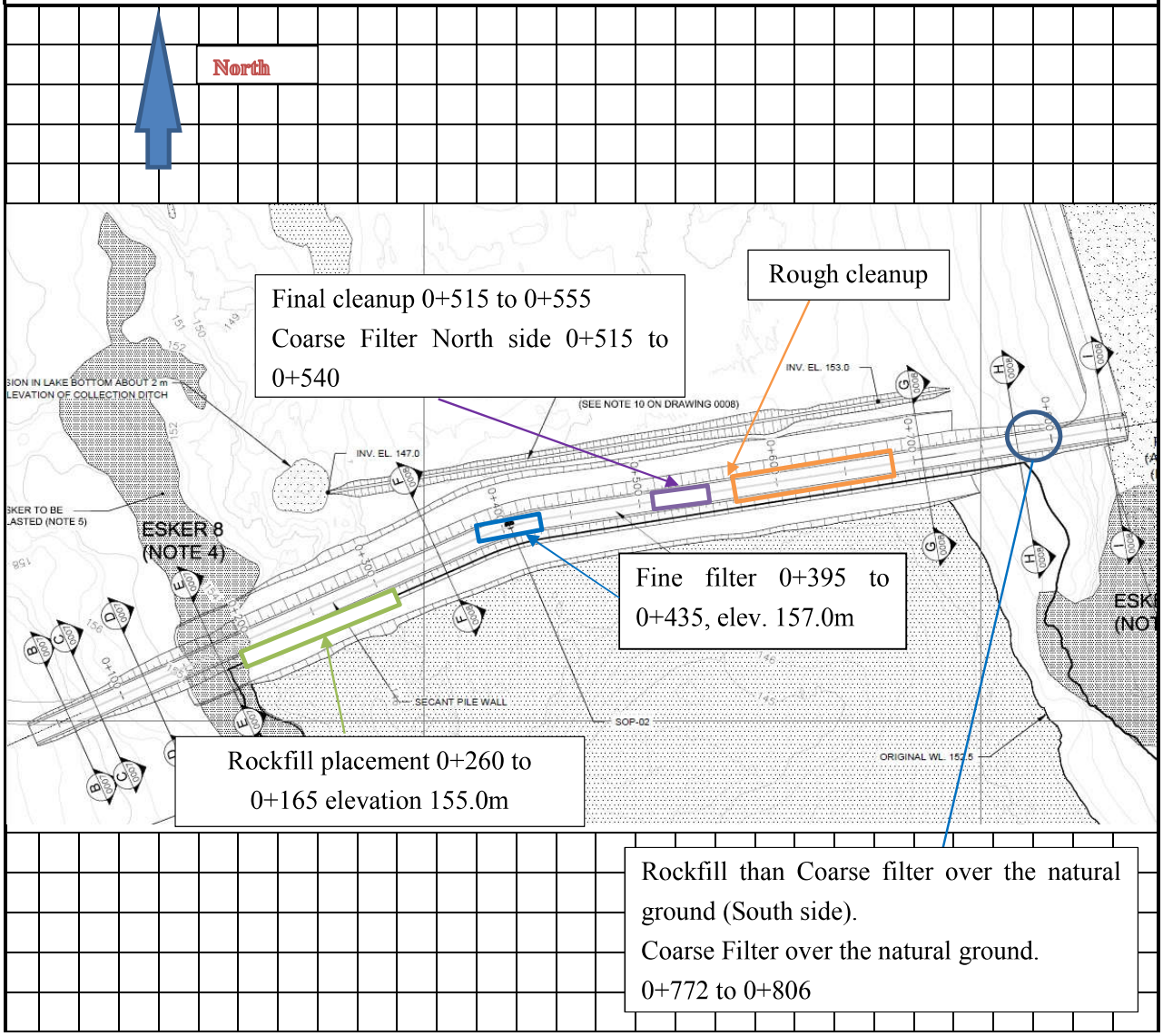
Project Manager : Daniel Pedneault

Time on site : 12h

AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-19-D	



Prepared by: Maxime Côté Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-19(Night)
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

4 ˚C

Field Results

- Fine filter placement on east abutment between stations 0+761 to 0+808. Sampling (FF-AMQ-066) at station 0+765 on elevation 153,5
- Coarse filter placement on east abutment stations 0+790 to 0+808 on south side of the dike.
- Some spot check has been done for checkup the cleanup between stations 0+555 to 0+575. All good there are no mud and no cobbles.
- Fine filter placement station 0+435 to 0+460. Sampling (FF-AMQ-066) at station 0+447 on elevation 157m.
- Final cleanup 0+575 to 0+595 south side. All good.
- Fine filter placement until 0+505.
- Coarse filter placement until 0+535 on both side.
- Boat check has been done between 0+555 to 0+575.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonnald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

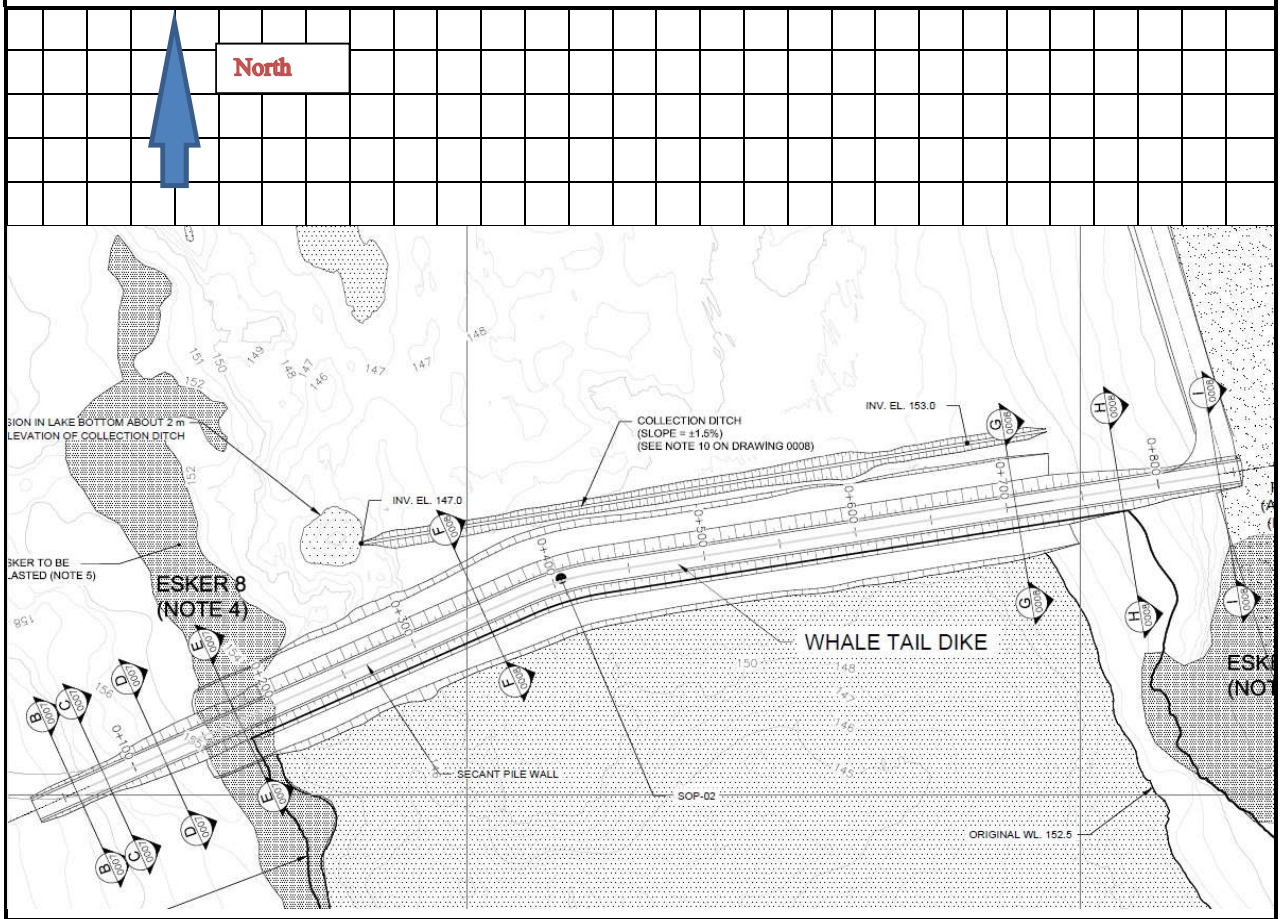
Project Manager : Daniel Pedneault

Time on site : 12h

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Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-19 (Night Shift)	



Prepared by: Denis Jacques Coulombe Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 20th august, 2018
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☒ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project Nº : 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	5 °C

Field Results

- Final cleanup and approval form of the key trench between the stations 0+555 to 0+575. Clean bedrock and don't seems to be much fractured. A special care has been take for this section because it was into a permafrost area.
- Final cleanup of the key trench between the stations 0+575 to 0+595. Clean bedrock and don't seems to be much fractured. A special care has been take because it was into a permafrost area.
- Coarse filter placement and approval form between the stations 0+515 to 0+555 on the North side of the key trench.
- Fine Filter placement and approval form for the stations 0+505 to 0+540 inside the key trench. Sample FF-AMQ-067.
- Rockfill placement on the South side of the dike, next to the Fine filter above the elevation 155.0m until 157.0m between the stations 0+305 to 0+165. 4 passes of dozer D8 has been done.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

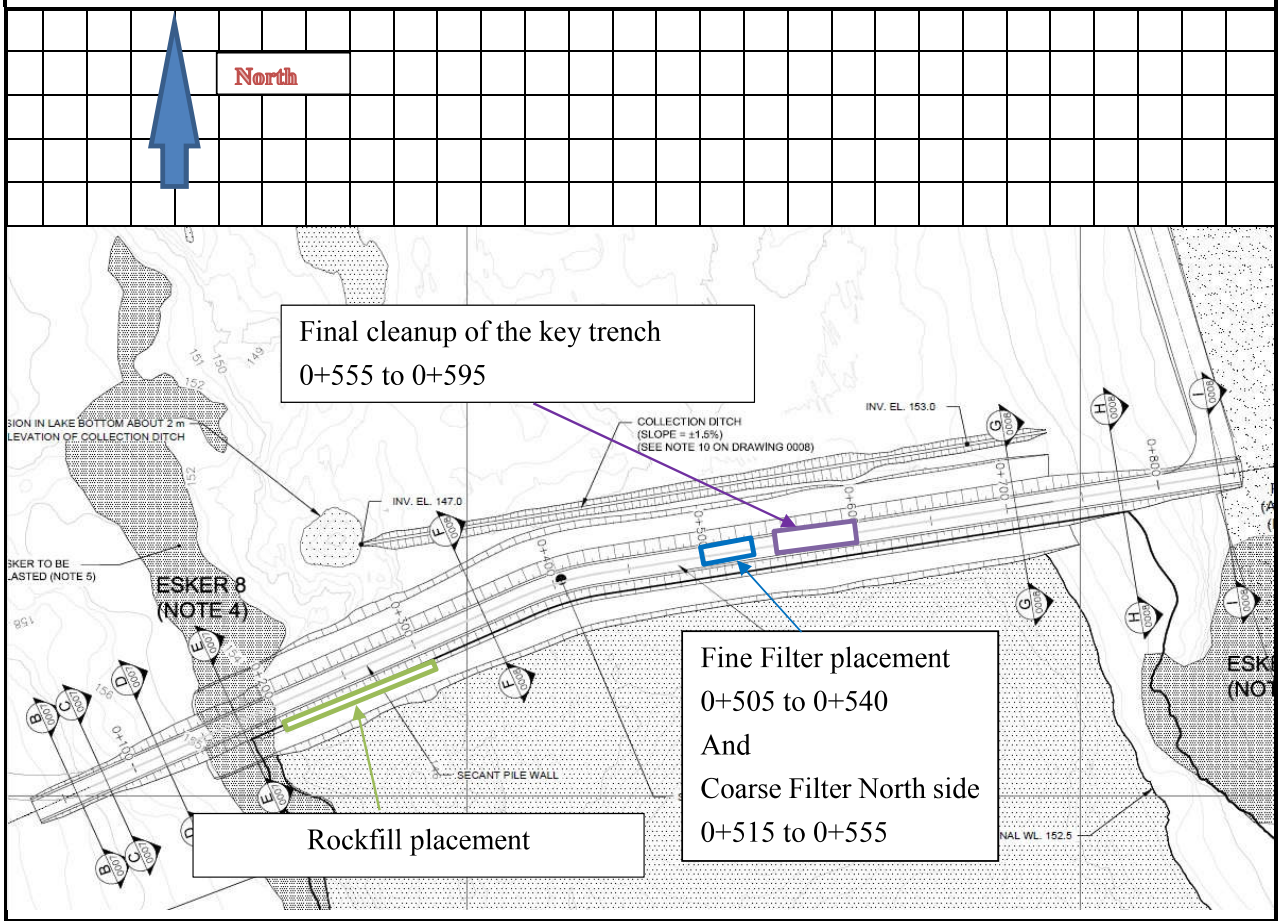
Time on site : 12h

AGNICO EAGLE

Daily Field Report

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date:	



Prepared by: Maxime Côté Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-20(Night)
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project Nº : 11130315-B1	

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

4 °C

Field Results

- Fine filter placement station 0+540 to 0+545. Before placing the fine filter some spot check has been done for make sure the key trench are clean.
- Fine filter placement station 0+447 to 0+490. Sampling (FF-AMQ-068) at station 0+469 at elevation 157,0m.
- Approved form of coarse filter between stations 0+555 to 0+575.
- Coarse filter placement station 0+575 to 0+580 on south side. Sampling (CF-AMQ-012) at station 0+577.
- Coarse filter placement station 0+220 to 0+240 on north side.
- Rockfill placement station 0+270 to 0+300 on south side and 0+310 to 0+340 on north side. The lift thickness is good and 4 passes of dozer D8 has been done.
- Rough cleaning with the shovel between stations 0+660 to 0+690.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

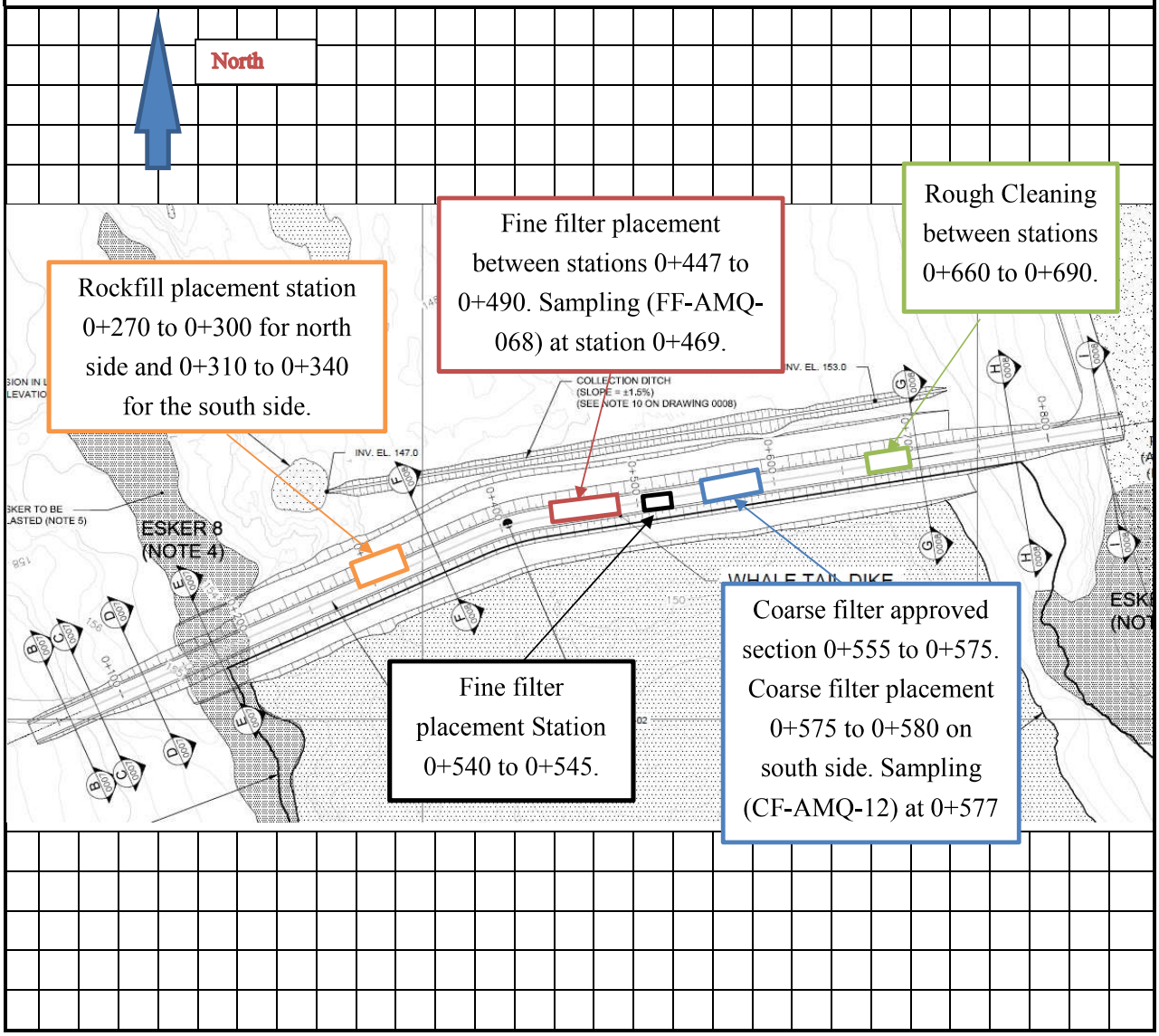
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-20 (Night Shift)	



Prepared by: Denis Jacques Coulombe Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 21st August, 2018
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☒ Water Management ☒ Sampling ☐ Grout curtain ☒ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project Nº : 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	 3 ˚C

Field Results

- Fine Filter placement on the cut-off wall are, stations 0+085 to 0+0+65 at elevation 157.0m. The width in the middle needs to be excavate a little bit (it is 1.6m width and we need 2.0m). The compaction of the material has been well compacted with a P10 000 at every lifts of 0.5m.
- Final cleanup of the key trench between the stations 0+595 to 0+615. It has been check and it need to be cleanup again. Not seems to have frozen till.
- Rough cleanup of the key trench until 0+700.
- Rockfill placement over the elevation 155.0m to 157.0m until the station 0+140 on the North side of the dike.
- Stripping of the North slope of the East Abutment. The slope has been verbally approve for a matter of time, this area were full of mud and need to be stabilized quickly. Coarse Filter has been put directly over the natural frozen till form the station 0+722 to 0+738.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

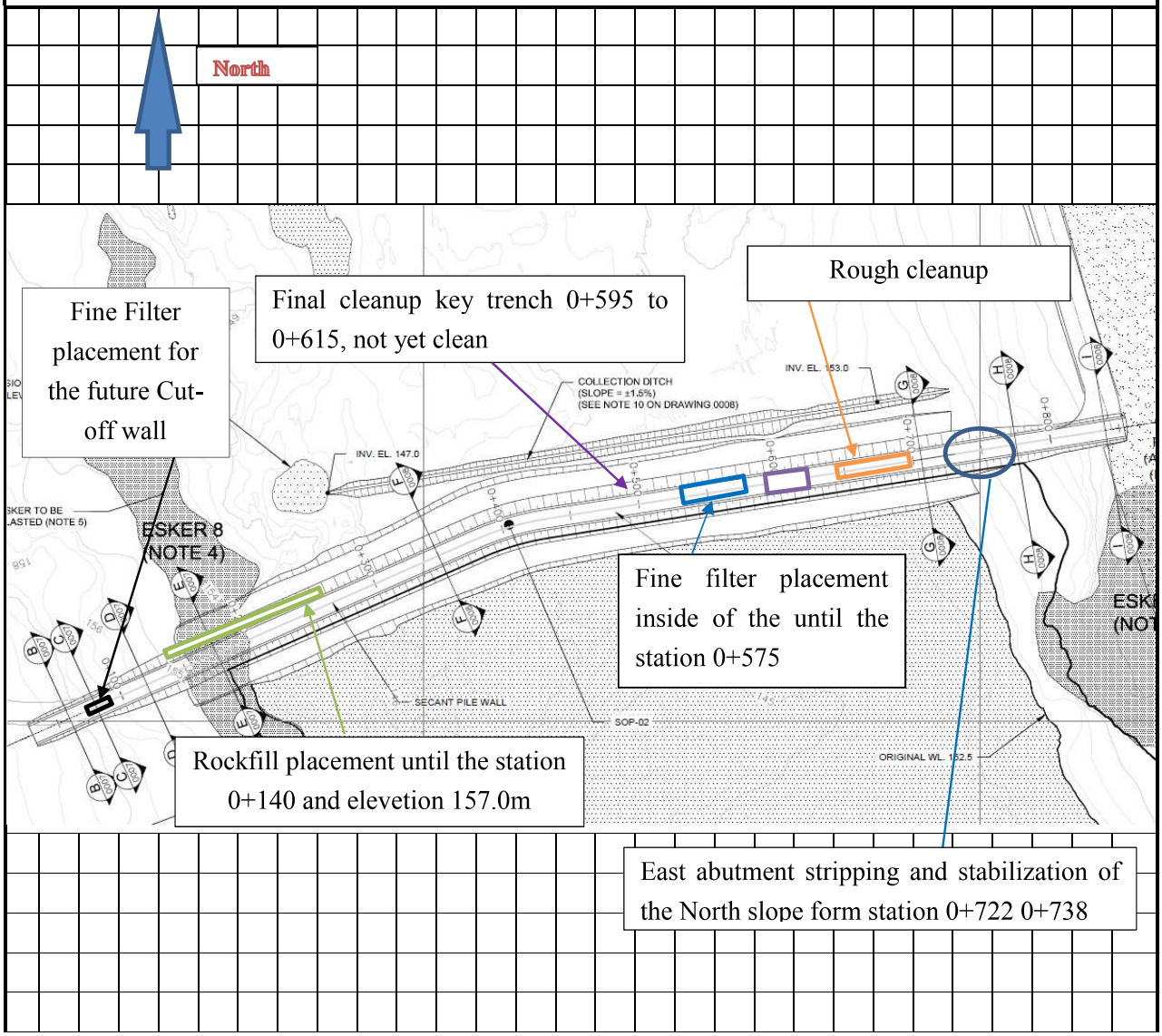
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date:	



Prepared by: Maxime Côté Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-21(Night)
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☒ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

3 ˚C

Field Results

- Approval form for the footprint foundation station 0+727 to 0+739. Rock fill placement on the south side and between the same stations. Always between the same station approvals form of the coarse filter for north and south side.
- Coarse filter placement station 0+385 to 0+483.
- Rock fill placement on the south side between stations 0+385 to 0+483.
- Fine filter placement station 0+490 to 0+500 at 157.0 m of elevation. Sampling (FF-AMQ-070) at station 0+494.
- Some spot check with the shovel has been done for check the cleanup between stations 0+595 to 0+615 and boat check has been done.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

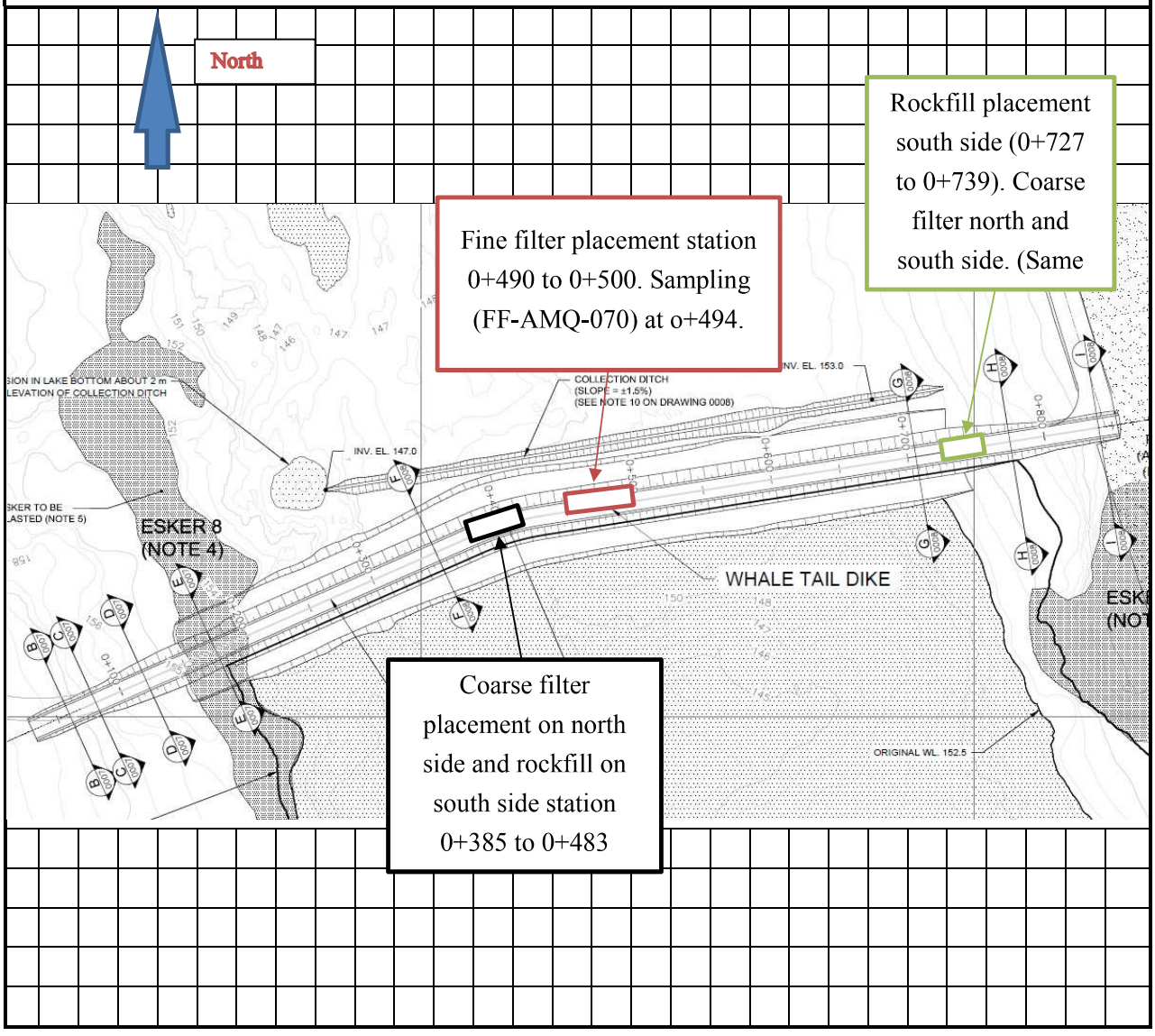
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-21 (Night Shift)	



Prepared by: Denis Jacques Coulombe Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-22 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☒ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project Nº : 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	3 °C

Field Results

- Sampling of Fine filter by the request of the QA Manager to compare the gradation FF-AMQ-061, which has a non-conformity on the sieve 9.5mm. Three samples had been take: FF-AMQ-071, FF-AMQ-072 and FF-AMQ-073.
- Fine filter placement until the elevation 157.0m between the stations 0+495 to 0+530. Sample FF-AMQ-074 has been take.
- Coarse Filter placement above elevation 153.5 until 155.0m between the stations 0+483 to 0+540 on the North side of the dike. Sample CF-AMQ-013 has been take
- Coarse filter placement until the elevation 157.0m between the stations 0+390 to 0+410
- Both placements had the 4 passes of compaction has required.
- Rough excavation inside the key trench until the station 0+720.
- Fine filter placement at the East abutment after the verbal approval of the bedrock.
- Rockfill placement until elevation 155m between the stations 0+450 to 0+510 of the North side of the dike.
- Rockfill placement until elevation 155m between the stations 0+380 to 0+455 of the South side of the dike.
- Rockfill placement until elevation 157m between the stations 0+415 to 0+455 of the South side of the dike.
- Each of the precedent lift had been properly compacted has required.
- Final cleanup has been done between the stations 0+615 to 0+635, the approval form has been delivered. Clean bedrock and seems to be fractured.
- Coarse filter placement between the stations 0+595 to 0+615 in the key trench, approval form has been delivered.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

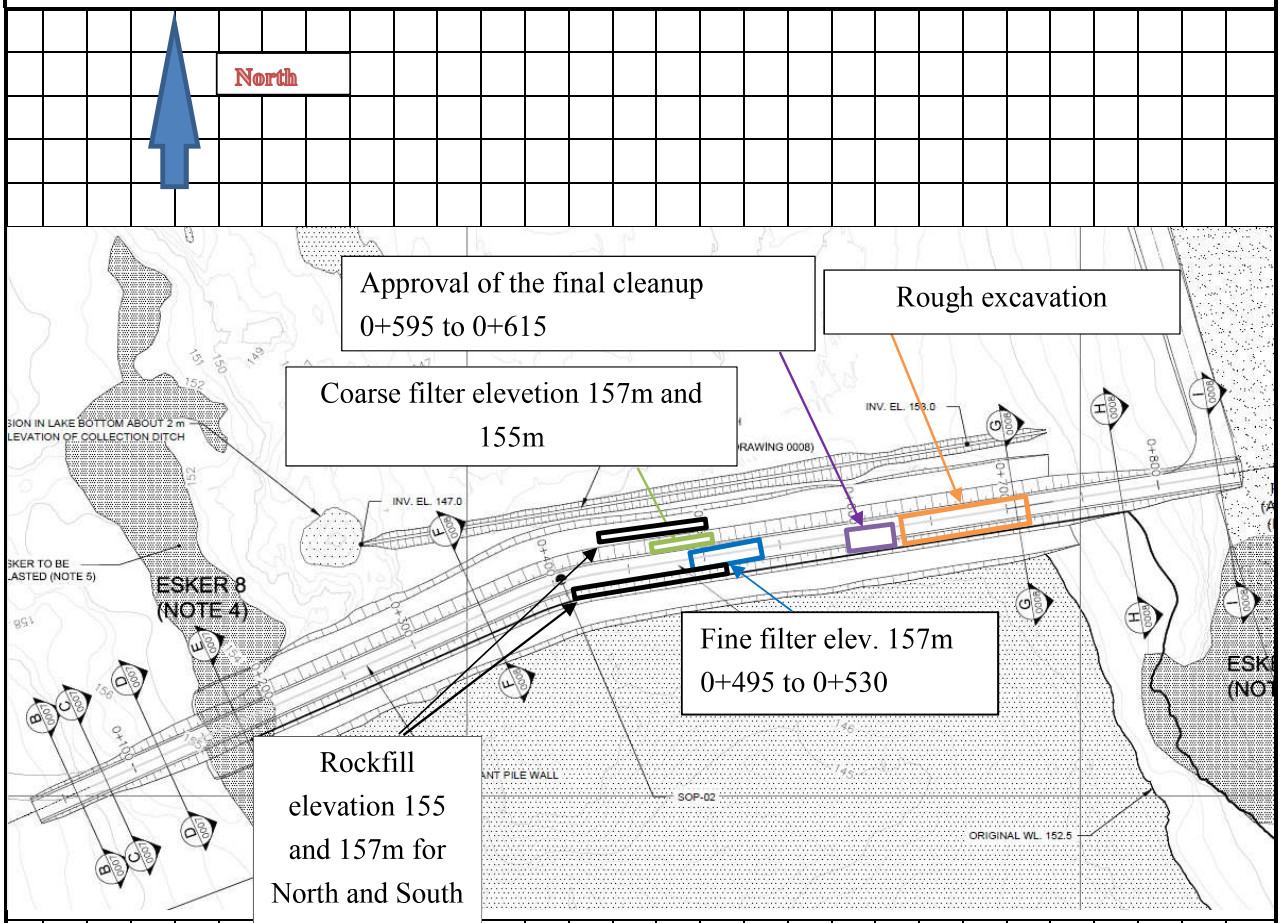
Project Manager : Daniel Pedneault

Time on site : 12h

AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-22 Day shift	



Prepared by: Maxime Côté Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-22(Night)
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

0 °C

Field Results

- Coarse filter approval form between stations 0+595 to 0+615 on North side.
- Coarse filter placement station 0+615 to 0+633 on both side. This section has been approved.
- Boat check has been done between stations 0+615 to 0+635.
- Fine filter placement station 0+575 to 0+600. Sampling (FF-AMQ-075) at station 0+590 el. 153.5.
- Some cleanup has been done with the shovel before placing the fine filter for make sur the bottom is clean.
- Rockfil placement station 0+450 to 0+420 for North side and 0+395 to 0+415 for South side. In North side the rockfill has been placed with a shovel 395D caterpillar and the 4 passes has been done for the compaction.
- Final cleanup 0+635 to 0+655.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

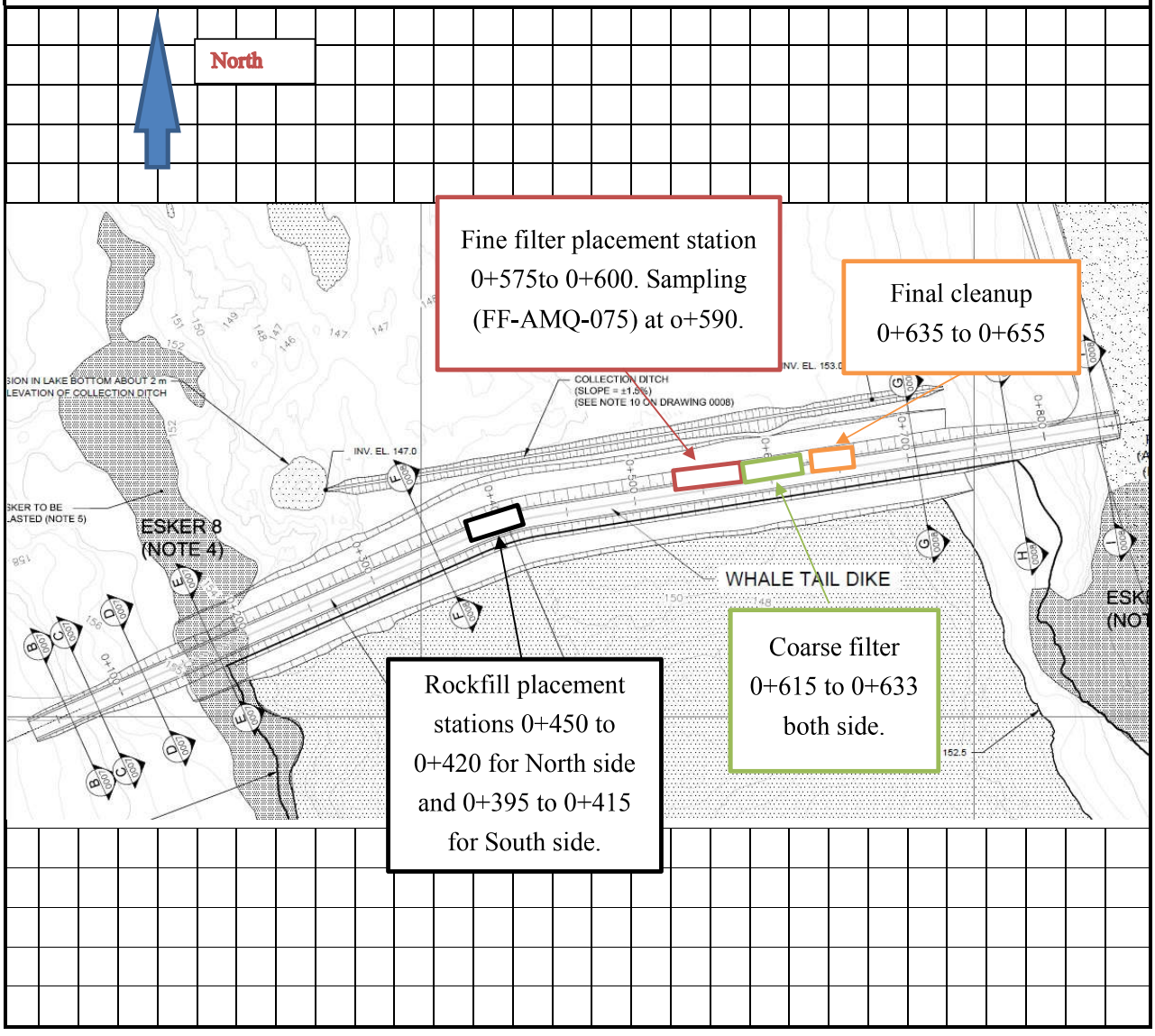
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-22 (Night Shift)	



Prepared by: Denis Jacques Coulombe Verified by: _____

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-23 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☒ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project Nº : 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	3 ˚C

Field Results

- Final cleanup of the key trench between the stations 0+655 to 0+675. Clean bedrock and seems to be fractured. The Approval Forms has been given.
- Coarse Filter placement inside the water between the stations 0+635 to 0+655.
- Fine filter placement until the station 0+625. The sample FF-AMQ-076 has been take.
- Coarse Filter placement until the elevation 157m on the side North side of the dike and until the station 0+530.
- Rockfill placement on the South side, elevation 157m between the stations 0+390 to 0+500, 4 passes of D8 has been done.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

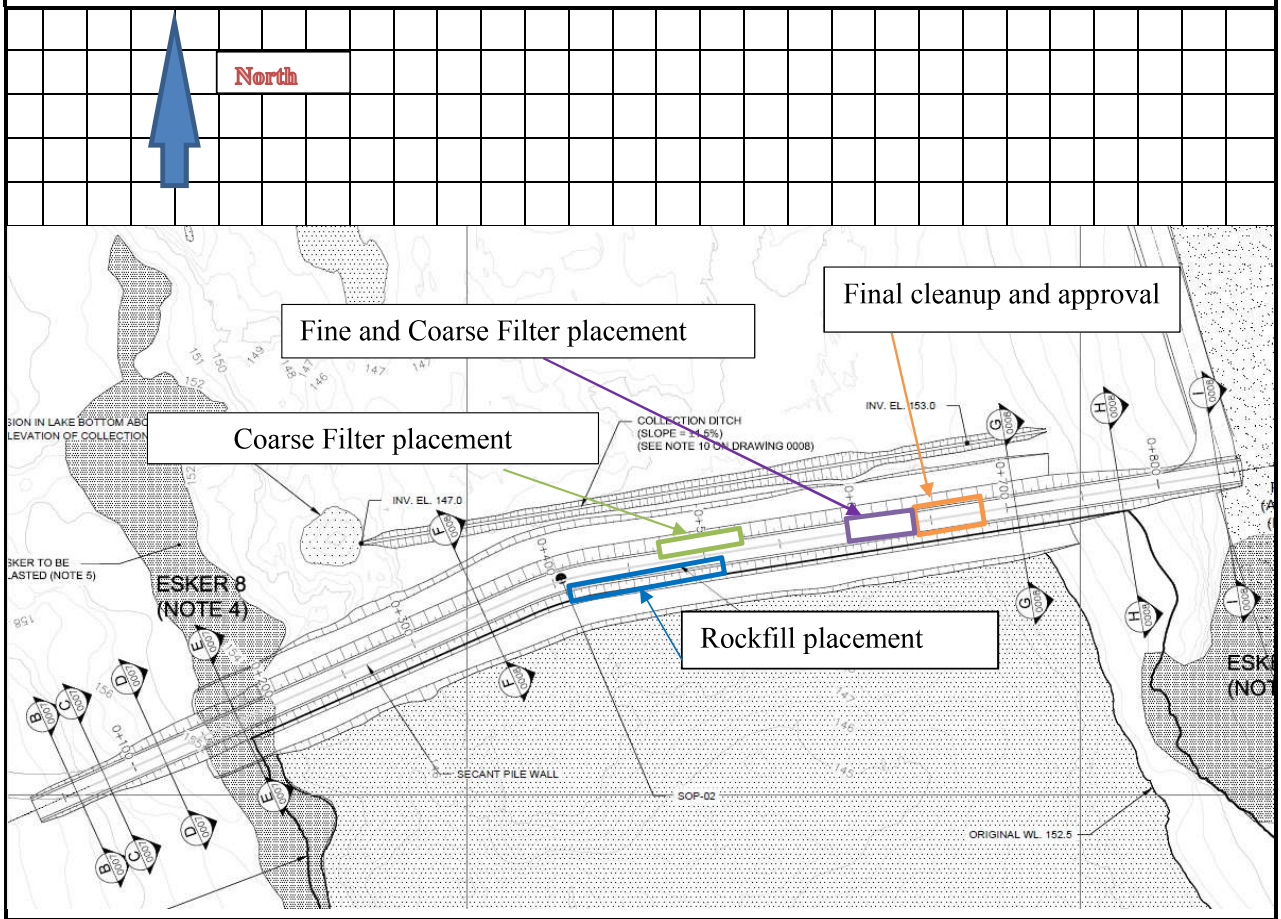
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-23 day shift	



Prepared by: Maxime Côté Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-23(Night)
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☒ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

0 ˚C

Field Results

- Coarse filter placement station 0+655 to 0+674. Approval form is done for this section.
- Coarse filter placement station 0+540 to 0+570 on the north side of the dike.
- Fine filter placement station 0+530 to 0+590 at elevation 157,0m. Sampling (FF-AMQ-078) at station 0+564.
- Fine filter placement station 0+625 to 0+647. Sampling (FF-AMQ-077) at station 0+638.
- Some cleanup has been done with the shovel before placing the fine filter for make sur the bottom is clean.
- Cleanup with the shovel station 0+675 to 0+715

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

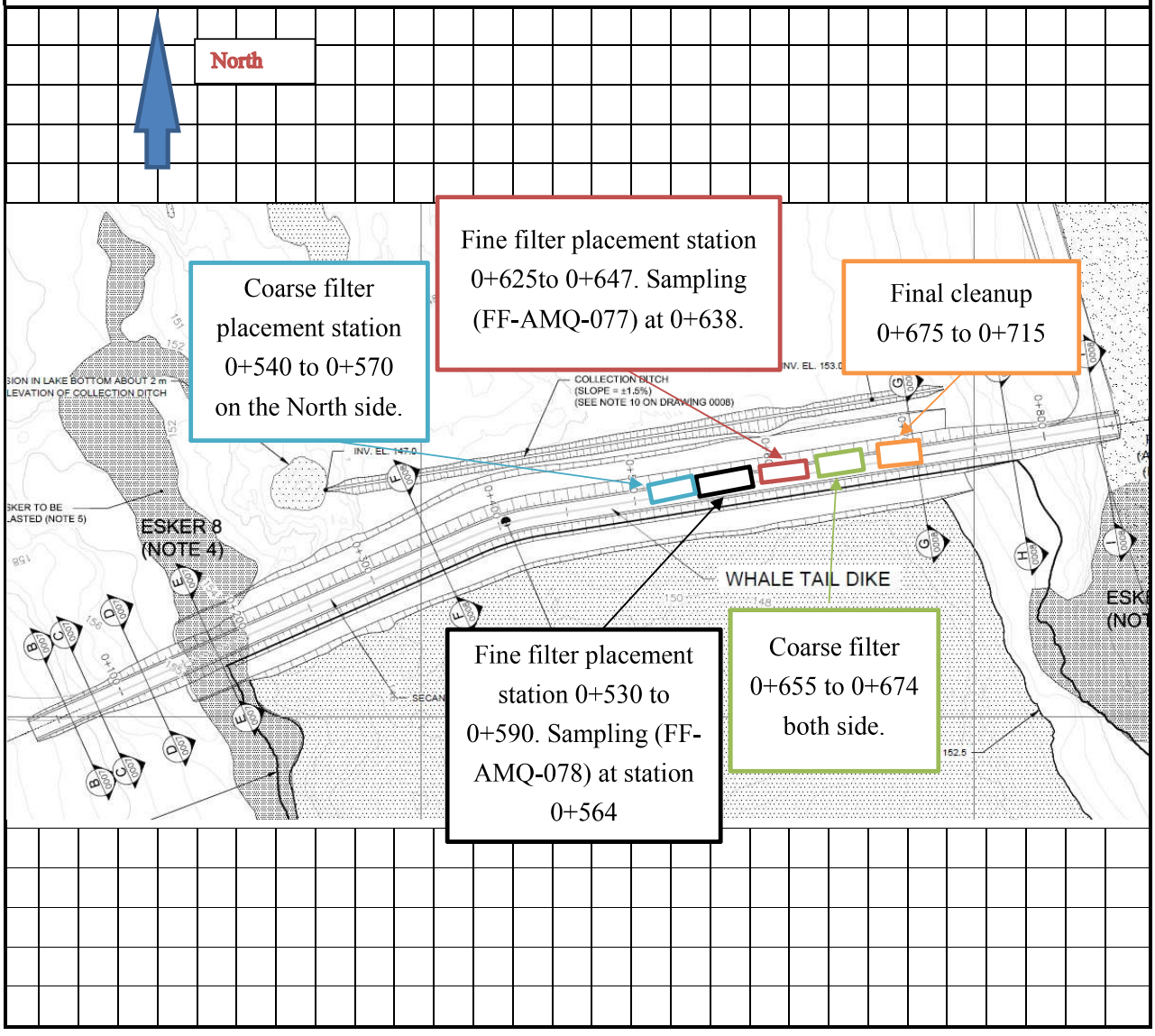
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-23 (Night Shift)	



Prepared by: Denis Jacques Coulombe Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-24 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☒ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project Nº : 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	2 ˚C

Field Results

- Fine filter placement inside the water between the stations 0+647 to 0+0+673. The sample FF-AMQ-082 has been taken.
- Final cleanup of the key trench between the stations 0+675 to 0+705. Clean bedrock and seems to be fractured. An approval form has been given.
- Coarse Filter placement on the North side of the dike until the elevation 155 between the stations 0+570 to 0+600.
- Fine filter placement until the elevation 157m between the stations 0+590 to 0+625. The sample FF-AMQ-081 has been taken.
- Coarse filter placement inside the key trench from the station 0+674 to 0+702. The sample CF-AMQ-014 has been taken.
- Rockfill placement on the South side at elevation 155m until the station 0+600.
- Rockfill placement in the South side at elevation 157m until the station 0+500.
- Rockfill placement on the North side at elevation 155m until station 0+520.
- Rockfill placement on the North side at elevation 157m until station 0+505
- All of those rockfill placement has been tracked by 4 passes of dozer D8.
- The sample FF-AMQ-080 has been taken at the station 0+470, elevation 157m to compare with the sample FF-AMQ-068.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : _____ Inspector : _____ (Print Name)

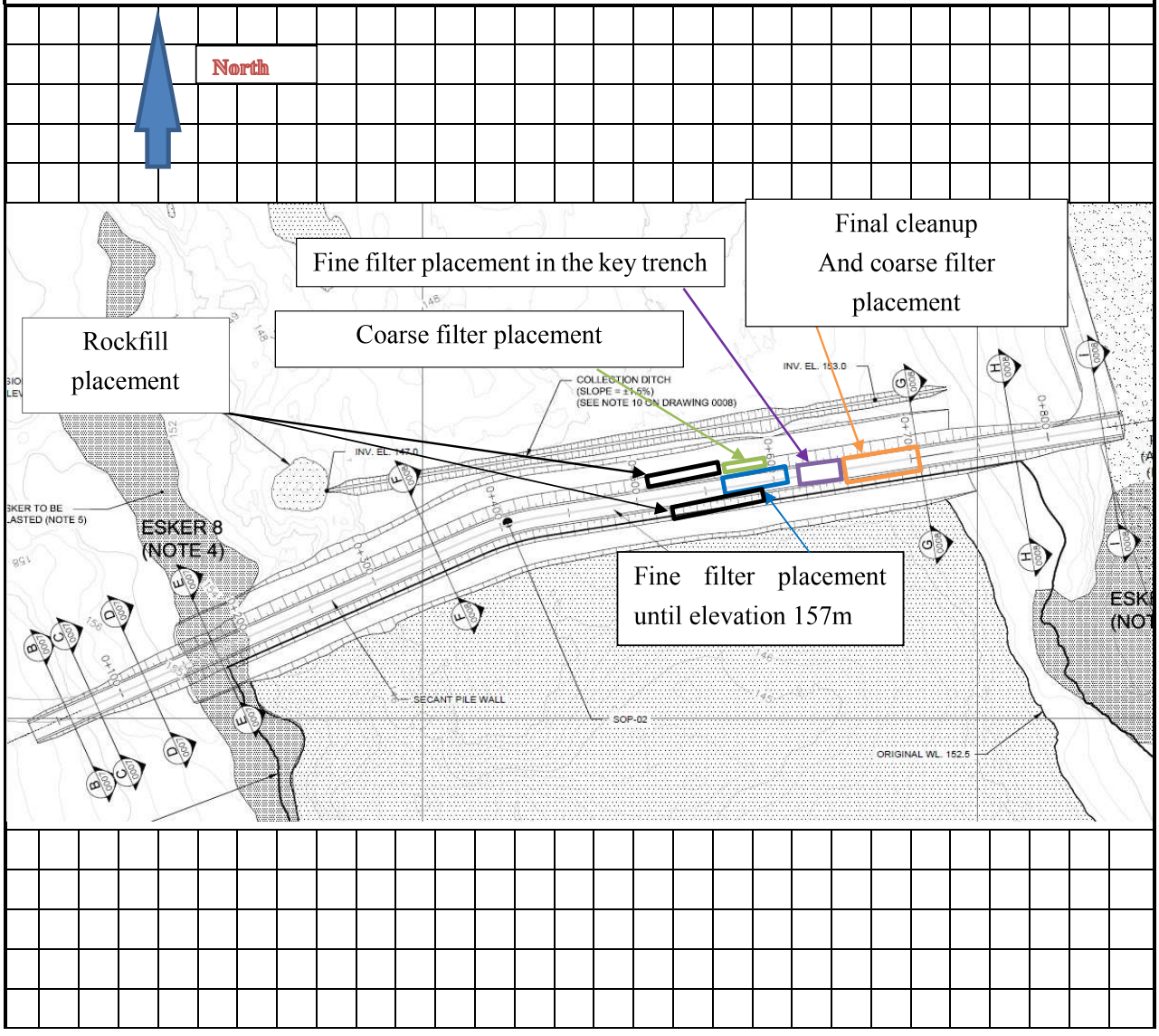
From : AEM Signature* : _____

Project Manager : Daniel Pedneault Time on site : 12h

AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-24 day shift	



Prepared by: Maxime Côté Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-24(Night)
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project Nº : 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	2 ˚C

Field Results

- Fine filter placement in the water station 0+673 to 0+695.
- Fine filter placement elevation 157,0m station 0+625 to 0+655. Sampling (FF-AMQ-083) at station 0+635.
- Excavation of slopes for the north and south side of the east abutment. Approval form is done for the slope station 0+740 to 0+797 on both side. Coarse filter placement on the north side until 0+790. Rockfill placement on the south side station 0+740 to 0+797. The compaction has been done with the shovel. The lift thickness is good.
- Rockfill placement on south side station 0+555 to 0+595. The compaction has been done with the dozer D8 Caterpillar. The lift thickness is good.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Denis Jacques Coulombe (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

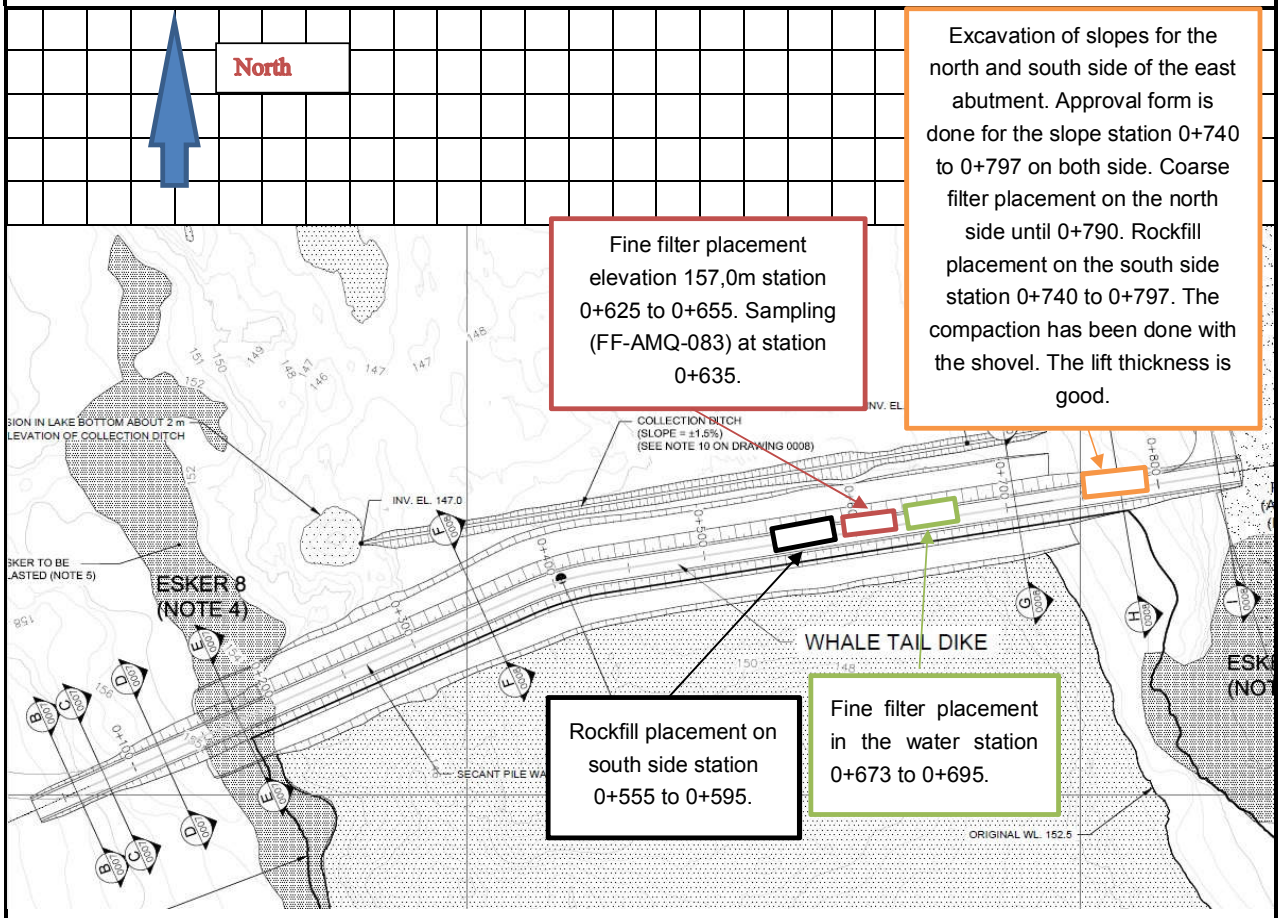
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-24 (Night Shift)	



Prepared by: Denis Jacques Coulombe Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-25 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☒ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project Nº : 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	5 ˚C

Field Results

- Approval form for the stripping of the North and South slopes of the East Abutment until the station 0+835.
- Rockfill placement over the natural ground of the South slope and Coarse filter placement over the natural ground of the North slope. Both material are topping at the elevation 157m and are between 0+797 to 0+835.
- Coarse Filter placement over the Rockfill on the South slope form the station 0+797 until 0+835.
- Approval form has been given for the foundation of the East Abutment has been given until the station 0+835. The foundation is made of natural frozen till.
- Fine Filter placement from the station 0+815 to 0+835 at the elevation of 157m. Sample FF-AMQ-084
- Rough cleanup and final cleanup of the key trench between 0+705 until 0+727. The final Approval form of the key trench has been given. Clean bedrock and seems to be fractured.
- Rockfill placement on the South side of the dike until the elevation 157m between the stations 0+380 to 0+655.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

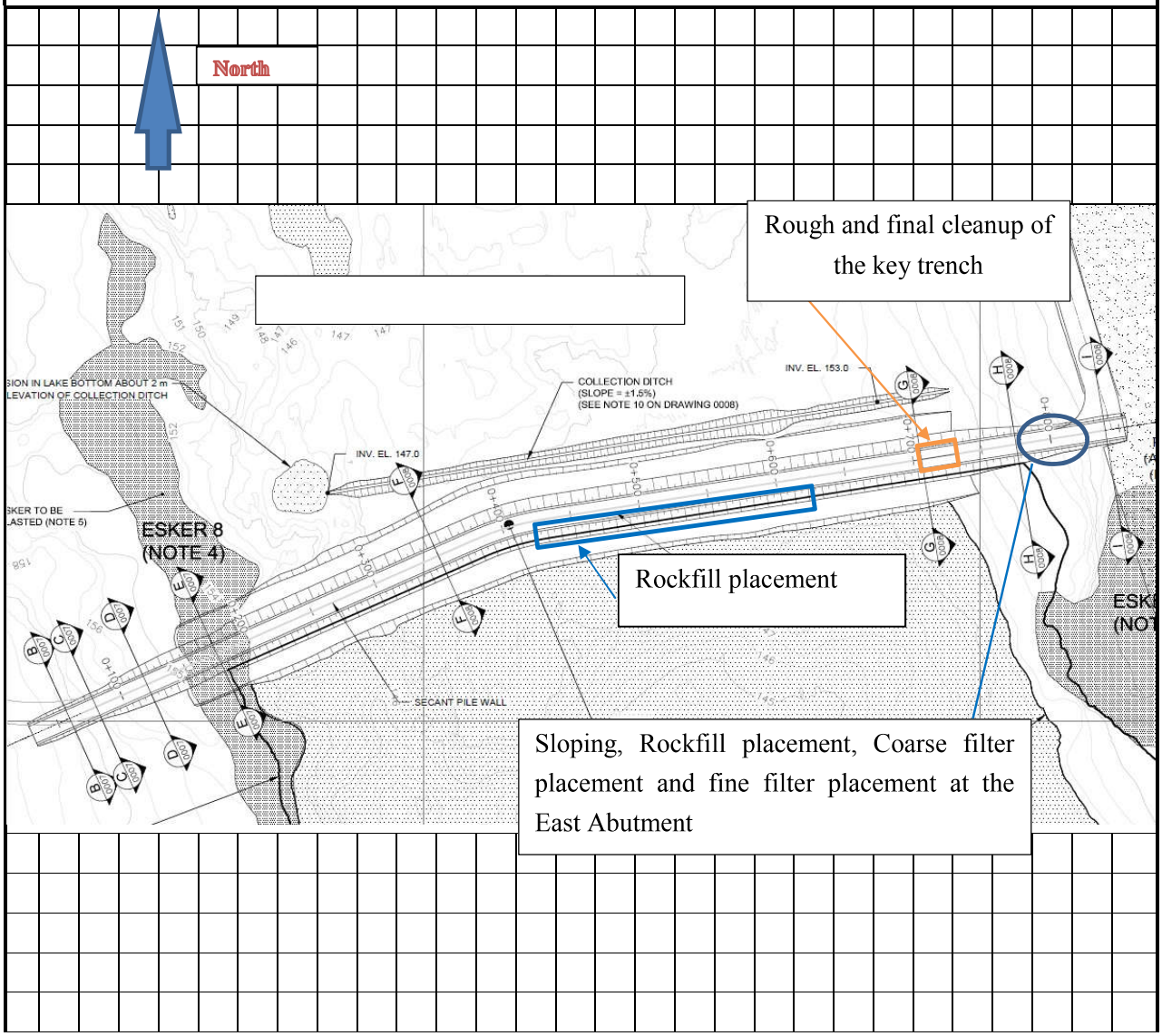
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-25 day shift	



Prepared by: Maxime Côté Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-25(Night)
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

0 ˚C

Field Results

- Rockfill placement station 0+702 to 0+728 on both side.
- Rockfill placement station 0+586 to 0+626 for the south side and 0+508 to 0+583 for the north side. The compaction has been done with 4 passes of dozer D8 and the lift thickness is good.
- Coarse filter placement station 0+600 to 0+652 to reach elevation 155,0m.
- Coarse filter placement on north side station 0+703 to 0+728.The approval form has been done for this section.
- Fine filter placement station 0+748 to station 0+815. Two samples have been taken in this section, (FF-AMQ-085) at station 0+782 and (FF-AMQ-086) at station 0+803.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

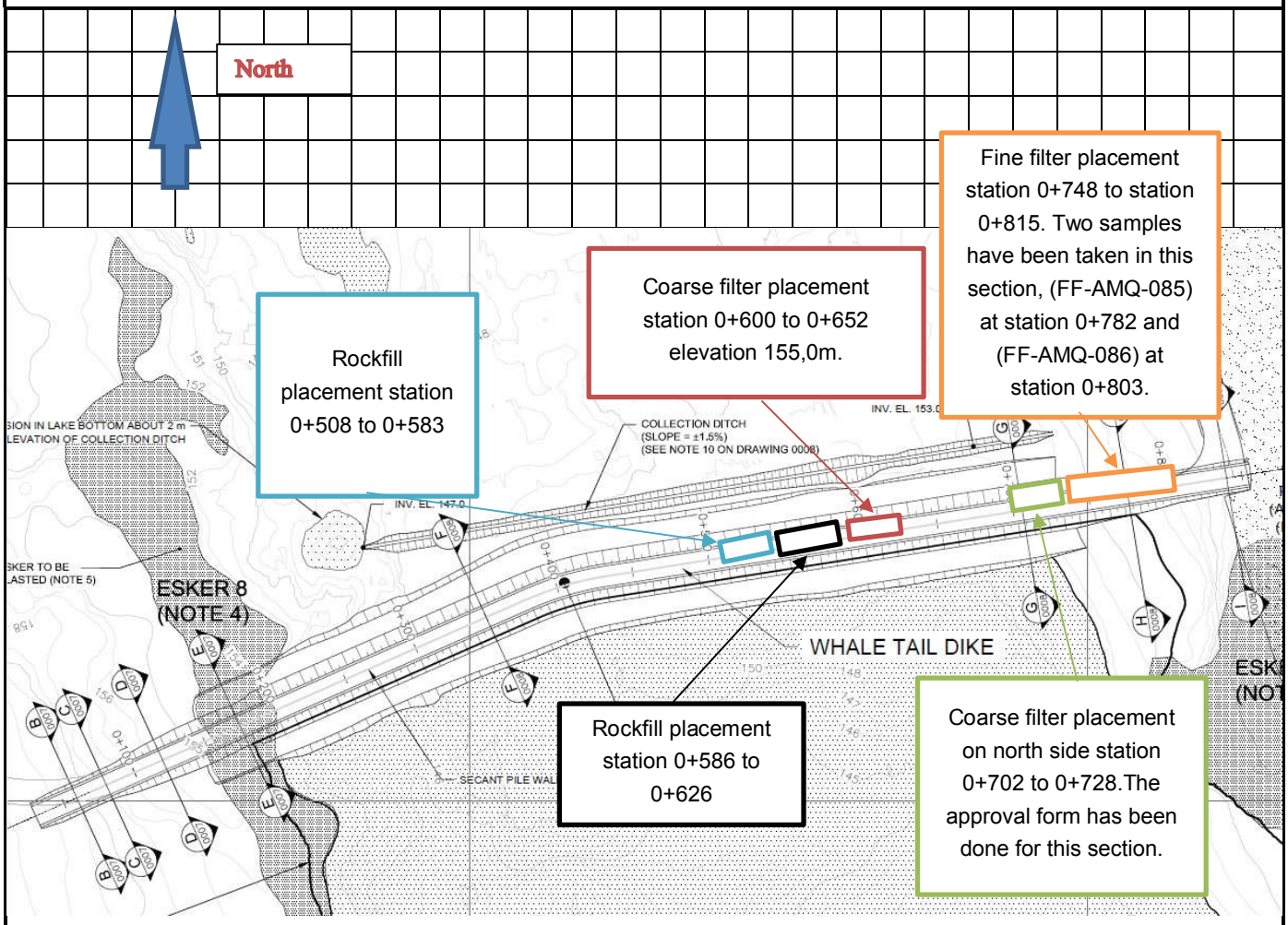
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-25 (Night Shift)	



Prepared by: Denis Jacques Coulombe Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-26 day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training	10 ˚C
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	

Field Results

- Fine filter placement at the East Abutment topping at the elevation 157m between the stations 0+735 to 0+805. Sample FF-AMQ-087.
- Coarse Filter placement on the North side of the dike topping at 157m between the stations 0+745 to 0+805. Has been compacted has required. Sample CF-AMQ-015.
- Coarse filter placement on the South side of the dike topping at 157m between the stations 0785+ to 0+805 instead of rockfill, explained by a lift thickness less than 0.4m (would impossible with Rockfill).
- Fine Filter placement inside of the key trench from the station 0+695 to 0+727. Sample FF-AMQ-088.
- Coarse filter placement inside of the key trench on the South side of the dike between the stations 0+702 to 0+727.
- Fine filter placement between the stations 0+655 to 0+670. Sample FF-AMQ-089.
- Coarse Filter placement on the North side of the dike topping at the elevation 157m until the station 0+645. Compacted has required.
- Rockfill placement on the North side of the dike between the stations 0+625 to 0+590 topping at the elevation 157m. Compacted has required.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

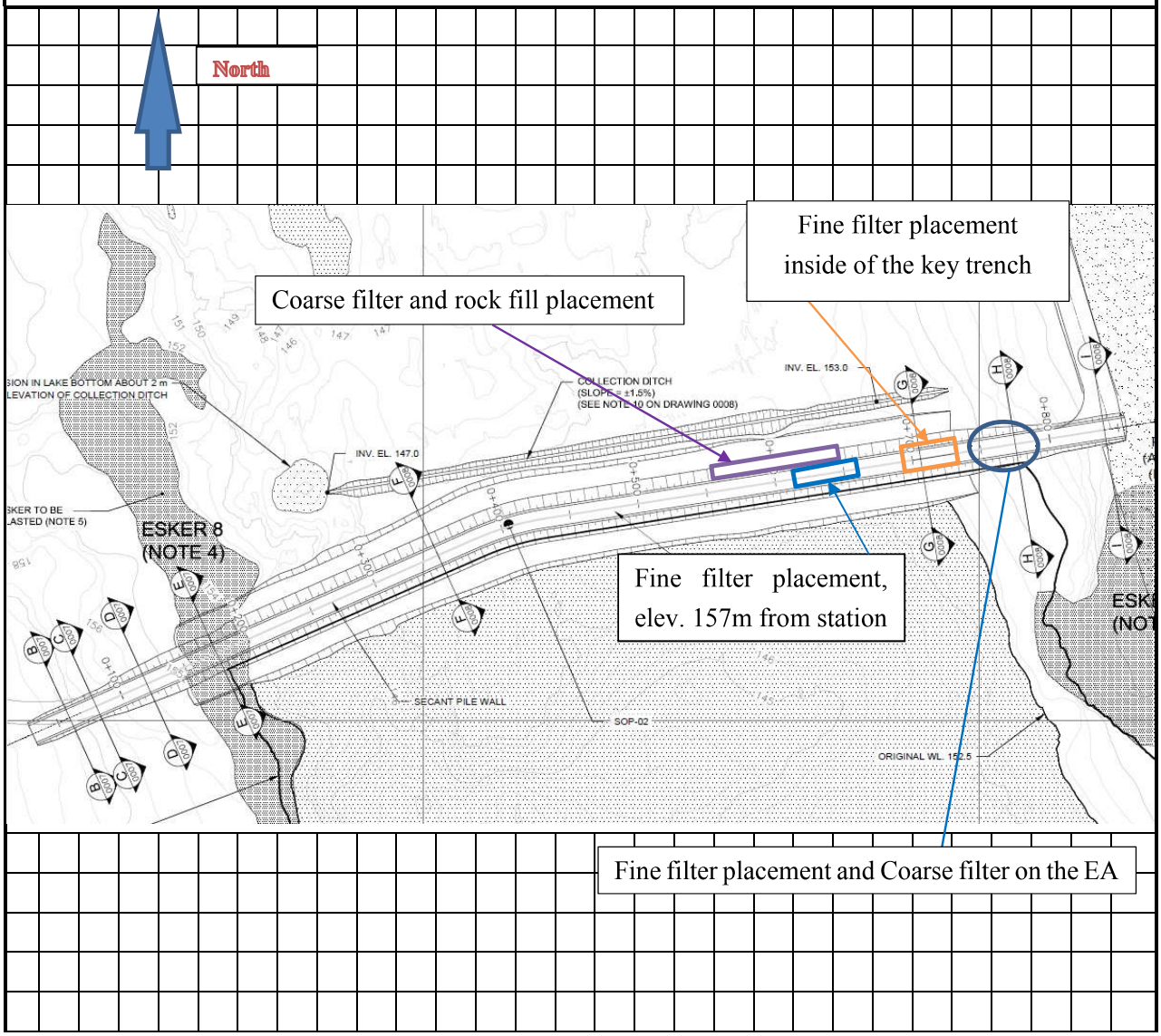
Project Manager : Daniel Pedneault

Time on site : 12h

AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-26 day shift	



Prepared by: Maxime Côté Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-26(Night)
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☒ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

0 ˚C

Field Results

- Rockfill placement station 0+756 to 0+797 on both side.
- Rockfill placement station 0+625 to 0+700 for the south side. The compaction has been done with 4 passes of dozer D8 and the lift thickness is good.
- Coarse filter placement station 0+652 to 0+695 for topping elevation 155,0m on north side.
- Fine filter placement station 0+680 to 0+740 at elevation 157,0m. Sampling (FF-AMQ-091) at station 0+707 el: 157.0m.
- Fine filter placement station 0+317 to 0+383 at 154.2 m of elevation. Sampling (FF-AMQ-090) at station 0+370.
- Coarse filter placement station 0+317 to 0+383 on north side. Elevation 154.2m.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

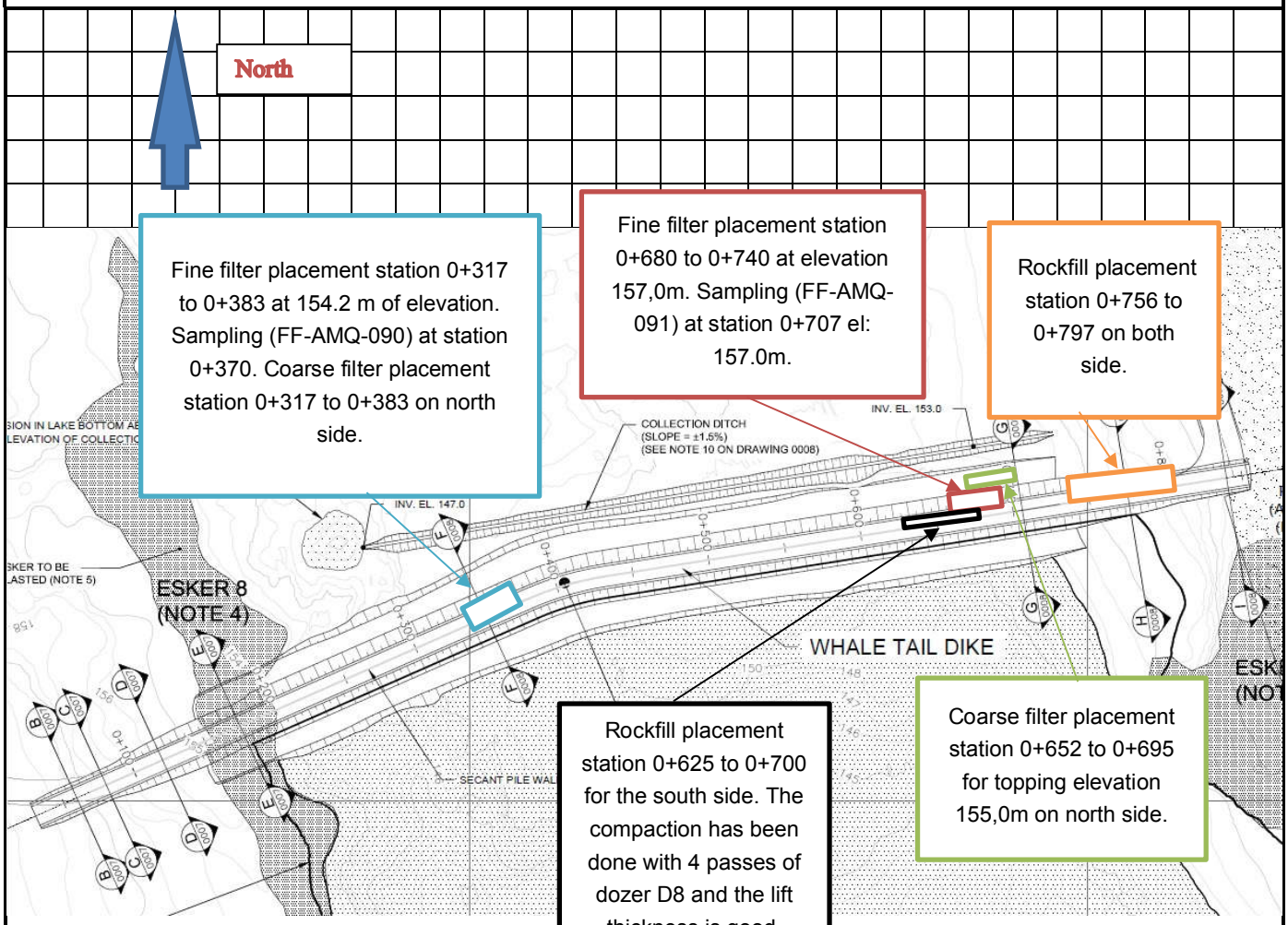
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-26 (Night Shift)	



Prepared by: Denis Jacques Coulombe Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-27(Day)
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

15 ˚C

Field Results

- Rockfill placement station 0+685 to 0+755 for topping elevation 155,0m on North side.
- Coarse filter placement station 0+689 to 0+750 for topping elevation 157,0m on North side.
- Rockfill placement station 0+340 to 0+383 on both side for elevation 155m.
- Rockfill placement station 0+634 to 0+677 for topping elevation 155,0m on South side.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Marc-Olivier Bernard

From : EAM

Signature* :

Project Manager : Daniel Pedneault

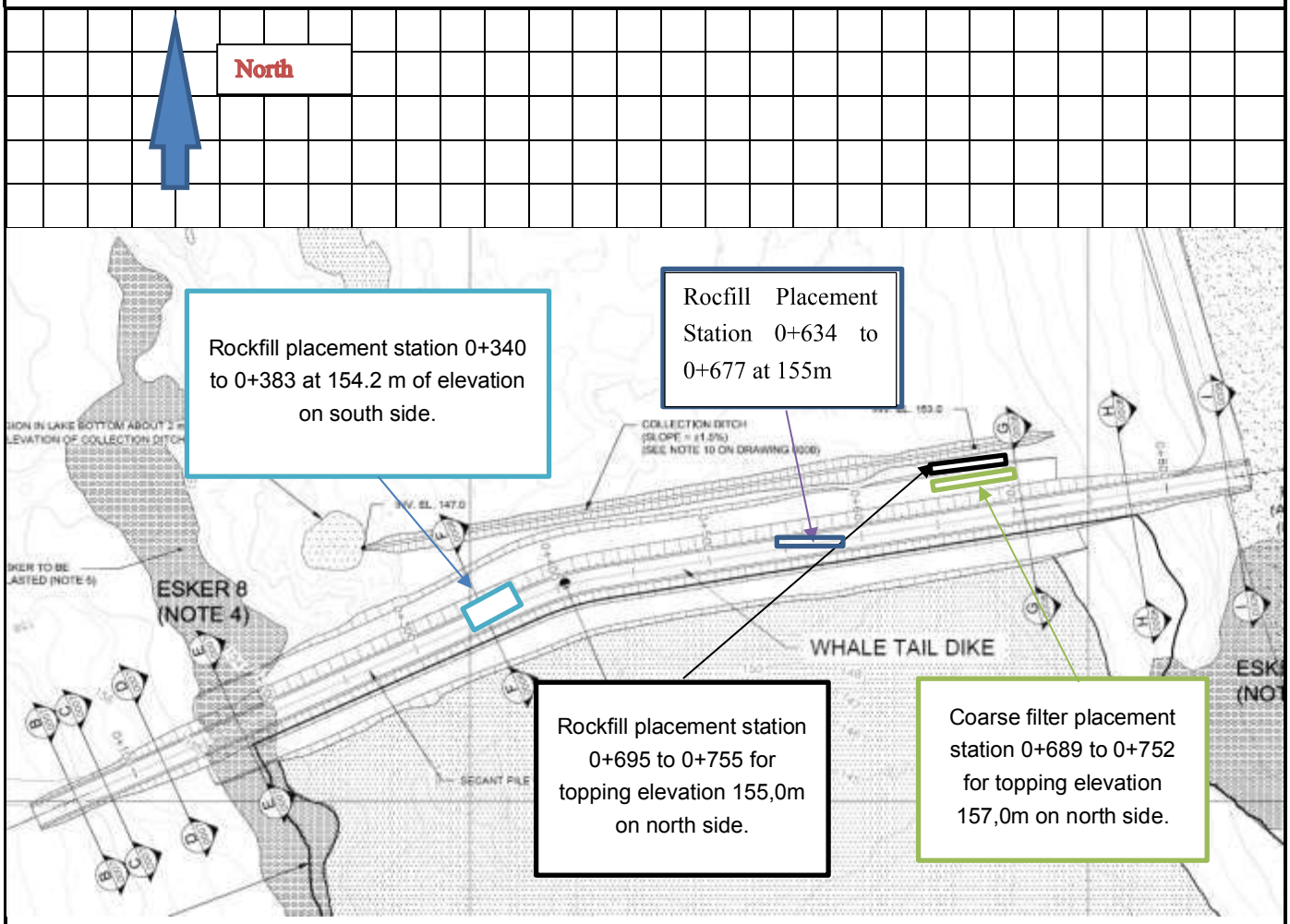
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-27 (Day Shift)	



Prepared by: Marc-Olivier Bernard Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-27 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

6 ˚C

Field Results

- Coarse Filter placement on the North side of the dike topping at 157m between the stations 0+689 to 0+660. Compaction has required. Sampling CF-AMQ-016 on station 0+685 at 157m.
- Profiling the final crest level of Fine Filter between stations 0+835 to 0+600 at 157m.
- Rockfill placement on the South side of the dike between the stations 0+320 to 0+330 topping at the elevation 154.5m. Compaction has required.
- Rockfill placement on the South side of the dike between the stations 0+700 to 0+650 topping at the elevation 154.5m. Compaction has required.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

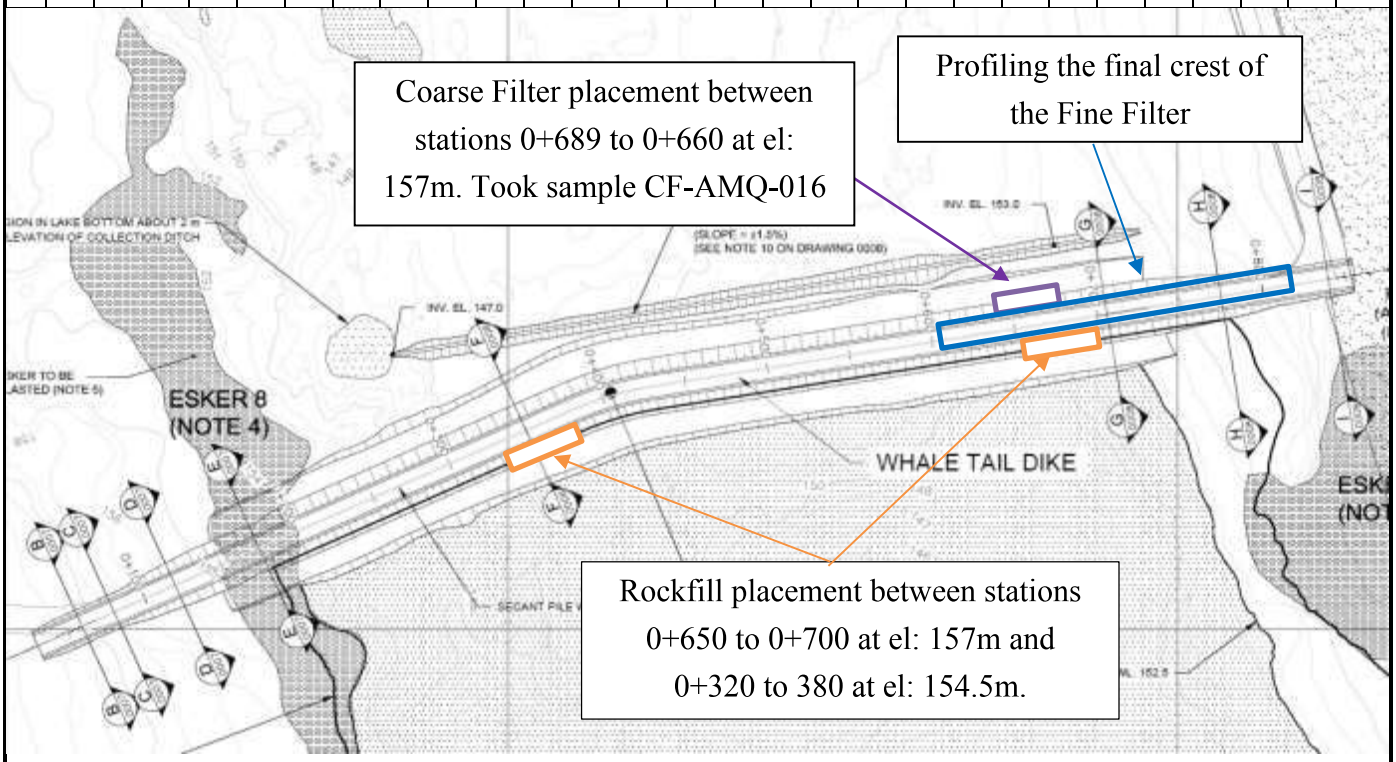
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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-27 Night shift	

North



Prepared by: Edwards Fillan Tremblay Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-28 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

10 ˚C

Field Results

- Compaction of the Rockfill placement on the South side of the dike between the stations 0+320 to 0+330 topping at the elevation 154.5m.
- Final correction on access to the dike North side
- The crane from Ménard have been mobilize on the dike. Dynamic compaction will start tomorrow morning.
- Rockfill placement on the South side of the dike between the stations 0+725 to 0+640 topping at the elevation 157m. Compacted has required.
- West Abutment, cleanup of the slurry trench.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay
(Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

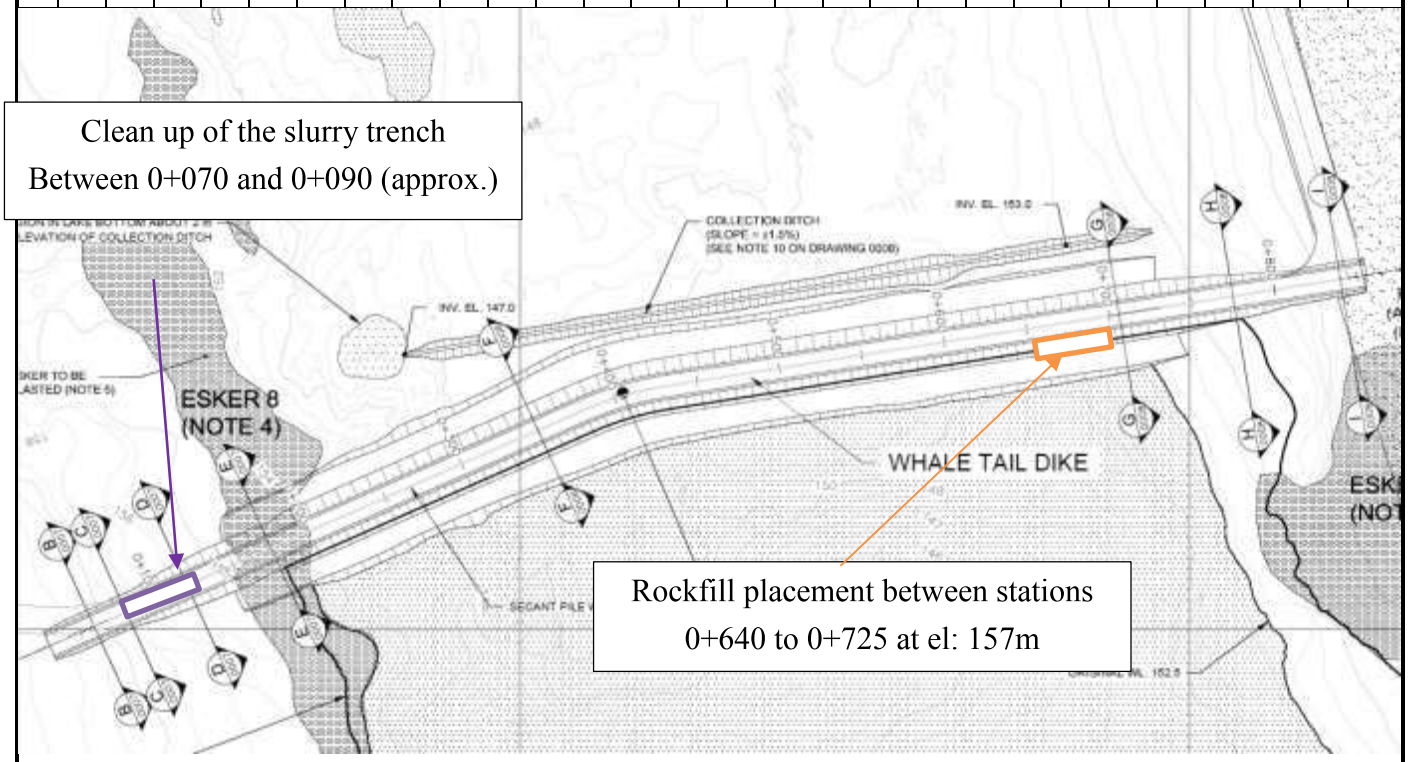
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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-28 day shift	

North



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-28 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

7 ˚C

Field Results

- Rockfill placement on the North side of the dike between the stations 0+640 to 0+660 topping at the elevation 157m. Compacted has required.
- Excavation East abutment on station 0+835 for profiling the access.
- Made some correction on Rockfill between stations 0+620 to 0+580 for the topping at the elevation 157m and the compaction.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

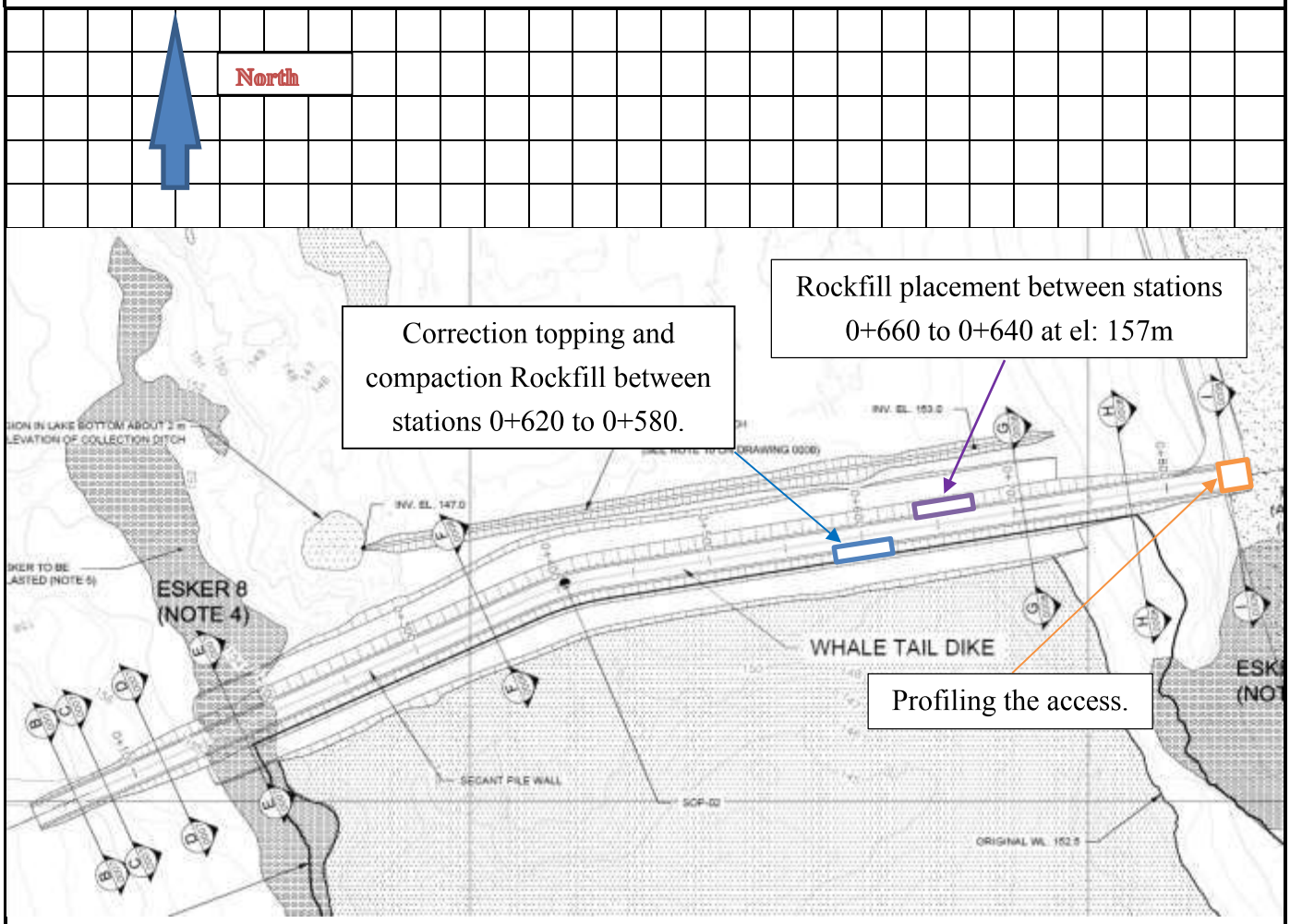
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-28 Night shift	



Prepared by: Edwards Tillan Tremblay Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-29 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training	5 ˚C
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	

Field Results

- Dynamic compaction on going. Phase 1 and 2 from 0+335 to 0+380 is done. (DC10) at elevation 153.5m
- Gradation from WRSF sampling on going in the laboratory.
-
-
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

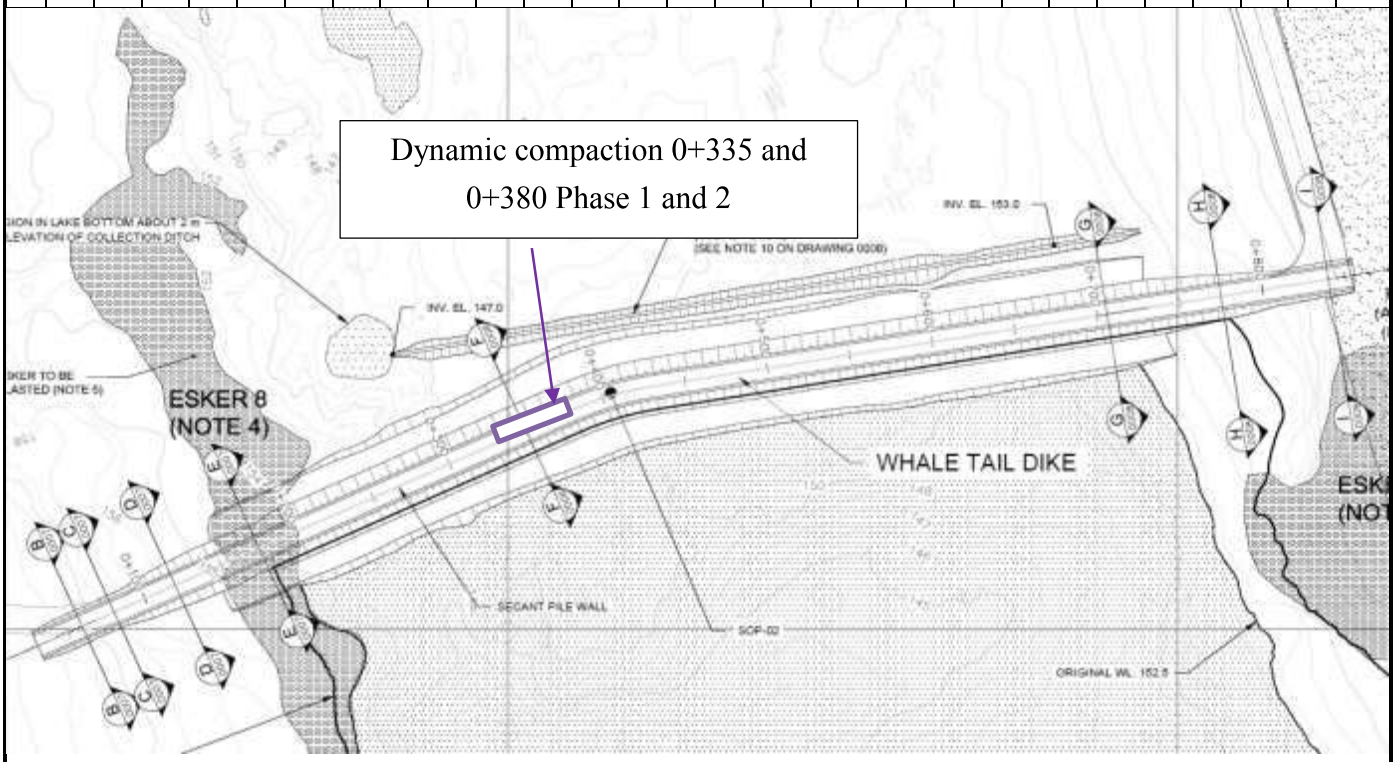
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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-29 day shift	

North



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-29 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



7 ˚C

Field Results

- Backfill the big hole in the key trench created by Dynamic compaction between stations 0+335 to 0+380 at el: 153.5m.
- Put some materiel on the road around the dike and made some correction on the berms.
- Stockpile of Rockfill on going.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

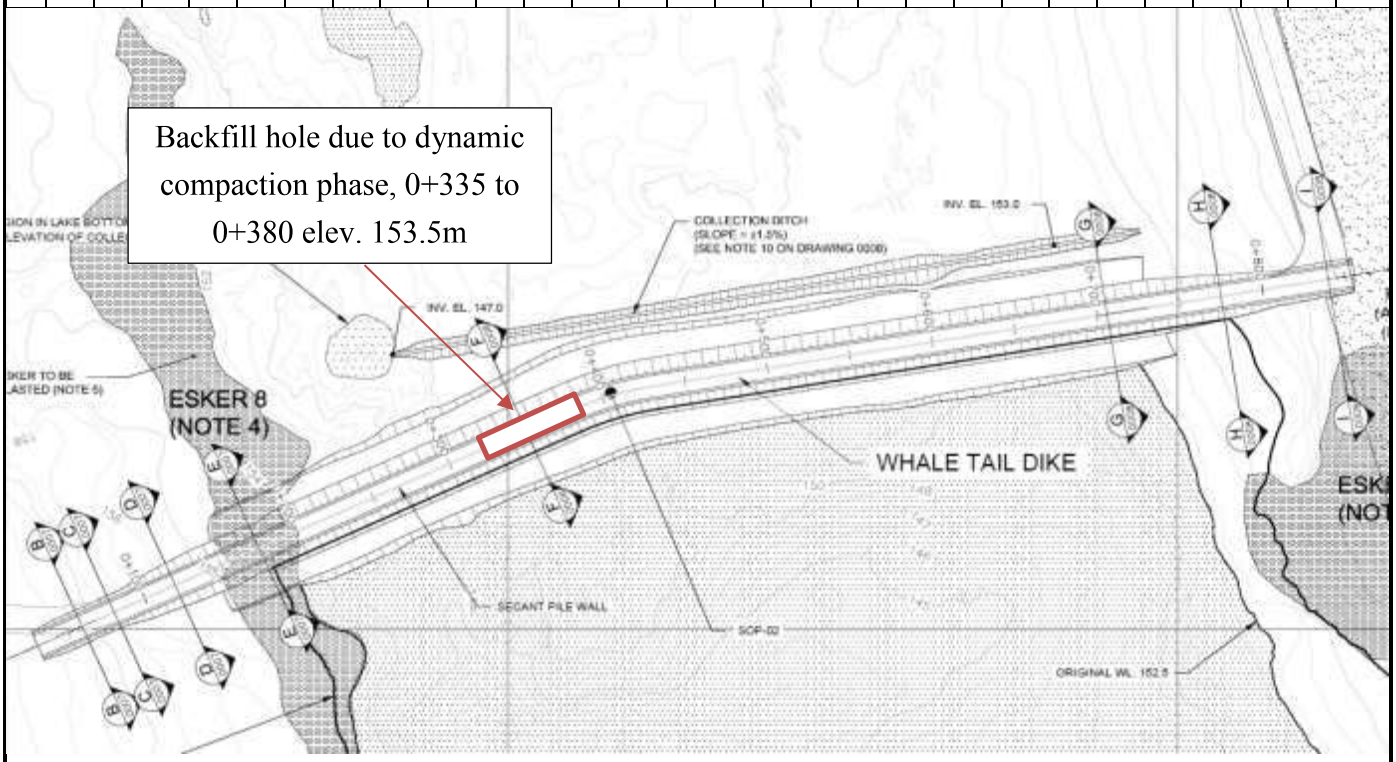
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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-29 Night shift	

North



Prepared by: Edwards Tillan Tremblay Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-30 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Rockfill Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



7 ˚C

Field Results

- Dynamic compaction on going. Phase 3 and 4 from 0+335 to 0+380 is done. (DC11) at elevation 153.5m
- Gradation from WRSF sampling on going in the laboratory.
- Backfill with FF to raise the platform to elevation 157m between 0+335 and 0+360.
- Sample of Fine filter #FF-AMQ-092 at 0+339 Elev.:157m
- Dynamic compaction phase 1 and 2 between 0+330 and 0+205 done, the contractor is authorize to fill the hole during night shift.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

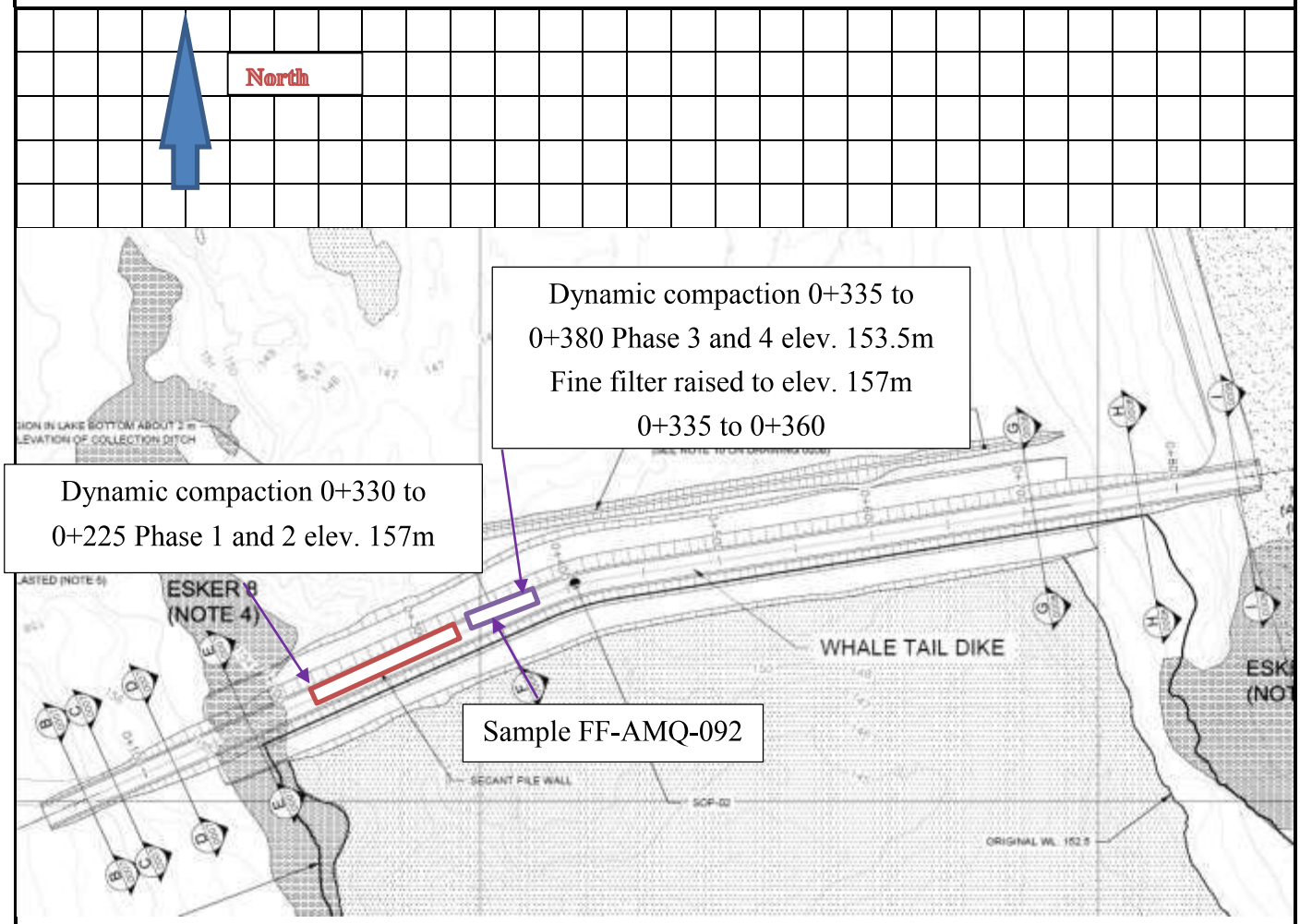
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-30 day shift	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-30 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

3 ˚C

Field Results

- Backfill the hole in the key trench created by Dynamic compaction between stations 0+330 to 0+205 at el: 157m.
- Backfill with FF to raise the platform to elevation 157m between 0+360 and 0+380 and we made the approval form.
- Backfill with CF on North side to raise the lift at el: 157m between stations 0+330 to 0+380.
- Sample of Fine Filter #FF-AMQ-093 at 0+225 Elev.: 157m.
- Sample of Coarse Filter #CF-AMQ-017 at 0+353 Elev.: 155m.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

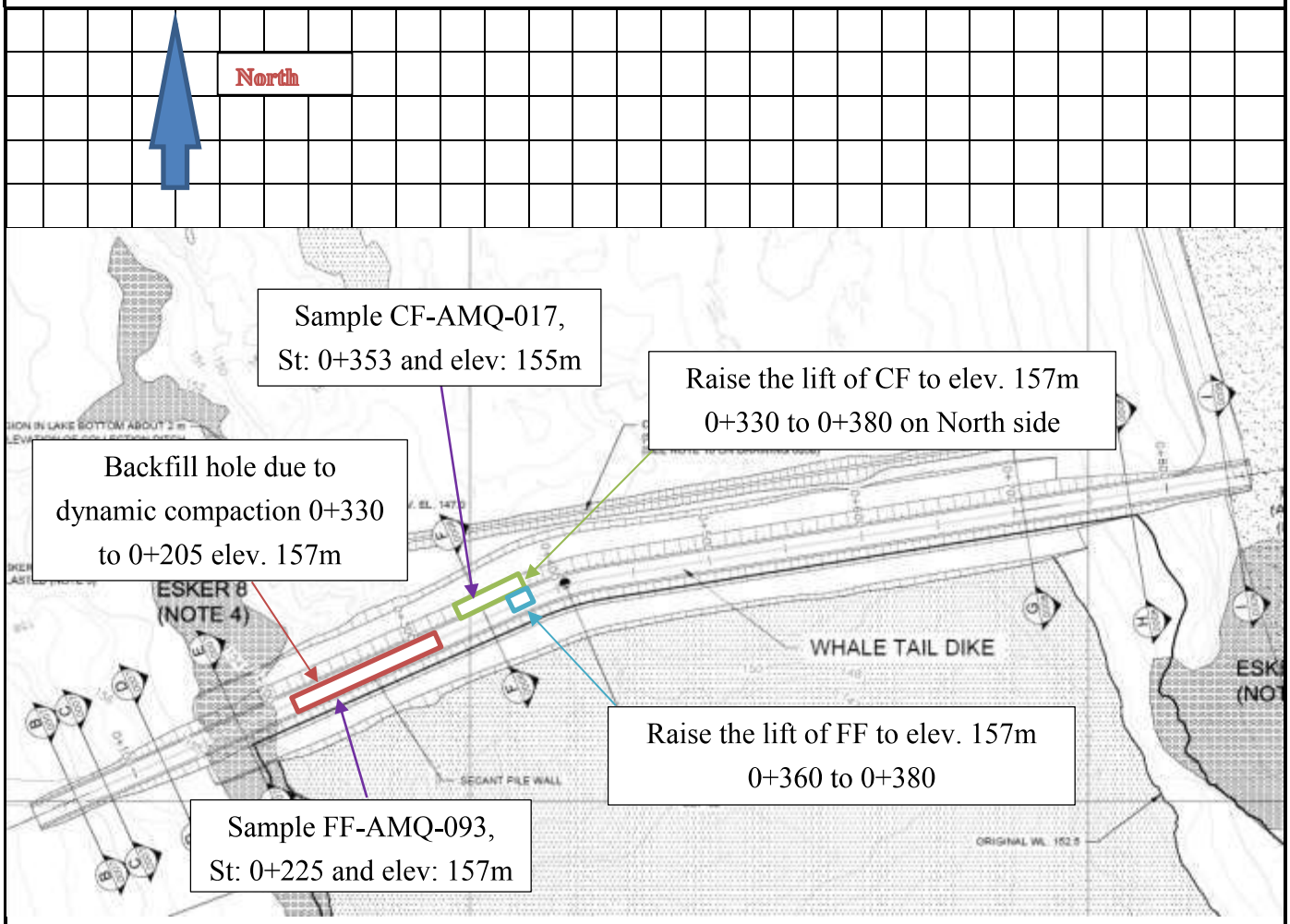
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-30 night shift	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-31 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



10 ˚C

Field Results

- Dynamic compaction on going. Phase 1and 2 from 0+225 to 0+092 and phase 3 and 4 from 0+330 to 0+180
- Gradation from WRSF sampling on going in the laboratory.
- Finishing the coarse filter backfilling between 0+330 and 0+380. Approval form done by SNC
- Sample of Fine filter #FF-AMQ-094 at 0+130 Elev.:157m
- Rockfill between 0+330 and 0+380 north side and 0+330 to 0+360 South side, Elev. 155m
- Foundation approval form for dynamic compaction between 0+330 and 0+380 phase 1 to 4 completed.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

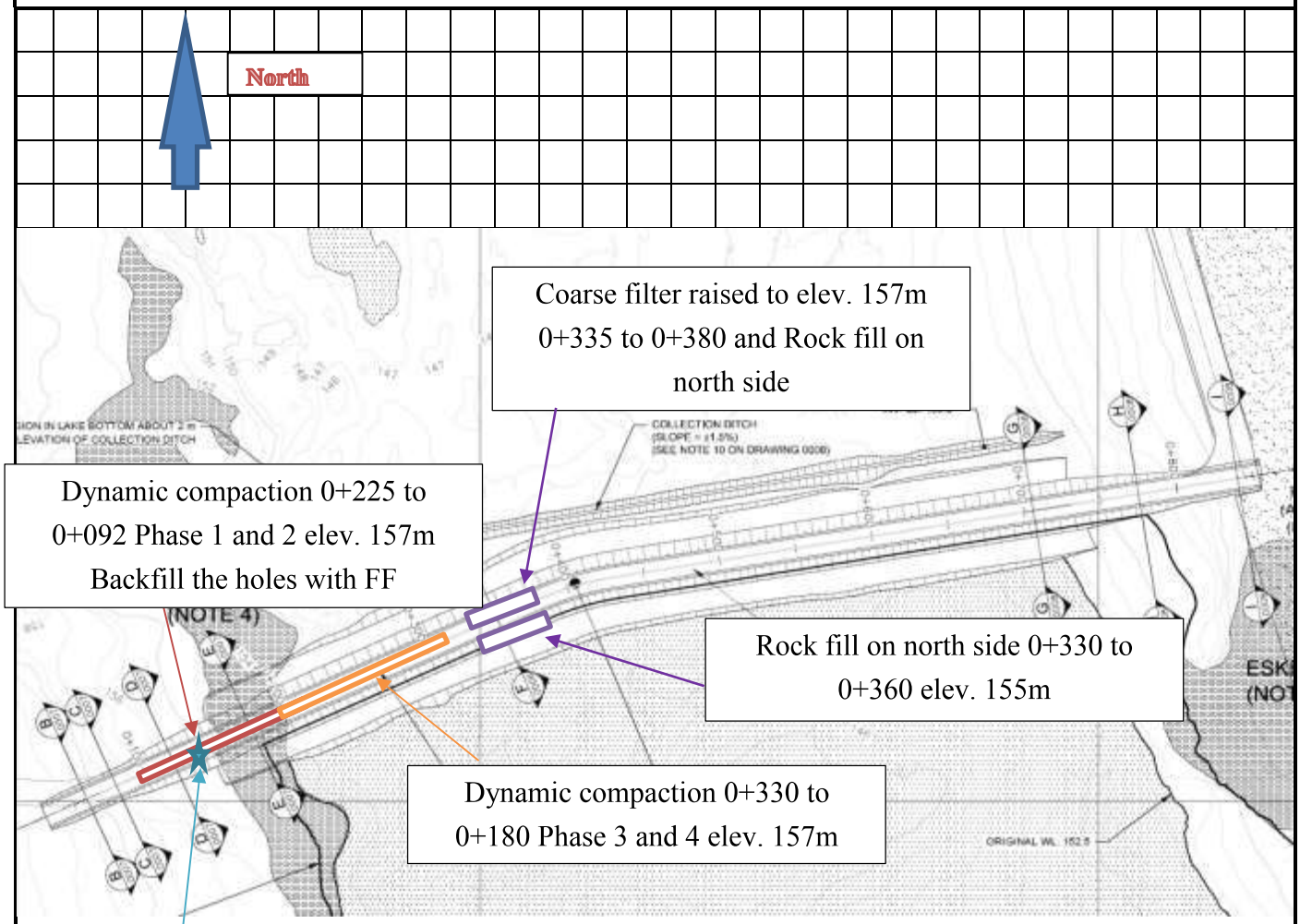
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-31 day shift	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-08-31 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

4 ˚C

Field Results

- Backfill the hole in the Fine Filter created by Dynamic compaction between stations 0+330 to 0+205 at el: 157m.
- Rockfill between 0+330 and 0+360 South side, Elev. 157m
- Compaction 0+330 to 0+205 with parker on the middle of the crest.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

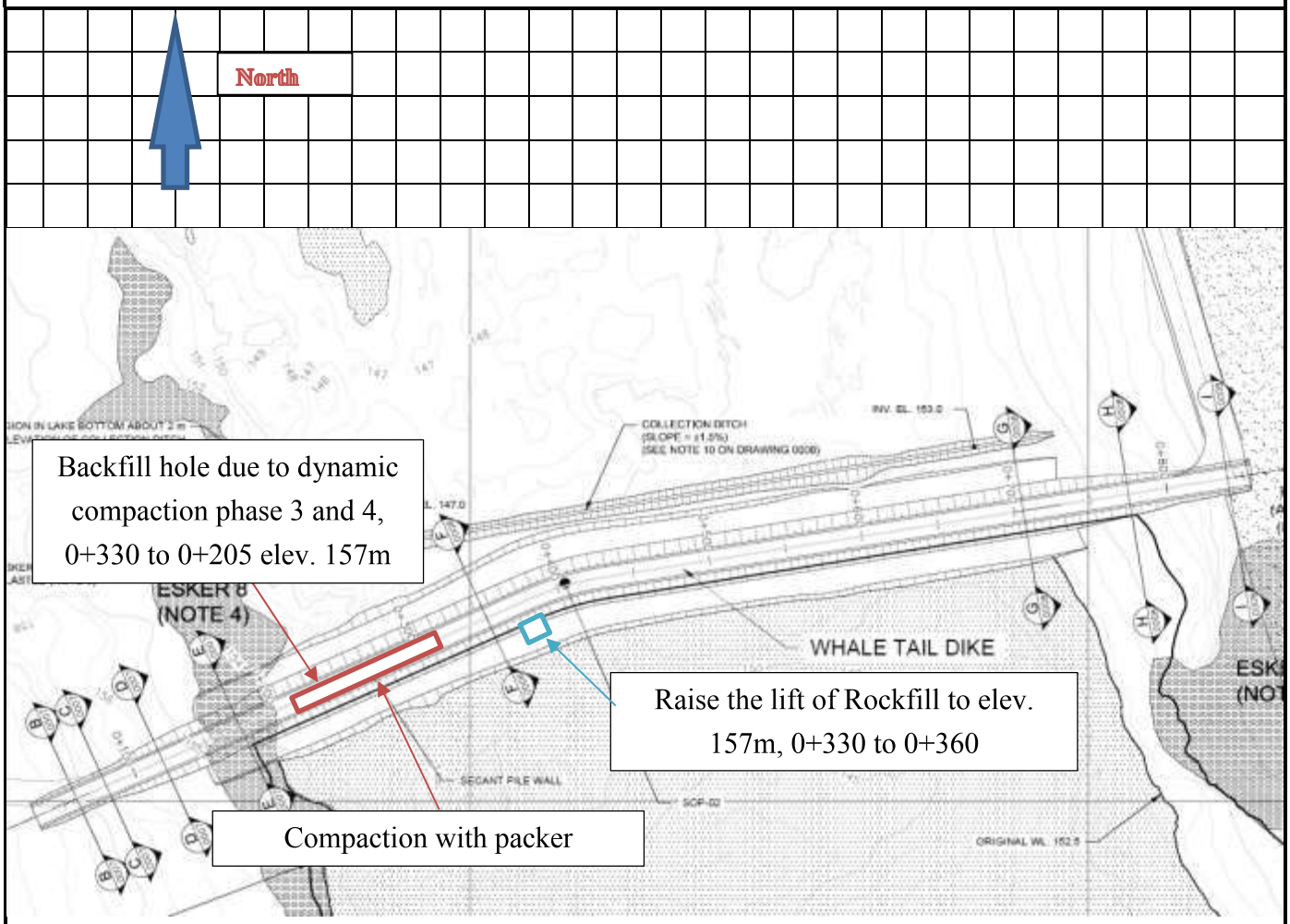
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-08-31 night shift	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-01 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



9 ˚C

Field Results

- Dynamic compaction on going. Phase 3and 4 from 0+180 to 0+092 and phase 1-2 from 0+300 to 0+380 done
- Gradation from WRSF sampling on going in the laboratory.
- Setting of the laboratory for CB sampling and testing with Frédérick Tremblay from Sana.
- Sample of Fine filter #FF-AMQ-095 at 0+100 Elev.:157m
- Rockfill between 0+320 and 0+420 north side on going to be finishing at night (sloping)
- The Rock fill have too much fine parts in it. Boulders will be added on night shift to balance the gradation.
- Holes have been backfilling with fine filter compaction needed.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

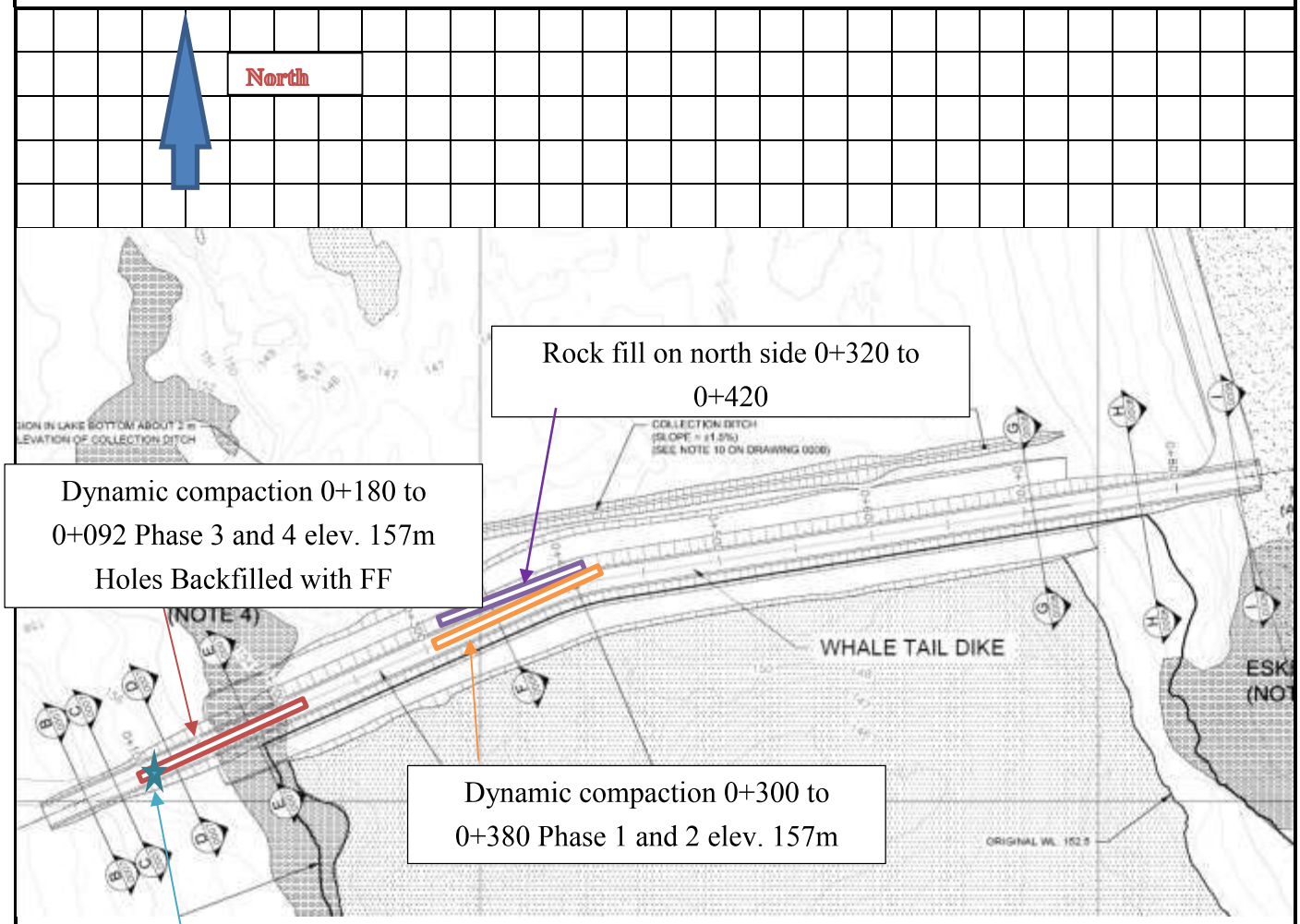
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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-09-01 day shift	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-01 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

4 ˚C

Field Results

- Backfill the hole in the Fine Filter created by Dynamic compaction between stations 0+300 to 0+410 at el: 157m.
- Due to bad communication, the shovel operator loaded too much fine parts in the Rockfill rather than coarser material as discussed during the day. The situation was corrected after 3 load of articulate truck (35 Tons) around stations 0+330 to 0+353.
- Compaction 0+330 to 0+380 and 0+092 to 205 with packer on the middle of the crest.
- Rockfill between 0+320 and 0+420 north side is done. (sloping)

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

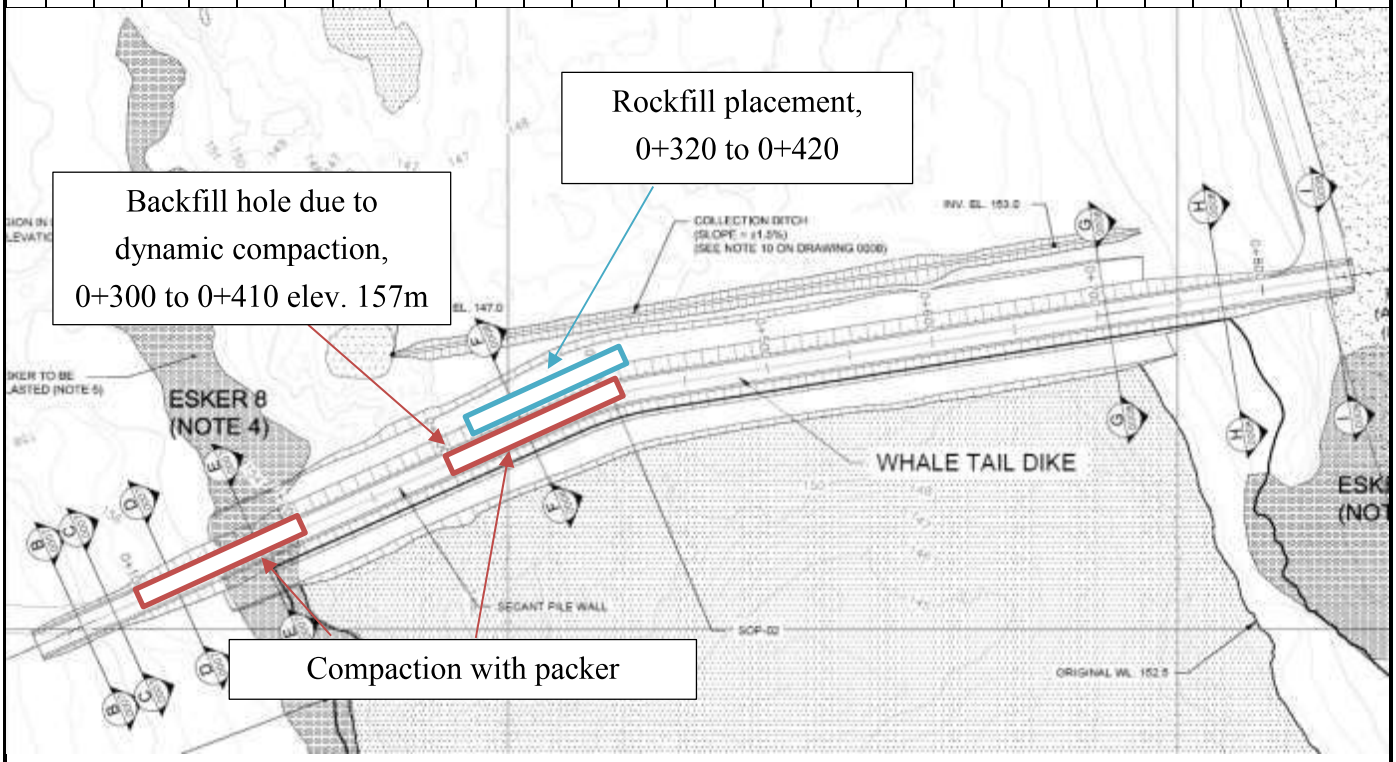
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-09-01 night shift	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-02 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☒ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

9 ˚C

Field Results

- Dynamic compaction on going. Phase 1-2 from 0+380 to 0+520
- Verification of the compaction at 0+090 to see where HRDI can start their secant piles. To be confirm by SNC
- Final touches on the slurry trench the end top is at 0+093 and the end bottom is at 0+090
- HDRI is rising the permodome around the batch plan
- Wood and pipes have arrived from Meadow to build the frame for the laboratory equipment. Labor worker will be available by tomorrow.
- The 8' long 2" pipes for the molds has arrived from meadow. The pipes will be cut in 10" section.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

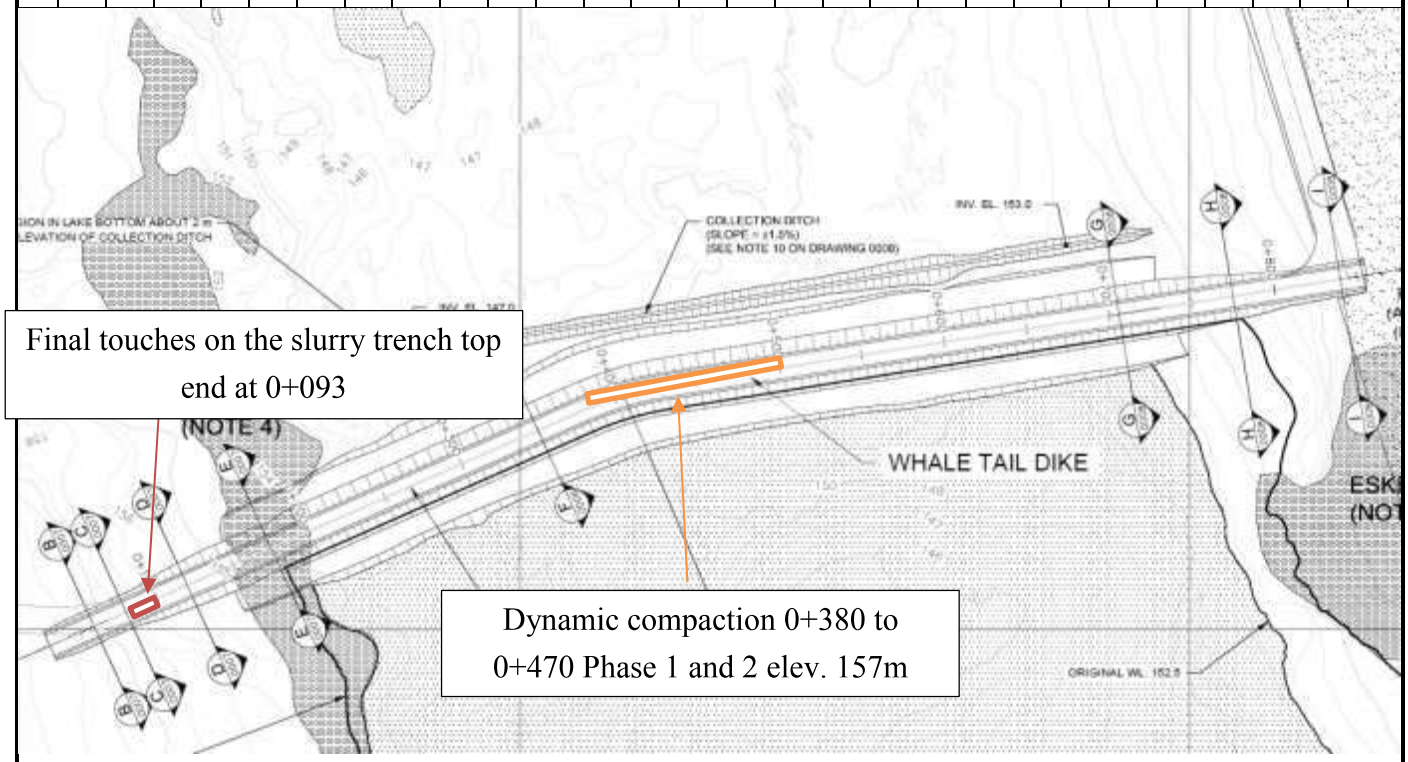
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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-09-02 day shift	

North



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-02 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

7 ˚C

Field Results

- Backfill the hole in the Fine Filter created by Dynamic compaction between stations 0+380 to 0+520 at el: 157m.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

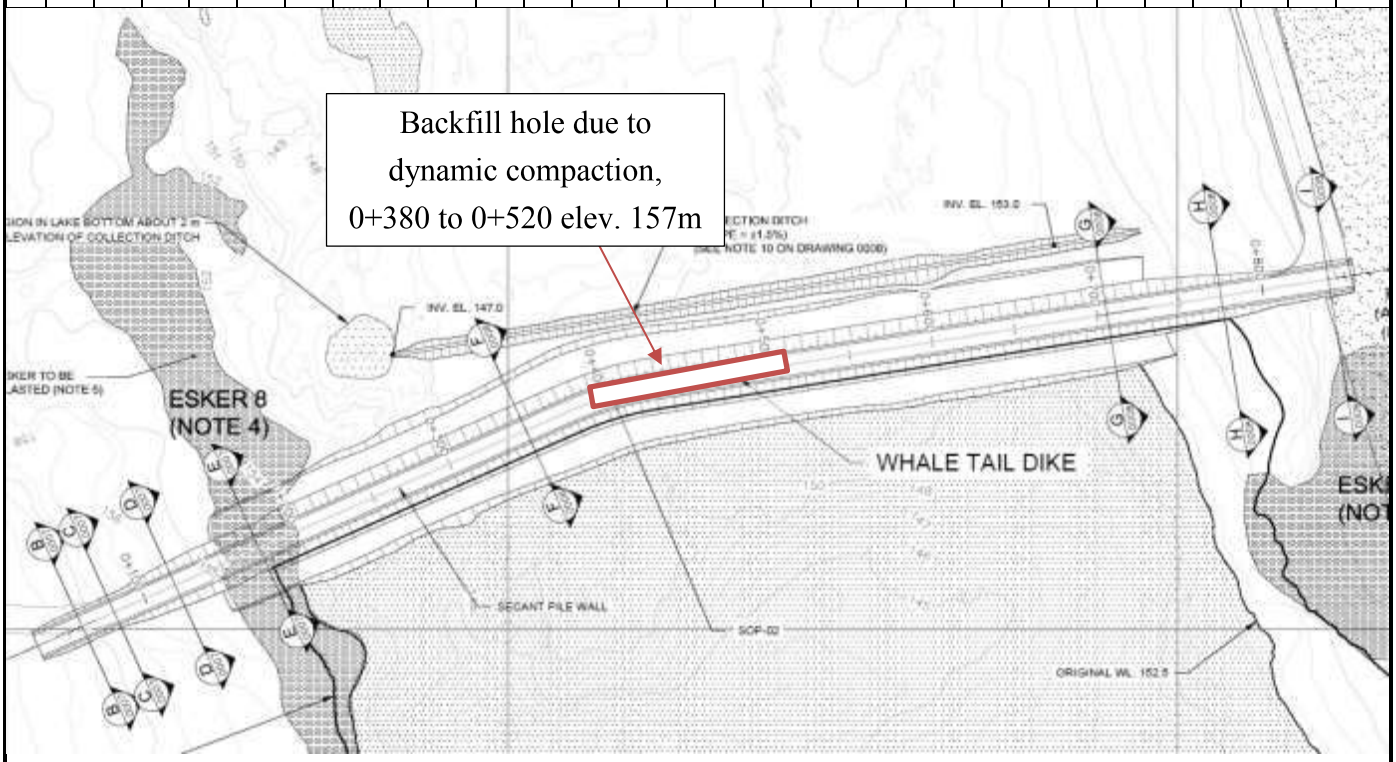
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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-09-02 night shift	

North



Prepared by: Ludovic Gillet-Tremblay Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-03 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

9 ˚C

Field Results

- Dynamic compaction on going. Phase 3-4 from 0+300 to 0+420 and phase 1-2 from 0+380 to 0+595
- Verification of the vibrations: at 25m from the pound : 15.5mm/s

  At 32m from the pound: 5.5 mm/s
- Modification of the laboratory interior on going
- HDRI is building the perma-dome on the batch plan.
- Finalized the installation of the isolated water pipe for the batch plan.
- (Surveyor) Implantation of the primary secant piles between 0+092 and 0+300 the first one that will be drill is the number 0009. Maybe they will start tonight.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

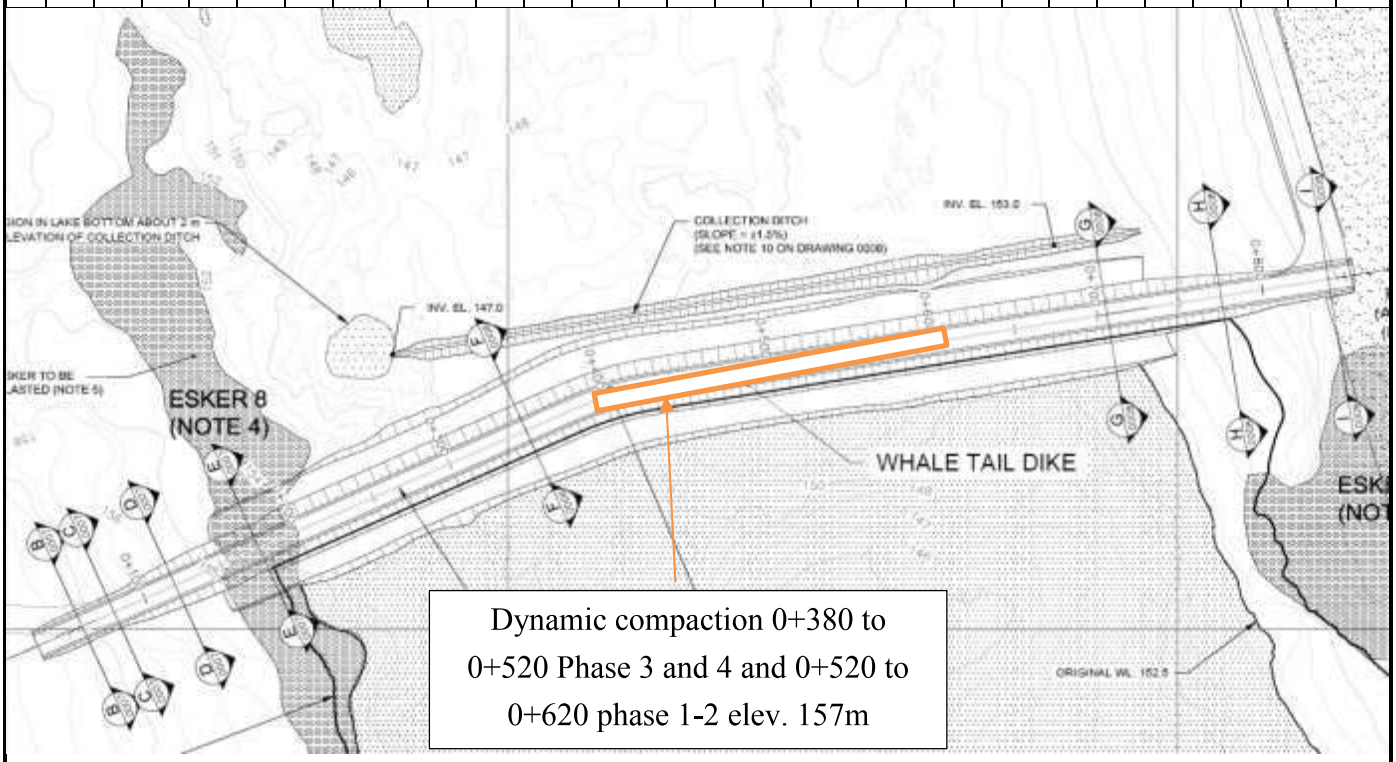
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AGNICO EAGLE

Daily Field Report

Client: EAM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-09-03 day shift	

North



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-03 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



6 ˚C

Field Results

- Backfill the hole in the Fine Filter created by Dynamic compaction phase 1-2 between stations 0+520 to 0+595 and phase 3-4 between stations 0+300 to 0+420 at el: 157m.
- HDRI install 5 primary secant piles casing one feet in the bedrock. (0009 / 0013 / 0017 / 0021 / 0025)
- Make some modifications in the laboratory.
- Compaction 0+300 to 0+420 with parker on the middle of the crest.
- Took two sample of Fine filter. # FF-AMQ-097, st: 0+565, el: 157m
  # FF-AMQ-098, st: 0+340, el: 157m

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

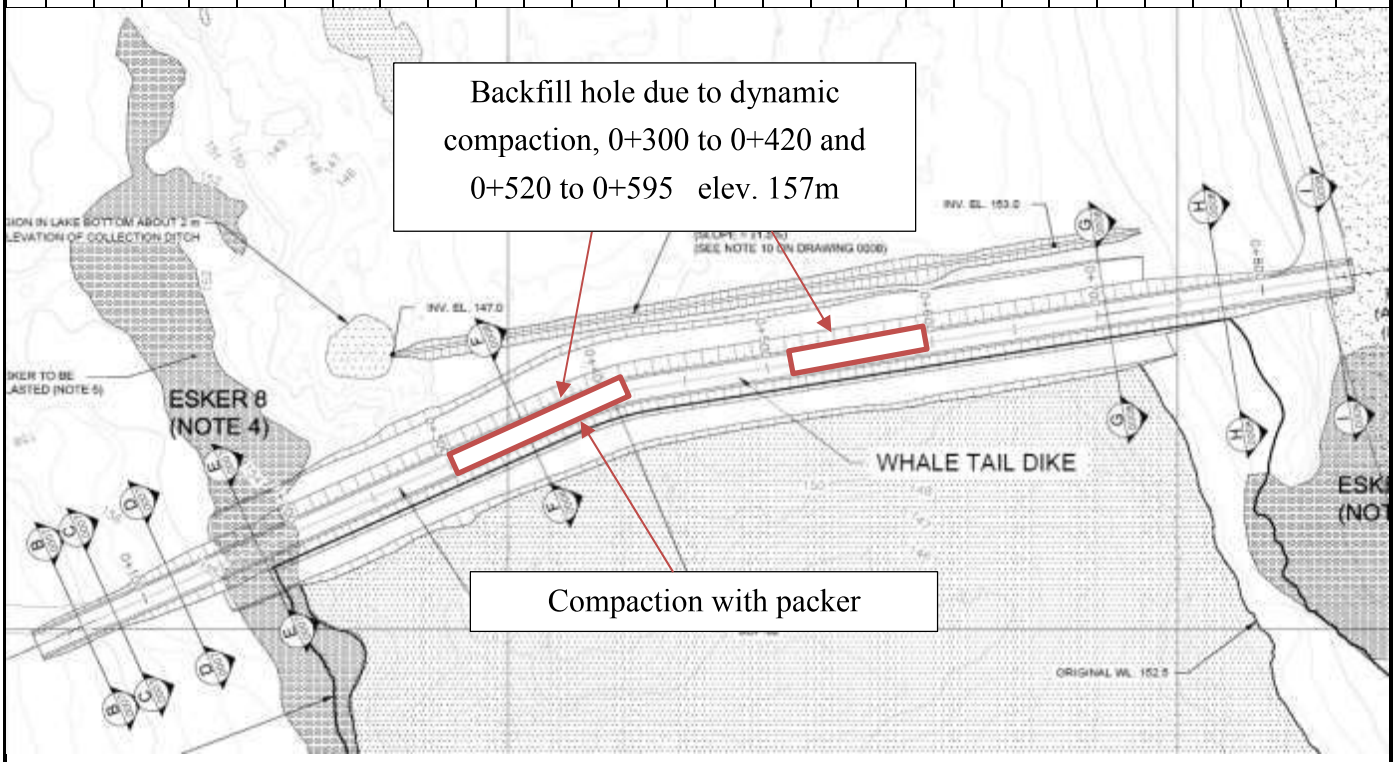
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-09-03 night shift	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-04 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



0˚C

Field Results

- Dynamic compaction on going. Phase 3-4 from 0+420 to 0+595. Also Phase 1-2 from 0+595 to 0+610.
- HRDI is building the permadome on the batch plan. They have issues with the computer that control the batch plan because of the weather. Rain and computer does not go together.
- Modification of the laboratory interior on going
-
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

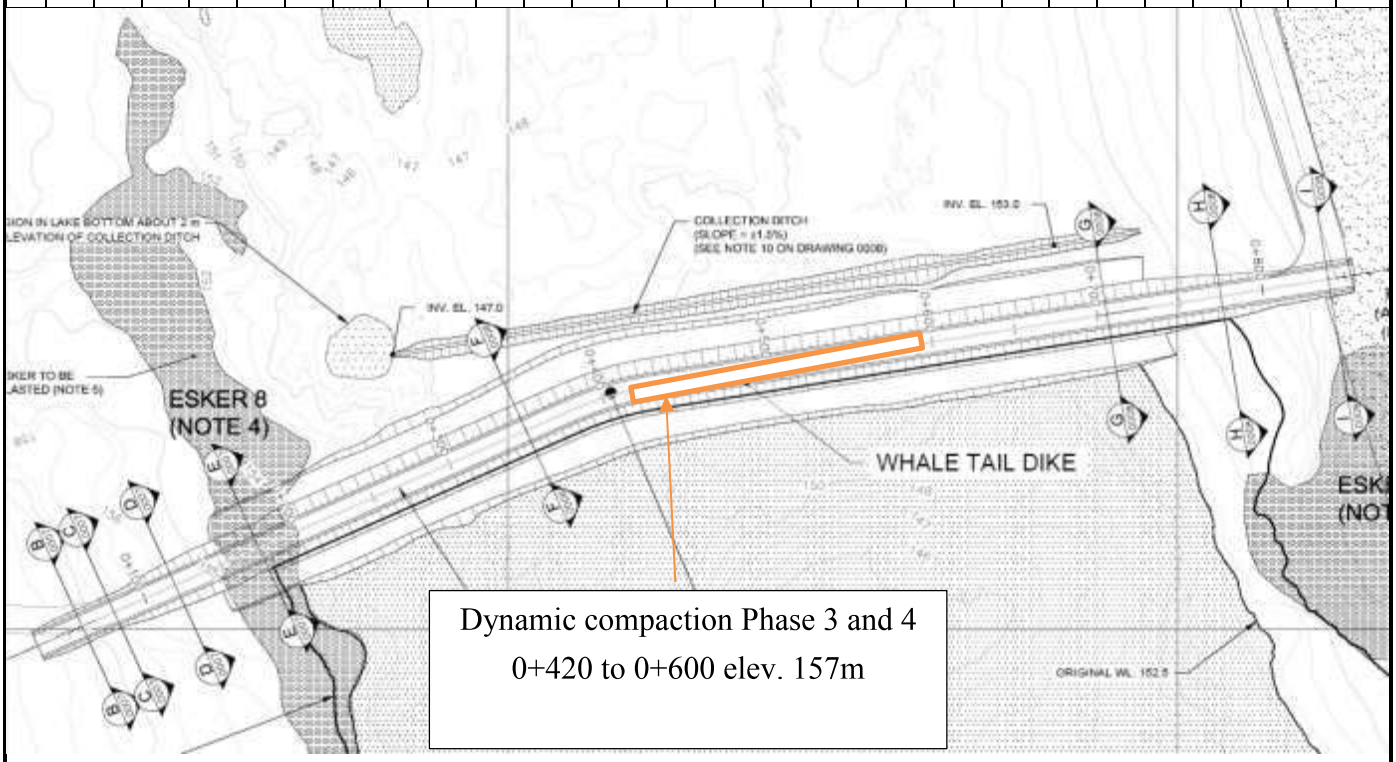
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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-09-04 day shift	

North



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-04 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



6 ˚C

Field Results

- Backfill the hole in the Fine Filter created by Dynamic compaction phase 3-4 between stations 0+420 to 0+595 and phase 1-2 between stations 0+595 and 0+620 at El: 157m.
- HDRI install 5 primary secant piles casing one feet in the bedrock from St. 0+111 to 0+124. (0029 / 0033 / 0037 / 0041 / 0045)
- Gradation FF-AMQ-096 to FF-AMQ-099 has been made in the laboratory.
- Took sample of Fine filter. # FF-AMQ-099, st: 0+570, el: 157m

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

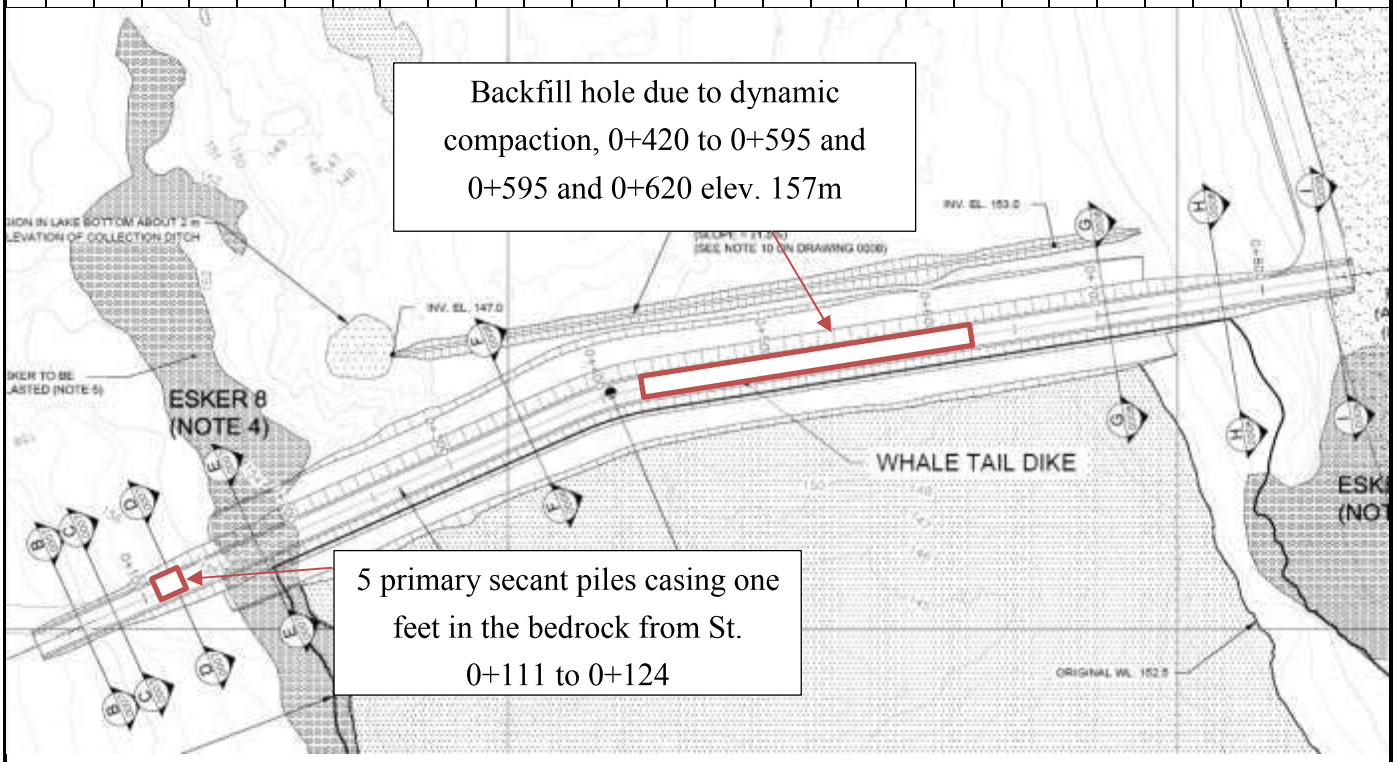
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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-09-04 night shift	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-05 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



4˚C

Field Results

- Dynamic compaction on going. Phase 1-2 from 0+600 to 0+780.
- HRDI is building the permadome on the batch plan.
- HRDI Drill in the bedrock in secant pile #0045 but it's not finish.
- Setup of the UCS press in the laboratory. Somes parts and calibrations are missing.
- Compaction is needed on holes they filled last night to do the foundation approval
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

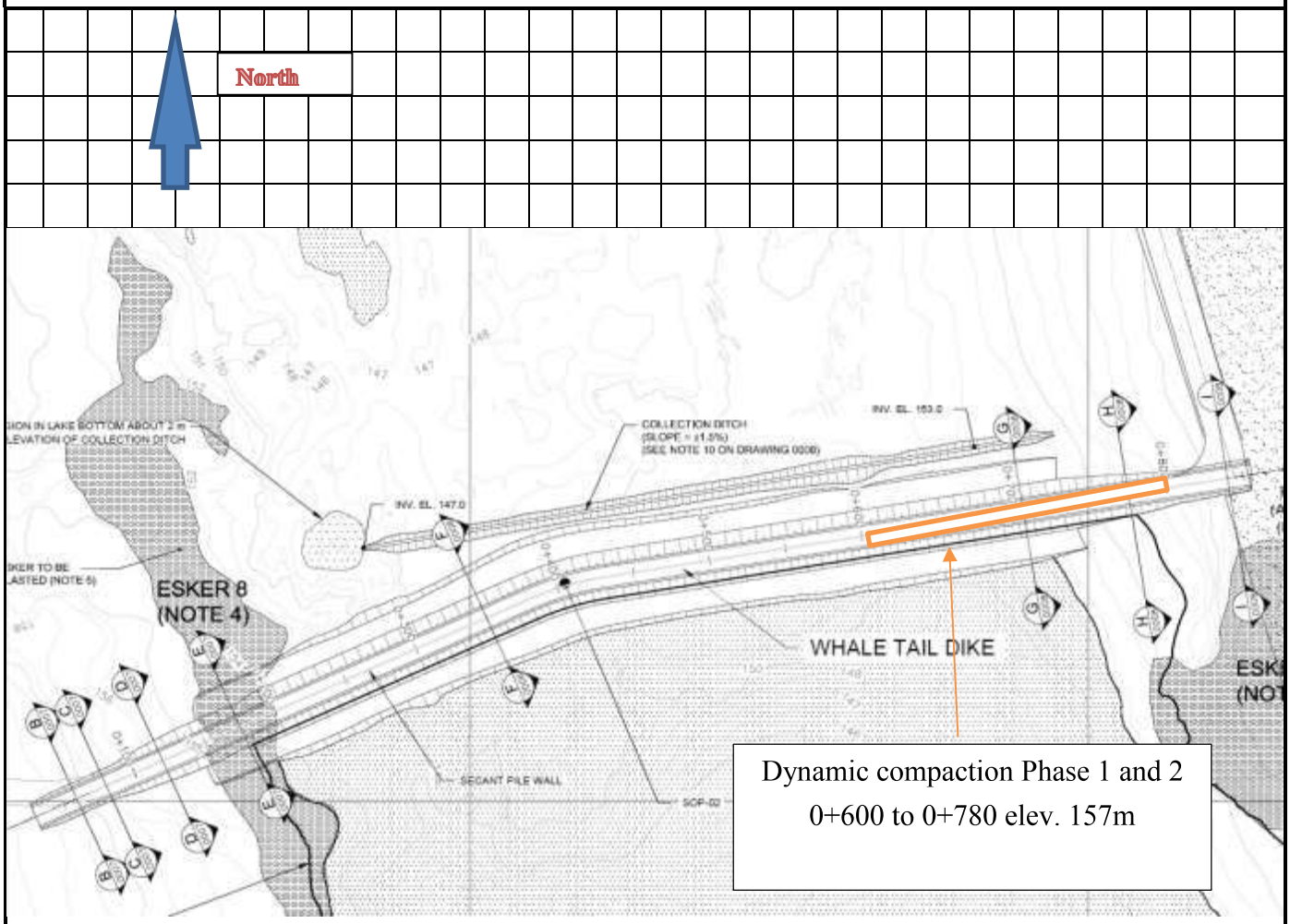
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-09-05 day shift	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-05 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



2 ˚C

Field Results

- Backfill the hole in the Fine Filter created by Dynamic compaction phase 1-2 between stations 0+600 to 0+780, El: 157m.
- HDRI install 5 primary secant piles casing one feet in the bedrock from St. 0+127.15 to 0+139.95. (0049 / 0053 / 0057 / 0061 / 0065)
- Compaction 0+425 to 610 with packer on the middle of the crest
- Took sample of Fine filter. # FF-AMQ-100, st: 0+665, el: 157m
- Cut all the tubing for preparation sampling mould of ciment bentonite.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

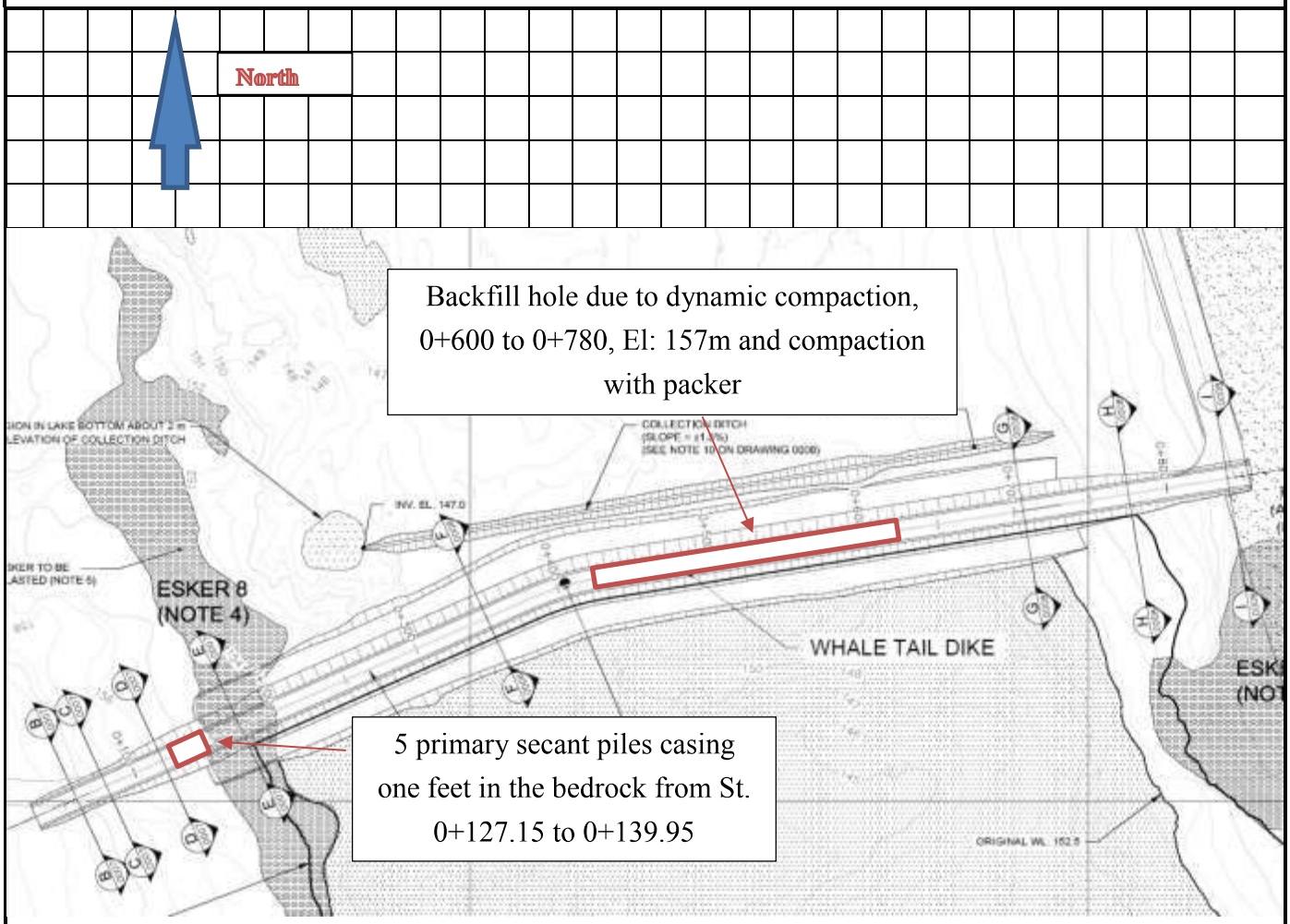
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-09-05 night shift	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-06 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

2˚C

Field Results

- Dynamic compaction on going. Phase 1-2 from 0+780 to 0+830. Phase 3-4 from 0+600 to 0+760.
- HRDI is building the permadome on the batch plan.
- Gradation for the gabillons wall (project in meadowbank) on going.
-
-
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Melina Guay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

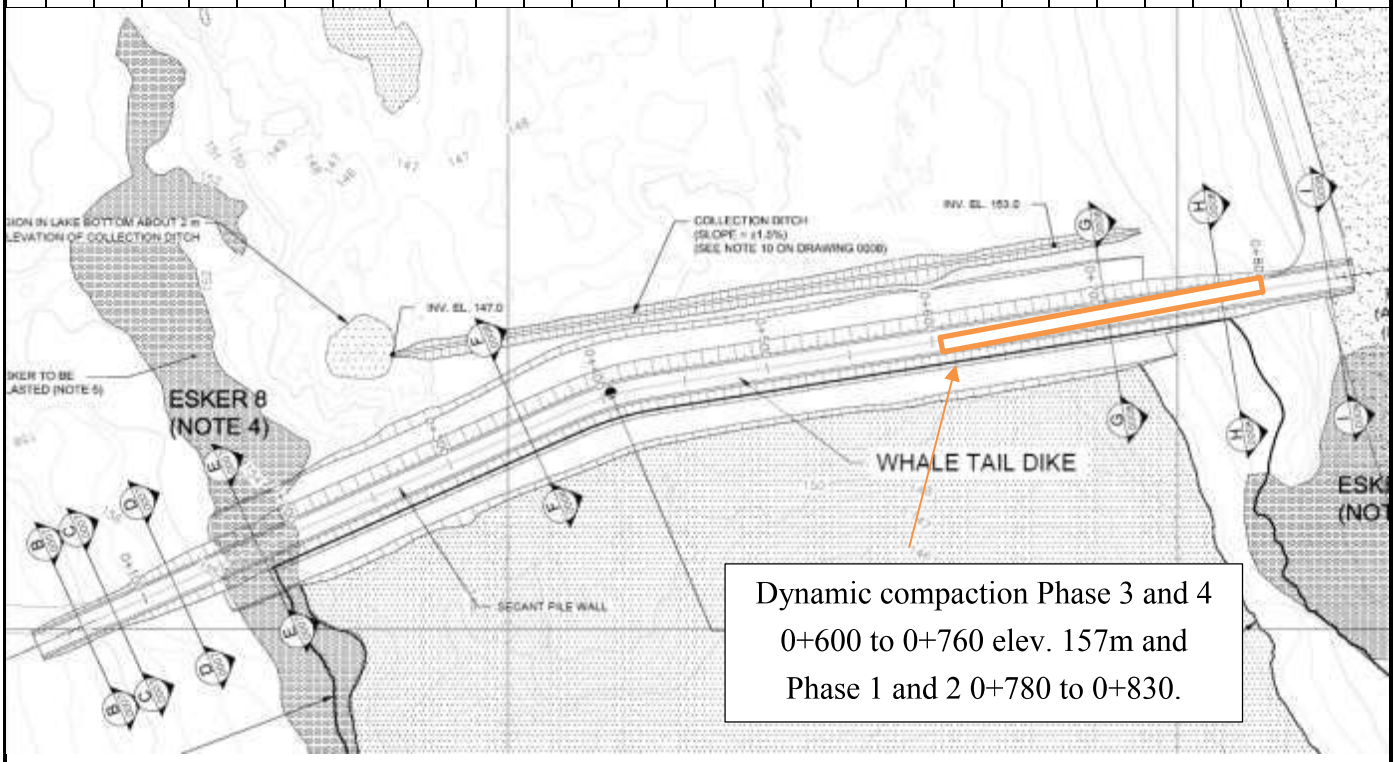
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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-09-06 day shift	

North



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-06 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☒ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

0 ˚C

Field Results

- Backfill the hole in the Fine Filter created by Dynamic compaction phase 1-2 between stations 0+780 to 0+830, El: 157m.
- HDRI drilled 12 primary secant piles one meter in the bedrock and cleaned the bedrock socket between St. 0+095.15 and 0+098.35 and between 0+111.15 and 0+139.95. (0009 / 0013 / 0029 / 0033 / 0037 / 0041 / 0045 / 0049 / 0053 / 0057 / 0061 / 0065)
- Compaction 0+610 to 0+760 with packer on the middle of the crest
- Took sample of Fine filter. # FF-AMQ-101, st: 0+725, el: 157m
- Make the calibration on Marsh Funnel Viscosity and Mub Balance Density.
- Gradation FF-AMQ-100 and 101 on going.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

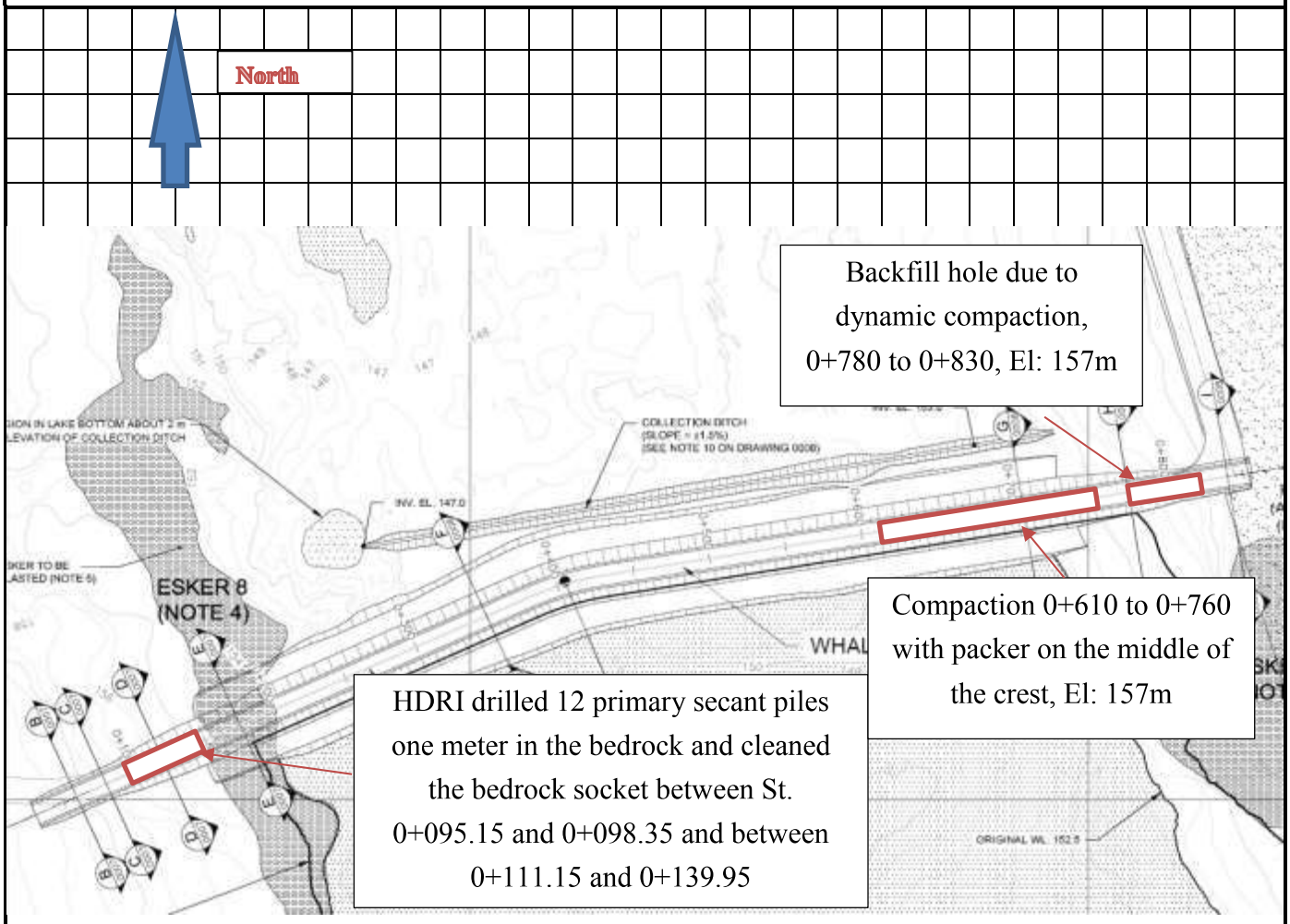
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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-09-06 night shift	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-07 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-2˚C

Field Results

- Dynamic compaction on going. Phase 3-4 between 0+770 and 0+830. Dynamic compaction is finish! Foundation approval done for all the dynamic compaction done by SNC
- HRDI is building the permadome on the batch plan.
- Gradation for the gabillons wall (project in meadowbank) on going.
- Demobilization of Menard on going.
-
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

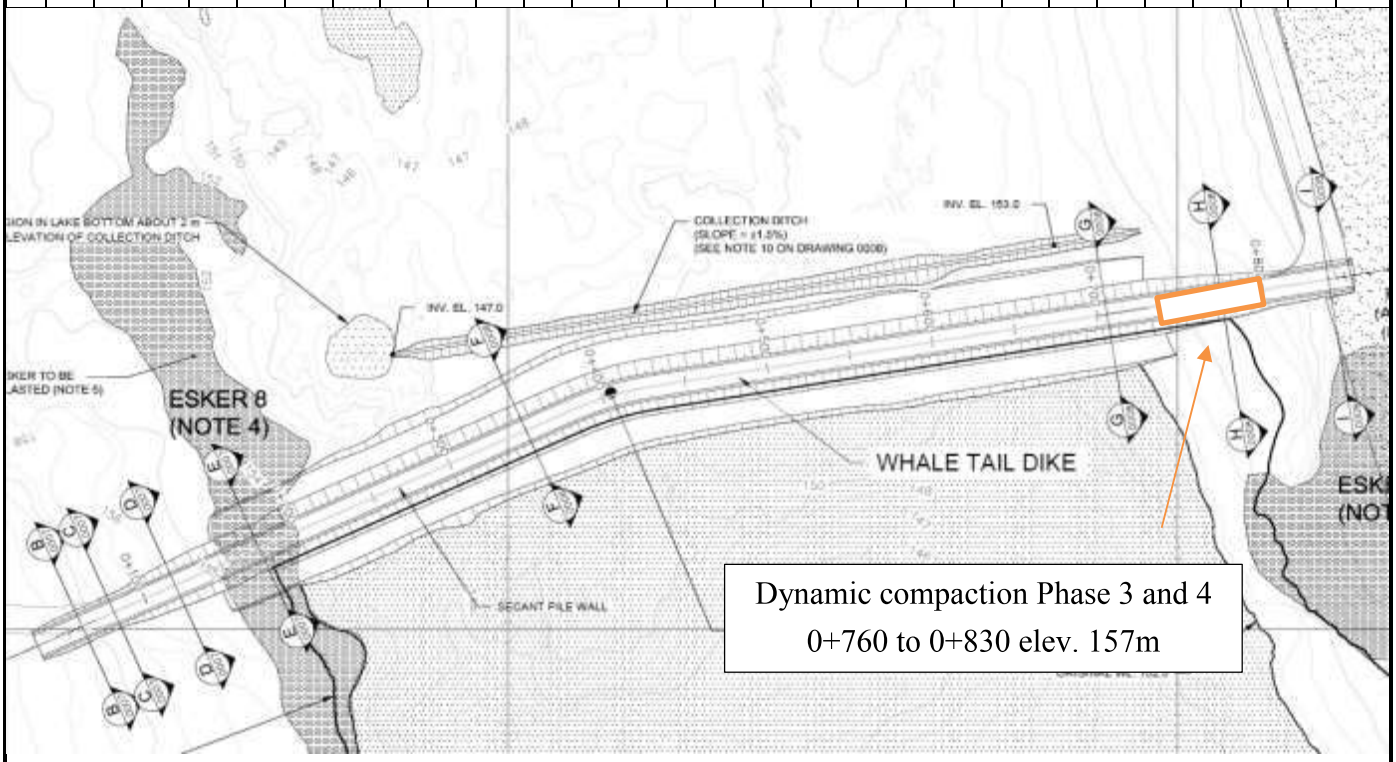
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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-09-07 day shift	

North



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-07 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

5 ˚C

Field Results

- Preparation of sample tubing and preparation of the moisture room in the lab.
- Make the calibration of the big proctor tools.
- Gradation FF-AMQ-101.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-08 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

0˚C

Field Results

- HRDI have more issues with the setting of the batch plan. No CB done
- Too much wind to move the permadome on the batch plan
- Gradation and proctor for the gabillons wall (project in meadowbank) on going.
- Demobilization of Menard on going.
- Mesurement of the bedrock and the water level in the secant pile #009-0013-0017-0021-0025
- #009 need to be drill again 0.2m offset.
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Melina Guay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

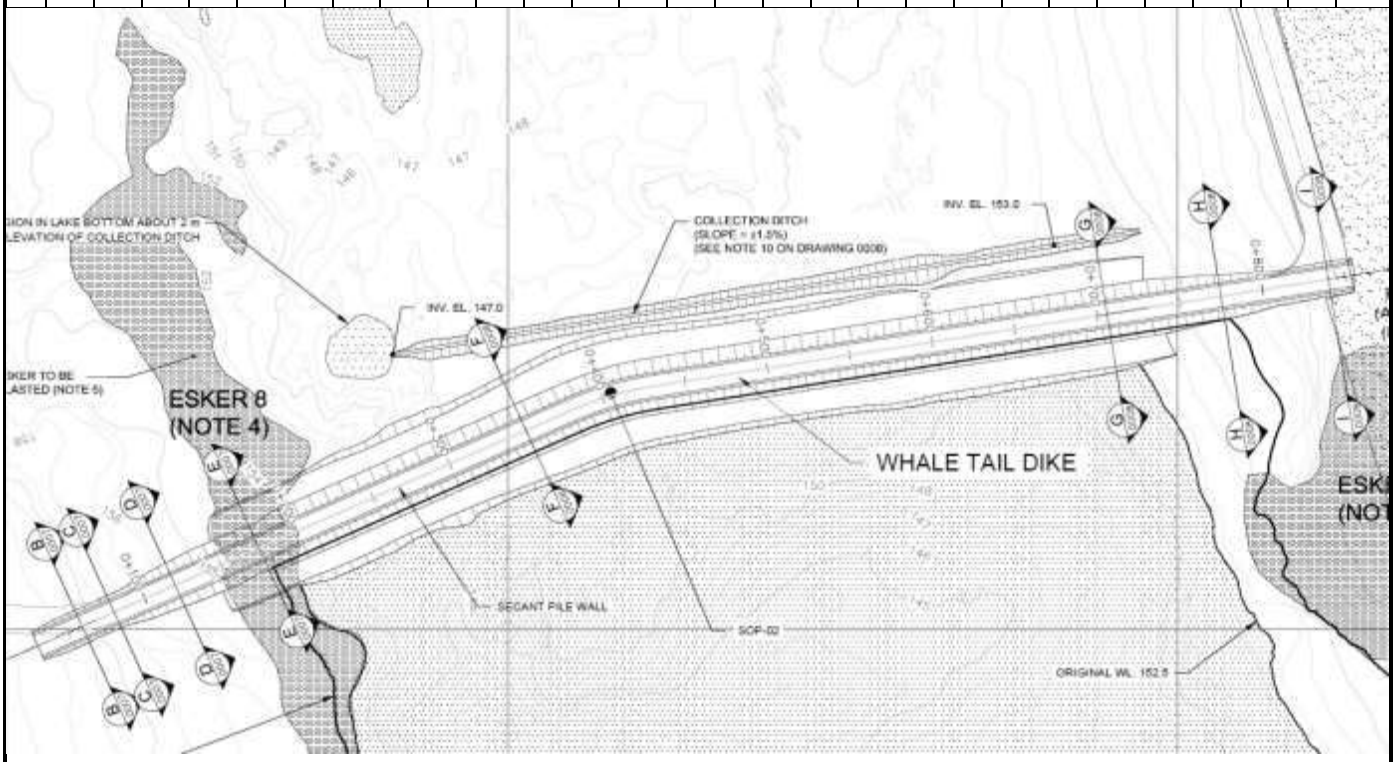
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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-09-08 day shift	

North



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-08 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

0 ˚C

Field Results

- HDRI drilled again 6 primary secant piles one meter in the bedrock and cleaned the bedrock socket between (0009 / 0021 / 0025 / 0029 / 0033 / 0037)

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

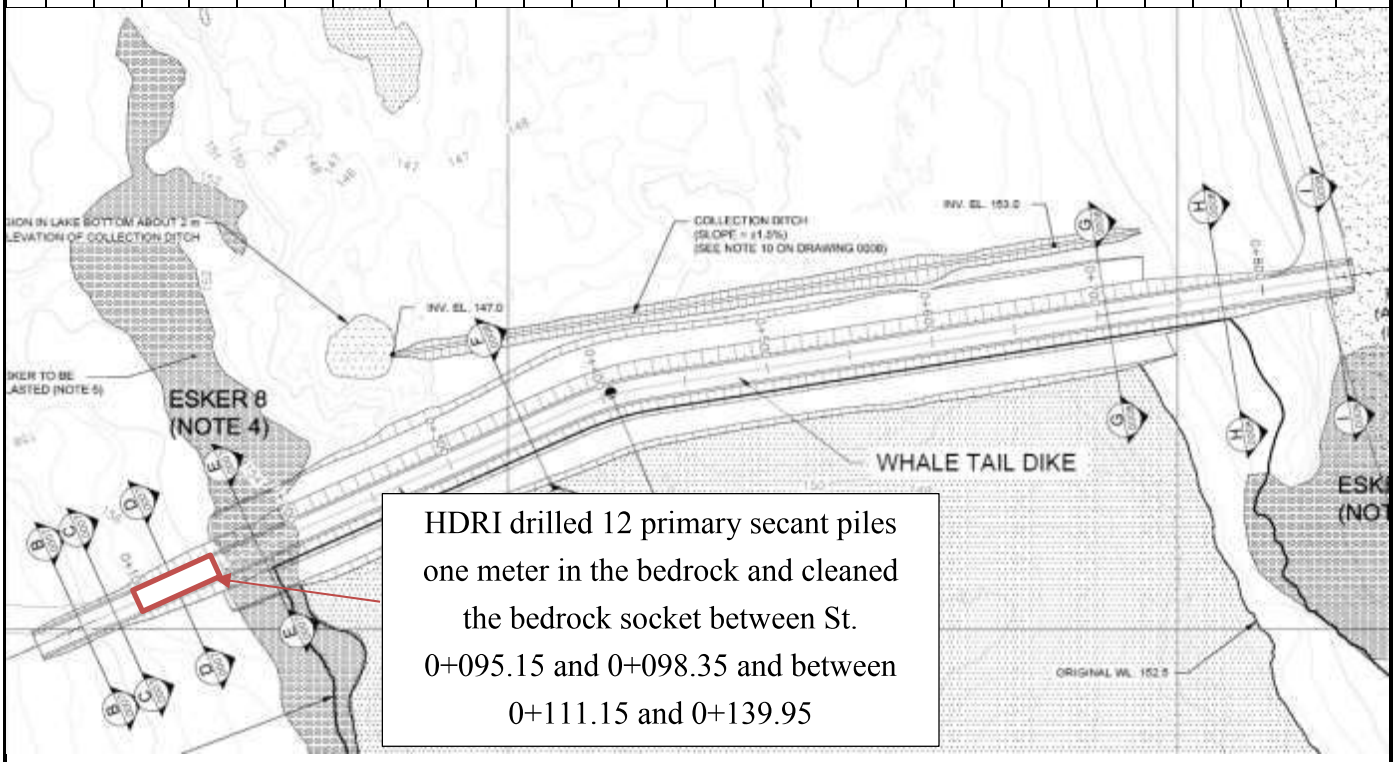
Time on site : 12h

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AGNICO EAGLE

Daily Field Report

Client: AEM	Project no.: 11130315-B1
Project: Whale Tail Dike	Page 1 of 1
Inspection date: 2018-09-08 night shift	



Prepared by: _____ Verified by: _____

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-09 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

0˚C

Field Results

- Sana and HRDI is moving the permadome on the batch plan.
- HRDI is fixing some bugs in the batch plan system.
- Inventory of the Bentonite, cement, and additives seacans with QC from sana.
- HRDI did some Tryout batches to see if the batch plan is working well, any controls was require from Agnico or SNC.
- HRDI trash out the batch in the attenuation pound.
-
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Melina Guay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-09 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



0 ˚C

Field Results

- Coarse sand has been sampled and sieved for the Pinhole test and the permeability of the sand has been tested in the mold.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

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Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-10 day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Rockfill Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

4 ˚C

Field Results

- HDRI did 2 batches (1-2) of bentonite cement. Test of viscosity, temperature, density has been made on the batches for the Hydrated Bentonite and the Cement Bentonite (CB Mix).
- 2 Samples of 12 cylinders has been made (CB-001 on batch 1 and CB-002 on batches 2)
- The two batches has been injected in the slurry wall in the abutment west.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Amadou Diallo / Maxime Coté
(Print Name)

From : AEM

Signature* : Amadou Oury Diallo / Maxime Coté

Project Manager : Daniel Pedneault

Time on site : 12h

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Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-10 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Material Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



0 ˚C

Field Results

- HDRI did 5 batches (Batch 3-4-5-6-7) of bentonite cement. Test of viscosity, temperature, density has been made on each batches for the Hydrated Bentonite and the Cement Bentonite.
- 3 Bleeding tests has been made on the Sample 4 taken on Batches 6.
- 2 Samples of 12 cylinder has been made (CB-0003 on batch 4 and CB-0004 on batch 6)
- Bentonite mixer has problem at 11h30, the batch 6 was accepted and put in the slurry wall but the batch 7 has been rejected. HDRI operator was not able to fix it so they stop batching.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

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Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-11 day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	☐ Other (specify):
Project Nº : 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	0 ˚C

Field Results

- Failure with the batch plan, still in reparation.
- No drilling operation for today. The casing # 9 and 13 need to be drilled down again (0.15m and 0.24m more).
- The slurry wall has been measured by the surveyor, it is grouted from the stations 0+077 to 0+092 and has an average elevation of 156.50m.
- Due to the batch plan failure, the grout operation cannot keep going on, so the grout is gripping and the bleeding water is freezing. QA team knows this technical issue.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Amadou Diallo / Maxime Coté
(Print Name)

From : AEM

Signature* : Amadou Oury Diallo / Maxime Coté

Project Manager : Daniel Pedneault

Time on site : 12h

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-11 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



0 ˚C

Field Results

- HDRI worked in the batch plan all the night.
- HDRI drilled again the bedrock sockets of the secant piles 9 and 13.
- Torvane shear test on the sample CB-WTD-004 has been made in the lab.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Daniel Roy/D-J Coulombe

From : AEM

Signature* : (Print Name)

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-12 day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

2 ˚C

Field Results

- The batch plan is still not working, HDRI has been trying to fix.
- Torvane shear test on samples CB-WTD-001 to 004 has been made in the lab.
- Drilling operations haven't been done.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Amadou Diallo / Maxime Côté
(Print Name)

From : AEM

Signature* : Amadou Oury Diallo / Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

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Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-12 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-3 ˚C

Field Results

- HDRI worked in the batch plan all the night.
- Torvane shear test on samples CB-WTD-001 to 004 has been made in the lab.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Daniel Roy/D-J Coulombe

From : AEM

Signature* : (Print Name)

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-13-D
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	☒ Other (specify): Field Vane Test
Project Nº : 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	-1 ˚C

Field Results

- Field Vane test has been done on the CB Mix of the slurry wall. 4 tests have been done at each specific location of the 4 first secant piles. The results for depths between 0.16m to 0.20m from the top of the slurry in place (156.50m) varies between 90 KPa to 117.5 KPa.
- HDRI, AEM and Sana found a plan “B” to keep going on with the CB Mix batching work. They will mix the slurry with a ready mix truck by using the right quantity of ciment and use water with the bentonite and the additive already hydrated.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

AGNICO EAGLE

Daily Field Report

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-13 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-3 ˚C

Field Results

- HDRI worked in the batch plan all the night.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Daniel Roy/D-J Coulombe

From : AEM

Signature* : (Print Name)

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-14-D
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Field Vane Test

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF




2˚C

Field Results

- Field Vane test has been done on the CB Mix of the slurry wall from station 0 + 082.2 to station 0 + 090.75. Seven (7) tests have been done at specific locations of the secant piles. The results for depths between 0.16m to 0.24m from the top of the slurry in place (156.50m) varies between105.0 KPa to 147.5 KPa.
- There is no CB Mix batching work.
- Excavation of the North East Dike has been made until the permafrost from station 0+460 to 0+367.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Maxime Côté / Amadou Diallo
(Print Name)

From : AEM

Signature* : Maxime Côté / Amadou Diallo

Project Manager : Daniel Pedneault

Time on site : 12h

AGNICO EAGLE

Daily Field Report

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-14 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-3 ˚C

Field Results

- HDRI worked in the batch plan all the night.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Daniel Roy/D-J Coulombe

From : AEM

Signature* : (Print Name)

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-15-D
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☒ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike & North-East Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

2˚C

Field Results

- HDRI still fixing the batch plan. No grout again for today.
- No drilling operations as well
- A trial Pin-Hole test has been done on the sample # CB-WTD-002 (5 days old in a warm cure condition). The test had some bias but it does not affect the conclusion. The results shows that the CB Mix from the precedent sample is a non-dispersive mixture has required.

- Dewatering the ground foundation with pumps on North East Dike.
- Excavating a road access for the North East Dike.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Maxime Côté / Amadou Diallo
(Print Name)

From : AEM

Signature* : Maxime Côté / Amadou Diallo

Project Manager : Daniel Pedneault

Time on site : 12h

AGNICO EAGLE

Daily Field Report

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-15 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



-3 ˚C

Field Results

- HFRI tried to batch, but got some issues with the hydrated bentonite mixer.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Daniel Roy/D-J Coulombe

From : AEM

Signature* : (Print Name)

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-16-D
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Rockfill Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☒ Other (specify): Laboratory
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training	-1˚C
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	

Field Results

- Re-begin of the CB grouting operations. HFRI is now batching without the ARBO due to the problems they had during the last batches with it.
- In total, 6 batches (#0001 to 0006) had been done and put into 7 primaries S.P. (#45, 49, 53, 57, 61 & 65).
- Two samples had been taken. # CB-WTD-005 (batch # 0001), a bleeding test had been done with that one and two molds had been put in cold curing condition (2.5°C). # CB-WTD-006 had been taken in the batch # 0003.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Maxime Côté / Amadou Diallo
(Print Name)

From : AEM

Signature* : Maxime Côté / Amadou Diallo

Project Manager : Daniel Pedneault

Time on site : 12h

AGNICO EAGLE

Daily Field Report

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-16 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



-3 ˚C

Field Results

- HFRI drilled 6 secant piles casing 1 foot under the bedrock (SP#85-89-93-97-101-105)
- HFRI injected 7 primary secant piles from to bottom socket until elevation 157. (#49-45-41-37-33-29-25)
- HFRI did 8 batches in the night (Batch 6 to 11), the generator of the water pump stopped 2 hours in the night so the batch plan stopped his activities.
- 2 samples has been made on the batches 8 and 11 at 23h30 and 4h07 respectively.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Daniel Roy/D-J Coulombe

From : AEM

Signature* : (Print Name)

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-17-D
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Rockfill Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☒ Other (specify): Laboratory
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training	0˚C
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	

Field Results

- 5 Batches of C.B had been produced (# 0014 to 0019) and been place into the primary S.P # 9, 13 & inside the slurry trench.
- The sample # CB-WTD-009 have been taken in the batch #0014, a bleeding test has been done and two molds has been put in cold curing condition. The Sample # CB-WTD-010 had been put in the batch # 0017.
- The casings # 69 to 97 (primaries) had been anchor in the bed rock.
- The casing rock socket # 69 to 89 (primaries) had been drilled and measured.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Maxime Côté / Amadou Diallo (Print Name)

From : AEM

Signature* : Maxime Côté / Amadou Diallo

Project Manager : Daniel Pedneault

Time on site : 12h

AGNICO EAGLE

Daily Field Report

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-17 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



-3 ˚C

Field Results

- HFRI drilled 1 secant piles casing 1 foot under the bedrock (SP#129)
- HFRI injected 5 primary secant piles from to bottom socket until elevation 157. (#69-73-77-81-85)
- HFRI did 8 batches in the night (Batch 6 to 11), the generator of the water pump stopped 2 hours in the night so the batch plan stopped his activities.
- 2 samples has been made on the batches 20 and 21 at 22h36 and 1h55 respectively.
- HFRI hammered into 6 secant piles casing 1 meter under the bedrock (SP#85-89-93-97-101-105).

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Daniel Roy/D-J Coulombe

From : AEM

Signature* : (Print Name)

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-18-D
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF




-5˚C

Field Results

- 3 Batches of C.B had been produced (# 0026 to 0028) and been place into the primary S.P # 97 to 101. The batched # 0028 had been rejected after the gen-set of the PAT brake. So the S.P #101 is not completely fill and it will need to be drilled again to avoid a cold join.
- The sample # CB-WTD-013 have been taken in the batch #0026, a bleeding test has been done.
- The rock sockets of the primary S.P # 101 to 121 had been measured.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Maxime Côté / Amadou Diallo
(Print Name)

From : AEM

Signature* : Maxime Côté / Amadou Diallo

Project Manager : Daniel Pedneault

Time on site : 12h

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-18 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training

I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



-5 ˚C

Field Results

- HFRI hammered into 5 secant piles 1 meter under the bedrock (SP#117-121-125-129).
- No activity at the batch plan.
- HFRI drilled 4 secant piles casing until the bedrock (SP#133-137-141-145)

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Daniel Roy/D-J Coulombe

From : AEM

Signature* : (Print Name)

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-19-D
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory & Shear Vane

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF




-5˚C

Field Results

- HFDI are working on their new procedure to bring the CB mix on the dike. They are putting a pipe that start from the batch plan until the west side of the dike (> 800m).
- Casing anchoring of the secondary S.P # 11, 15 & 19.
- Field Vane test had been done. S.P # 21 (2 days old), sheared at >160 Kpa at a depth of 0,5m. S.P #89 (3 days old) sheared at >160 Kpa at 0,5m / 1,0m & 1,5m of depth. S.P #97 (1 day old) sheared at >160 Kpa at a depth of 0,5m.
- A thermometer had been put on the top of the precedent S.P. The results are 18.7°C (s.p #21), 24.7°C (s.p #89) & 25.4°C (s.p # 97).
- The Pin Hole Test #1 had been done on a cold cured mold of the sample # CB-WTD-005 (3 days old). In conclusion, the collected water after the test was perfectly clear and the CB mix of that sample in non-dispersive (ND1).

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté / Amadou Diallo
(Print Name)

From : AEM

Signature* : Maxime Côté / Amadou Diallo

Project Manager : Daniel Pedneault

Time on site : 12h

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-19 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-5 ˚C

Field Results

- HFRI hammered into 4 primary secant piles 1 meter under the bedrock (SP#133-137-141-145).
- HFRI hammered into 3 secondary secant piles 1 meter under the bedrock (SP#11-15-19).
- No activity at the batch plan.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Daniel Roy/D-J Coulombe

From : AEM

Signature* : (Print Name)

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-20-D
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Rockfill Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☒ Other (specify): Laboratory
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training	-1˚C
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	

Field Results

- HRDI are working on their new procedure to bring the CB mix on the dike. They are putting a pipe that start from the batch plan until the west side of the dike (> 800m).
- Sampling of bentonite to try to create a mix of hydrated bentonite with a similar viscosity of the CB mix.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté / Marc-Olivier Bernard (Print Name)

From : AEM

Signature* : Maxime Côté / MOB

Project Manager : Daniel Pedneault

Time on site : 12h

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-20 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-5 ˚C

Field Results

- Test in laboratory and at the batch plan.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : D-J Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-21-D
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	☒ Other (specify): Laboratory
Project Nº : 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	-1˚C

Field Results

- HRDI are working on their new procedure to bring the CB mix on the dike.
- We got the UCS press. We set it up and did some tests with before to realize real ucs test.
- We did two UCS tests on the sample CB-WTD-001 cured in Warm condition at 11 days old. The results are 291Kpa & 293Kpa.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté / Marc-Olivier Bernard (Print Name)

From : AEM

Signature* : Maxime Côté / MOB

Project Manager : Daniel Pedneault

Time on site : 12h

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-21 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training

I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-5 ˚C

Field Results

- Pin-hole test and compression testing at the laboratory.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : D-J Coulombe (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-22-D
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF




-1˚C

Field Results

- HRDI are working on their new procedure to bring the CB mix on the dike.
- We did two UCS tests on the sample CB-WTD-002 cured in Warm condition at 12 days old. The results are 301Kpa & 312Kpa.
- We did two UCS tests on the sample CB-WTD-003 cured in Warm condition during 12 days. The results are 288 Kpa & 345Kpa.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté / Marc-Olivier Bernard
(Print Name)

From : AEM

Signature* : Maxime Côté / MOB

Project Manager : Daniel Pedneault

Time on site : 12h

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-22 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-7 ˚C

Field Results

- Test at the laboratory.
- No activity at the batch plan, only set-up for testing the pump tomorrow morning.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : D-J Coulombe (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-23 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Material Placement ☐ Water Management
	☐ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-7 ˚C

Field Results

- Test at the laboratory. UCS test has been done.
- Some batch has been tested at the batch plan, but all the work has been stopped at 2h30 AM because the pump blow off. The ciment bentonite spill on four people including QC Mathieu Côté and also in the floor and on the wall. Immediately went to take a shower. A sample (CB-WTD-014) has been taken but the no grout has been placed in the casing. The batch has been rejected.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : D-J Coulombe (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-24 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



0˚C

Field Results

- Crew change
- UCS compression test done on sample # CB-WTD-008
- Issues with the batch plan. No grout produce during the day.
- Putting secondary casing in the ground. #23-27-31
-
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-24 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Rockfill Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-7 ˚C

Field Results

- Casing anchoring of the secondary S.P # 23, 27 and 31.
- HFDI use a truck to bring the CB mix on the dike.
- 10 Batches of C.B had been produced (# 086, 088, 090, 092, 094, 096, 098, 0100, 0102, 0104, 0106 and 0108) and been place into the primary S.P # 101, 105, 109, 113, 117, 121 and 125.
- The sample # CB-WTD-015 have been taken in the batch #088, two molds has been put in cold curing condition. The Sample # CB-WTD-016 had been put in the batch # 0102.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-25 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-5˚C

Field Results

- UCS test done on samples #CB-WTD-009, CB-WTD-010, CB-WTD-011 at 7 days curing.
- The results shows that the compressive strength is around 400KPa for those samples.
- Secondary Casing #19, 23 and 29 have been approved.
- Primary Piles #129, 133, 137, 141 and 145 have been poor.
- Sample # CB-WTD-016 have been taken on batch #0… and poor in pile #133
- The batch plan had issues with lots of things, the finally did manually the batching to kepp going with the CB production.
- Lab results shows that everything in on target.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h +2hours (lab)

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-25 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-3 ˚C

Field Results

- 2 Batches of C.B had been produced (# 116, 118) and been place into the secondary S.P # 0019
- The sample # CB-WTD-018 have been taken in the batch #0116
- HDRI drilled 5 secondary secant piles one meter in the bedrock and cleaned the bedrock socket. (0047 / 0051 / 0055 / 0059 / 0063).
- Start to fill the secondary S.P. # 0019.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-26 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-5˚C

Field Results

- UCS test done on samples #CB-WTD-012, CB-WTD-013, at 7 days curing.
- Secondary Casing #35, 39, 43, 47, 51, 55, 59, 63, 67, 71, 75 have been approved.
- Secondary Piles #27, 31, 35, 39, 43, 47, 51, 55, 59, 63 and 67 have been poor.
- Sample # CB-WTD-019 have been taken on batch #024-026 and poor in pile # 39 and sample #CB-WTD-020, from batch 036-038 poor in pile #71
- Batch plan tests results shows that everything in on target.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-26 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-8 ˚C

Field Results

- Secondary Casing # 79, 83, 87, 91, 95 and 99 have been approved.
- Secondary Piles # 71, 75, 79, 83, and 87 have been poor.
- Secondary Piles # 99, 103, 107, 111 and Primary Piles # 149 and 153 have been anchor.
- Sample # CB-WTD-021 have been taken on batch #0144-0146 and poor in pile # 79 & 83.
- Sample # CB-WTD-022 have been taken on batch #0152 and poor in Secondary Pile # 91.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-27 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-8˚C

Field Results

- UCS test done on samples #CB-WTD-014, at 4 days curing, to see if Henry drilling can drill in the slurry trench. Results show a compressive strength of more than 300 Kpa.
- Secondary Casing #103, 107, 111, have been approved.
- Secondary Piles #91 (finishing), 99, 103, 107, 111(not complete) have been poor.
- Sample # CB-WTD-023 have been taken on batch #148-150 and poor in pile # 103
- Batch plan tests results shows that everything in on target.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-27 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-4 ˚C

Field Results

- Casing # 115, 119, 123, 149, 153, 157 and 127 have been approved.
- Piles # 115, 119, 123, 127,137, 141, 145 and 153 have been poor.
- Piles # 149, 153, 157, 189, 193, 197, 201, 205 and 209 have been anchor.
- Sample # CB-WTD-024 have been taken on batch #204-206 and poor in pile # 141.
- Sample # CB-WTD-025 have been taken on batch #210-212 and poor in Secondary Pile # 197-201.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-28 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



-3˚C

Field Results

- Maintenance day, and crew change for Henry drilling. No grout production or secant piles drilling.
- Pine hole test done on sample #CB-WTD-015
- Vain test on field done on SP#145 results shows a variation of 65 Kpa at 6" depth. Cannot go deeper without a drill or something stronger than my self.
-
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay

(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-28 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-4 ˚C

Field Results

- Secondary Casing # 131 and Primary Casing # 189, 193, 197, 201 have been approved.
- Secondary Piles # 115, 119, 123, 127 and Primary Piles # 149, 157, 153, 189, 193 and 197 have been poor.
- Primary Piles # 165, 169 and 131 have been anchor.
- Sample # CB-WTD-026 have been taken on batch # 202 and poor in pile # 153 - 189.
- Pine hole test done on sample #CB-WTD-019.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-29 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-3˚C

Field Results

- Anchoring casing #205, 209, 213, 217, 221, 225, 229,
- Drilling casing # 169, 173,
- Grouting casing # 131
- Henry drilling had some problem with the new guy in the batch plan, we never used that machine so he have to learn how it's working.
- Sample #CB-WTD-026, batch #214, pile #131

Need to redrill casing #131 grouting not finish and the CB got cure in the casing.

Casing 205 need to be re-verify verticality is not good

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-29 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Rockfill Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-8 ˚C

Field Results

- Primary Casing # 169, 173, 209, 213, 217, 221, 225, 229 and 233 have been approved.
- Secondary Piles # 131 and Primary Piles # 173, 169, 225, 229 and 233 have been poor.
- Primary Piles # 233, 245, 241, 185 and 181 have been anchor.
- Sample # CB-WTD-027 have been taken on batch # 222 and poor in pile # 169.
- Sample # CB-WTD-028 have been taken on batch # 234 and poor in pile # 229-233.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-30 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-3°C

Field Results

- Anchoring casing #253, 249, 245, 102, 100, 5 and 1
- Drilling casing # 161, 165, 177, 181, 185, 205, 209, 245
- Grouting casing # 221, 217, 213, 209, 205, 185,
- We saw that the CB coming out of the casing is too fluid. We took a sample to measure the density and it is below 1.2. So we figure out that the pump pressure was too high and the cb is mixing with the water in the casing. Casing 205 and 209 need to be refill until the density of the cb is 1.2.
- Sample #CB-WTD-029, batch #242-244, pile #213-217
- Casing #100 and 102 from tertiary pile have been anchor. UCS testing from 2 days hold shows a results of 336 Kpa.
- The pump on the vacuum truck had a broken seal during filling up the pile #185. They had to change pump during the filling process.
- At the batch plan, the screw in the cement silo broke, but the mechanic figure out how to repair, no lack of production this time.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon
Inspector : Melina Guay (Print Name)
From : AEM
Signature* : Melina Guay
Project Manager : Daniel Pedneault
Time on site : 12h

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-09-30 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Rockfill Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-6 ˚C

Field Results

- Approving casing # 1, 5, 20, 24, 28, 32, 96, 100, 237 and 241.
- Grouting casing # 161, 177, 181, 245 and 233.
- Anchoring casing # 20, 24, 28, 32 and 36.
- Sample # CB-WTD-030 have been taken on batch # 260 and poor in pile # 245.
- Sample # CB-WTD-031 have been taken on batch # 282 and poor in pile # 161-165.
- We saw that the CB coming out of the casing #245 is too thick. We took a sample CB-WTD-030 on it.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-01 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-10˚C

Field Results

- Crew change for us. Only one QC on the site, so QA did all the approval for measuring casing. QC was at the batch plan for the day.
- At 3:30 p.m. the pump for the PAT broke
- UCS test on 2 days samples # CB-WTD-023 (2x) and 7 days #CB-WTD-014 (2x) and CB-WTD-015 (1x). Results shows 141Kpa (CB-WTD-023) and around 300kpa (CB-WTD-014 and 015)
- Every tests in the batch plan was good.
-
-
-
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-01 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-7 ˚C

Field Results

- Approving casing # 32, 36, 60, 68, 72, 76,
- Grouting casing # 8, 36, 48, 44, 52, 56, 60, 68, 72, 76, 88, 92, 96 and 100.
- Anchoring casing # 36, 8, 80, 84, 116, 120 and 124.
- Sample # CB-WTD-034 have been taken on batch # 320 and poor in pile # 96-100-68.
- Vain test on field done on SP# 217 and 161.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-01 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-10˚C

Field Results

- Approved piles: #12-16-64-80-84-104-108-112-120-124
- Pouring piles: #64-84-108-120-124
- Piles #104, we found some till and lake bed when the auger hit the elevation of the roc. So the bottom of the casing will be lower than supposed.
- Sampling CB-WTD-035 at 4:00 p.m. taken in pile #124 on site.
- UCS tests don on sample #CB-WTD-024 at 4 days curing gave 369 Kpa
-
-
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-02 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Rockfill Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-10 ˚C

Field Results

- Approving casing # 22, 26, 116, 135, 139, 143, 147, 167, 257 and 265.
- Grouting casing # 12, 16, 80, 104, 108, 112, 116, 135, 139, 143, 22, 26, 265 and 257.
- Anchoring casing # 22, 26, got no time to look for the other that been anchor.
- Sample # CB-WTD-036 have been taken on batch # 364 and poor in pile # 139.
- UCS 7 days test on laboratory done on sample CB-WTD-015, 016, 017 and 018.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-03 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-10˚C

Field Results

- Approved piles: #261, 3, 30, 34, 38, 46, 54, 58, 179, 199, 195 and191
- Pouring piles: #147, 167, 3, 30, 34, 38, 46, 54, 58, 261
- Anchoring casing #3, 30, 34, 38, 183, 191, 195, 179, 50, 54, 58, 46, 171, 151, 70 and 42
- Sampling CB-WTD-037, in batch #390-392, in pile #38, 50 and 54
-
-
-
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Frédéric Bolduc

Inspector : Melina Guay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-03 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Rockfill Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-15 ˚C

Field Results

- Approving casing # 74, 70, 66, 62, 50, 42, 151, 171,175 and 183.
- Grouting casing # 261, 199, 195, 191, 179, 151, 171, 175 and 183.
- Anchoring casing # 235, 239, 243, 223 and 155.
- Sample # CB-WTD-038 have been taken on batch # 420 and poor in pile # 175-183.
- UCS 7 days test on laboratory done on sample CB-WTD-019 and 020.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Frédéric Bolduc

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-04 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-10˚C

Field Results

- Approved piles: #223, 235, 239, 243, 203, 187, 163, 86, 82, 78, 18 and 6.
- Pouring piles: #50, 42, 62, 66, 70, 74, 223, 235, 239, 243, 203 and 187.
- Anchoring casing #203, 187, 163, 82, 86, 78, 155, 6, 18, 90, 94, 253 and 249
- Sampling CB-WTD-039, in batch #390-392, in pile #38, 50 and 54
- For this batch and the next one on night shift, we will take 24 molds 12 to be break here and 12 to be break in the south to compare the results at 28 days curing (SNC demands)
- FGL moved the CB pound on the north side of the dike. (environment ask for it)
- UCS test on CB-WTD-031, at 3 days curing, the results shows a compressive strength of 169 Kpa.
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Frédéric Bolduc

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-04 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Rockfill Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-12 ˚C

Field Results

- Approving casing # 90, 94, 155, 253, 249, 231 and 227.
- Grouting casing # 187, 163, 155, 86, 82, 78, 6 and 18.
- Anchoring casing # 211, 215, 219, 231, 219, 227, 211, 207, 102 and 106.
- Sample # CB-WTD-040 have been taken on batch # 464 and poor in pile # 155-86 (toping # 203-235-239 and 243).
- The grout production stop at 2h00 AM because the stock of cement was empty.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Frédéric Bolduc

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-05 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-10˚C

Field Results

- Approved piles: # 98, 102, 106, 126, 207, 211, 273 and 277.
- Pouring piles: # 90, 94, 98 and 277.
- Anchoring casing #126, 98, 106, 102, 277 and 272.
- Sampling CB-WTD-041, in batch #482- 484, in pile # 277.
- For this batch, we took 24 molds 12 to be break here and 12 to be break in the south to compare the results at 28 days curing (SNC demands)
- The sea cans that contain cement arrived on site around 9h30. The batch plant start around 10h30. First batch come out at 12:30
- UCS tests done in the laboratory on sample #CB-WTD-019, CB-WTD-021, CB-WTD-022, CB-WTD-023, CB-WTD-36.
- FGL and HFDI is doing a test in two piles (#277-273). One with the same method that we use normally with the rock hammer (#277) and the other one with the core barrel. We want to see if there is a difference between the two methods. And if we will have less loss of CB in the pile with the core barrel. To be continued in the night shift.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Frédéric Bolduc

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-05 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Rockfill Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training

I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-12 ˚C

Field Results

- Approving casing # 2, 10, 14, 110, 122 and 130.
- Grouting casing # 273, 253 and 249.
- Anchoring casing # 110, 144, 148,
- Pine hole test is done on sample #CB-WTD-029.
- UCS tests on going in the laboratory.
- The pump in the batch plan break and the cement reach set time in all the pipe and the tank at 22h00 PM. So, no more production for the rest of the night shift.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Frédéric Bolduc

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client	Agnico Eagle
Site	Amaruq
Project	Whale Tail Dike
Project Nº :	11130315-B1

Inspection Date 2018-10-06 Day shift

- ☐ Drill and Blast
- ☐ Foundation Prep.
- ☒ Material Placement
- ☒ Sampling
- ☐ Compaction
- ☒ Secant Wall
- ☐ Expertise
- ☐ Vibration Monitoring
- ☐ Water Management
- ☐ Grout curtain
- ☐ Liner / Geotextile
- ☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-10˚C

Field Results

- Approved piles: #110, 122 and 130.
- Pouring piles: #2, 10, 14, 231 and 227.
- Anchoring casing #144, 148, 7 and 4.
- Sampling CB-WTD-042, in batch #498-500, in pile # 231 and 227.
- HFDI had issues with the batch plant, the pump and the valves. The first grout batch arrived at 14h30 on site.
- Lots of UCS test have been done in the laboratory.
- Pile #18 need to be cleaned up and a little bit redrill to be top up. Lots of snow on it and the top is frozen.
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Frédéric Bolduc

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-06 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Rockfill Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-20 ˚C

Field Results

- Approving casing # 4 and 7.
- Grouting casing # 219, 211, 207, 4, 7, 106, (toping : 273, 277, 2, 10, 14, 18)
- Anchoring casing # 269, 281, 285 and 289,.
- The batch number 506-508 was rejected because the density it's look like the hydrated bentonite (1.03).

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Frédéric Bolduc

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-07 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-20˚C

Field Results

- Approved piles: #114, 118, 134, 138, 144, 148, 281, 285, 289, 297 and 269, .
- Pouring piles: #122, 126, 130, 289, 285, 269, 118, 114 and144.
- Anchoring casing #118, 114, 134, 138, 159.
- Sampling CB-WTD-044, in batch #542-544, in pile # 118-114.
- In pile #144 and 148 SNC and HFDI is doing another test with the two methods (roc hammer and the core barrel) to see if we will lose lots of CB again in those tertiaries.
-
-
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Olivier Jacques

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-07 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Rockfill Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-15 ˚C

Field Results

- Approving casing # 293, 301, 305.
- Grouting casing # 138, 134, 148, 297, 293, 301,
- Anchoring casing # 313, 159,.
- The casing of pile #122 is pull up to late. The grout was too thick and they have to drill it again. The casing need to be approved a second time by QA/QC.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Frédéric Bolduc

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-08 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-15 ˚C

Field Results

- Approving casing # 136, 152, 156
- Grouting casing # 267, 263, 128, 132, 136, 152, 156
- Anchoring casing #
- Made Sample CB-WTD-047 at 1h40 on batch 602

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Frédéric Bolduc

Inspector : Daniel Roy/D-J Coulombe (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-09 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	☒ Other (specify): Laboratory
Project Nº : 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	-5˚C

Field Results

- Approved piles: #140, 215, 255, 271, 317, 325 & 353.
- Pouring piles: #140, 152, 215, 255, 271, 309, 313 & 321
- Anchoring casing #140,162, 166, 215, 255, 271, 317, 325 & 353.
- Sampling CB-WTD-048, in batch #624-626, in pile # 215 & 255.
- Measurement of the thermocouples inside of the pile # 142. At 2.02m = 58°C, at 4.18m = 55°C, at 6.34m = 47°C & at 8.5m = 50°C. Time of the readings, 14h30.
-
-
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Olivier Jacques

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-09 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Rockfill Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-15 ˚C

Field Results

- Approving casing # 162, 166, 182, 190, 190, 279, 283
- Grouting casing #271, 317, 325, 353, 190, 194, 182,166, 162
- Anchoring casing # 259, 263, 267, 198, 202, 206

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Daniel Roy/D-J Coulombe (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client Agnico Eagle	Inspection Date 2018-10-10	
Site Amaruq	☐ **Drill and Blast**	☐ **Expertise**
Project Whale Tail Dike	☐ **Foundation Prep.**	☐ **Vibration Monitoring**
	☐ **Rockfill Placement**	☐ **Water Management**
	☒ **Sampling**	☐ **Grout curtain**
	☐ **Compaction**	☐ **Liner / Geotextile**
	☒ **Secant Wall**	
Project Nº : 11130315-B1	☐ **Other (specify):**	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF		**-5 ˚C**

Field Results

- Approved Piles: #170, 178, 198, 202, 206, 329, 333, 337, 341 & 345.
- Poured Piles: # 170, 178, 198, 275, 329 & 333. (with the batches 660 to 686)
- Anchored casings: # 178, 170, 329, 333, 337, 341 & 345.
- CB added in Piles (topping): #317, 325, 353, 140, 132, 128, 162, 166, 182, 194 & 192.
- Sampled # CB-WTD-050 had been take at the batch plan (16h45) in the batches # 680-682 (Piles # 198, 329 & 333).
- In date of today, Agnico confirmed us (QA/QC) that a new sampling program is effective. Now it is 1 sample for 24 piles or as required, 1 permeability for 89 piles or as required and 1 Pin Hole test per week or as required.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-10 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Rockfill Placement ☐ Water Management
	☒ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-15 ˚C

Field Results

- Approving casing # 259, 251, 174, 146, 154
- Grouting casing #333, 337, 341, 345, 251, 206, 202, 174, 154
- Anchoring casing # 291, 349, 361, 357, 287
- 2 UCS tests made on CB-WTD-037 in the laboratory after 2 days of cure.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Daniel Roy/D-J Coulombe (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date 2018-10-11
Site	Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project	Whale Tail Dike	☒ Other (specify): **Laboratory**
Project Nº :	11130315-B1	

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



-5 ˚C

Field Results

- Approved Piles: # 150, 180, 186, 287, 291 & 357.
- Poured Piles: # 180, 186, 259, 287, 291 & 357. (with batches 718 to 744)
- Anchored casings: # 150, 180, 186 & 361.
- CB added in Piles (topping): # 206, 214, 251, 287, 291, 353, 345, 341, 337, 333 & 329.
- No sample for this shift.
- Thermocouple readings had been take in the casing # 142 at 15h00.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Maxime Côté
(Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date	2018-10-11Night
Site	Amaruq	☐ Drill and Blast ☐ Foundation Prep. ☐ Rockfill Placement ☐ Sampling ☐ Compaction ☒ Secant Wall	☐ Expertise ☐ Vibration Monitoring ☐ Water Management ☐ Grout curtain ☐ Liner / Geotextile
Project	Whale Tail Dike	☒ Other (specify):	Laboratory
Project Nº :	11130315-B1		
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF			-10 ˚C

Field Results

- Approved Piles: # 295,349,238,242,234,230,226.
- Poured Piles: #150,361,295,349,242,238. Batches # 746-748 to 770
- CB added in Piles (topping): #154,146,206,202,357,291,353,357,361185,150,.
- Sample # CB-WTD-051 has been taken. Batch # 762-764, piles # 349.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date 2018-10-12 day
Site	Amaruq	☐ **Drill and Blast** ☐ **Expertise**
Project	Whale Tail Dike	☐ **Foundation Prep.** ☐ **Vibration Monitoring**
		☐ **Rockfill Placement** ☐ **Water Management**
		☐ **Sampling** ☐ **Grout curtain**
		☐ **Compaction** ☐ **Liner / Geotextile**
		☒ **Secant Wall**
Project Nº :	11130315-B1	☒ **Other (specify):** **Laboratory**

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-10 ˚C

Field Results

- Shut down of the batch plan due to Henri Drilling crew change.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Maxime Côté
(Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date 2018-10-13 day
Site	Amaruq	☐ **Drill and Blast** ☐ **Expertise**
Project	Whale Tail Dike	☐ **Foundation Prep.** ☐ **Vibration Monitoring**
		☐ **Rockfill Placement** ☐ **Water Management**
		☐ **Sampling** ☐ **Grout curtain**
		☐ **Compaction** ☐ **Liner / Geotextile**
		☒ **Secant Wall**
Project Nº :	11130315-B1	☒ **Other (specify):** **Laboratory**
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF		**-10 ˚C**

Field Results

- Approved Piles: # 303, 307, 214, 168 & 172.
- Poured Piles: # 226, 247, 222, 218, 307, 303, 214 & 172. Batches # 784-786 to 810-812.
- CB added in Piles (topping): # 361, 357, 295, 287, 291, 164, 247, 242, 238, 234, 218, 222, 226, 232 & 230.
- No sample for this shift.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date	2018-10-13 Night
Site	Amaruq	☐ Drill and Blast ☐ Foundation Prep. ☐ Rockfill Placement ☐ Sampling ☐ Compaction ☒ Secant Wall	☐ Expertise ☐ Vibration Monitoring ☐ Water Management ☐ Grout curtain ☐ Liner / Geotextile
Project	Whale Tail Dike		
Project Nº :	11130315-B1	☒ Other (specify):	**Laboratory**
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF			**-10 ˚C**

Field Results

- Approved Piles: # 311,315,335,319.
- Poured Piles: # 172-168-311-315-335. Batches # 812-814 to 830-832.
- CB added in Piles (topping): # 247,303,307,214,172,168.
- Sample # CB-WTD-052 at 22h35, batch # 820-822, secant piles 311,315.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client Agnico Eagle	Inspection Date 2018-10-14 day
Site Amaruq	☐ **Drill and Blast** ☐ **Expertise** ☐ **Foundation Prep.** ☐ **Vibration Monitoring** ☐ **Rockfill Placement** ☐ **Water Management** ☐ **Sampling** ☐ **Grout curtain** ☐ **Compaction** ☐ **Liner / Geotextile** ☒ **Secant Wall**
Project Whale Tail Dike	☒ **Other (specify):** **Laboratory**
Project Nº : 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**-12 ˚C**

Field Results

- Approved Piles: # 188, 331, 343, 347, 210 & 200.
- From now, many piles have a deeper bedrock than expected. We changed the method to approve the rock socket. Now we do the approval by the real bedrock encountered, not by the theory one like it was done before.
- The Pile #192 was missing 0.17m to get a 1.0m rock socket. AEM decided to grout it.

- Poured Piles: # 319, 188, 192, 331, 343 & 347. Batches # 834-836 to 854-856.

- CB added in Piles (topping): # 311, 315, 307, 335 & 319.

- No sample for this shift.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client Agnico Eagle	Inspection Date 2018-10-14 Night
Site Amaruq	☐ **Drill and Blast** ☐ **Expertise** ☐ **Foundation Prep.** ☐ **Vibration Monitoring** ☐ **Rockfill Placement** ☐ **Water Management** ☐ **Sampling** ☐ **Grout curtain** ☐ **Compaction** ☐ **Liner / Geotextile** ☒ **Secant Wall**
Project Whale Tail Dike	☒ **Other (specify):** **Laboratory**
Project Nº : 11130315-B1	**-10 ˚C**
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	

Field Results

- Approved Piles: # 204,196,184,327,299.
- Poured Piles: #347, 343,210,204,200196,184327,299. Batches #.858-860 to 882-884
- CB added in Piles (topping): #319,315,331,335,343,204,196,347,343.
- No samples has been done for this shift.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date 2018-10-15 day
Site	Amaruq	☐ Drill and Blast ☐ Expertise
Project	Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
		☐ Rockfill Placement ☐ Water Management
		☐ Sampling ☐ Grout curtain
		☐ Compaction ☐ Liner / Geotextile
		☒ Secant Wall
Project Nº :	11130315-B1	☒ Other (specify): **Laboratory**
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training		**-15 ˚C**
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF		

Field Results

- Approved Piles: # 176, 160, 212, 216, 240, 244, 355, 351, 369 & 373.
- Poured Piles: # 299, 176, 160, 212, 216, 240, 244, 369 & 373. With batches # 886-888 to 910-912.
- CB added in Piles (topping): # 204, 200, 196, 192, 188, 184, 160, 212, 210, 299, 327 & 347.
- Sample # CB-WTD-053 taken on the batch 910-912 at 16h35. This batch is in the S.P # 369 &373.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client: Agnico Eagle	Inspection Date: 2018-10-15 Night
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	☒ Other (specify): **Laboratory**
Project Nº : 11130315-B1	**-10 ˚C**
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	

Field Results

- Approved Piles: #236,232,224,220,208,262,258.
- Poured Piles: #373,355,351,232,236,224,220,208. Batches # 918-920 to 942-944
- CB added in Piles (topping): # 244,373,369,299.
- No samples has been done for this shift.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date 2018-10-16 day
Site	Amaruq	☐ **Drill and Blast** ☐ **Expertise**
Project	Whale Tail Dike	☐ **Foundation Prep.** ☐ **Vibration Monitoring**
		☐ **Rockfill Placement** ☐ **Water Management**
		☐ **Sampling** ☐ **Grout curtain**
		☐ **Compaction** ☐ **Liner / Geotextile**
		☒ **Secant Wall**
Project Nº :	11130315-B1	☒ **Other (specify):** **Laboratory**
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training		**-15 ˚C**
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF		Cloudy and windy

Field Results

- Approved Piles: # 323, 359, 365, 377, 381, 421, 282, 266, 270.
- Poured Piles: # 258, 262, 323, 359 & 381. With batches # 946-948 to 970-972.
- CB added in Piles (topping): # 225, 232, 236, 351.
- They reached the casing that had been drop in the poured hole (Secant Pile # 355, from the last night shift). To get it, they dug the fine filter that had been put over it during the night shift until the top casing (3m). The adjacent secant pile # 359 had been uncovered on its East side. After they pulled out the casing, they backed fill the hole around the casing (#355) with fine filter compacted at every 0.3m with the bucket of an excavator (PC 450). Than they drilled down the casing to redo that secant pile.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Olivier Jacques

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

Client Agnico Eagle	Inspection Date 2018-10-16 Night
Site Amaruq	☐ **Drill and Blast** ☐ **Expertise**
Project Whale Tail Dike	☐ **Foundation Prep.** ☐ **Vibration Monitoring**
	☐ **Rockfill Placement** ☐ **Water Management**
	☐ **Sampling** ☐ **Grout curtain**
	☐ **Compaction** ☐ **Liner / Geotextile**
	☒ **Secant Wall**
Project Nº : 11130315-B1	☒ **Other (specify):** **Laboratory**
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training	**-10 ˚C**
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	

Field Results

- Approved Piles: # 228,250,288,292.
- Poured Piles: # 365, 377, Batches # 974-976 to 978.
- CB added in Piles (topping): #258, 262, 208, 220 and 377.
- No samples has been done for this shift.
- Batch plan broken at 22h00 PM until the day shift.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client Agnico Eagle	Inspection Date 2018-10-17 day
Site Amaruq	☐ **Drill and Blast** ☐ **Expertise** ☐ **Foundation Prep.** ☐ **Vibration Monitoring** ☐ **Rockfill Placement** ☐ **Water Management** ☐ **Sampling** ☐ **Grout curtain** ☐ **Compaction** ☐ **Liner / Geotextile** ☐ **Secant Wall**
Project Whale Tail Dike	
Project Nº : 11130315-B1	☒ **Other (specify):** **Laboratory**
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Cloudy and windy **-15 ˚C**

Field Results

- No production for today, the computer of the batch plan is down.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Olivier Jacques

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date	2018-10-17 Night
Site	Amaruq	☐ Drill and Blast ☐ Foundation Prep. ☐ Rockfill Placement ☐ Sampling ☐ Compaction ☒ Secant Wall	☐ Expertise ☐ Vibration Monitoring ☐ Water Management ☐ Grout curtain ☐ Liner / Geotextile
Project	Whale Tail Dike	☒ Other (specify):	Laboratory
Project Nº :	11130315-B1		
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF			-10 ˚C

Field Results

- Approved Piles: # 339,385,389,393,397.
- Poured Piles: # 381,377,365,355,359,228,250,266, Batches # 982-984 to 1002-1004.
- CB added in Piles (topping): #355.
- Sample # CB-WTD-054, Batch 994-996, piles #228.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date	2018-10-18 day
Site	Amaruq	☐ Drill and Blast ☐ Foundation Prep. ☐ Rockfill Placement ☐ Sampling ☐ Compaction ☒ Secant Wall	☐ Expertise ☐ Vibration Monitoring ☐ Water Management ☐ Grout curtain ☐ Liner / Geotextile
Project	Whale Tail Dike	☒ Other (specify):	Laboratory
Project Nº :	11130315-B1		

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

Cloudy, a lot of wind with snow

-15 ˚C

Field Results

- Rock sockets approve: # 417, 413, 246, 274, 296 & 254.
- Poured secant piles: # 270, 339, 385, 389 & 393.
- The secant pile # 393 is sinking as fast as it pour. There may have a water flow in the bed rock. More than 3 vaccum trucks had been poured in that pile and the problem is not fix yet. We decided to let it set for some hours and to try again after the pouring operation.
- Shear Vane test had been done in the pile # 381, that pile had 2 days old (pouring date 18-10-16) and had a topping of 3 meters that been added 12 hours ago before the test. The result show that from the depth 0 to 3m, the CB had no shear resistance. But for the depth 3m to 9m (only 9 meters of rods were free for the test) the shear resistance had a average of 122.4 Kpa (considering that the maximum reading of the gage is 160 Kpa and an average of rod friction of 30.5 Kpa.)
- We tried to put 4 wires of thermocouples inside of the secant pile 246, but it will be reported for the next day shift in the pile # 254.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Olivier Jacques

Inspector : Maxime Côté
(Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date	2018-10-18 Night
Site	Amaruq	☐ Drill and Blast ☐ Foundation Prep. ☐ Rockfill Placement ☐ Sampling ☐ Compaction ☒ Secant Wall	☐ Expertise ☐ Vibration Monitoring ☐ Water Management ☐ Grout curtain ☐ Liner / Geotextile
Project	Whale Tail Dike		
Project Nº :	11130315-B1	☒ Other (specify):	Laboratory
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF			**-15˚C**

Field Results

- Approved Piles: # 401,409.
- Poured Piles: # 246,296,292,397,401,409, Batches # 1034-1036 to 1058-1060.
- CB added in Piles (topping): #246,270,266,389,385,355 ad 339.
- No sample for this shift.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date 2018-10-19 day
Site	Amaruq	☐ **Drill and Blast** ☐ **Expertise**
Project	Whale Tail Dike	☐ **Foundation Prep.** ☐ **Vibration Monitoring**
		☐ **Rockfill Placement** ☐ **Water Management**
		☐ **Sampling** ☐ **Grout curtain**
		☐ **Compaction** ☐ **Liner / Geotextile**
		☒ **Secant Wall**
Project Nº :	11130315-B1	☒ **Other (specify):** **Laboratory**

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

Cloudy, a lot of wind with snow **-15 ˚C**

Field Results

- Rock sockets approve: #278, 260, 264 & 268.
- Poured secant piles: # 288, 274, 393, 421, 397, 401 & 409.
- The secant Piles # 397, 401, 409 & 421 were sinking as the SP #393. By doing a first injection, than wait for approximately 12 hours and proceed to a second injection and remove the casing right after, they've got able to fill them.
- Topping of the SP #: 296, 292 & 385.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Olivier Jacques

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

Client	Agnico Eagle	Inspection Date	2018-10-19 Night
Site	Amaruq	☐ Drill and Blast ☐ Foundation Prep. ☐ Rockfill Placement ☐ Sampling ☐ Compaction ☒ Secant Wall	☐ Expertise ☐ Vibration Monitoring ☐ Water Management ☐ Grout curtain ☐ Liner / Geotextile
Project	Whale Tail Dike	☒ Other (specify):	Laboratory
Project Nº :	11130315-B1		
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF			-15˚C

Field Results

- Approved Piles: # 302,306,363,367,371.
- Poured Piles: # 278,268,264260 Batches # 1074-1076 to 1082-1084.
- CB added in Piles (topping): # 246,278,288,397,393.
- No sample has been done for this shift.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date 2018-10-20 day
Site	Amaruq	☐ **Drill and Blast** ☐ **Expertise**
Project	Whale Tail Dike	☐ **Foundation Prep.** ☐ **Vibration Monitoring**
		☐ **Rockfill Placement** ☐ **Water Management**
		☐ **Sampling** ☐ **Grout curtain**
		☐ **Compaction** ☐ **Liner / Geotextile**
		☒ **Secant Wall**
Project Nº :	11130315-B1	☒ **Other (specify):** **Laboratory**
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF		Cloudy, a lot of wind. **-18 ˚C**

Field Results

- Rock sockets approve: #248 & 375.
- Poured secant piles: # 260, 254, 421, 417, 413, 371, 367 & 363.
- The secant Piles # 413, 417 & 421 were sinking as the SP #393. By doing a first injection, than wait for approximately 12 hours and proceed to a second injection and remove the casing right after, they've got able to fill them.
- Topping of the SP #: 409, 413, 421, 409, 401, 397, 401, 397, 393, 389 & 385.
- Installation of thermocouples in the SP # 254. Four thermocouples has been put at the elevation 150.177; 152.177; 154.177 & 156.177. They all been put as close as possible to the fine filter (downstream side) to be in the coldest area of the curing condition of the CB.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Olivier Jacques

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date	2018-10-20 Night
Site	Amaruq	☐ Drill and Blast ☐ Foundation Prep. ☐ Rockfill Placement ☐ Sampling ☐ Compaction ☒ Secant Wall	☐ Expertise ☐ Vibration Monitoring ☐ Water Management ☐ Grout curtain ☐ Liner / Geotextile
Project	Whale Tail Dike	☒ Other (specify):	Laboratory
Project Nº :	11130315-B1		
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF			**-15˚C**

Field Results

- Approved Piles: # 310 and 318.
- Poured Piles: # 375 (don't finish batch plan down at 20h00) Batches # 1118.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client Agnico Eagle	Inspection Date 2018-10-21 day
Site Amaruq	☐ **Drill and Blast** ☐ **Expertise** ☐ **Foundation Prep.** ☐ **Vibration Monitoring** ☐ **Rockfill Placement** ☐ **Water Management** ☐ **Sampling** ☐ **Grout curtain** ☐ **Compaction** ☐ **Liner / Geotextile** ☐ **Secant Wall**
Project Whale Tail Dike	
Project Nº : 11130315-B1	☒ **Other (specify):** **Laboratory**
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Cloudy, a lot of wind with snow **-10 ˚C**

Field Results

- Batch plan is broke.
- Rock socket # 379 & 383 has been approve.
- Thermocouples readings.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Olivier Jacques

Inspector : Maxime Côté (Print Name)

From : AEM

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date	2018-10-21 Night
Site	Amaruq	☐ Drill and Blast ☐ Foundation Prep. ☐ Rockfill Placement ☐ Sampling ☐ Compaction ☒ Secant Wall	☐ Expertise ☐ Vibration Monitoring ☐ Water Management ☐ Grout curtain ☐ Liner / Geotextile
Project	Whale Tail Dike	☒ Other (specify):	Laboratory
Project Nº :	11130315-B1		
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF			**-15˚C**

Field Results

- No activity at the batch plan.
- No activity on the dike
- Thermocouple monitoring on the dike (piles #254)
- UCS test in the lab.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-22 day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-12 ˚C

Field Results

- No activity at the batch plan and on the dike.
- Thermocouple monitoring on the dike (piles #254).
- UCS test in the lab.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Marc-Olivier Bernard, Jean-Philippe L.
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-22 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-12 ˚C

Field Results

- No activity at the batch plan and on the dike.
- Thermocouple monitoring on the dike (piles #254).
- UCS test in the lab.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-23 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



-20˚C

Field Results

- No batch plan working, No drilling activities
- UCS test in the laboratory
- Sampling the excavated material in the Quarry 2, two gradation in the oven, one from the north wall and one from the south wall.
-
-
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-23 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training

I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-23 ˚C

Field Results

- No activity at the batch plan due to another problem.
- Thermocouple monitoring on the dike (piles #254).
- UCS test in the lab.
- Approved Piles: # 314, 387 and 405.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-24 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☒ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



-25˚C

Field Results

- No batch plan working, No drilling activities
- UCS test in the laboratory
- Gradation from the Quarry 2 on going
- Reading from the thermocouple twice in the day. The readings shows that the temperature is diminishes but really slowly.
- HFDI did a batch of hydrated bentonite, the mud balance was good but the viscosity was too thick and the hydrated bentonite just got stuck in the pipe when they wanted to flush it.
- During the night shift the driller moved the casing just to makes sure that the casing won't get frozen in the ground. So the elevation of the top casing change, but it didn't affect the pile itself, it's still the same size and the same depth.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-24 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training

I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-25 ˚C

Field Results

- No activity at the batch plan and on the dike.
- Thermocouple monitoring on the dike (piles #254).
- UCS test in the lab and gradation on going.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-25 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF



-25˚C

Field Results

- No batch plan working, No drilling activities
- UCS test in the laboratory
- Gradation from the Quarry 2 done, the results have been send to the client.
- Sana is working on the injection plan to try to batch by hand.
- HDFI find out that a piece is broken in the lines from the batch plan, they don't know how much time it's gonna take to received the piece
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-25 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training

I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-22 ˚C

Field Results

- No activity at the batch plan and on the dike.
- Thermocouple monitoring on the dike (piles #254).
- UCS test in the lab and gradation on going.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-26 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training	-10˚C
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	70 km/h WIND and SNOW (-25 feel)

Field Results

- No batch plan working, No drilling activities
- UCS test in the laboratory
- Working on the USC excel graph results
- Sana is working on the injection unit to try to batch by hand.
- Crew change for HFDI
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-26 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-20 ˚C

Field Results

- The batch plan start again at 23h00.
- Thermocouple monitoring on the dike (piles #254).
- Pouring piles: # 248, 302, 306, 310 and 314. Sampling CB-WTD-044, in batch #542-544, in pile # 118-114.
- Anchoring casing # 256, 252 and 272.
- Sampling CB-WTD-056, in batch # 1134-1136, in pile # 248-302.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-27 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

Cloudy and snowy **-10˚C**

Field Results

- Grout plant is working !!
- Sample # CB-WTD-057 taken in batch #1168 pour in pile #375 and 367
- Approved piles # 252-256-276-284-318
- Pour piles # 332-342-318-314-375 and 379.
- Piles # 367 and 371 have been re-drill about 1m to avoid a cold joint and pour.
- Lots of toping have to be done on pile that they need to remove the snow and clean the hole.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-27 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-2 ˚C

Field Results

- Anchoring casing: # 294, 356, 395 and 399.
- Approved piles: # 294, 346, 350 and 272.
- Pouring piles: # 379, 387, 405, 363, 383, 252 and 256.
- We find a mistake with the elevation target who the surveyor give to Henri Drilling. So, the pile #395, 399 and 415 was not enough depth. Need to be drilled again.
- Thermocouple monitoring on the dike (piles #254).

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-28 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☒ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

Cloudy and snowy

-10˚C

Field Results

- Sample # CB-WTD-058 taken in batch #1238-1240 pour in pile #415 and toping some piles
- Approved piles # 395, 399, 415, 391,
- Pour piles # 346, 350, 294, 391, 395, 399, 415
- Monitoring temperature measures in the thermocouple in pile #257
- Helping sana with the new mix desing with HE cement.
- On night shift they figured out that there was a lot of mistakes with the values that's written on the flag on site. Pile #395, 399, and 415 where approved in the night shift but after lots of talking with everyone we figure that it need to be re-drill because of a mistake of the surveyor.
- UCs tests in the laboratory
- Batch plan results shows that everything is on target.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-28 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-5 ˚C

Field Results

- Approved piles: # 280, 290, 298, 304, 326, 336, 356, 360, 411, 419, 425 and 429.
- Pouring piles: # 415, 419, 425, 429, 280 and 290.
- We lost ¾ of the batch 1250 and 1252 on the floor at the batch plan.
- Sampling CB-WTD-059, in batch # 1260, in pile # 415-429.
- Thermocouple monitoring on the dike (piles #254).

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-29 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☒ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

Cloudy and snowy **-1°C**

Field Results

- Sample # CB-WTD-060 taken in batch #1302 and 1304 pour in pile #372 and 360
- Approved piles # 340, 368, 372, 433, 308, 312, 286,
- Pour piles # 298, 304, 326, 336, 356, 360, 368, 372,
- Monitoring temperature measures in the thermocouple in pile #257
- There is a lot of casing that the seal is broken, so the grout is coming out of the casing by the junction on the pieces. When it happens we just stop the grouting, let the HD worker take off the casing and come back to do a toping of 3 to 4 meters.
- Crew change today, some UCS done in the laboratory.
- Batch plan results shows that everything is on target.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-29 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-6 ˚C

Field Results

- Approved piles: # 403, 407, 461, 465, 469, 380, 316 and 320.
- Pouring piles: # 312, 308, 286, 340, 403, 407, 433, 461, 465 and 469.
- Anchoring casing not approved: # 437, 441, 445.
- Sampling CB-WTD-061, in batch # 1330, in pile # 403-407.
- Thermocouple monitoring on the dike (piles #254).

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-30 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training	-2.5˚C
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Cloudy and snowy

Field Results

- Sample # CB-WTD-063 taken in batch #1358 and 1360 pour in pile #380 and 445
- Approved piles # 437, 441, 445, 300, 473, 477, 388, 392
- Pour piles #320, 380, 445, 441, 437, 300, 316, 388, 392,
- Monitoring temperature measures in the thermocouple in pile #257
- Some UCS done in the laboratory
- One Q.C. is helping Sana to do the measurement for the HE cement type grout recipe. Sample # CB-WTD-068
- Batch plan results shows that everything is on target.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Jean-Francois Blais

Inspector : Melina Guay

From : AEM, Dike superintendent

(Print Name)

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-30 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-12 ˚C

Field Results

- Approved piles: # 344, 330, 348, 352, 521, 525, 529, 449, 453 and 457.
- Pouring piles: # 477, 481, 489, 481, 489, 493, 330, 348, 344, 352, 521, 525 and 529.
- Anchoring casing not approved: # 449, 453 and 457.
- Make field Vane Test in the pile # 300 at 2h00 o'clock the morning.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-31 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-10˚C

Field Results

- Sample # CB-WTD-063 taken in batch #1454-1456 pour in pile #449, 427 and sample CB-WTD-064 batch #1486-1488 pour in pile #501, 505
- Approved piles # 324, 485, 497, 501, 537, 541, 505, 533,
- Pour piles #457, 453, 449, 427, 423, 334, 324, 485, 497, 501, 505 and 533
- Monitoring temperature measures in the thermocouple in pile #257
- All the UCS tests that was late was done in the laboratory
- Sampling grout for sana to tests the batch from the injection unit. Sample # CB-WTD-066, CBWTD-067, with two different ratio of Arbo in it (o.5 and 0.75)
- Batch plan results shows that everything is on target.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Melina Guay (Print Name)

From : AEM,

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-10-31 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-18 ˚C

Field Results

- Approved piles: # 338, 358, 370, 376, 443, 463, 467, 509, 513 and 517.
- Pouring piles: # 537, 541, 370, 376, 541, 517, 513, 509, 467, 463 and 443.
- Toping piles: # 449, 453, 457, 473, 477, 485, 497, 501, 505, 529, 533, 427, 423, 334, 533, 429, 541, 537, 533, 517, 513, 505, 501, 497, 485, 457, 453, 449, 467, 509, 463.
- Make field Vane Test in the pile # 521 at 9h00 PM.
- Sampling CB-WTD-065, in batch # 1514, in pile # 513-517.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonalds

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-01 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-15˚C

Field Results

- Sample # CB-WTD-069 taken in batch #1550-1552 pour in pile #390-400
- Approved piles # 390, 491, 479, 475, 471, 400527, 439, 412, 416,
- Pour piles #431, 338, 358, 390, 400, 471, 475, 479, 491
- Monitoring temperature measures in the thermocouple in pile #257
- UCS tests for 28 days and 2 days old samples
- Batch plan results shows that everything is on target.
- Inspection of the foundation preparation for North East Dike. It's seem that they need to excavate some material between 0+075 and 0+125. Need to be confirm by the survey of the foundation.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Melina Guay (Print Name)

From : AEM,

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-01 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-22 ˚C

Field Results

- Approved piles: # 416, 328, 354, 364 and 565.
- Pouring piles: # 439, 435, 416, 412, 396, 328, 354, 364 and 503.
- Anchoring casing not approved: # 545, 549, 553, 557, 561 and 565.
- Toping piles: # 439, 400, 431, 439, 338, 334, 324, 412, 416, 439, 445, 463, 467, 421, 475, 479, 491, 527 and 328.
- Sampling CB-WTD-070, in batch # 1394, in pile # 328.
- Thermocouple monitoring on the dike (piles #254).

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonalds

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-02 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☒ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-20˚C

Field Results

- Sample # CB-WTD-071 taken in batch #1624-1626 pour in pile #561-557
- Approved piles #565, 561, 557, 553, 549, 545, 483, 499
- Pour piles # 503, 565, 561, 557, 553
- Monitoring temperature measures in the thermocouple in pile #254
- UCS tests for 28 days and 2 days old samples
- HFDI had issues with the roc hammer rig, they took the morning to change the hammer for one rig to another batch plant start back at 11h40 AM
- Batch plan results shows that everything is on target.

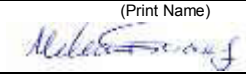
Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Melina Guay (Print Name)

From : AEM,

Signature* : 

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-02 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-28 ˚C

Field Results

- Approved piles: # 447, 487, 455, 459, and 384.
- Pouring piles: # 553, 549, 545, 499, 487, 483, 459, 455, 447 and 384.
- Anchoring casing not approved: # 531, 525, 519, 515, 511, 495, 408, 404 and 507.
- Toping piles: # 553, 557, 561, 565, 503, 499, 527, 487, 545, 553, 464, 483, 595, 549, 553, 557, 561, 565, 360, 354, 328.
- Sampling CB-WTD-072, in batch # 1666, in pile # 464, 483, 595, 549, 553, 557, 561, 565, 360, 354 and 328.
- Thermocouple monitoring on the dike (piles #254).

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-03 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-20˚C

Field Results

- Sample # CB-WTD-073 taken in batch #1686-1688 pour in pile #523-519
- Approved piles #322, 535, 531, 523, 519, 515, 511, 507
- Pour piles # 322, 535, 531, 523
- Monitoring temperature measures in the thermocouple in pile #254
- UCS tests for 28 days and 2 days old samples
- HFDI had issues with the roc hammer rig, they took the morning to do the repair. Back on production at 11h00
- Batch plan results shows that everything is on target.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Melina Guay

From : AEM,

(Print Name)

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-03 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-16 ˚C

Field Results

- Approved piles: # 495, 451, 362, 408, 404, 366, 637, 633, 629, 601 and 597.
- Pouring piles: # 511, 507, 495, 451, 408, 404, 366, 362, 366, 637 and 633.
- Anchoring casing not approved: # 420, 424 and 597.
- Toping piles: # 523, 527, 531, 535, 495, 511, 322, 535, 531, 523, 519, 515, 511, 507, 495, 451, 408, 404 and 366.
- Sampling CB-WTD-074, in batch # 1718 , in pile # 362-366 .
- Thermocouple monitoring on the dike (piles #254).

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-04 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-20˚C

Field Results

- Sample # CB-WTD-075 taken in batch #1766-1768 pour in pile #424
- Approved piles # 543, 539, 428, 424, 420, 414 and 551.
- Pour piles # 629, 601, 597, 593, 539, 428, 424 and 420.
-
- UCS tests for 28 days and 2 days old samples
- HFDI figure out a method to remove the frozen casing #474 it will be done on the night shift
- Batch plan results shows that everything is on target.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Melina Guay

From : AEM,

(Print Name)

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-04 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-15 ˚C

Field Results

- Approved piles: # 577, 573, 569, 555, 559, 563, 543, 374, 374-B, 394 and 398.
- Pouring piles: # 414, 551, 577, 573, 569, 563, 559 and 555.
- Toping piles: # 404, 408, 424, 428, 553, 539, 535, 531, 593, 597, 601, 629, 633, 637, 577 (two time) and 573.
- Sampling CB-WTD-076, in batch # 1790, in pile # 569-573.
- Thermocouple monitoring on the dike (piles #254).

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-05 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	☐ Other (specify):
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**-7°C**

Field Results

- Sample # CB-WTD-077 taken in batch #1842-1844 pour in pile #585
- Approved piles # 625, 613, 585, 621, 609, 589, 464 and 468.
- Pour piles # 394, 394, 398, 374, 374B, 555, 559, 585 and 589.
- No UCS test due to crew change
- Batch plan results shows that everything is on target.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Dominic Fournelle (Print Name)

From : AEM,

Signature* : Dominic Fournelle

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client: Agnico Eagle	Inspection Date: 2018-11-05 Night
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	☒ Other (specify): Laboratory
Project Nº : 11130315-B1	-15˚C
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	

Field Results

- Approved Piles: # 386,402,406,472,547 and 581.
- Poured piles # 609,621,625,585,581,547,472,468,464. Batch #1854-1856 to1890-1892.
- Toping piles #609,613,543,569,625,374,621,625,585,589,581,468 and 472.
- Samples (CB-WTD-078) pile # 547 and 472. Batch # 1878.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-06 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	☐ Other (specify):
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Cloud with wind **-15˚C**

Field Results

- Sample # CB-WTD-079 taken in batch #1918-1920 pour in pile #406.
- Approved piles # 649, 645, 641, 617, 422, 418 & 410.
- Pour piles # 306, 402, 406, 649, 645 & 641.
- The pile 406 was sinking a lot. It been empty two times before the plug it. The last batch added had half of Arbo (#1926-1928).
- UCS been done for the samples due for the current shift and for the last day shift (crew change).
- A drill was in fixation (hugger), so they had to stop the CB production in the afternoon due for a lack of productivity on the dike.
- Batch plan results shows that everything is on target.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date	2018-11-06 Night
Site	Amaruq	☐ Drill and Blast ☐ Foundation Prep. ☐ Rockfill Placement ☐ Sampling ☐ Compaction ☒ Secant Wall	☐ Expertise ☐ Vibration Monitoring ☐ Water Management ☐ Grout curtain ☐ Liner / Geotextile
Project	Whale Tail Dike	☒ Other (specify):	Laboratory
Project Nº :	11130315-B1		
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF			-15˚C

Field Results

- Approved Piles: #436,689,685,681,605,500,504.
- Poured piles #410,418,422,436,617,689,685. Batch #1930-1932 to 1956-1958.
- Toping piles # 641,645,649,543,581,468,61,645,649,468,436,410,418,422.
- Samples (CB-WTD-080) pile # 617 and top # 641,645,649,468,436. Batch # 1942-1944.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-07 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Cloud with wind **-15˚C**

Field Results

- Sample # CB-WTD-081 taken in batch #1988-1990 poured in the following piles for top-up: 448, 452, 476, 444, 500, 504, 605, 681, 685 & 689.
- Approved piles #452, 476, 448, 444 & 432.
- Poured piles # 685, 681, 605, 500, 504, 476, 452, 448, 444 & 432.
- Top-up piles # 617, 422, 418, 410, 406, 402, 689, 685, 681, 605, 448, 452, 476, 444, 500 & 504.
- UCS been done on 7 days & 28 days.
- An issue happened with the UCS press. The technician in the lab stopped the high speed raise too late and 3 screws that were holding the rod between the load sensor and the specimen broke at the same time. Those three screws seems to be a protection for that kind of mistake to protect the sensor.
  Other screws have been found on the site. The problem has been told to Sana and the original needed screws will be order.
- Problem with the rock hammer and the compressors line during the afternoon.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date	2018-11-07 Night
Site	Amaruq	☐ Drill and Blast ☐ Foundation Prep. ☐ Rockfill Placement ☐ Sampling ☐ Compaction ☒ Secant Wall	☐ Expertise ☐ Vibration Monitoring ☐ Water Management ☐ Grout curtain ☐ Liner / Geotextile
Project	Whale Tail Dike	☒ Other (specify):	Laboratory
Project Nº :	11130315-B1		
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF			-15˚C

Field Results

- Approved Piles: # 532,528,524,480,460.
- Poured piles # 532, 528. Batch #1996-1998 to 2000-2002.
- Toping piles #476,500,504,605,617,681,685,689,528.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-08 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	☐ Other (specify):
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Cloud with lot of wind **-18˚C**

Field Results

- Sample # CB-WTD-082 taken in batch #2032-2034 poured in the piles #488.
- Approved piles #426, 440, 378, 382, 496, 492, 488, 508, 599, 595, 571, 575 & 567
- Poured piles # 524, 460, 440, 382, 378, 480, 488 & 492.
- Top-up piles # 528, 532, 452, 448, 444, 476, 440, 460, 480, 378 & 382.
- The pile # 426 was sinking a lot. We let it set for around 5 hours and filled it with a batch with half arbo and it still sinking. Need to be continue on the nigh shift.
- UCS been done on 7 days & 28 days.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client Agnico Eagle	Inspection Date 2018-11-08 Night
Site Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project Whale Tail Dike	☒ Other (specify): **Laboratory**
Project Nº : 11130315-B1	**-15˚C**
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	

Field Results

- Approved Piles: #544,456,466,470,536,540,520,516,474.
- Poured piles # 508,599,595,575,571,567,564,544,540,536,520,516. Batch # 2048-2050 to 2084.
- Toping piles #524,528,496,492,488,480,460,508,440,382,426,382,378,571,575,595,599,544,567.
- Sample (CB-WTD-083) has been done at 2h15. Piles #536 and 520. Batch # 2076-2078.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-09 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Sunny, no wind **-24˚C**

Field Results

- Henri Drilling crew change. No production for this shift.
- Approved piles #627,231 & 635.
- Sans did a cleanup on the dike and moved the compressors and all the pipes to be out from the ice.
- UCS been done on 7 days & 28 days.
- Field vane test has been done in the secant pile # 480. The test has been done from the elevation 156 to 150. The average of the shear resistance is 92.5 Kpa (the lowest is 25 Kpa at elev. 156.00 & the highest is 127.5 Kpa at elev. 154.00).

Corrective action to be taken:

- Due to a lack of verticality caused by the way to push the rod (with the zoom-boom &/or excavator), we had a refusal at the elevation 149.25 during the vane test. There's a probability that the vane paddle scratched the border of the pile.
- I suggest to stop doing the vane test because it is destructive, the apparatus we have don't gives us the possibility to control the verticality and those reasons may affect the permeability.

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date 2018-11-09 Night
Site	Amaruq	☐ **Drill and Blast** ☐ **Expertise**
Project	Whale Tail Dike	☐ **Foundation Prep.** ☐ **Vibration Monitoring**
		☐ **Rockfill Placement** ☐ **Water Management**
		☐ **Sampling** ☐ **Grout curtain**
		☐ **Compaction** ☐ **Liner / Geotextile**
		☒ **Secant Wall**
Project Nº :	11130315-B1	☒ **Other (specify):** **Laboratory**

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-15˚C

Field Results

- Approved Piles: #.
- Poured piles # 470,474,466,456,635,631. Batch # 2086-2088 to 2102-2104.
- Toping piles # 575,571,567,426,382,378,470,466,456,52O,474.
- Sample (CB-WTD-084) has been done at 1h02. Piles #631. Batch # 2104.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-09 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Sunny, no wind **-24˚C**

Field Results

- CB and cement jammed in some pipes of the batch plan. No CB produced for his shift.
- Approved piles # 623, 619, 615, 721, 725, 607, 603, 512, 502, 591, 587, 583 & 579
- UCS been done on 7 days & 28 days.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client Agnico Eagle	Inspection Date 2018-11-10 Night
Site Amaruq	☐ **Drill and Blast** ☐ **Expertise** ☐ **Foundation Prep.** ☐ **Vibration Monitoring** ☐ **Rockfill Placement** ☐ **Water Management** ☐ **Sampling** ☐ **Grout curtain** ☐ **Compaction** ☐ **Liner / Geotextile** ☒ **Secant Wall**
Project Whale Tail Dike	☒ **Other (specify):** **Laboratory**
Project Nº : 11130315-B1	**-15˚C**
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	

Field Results

- Approved Piles: #.
- Poured piles # 502,512,725,721, 627. Batch # 2108-2110 to 2120-2122 .
- Toping piles # 502,725,512,502,635,631.
- Sample (CB-WTD-086) has been done at 2h15. Piles #721 and 725. Batch # 2116.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-11« Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	☐ Other (specify):
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Cloud **-20˚C**

Field Results

- Sample # CB-WTD-087 taken in situe, batch #2136-2138 during the topping of the pile # 725 and 721, the rest of the batch had been poured in the pile #607 & 603.
- Approved piles #717, 643, 737, 639, 693 & 697.
- Poured piles # 623, 619, 615, 607, 603, 591 & 587.
- Top-up piles # 512, 502, 635, 725, 721, 631, 627, 623, 619, 615 & 607
- UCS been done on 7 days & 28 days.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client Agnico Eagle	Inspection Date 2018-11-11 Night
Site Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project Whale Tail Dike	☒ Other (specify): **Laboratory**
Project Nº : 11130315-B1	**-15˚C**
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	

Field Results

- Approved Piles: # 653,657,647,661,757,769,773.
- Poured piles # 583,579,653,657,661,647,643,773,769,757,639. Batch # 2156-2158 to 2192-2194.
- Toping piles # 635,631,627,623,619,615,607,603,583,579,587,653,657,661,639.
- Sample (CB-WTD-088) has been done at 20h38. Piles #583 and 579. Batch # 2160-2162.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-12 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	☐ Other (specify):
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Cloud **-20˚C**

Field Results

- Sample # CB-WTD-089 taken in the batch # 2220-2222 poured in the pile # 809.
- Approved piles #809, 805, 801, 673, 677, 765 & 761.
- Poured piles # 737, 717, 697, 693, 677 & 673.
- Top-up piles # 675, 653, 647, 643, 637, 693, 697, 717, 737, 757, 769 & 773
- QC crew change, no lab test for this shift.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client Agnico Eagle	Inspection Date 2018-11-12 Night
Site Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project Whale Tail Dike	☒ Other (specify): Laboratory
Project Nº : 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**-22˚C**

Field Results

- Approved Piles: # 733,705,709,713,665,669,611,785,781,777,817,821.
- Poured piles # 809,805,801,765,761,611,665,669,705,709. Batch # 2220-2222 to 2252-2254.
- Toping piles # 737,717,697,693,677,673,773,769,757,809,805,801,611,665,669,761,765.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-13 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	☐ Other (specify):
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Cloud **-25˚C**

Field Results

- Sample # CB-WTD-091 at 16h25, batch 2284-2286, poured in the piles # 821.
- Approved piles #701, 753, 687, 741 & 749.
- Poured piles # 713, 733, 701, 777, 781, 785 & 821.
- Top-up piles # 705, 761, 765, 677, 717, 709, 713 & 701.
- UCS test, 7 & 28, all good.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date	2018-11-13 Night
Site	Amaruq	☐ Drill and Blast ☐ Foundation Prep. ☐ Rockfill Placement ☐ Sampling ☐ Compaction ☒ Secant Wall	☐ Expertise ☐ Vibration Monitoring ☐ Water Management ☐ Grout curtain ☐ Liner / Geotextile
Project	Whale Tail Dike	☒ Other (specify):	Laboratory
Project Nº :	11130315-B1		

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-22˚C

Field Results

- Approved Piles: # 733,705,709,713,665,669,611,785,781,777,817,821.
- Poured piles # 809,805,801,765,761,611,665,669,705,709. Batch # 2220-2222 to 2252-2254.
- Toping piles # 737,717,697,693,677,673,773,769,757,809,805,801,611,665,669,761,765.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-14 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	☐ Other (specify):
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Cloud **-30˚C**

Field Results

- Sample # CB-WTD-093, batches 2350-2352, at 16h54, poured in piles 667 & 659.
- Approved piles #667, 671, 829, 763, 807, 833, 825 & 759.
- Poured piles # 813, 797, 793, 789, 683, 671 & 667.
- Top-up piles # 821, 813, 753, 749, 741, 729, 687, 849, 853, 857, 797, 671, 789 & 793
- UCS test, 7 & 28, all good.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date 2018-11-14 Night
Site	Amaruq	☐ Drill and Blast ☐ Expertise
Project	Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
		☐ Rockfill Placement ☐ Water Management
		☐ Sampling ☐ Grout curtain
		☐ Compaction ☐ Liner / Geotextile
		☒ Secant Wall
Project Nº :	11130315-B1	☒ Other (specify): **Laboratory**

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-22˚C

Field Results

- Approved Piles: # 803,719,675,679,695,691,845,841,837.
- Poured piles # 655,651,833,829,825,807,763,759. Batch # 2354-2356 to 2386-2388.
- Toping piles # 683,667,659,655,789,793,797,683,671,667,659,655,651,833,829,825,807,803.
- Sample (CB-WTD-094) at 1h45 pile #763 batch # 2380.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-15 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	☐ Other (specify):
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Cloud **-30˚C**

Field Results

- Sample # CB-WTD-095, batches 2398-2400, at 10h45, poured in piles 695, 691 & 679.
- Approved piles # 837, 783, 775, 771, 767, 745, 735, 731 & 715.
- Poured piles # 719, 695, 691, 679, 675, 845, 841 & 837.
- Top-up piles # 659, 805, 809, 825, 651, 655, 683, 695, 691, 679 & 719.
- UCS test, 7 & 28, all good.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client Agnico Eagle	Inspection Date 2018-11-15 Night
Site Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project Whale Tail Dike	☒ Other (specify): Laboratory
Project Nº : 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**-22˚C**

Field Results

- Approved Piles: # 663,811,815,819,799.
- Poured piles # 767,771,775,783,735,731. Batch # 2422-2424 to 2446-2448.
- Toping piles # 695,691,679,675,659,655,651,719,759,763748,767,771,675,679.
- Sample (CB-WTD-096) at 1h30 batch# 2434 pile # 775 and 783.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-16 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	☐ Other (specify):
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Cloud **-30˚C**

Field Results

- Sample # CB-WTD-097, batches 2478-2480, poured in piles 795, 791 & 787.
- Approved piles # 795, 791, 787, 779, 723, 727, 755, 707 & 711.
- Poured piles #715, 663, 819, 815, 811, 799, 795 & 791
- Top-up piles # 663, 715, 735, 783, 811, 799, 815 & 799
- UCS test, 7 & 28, all good.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client Agnico Eagle	Inspection Date 2018-11-16 Night	
Site Amaruq	☐ Drill and Blast	☐ Expertise
Project Whale Tail Dike	☐ Foundation Prep.	☐ Vibration Monitoring
	☐ Rockfill Placement	☐ Water Management
	☐ Sampling	☐ Grout curtain
	☐ Compaction	☐ Liner / Geotextile
	☒ Secant Wall	
Project Nº : 11130315-B1	☒ Other (specify):	Laboratory
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF		**-31˚C**

Field Results

- Approved Piles: # 851,855,831,827,823,847,843,739,703,699.
- Poured piles # 779,755,727,723,711,707,855,851,831,827. Batch # 2486-2488 to 2522-2524.
- Toping piles # 819,815,811,755,779,787,791,795,799,723,727,755,787,791,711,707,831.
- Sample (CB-WTD-098) at 2h10 batch# 2514 pile # 831 and 827.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-17 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	☐ Other (specify):
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Cloud & windy **-30˚C**

Field Results

- Sample # CB-WTD-099, batches 2546-2548, at 14h40, poured in piles 743 & 751.
- Approved piles # 839, 835, 751 & 743.
- Poured piles # 827, 823, 843, 847, 839, 835, 739, 743 & 751
- Top-up piles # 707, 711, 827, 831, 855 & 851.
- UCS test, 7 & 28, all good.
- Shot down of the batch plan around 15h00, the drilled was not able to follow the rhythm of the CB pouring.
- Four samples has been packed to be send for the permeability test, # CB-WTD-075, 077, 082 & 095.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client	Agnico Eagle	Inspection Date	2018-11-17 Night
Site	Amaruq	☐ Drill and Blast ☐ Foundation Prep. ☐ Rockfill Placement ☐ Sampling ☐ Compaction ☒ Secant Wall	☐ Expertise ☐ Vibration Monitoring ☐ Water Management ☐ Grout curtain ☐ Liner / Geotextile
Project	Whale Tail Dike		
Project Nº :	11130315-B1	☒ Other (specify):	Laboratory
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF			**-31˚C**

Field Results

- Approved Piles: # 518,522,526,486,482,478.
- Poured piles #699,703,747,526,522,518. Batch # 2550-2552 to 2574-2576.
- Toping piles #707,711,743,739,751,823,827,847,851,855,699,703,526,522.
- Sample (CB-WTD-100) at 3h30 batch# 2566-2568 pile # 526 and 522.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-18 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	
Project N°: 11130315-B1	☐ Other (specify):
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Cloud & windy **-35˚C**

Field Results

- Sample # CB-WTD-101, batches 2602-2604, poured in the pile 586 and taken at 14h20.
- Approved piles # 430, 434, 438, 586, 590, 594 & 642.
- A survey fail has been found at the end of the day shift. The way to set their tertiaries piles depth was wrong, especially for the “frozen zone”. So 5 rock sockets been refused by the QC and it might explain some over drilling as well.
- Poured piles # 518, 486, 482, 478, 430, 434, 438, 586 & 590.
- The pipe holder felt down the secant pile # 478.
- Top-up piles # 526, 522, 518, 478, 482, 486 & 430.
- UCS test, 2, 7 & 28 days, all good.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Client Agnico Eagle	Inspection Date 2018-11-18 Night
Site Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Rockfill Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project Whale Tail Dike	☒ Other (specify): **Laboratory**
Project Nº : 11130315-B1	**-31˚C**
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	

Field Results

- Approved Piles: # 626,566,562,490,494,498,450,550,554,558,634,638.
- Poured piles # 642,638,634,626,566,562,558,554,550 Batch # 2614-2616 to 2574-2576.
- Toping piles # 590-586-434-430-594-626-634-638-642.
- Sample (CB-WTD-102) at 0h10 batch# 2630-2632 pile # 562.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Denis Jacques Coulombe
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-19 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-37 ˚C

Field Results

- Approved piles: # 967, 446, 442, 546, 542, 538, 534 and 530.
- Pouring piles: # 602, 598, 578, 975, 973, 971, 969, 967, 574, 570, 546, 542 and 538.
- Anchoring casing not approved: # 484, 514, 510, 506, 610, 614, 618 and 682.
- Toping piles: # 622, 606, 602, 630, 634, 638, 566, 562, 558, 554, 550, 626, 622, 606, 602, 598, 582, 578, 574, 975, 973, 971, 969, 967, 630 and 570.
- Sampling CB-WTD-104, in batch # 2688, in pile # 975, 973 and 971.
- Sampling CB-WTD-105, in batch # 2692, in pile # 971, 969 and 967.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-20 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-32˚C

Field Results

- Sample # CB-WTD-106 taken in batch #2734-2736 pour in pile #618-510-506
- Approved piles # 610, 614, 618, 454, 458, 484, 510, 506
- Pour piles #534, 530, 610, 614, 618, 510, 506
- UCS tests for 28 days, 7 days and 2 days old samples
-
- Batch plan results shows that everything is on target.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay

From : AEM,

(Print Name)

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-20 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☒ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☒ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-33 ˚C

Field Results

- Approved piles: # 686, 690, 662, 658, 654, 650, 646, 592, 560 and 564.
- Pouring piles: # 506, 454, 484, 458, 446, 442, 690, 686, 662, 658, 654, 650, 646 and 592.
- Anchoring casing not approved: # 462, 588, 682, 694, 698, 702, 718, 722 and 724.
- Toping piles: # 618, 614, 610, 602, 570, 546, 542, 538, 534, 530, 510, 506, 494, 484, 458, 454, 690, 686, 662, 658, 662, 658, 654, 690, 686, 662, 658, 654 and 650.
- Sampling CB-WTD-107, in batch # 2746-2748, in pile # 454-446.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-21 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-30˚C

Field Results

- Sample # CB-WTD-108 taken in batch #2810-2812 pour in piles #726, 722
- Approved piles # 514, 462, 738, 734, 726, 722, 718, 698
- Pour piles #592, 564, 560, 514, 462, 738, 734, 726, 722
- UCS tests for 28 days, 7 days and 2 days old samples
-
- Batch plan results shows that everything is on target.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM,

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-21 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-33 ˚C

Field Results

- Approved piles: # 702, 568 and 572.
- Pouring piles: # 718.
- Toping piles: # 718, 734, 738, 690, 686, 650, 646, 726 and 722.
- Sampling CB-WTD-109, in batch # 2818-2820, in pile # 718.
- Due to a broken seal in the cement mixer, the batch plan stop to work at 2h00 AM.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-22 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-30˚C

Field Results

- Sample # CB-WTD-110 taken in batch #2834-2836 pour in piles #572-568
- Approved piles # 588, 972, 974, 750, 746, 742, 730, 970
- Pour piles #972, 974, 572, 568,
- Due to stop in production we had to redrill some piles to avoid cold joint #592, 514, 506, 462, 446, 442, 560, 718, 722, 726, 734, 738
- UCS tests for 28 days, 7 days and 2 days old samples

We find out some esker material in pile #970-972 and 974 in the east abutment.

- Batch plan results shows that everything is on target.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM,

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-22 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-31 ˚C

Field Results

- Approved piles: # 970, 968, 694, 666, 682, 674, 644, 640, 624 and 628.
- Pouring piles: # 588, 750, 746, 970, 968, 742, 730, 702, 698, 694 and 682.
- Toping piles: # 972, 974, 592, 588, 572, 568, 514, 462, 442, 970, 750, 746, 742, 750, 730, 572, 588, 568, 694, 698, 682, 702, 730, 742 and 746.
- Sampling CB-WTD-111, in batch # 2866-2868, in pile # 698 and top # 750-730-588-572-568.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

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Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-23 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-30˚C

Field Results

- Crew change for Henry Drilling, No production for today. Cleaning of the dike and maintenance of the equipment
- Ucs tests in the laboratory and pinhole test done
-
- Sana is installing the deck for the Grout press in the laboratory
-
-
-

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM,

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

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Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-23 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-31 ˚C

Field Results

- Approved piles: # 576, 596, 600, 714, 710 and 706.
- Pouring piles: # 674, 666, 644, 628 and 624.
- Toping piles: # 694, 698, 702, 746, 750, 674, 654, 666, 674, 666, 730, 742 and .
- Sampling CB-WTD-113, in batch # 2882-2884, in pile # 674 and top # 750-746-702-698-694.
- The batch 2882 show a density 1.27kg/m^3.
- The pile # 682 need to be drilled again for eliminate the cold joint in the middle of the pile.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-24 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-30˚C

Field Results

- Approved piles #762, 548, 552, 556, 604, 608, 692 and 688
- Poured piles #600, 596, 584, 580, 576, 706, 710, 714, 762, 604, 608, 556, 552 and 548
- Sample # CB-WTD-113 was taken in batch #2942-2944 and pour in pile #608 and 556. This sample have been taken before they put the Arbo in
- Sample # FF-AMQ-102 from 23-11-2018 production
- Sample #FF-AMQ-103 from today production

UCS tests in the laboratory

- Tests in the laboratory shows that everything is on target.

Pile # 682 have been redrill but not reapprove yet supposed to be done in the night shift

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM,

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-24 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-31 ˚C

Field Results

- Approved piles: # 682, 620, 612, 640, 636 and 632.
- Pouring piles: # 548, 692, 682, 688, 620, 612, 636, 632 and 640.
- Toping piles: # 706, 710, 714, 762, 628, 624, 608, 604, 600, 596, 584, 580, 576, 556, 552, 548, 706, 692, 688, 682, 674, 666, 644, 714, 710, 706, 620, 624, 608, 604, 584, 580, 576, 600, 596, 556, 552, 548, 620
- Sampling CB-WTD-114, in batch #2970-2972, in pile #620, 612 and top #706, 692
- The hammer still frozen between 23h00 at 5h00.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-25 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-28˚C

Field Results

- Toping piles:968, 970, 762, 714, 710, 706, 702, 692, 688, 680, 666, 644, 640, 636, 620, 612, 608, 604, 917, 913, 909, 758.
- Approved piles #670, 616, 754, 758, 909, 913, 648, 652, 656, 881 and 873.
- Poured piles #917. 913, 909, 758, 754, 616, 648 and 652.
- Sample # CB-WTD-115 was taken in batch #3008-3010 and pour in pile #616 and 648. This sample have been taken before they put the Arbo in.
- Sample # FF-AMQ-104 from 25-11-2018 production.
- Sana crusher broke down at 11h00, no production for the rest of the day.
- UCS tests in the laboratory and gradation.
- Tests in the laboratory shows that everything is on target.

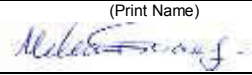
Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM,

Signature* : 

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-25 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-30 ˚C

Field Results

- Approved piles: # 873, 869, 838 and 861.
- Pouring piles: # 652, 656, 670, 881, 873, 869 and 861.
- Toping piles: # 762, 758, 754, 688, 682, 652, 648, 640, 636, 632, 620, 616, 612, 909, 913, 917, 881, 670, 758, 754, 670, 656, 652, 648, 640, 636, 632, 620, 616, 612, 917, 913, 909, 873, 881 and 869.
- Sampling CB-WTD-116, in batch #3024-3026, in pile # 881 and toping # 682-652-648-640-636-632-620-616-612.
- The hammer still frozen between 22h00 at 1h00.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-26 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-28˚C

Field Results

HDFI had issues with the rock hammer the production was slower

- Approved piles #724, 728, 684, 660, 704, 901, 905, 834,
- Poured piles #660, 684, 704, 728, 724, 728
- Sample # CB-WTD-117was taken in batch # 3052, 3054 and pour in pile #660, 684
- The batch plan start at 11h30
- Crew change for us, no tests in the laboratory

Sana crusher still down

- Tests in the batch plan shows that everything is on target.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM,

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-26 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-29 ˚C

Field Results

- Approved piles: # 897, 865,748, 744, 740, 736 and 732.
- Pouring piles: # 728, 834, 905, 901, 897, 865 and 748.
- Toping piles: # 724, 704, 684, 660, 754, 728, 724, 704, 684, 670, 660, 656, 838, 834, 905, 901, 861, 869, 873, 877, 881, 905, 901, 897, 877, 873, 869, 704, 684, 660 and 748.
- Sampling CB-WTD-118, in batch #3088-3090, in pile #748 and toping #905-901-897-877.
- Batch #3092-3094 was spill on the dike due to broken valve.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-27 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-26˚C

Field Results

- Toping piles # 748. 834, 838, 865, 905, 901, 897, 865, 838, 834, 744, 740, 724, 921, 925, 929, 660, 684, 704, 748, 744, 740, 684, 893, 889, 921, 925 and 897.
- Approved piles # 929, 925, 921, 893, 889, 664, 696, 770 and 766.
- Poured piles # 744, 740, 921, 925, 929, 893, 889, 736, 732, 696 and 664.
- Sample # CB-WTD-119 was taken in batch #3120-3122 and pour in pile #736 and 732.
- UCS tests in the laboratory and gradation
- Tests in the laboratory shows that everything is on target.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Melina Guay (Print Name)

From : AEM,

Signature* : 

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-27 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-26 ˚C

Field Results

- Approved piles: # 933, 879, 885, 915, 911, 774, 778, 786, 790, 700, 678 and 672.
- Pouring piles: # 770, 766, 933, 915, 911, 885, 879, 790, 786 and 778.
- Toping piles: # 770, 748, 744, 740, 736, 732, 766, 732, 770, 728, 724, 704, 696, 684, 889, 893, 897, 901, 905, 929, 925, 921, 933, 696, 664, 740, 744, 748, 736, 766, 770, 885, 889, 893, 911, 915, 921, 925 and 929.
- Sampling CB-WTD-120, in batch #3156-3158, in pile # 879 and toping # 740-744-748-736-766-770-885-889-893-911-915-921-925-929.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-28 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-19˚C

Field Results

- Toping piles:, «935-786-790-879-885-748-744-740-736-929-925-790-774-778-911-915-941-664-672-678-700-867»
- Approved piles #668, 937, 941, 871, 867, 863, 859, 814, 782 and 752.
- Poured piles #778, 774, 668, 672, 678, 700, 941, 937, 871, 867, 863, 859 and 814.
- Sample # CB-WTD-121 was taken in batch # 3192-3194 and pour in pile # 937-871.
- Tests in the Batch plant shows that everything is on target.
- No UCS or lab test for today, incident with a member of the crew.
- Casing for the grout injection are putting in ground.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Melina Guay

From : AEM,

(Print Name)

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-28 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-18 ˚C

Field Results

- Approved piles: # 716, 720, 907, 903, 931, 899, 949, 945, 708, 712, 772 and 760.
- Pouring piles: # 782, 752, 716, 907, 931, 708, 712 and 716.
- Toping piles: # 941, 937, 879, 871, 863, 859, 915, 885, 879, 871, 867, 863, 859, 790, 786, 774, 700, 678, 672, 668, 664, 871, 867, 863, 859, 814, 782, 937 and 941.
- Sampling CB-WTD-122, in batch #3228-3230, in pile # 907-931 and toping # 937-941.
- We pour another time in the casing the pile # 716 due to important grout loss.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-29 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-15˚C

Field Results

- Toping piles: #871, 907, 700, 712, 716, 708, 758, 814, 859, 863, 867, 931, 911, 668, 672, 700, 708, 712, 716, 752, 720, 760, 756, 949, 945, 927, 907, 903, 899, 830 and 826.
- Approved piles #949, 945, 927, 903, 899, 891, 826, 830, 822, 818, 776, 788, 768 and 764.
- Poured piles #720, 756, 760, 772, 949, 945, 927, 903, 899, 891, 830, 826, 822 and 818.
- Sample # CB-WTD-123 was taken in batch # 3272-3274 and pour in pile # 891-830.
- Tests in the Batch plant shows that everything is on target.
- UCS tests in the laboratory.
- Casing for the grout injection are putting in ground.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Melina Guay (Print Name)

From : AEM,

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-29 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-14 ˚C

Field Results

- Approved piles: # 965, 961, 957, 953, 923, 919, 802, 806, 810, 794, 784, 883, 887 and 780.
- Pouring piles: # 788, 776, 768, 764, 923, 919, 965, 961, 957, 953, 810, 806, 802, 794 and 784.
- Toping piles: # 931, 927, 907, 903, 899, 891, 830, 826, 822, 818, 760, 772, 756, 720, 716, 712, 708, 949, 945, 927, 919, 903, 830, 826, 822, 788, 776, 772, 768, 764, 760, 756, 720, 716, 712 and 708.
- Sampling CB-WTD-124, in batch # 3316-3318, in pile # 810-806.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-30 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-12˚C

Field Results

- Toping piles: # 965, 961, 957, 953, 923, 919, 901, 788, 784, 802, 891, 887, 883, 818, 794, 790, 780, 776, 768, 764, 760, 810, 806, 802, 939, 943, 947, 953, 957, 961, 965
- Approved piles #935, 939, 943, 947, 836, 676, 842, 850, 846, 798, 824, 680, 875 and 854
- Poured piles #780, 887, 883, 947, 943, 939, 935, 686, 776, 780, 798 and 824
- Sample # CB-WTD-125 was taken in batch # 3344-3346 and pour in pile # 957
- Tests in the Batch plant shows that everything is on target.

UCS tests in the laboratory

Casing for the grout injection are putting in ground

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Melina Guay (Print Name)

From : AEM,

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-11-30 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-19 ˚C

Field Results

- Approved piles: # 951, 668B, 963, 959, 955, 832, 828, 820, 816, 870, 866 and 858.
- Pouring piles: # 824, 836, 842, 846, 850, 951, 850, 854, 875, 959, 955, 963, 668B, 816 and 820.
- Toping piles: # 947, 953, 943, 939, 935, 927, 923, 919, 887, 883, 842, 836, 824, 810, 806, 802, 798, 794, 784, 780, 776, 768, 764, 676, 951, 947, 943, 939, 935, 883, 887, 887, 883, 875, 854, 850, 846, 842, 836, 824, 820, 816, 798, 784 and 780.
- Sampling CB-WTD-126, in batch #3400-3402, in pile # 668B-816. (Mix cement GU/HE)
- Sampling CB-WTD-127, in batch #3404-3406, in pile # 816-820. (Only HE)

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-01 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-20˚C

Field Results

- Toping piles: # 668b, 676, 816, 820, 824, 852, 925, 929, 943, 951, 955, 959, 963, 875, 850, 846, 842, 836, 832, 828, 824, 820, 801, 858, 878, 870, 866, 870, 858, 878
- Approved piles #895, 914, 878, 910, 808, 812, 906, 922, 926, 840, 844
- Poured piles #828, 832, 858, 870, 866, 878, 895, 812, 808, 914, 910, 922, 926
- Sample # CB-WTD-128 was taken in batch #3444-3446 and pour in pile # 910-906-922
- Tests in the Batch plant shows that everything is on target.

UCS tests in the laboratory

Casing for the grout injection are putting in ground

Sample FF-AMQ-105 from production on 25-11-2018 to double check the gradation #FF-AMQ-104

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Melina Guay (Print Name)

From : AEM,

Signature* : Melina Guay

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-01 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-20 ˚C

Field Results

- Approved piles: # 804, 678B, 680, 792, 918, 902, 898 and 890.
- Pouring piles: # 852, 848, 844, 840, 804, 792, 680 and 678B.
- Toping piles: # 668B, 808, 812, 828, 832, 895, 910, 914, 922, 926, 895, 878, 870, 866, 852, 848, 844, 832, 828, 816, 812, 808, 910, 906, 914, 922, 926, 878, 866, 852, 848, 844, 812, 804, 676, 668B, 906, 914, 922 and 926.
- Sampling CB-WTD-129, in batch #3476-3478, in pile # 680-678B.

Half a truck have been trash due to the broken pump.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-02 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☐ Sampling ☐ Grout curtain
	☒ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-19˚C

Field Results

- Toping piles: # 852, 818, 844, 840, 804, 792, 895, 802, 680, 678b, 918, 902, 898, 890, 874, 856, 800, 796
- Approved piles #796, 800, 924, 874, 856, 950, 946 and 934
- Poured piles #918, 902, 898, 890, 800, 796, 856, 894, 924, 950, 946
- Sample # CB-WTD-130 was taken in batch #3508-3510 and pour in pile # 924 Sample on site due to mix of cement (GU and HE)
- Tests in the Batch plant shows that everything is on target.

UCS tests in the laboratory

Casing for the grout injection are putting in ground

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Melina Guay

From : AEM,

(Print Name)

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-02 night shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☒ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☒ Secant Wall
Project Nº : 11130315-B1	☐ Other (specify):
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training	-12 ˚C
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	

Field Results

- Approved piles: # 942, 938, 930, 908, 912, 860, 864, 868, 966, 962, 958 and 954.
- Pouring piles: # 934, 930, 938, 912, 908, 860, 864, 868, 942, 904, 916, 920
- Toping piles: # 874, 890, 898, 918, 924, 946, 950, 914, 856, 800, 796, 680, 678B, 874, 898, 856, 868, 864, 860, 912, 908
- Sampling CB-WTD-131, in batch #3528-3530, in pile # 912-908.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-03 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☒ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project N°: 11130315-B1	

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-14˚C

Field Results

- Toping piles: # 860, 864, 868, 884, 904, 908, 912, 916, 920, 924, 930, 934, 938, 942, 954, 958, 962, 966
- Approved piles # 916, 920, 894, 900, 872, 876 and 884
- Poured piles # 920, 966, 962, 954, 958, 900, 894, 884
- Sample # CB-WTD-132 was taken in batch #3560-3562 and pour in pile # 900
- Tests in the Batch plant shows that everything is on target.

UCS tests in the laboratory

Casing for the grout injection are all in place. Last casing is number S-510.

Work on the dike stopped from 15h30 to 17h00 due to bad weather condition.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Dominic Fournelle (Print Name)

From : AEM,

Signature* : Dominic Fournelle

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-04 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☒ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☒ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	-34˚C Cloud with wind

Field Results

- Toping piles: # 960, 956, 952, 948, 944, 940, 936, 932, 928, 892, 888, 886, 882 & 896.
- Approved piles # 896, 882, 886 & 964
- Poured piles # 892, 956, 960, 882, 886, 896 & 964.
- Sample # CB-WTD-134 was taken in batch #3614-3616 and pour in pile # 882
- Tests in the Batch plant shows that everything is on target.

UCS tests in the laboratory

- The cut off wall is finish.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-06 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**-30˚C**

Field Results

- HD demob.
- Clean up of the dike.
- UCS tests, all good.
- Pin hole test on the sample CB-WTD-134 at 1 day old, Non-Dispersive matrial.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-06 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**-30˚C**

Field Results

- HD demob.
- Clean up of the dike.
- UCS tests, all good.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-07 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**-30˚C**

Field Results

- HD demob.
- Final cleanup of the dike.
- UCS tests, all good.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-08 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**-25˚C**

Field Results

- UCS tests for 7 days and 28 days, all results are good.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-09 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**-20˚C**

Field Results

- UCS tests for 7 days and 28 days, all results are good.
- Preparation of the last shipment of permeability test. The sample # CB-WTD-108, 115, 122 & 127 had been selected.
- A high presence of moulds/mushroom is present in the cement lab, mostly in the curing room. The dike supervisor and the industrial hygienist closed the lab. No more UCS test until the situation is not fix properly.
- Inclinometers test has been done by KCG with the presence of QA/QC, in every injection casing. The apparatus cannot give the azimuth, only the deviation. Every measurements been done on the same side of each casing, done on the downstream side.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Eric McDonald

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-10 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	BLIZZARD **-15˚C**

Field Results

- Blizzard, no activities.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Olivier Jacques

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-11 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**-10˚C** Cloud

Field Results

- Preparation of the injection unit.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-12 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☒ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	-11˚C Cloud

Field Results

- Trial mix on Mix A (sample# GR-WTD-001), Mix B (sample # GR-WTD-002) & Mix A + Cold Weather Admixture (sample# GR-WTD-003).
- Results are ok (bleeding, specific gravity, temperatures, marsh funnel).
- The mixes A & A + Cold Weather Admixture had a non-homogenous look. Probably due Glénium admixture that not had been well stored at Meadowbank. Other trials will be done tomorrow on those mixes.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-13 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project N°: 11130315-B1	☐ Other (specify):
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training	-10˚C
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Cloud and light snow

Field Results

- Trial mix on Mix C (sample# GR-WTD-004), Mix D (sample # GR-WTD-005).
- Results are ok (bleeding, specific gravity, temperatures, marsh funnel).
- The mix D has a viscosity quite similar to the mix C instead having a higher viscosity. The trial of mix C had been done two times & and viscosity didn't change a lot.

- Primaries drilled holes # 504, 492 & 480 had been measured and the length inside the bedrock is ≥10m.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-14 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall ☐ Other (specify):
Project: Whale Tail Dike	
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**-17˚C** Cloud and light snow

Field Results

- No grout activity. Steel waiting for SNC informations.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-15 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project N°: 11130315-B1	☐ Other (specify):
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training	-17˚C
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Cloud and light snow

Field Results

- Grouting of Grout Holes # 504 (3 stages with mix A), 492 (3 stages with mix A), 480 (3 stages with mix A) & 462 (2 stages with mix A)
- Hole # 462 was blocked, so the stage 1 was 5.5m higher than expected. That hole will need to be redrill and regrout.
- Sample # GR-WTD-006 had been taken during the grouting of hole # 504 during the stage #3 with mix A.
- Every test done on the grout was good.

- Holes 1# 408 & 420 had been measured and are on target depth.
- Issue with the drilling of holes # 398 & 384. Those holes have Fine Filter sinking and high fractures at 13m of depth. Those holes will be inspect in the next shift by QC/QA.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12h

AGNICO EAGLE

Daily Field Report

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-16 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Material Placement ☐ Water Management
	☒ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project N°: 11130315-B1	☐ Other (specify):
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training	**-24˚C**
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	

Field Results

- Hole # 456 had been grouted in 3 stages. There was a high grout take. Stage 1 been poured with Mix A, B, C, & D (the last mix of D was with admixture Celbex 653, we called this mix D+). Stage 2 with mix A, B, C & D. Stage 3 with Mix A, B, C, D & D+ (D+ only the last batch).
- Stage 1 of the hole # 444 had been poured with mixes A, B, C, D & D+ (D + only the last batch). Big take of grout as well for this stage.
- No evidence of grout seepage around the dike & the grout didn't went into other hole.
- Sample # GR-WTD-007 taken with mix C during grouting of stage 2 of hole # 456.
- Tests on fresh grout was mostly good. A test on Mix D during the stage 1 of the hole # 444 was very thick due to a lack of mixing. The Temperature of the Cement & the water were low at some moments.

- Holes # 372, 360, 348, 336, 324, 312 & 300 been drilled.
- Holes # 312, 324 & 336 been measured and are in target depth.
- Holes # 360 & 372 been measured and are at less than 1m of the target depth.
- Holes # 396,384 & 348 been measured and are blocked. Specially the # 384 that is blocked just under the casing.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Daily Field Report

Site Representative :	Patrice Gagnon	Inspector :	Maxime Côté (Print Name)
From :	AEM,	Signature* :	Maxime Côté
Project Manager :	Daniel Pedneault	Time on site :	12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-17 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☐ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): **Laboratory**

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-28˚C

Field Results

- First day run, arrived at 16h30.
- Fine filter test, sample FF-AMQ-107.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Amadou Oury Diallo
(Print Name)

From : AEM,

Signature* : Amadou Oury Diallo

Project Manager : Daniel Pedneault

Time on site : 6h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-18 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-28˚C

Field Results

- Measuring depth of primaries holes #300, #288, #276, #264, #252, #240, #228, #216, #204, #192 and #180.
- Performing UCS tests at the laboratory: CB-WTD-105 (29 days curing), CB-WTD-106 (28 days curing).
- Grout tests on mixes A and D.
- Poured Holes: #408, stage 1 (mix D); #396, stage 1 (mix A); #384, stage 1 (mixes A, D, D+).

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon,

Inspector : Amadou Oury Diallo
(Print Name)

From : AEM,

Signature* : Amadou Oury Diallo

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-19 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☒ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-25˚C

Field Results

- Sampling fine filter at Sana's Crusher (sample FF-AMQ-108).
- Measuring depth of primaries holes #408, #396.
- Grout test on mixes A, B, D.
- Poured holes: #396 stage 2 (mixes A,D), stage 3 (mixes A, B, D); #408 stages 2, 3 (mix A); #420 stage 2 (mixes A, B, D, D+); #432 stages 2, 3 (mix A); #468 stages 1,2,3 (mix A).
- Performing UCS tests at the laboratory on samples CB-WTD-108 (28 days curing).

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Amadou Oury Diallo (Print Name)

From : AEM,

Signature* : Amadou Oury Diallo

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-20 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-32˚C

Field Results

- Measuring depth of primaries holes # 372, #360.
- Grout tests on mixes A, D and D+.
- Poured holes: #360 stages 1, 3 (mix A), stage 2 (mixes A, C); #372 stage 1 (mixes A, B, C, D, D+), stages 2, 3 (mix A), #420 stage 3 (mix A).
- Performing test on fine filter–sample FF-AMQ-108.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Amadou Oury Diallo
(Print Name)

From : AEM,

Signature* : Amadou Oury Diallo

Project Manager : Daniel Pedneault

Time on site : 12,5 hrs

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-21 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☐ Other (specify):

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-30˚C

Field Results

- Grout tests on mixes A, B, C, D.
- Poured holes: #486 stage 2 (mix A); #498 stage 2 (mixes A, B, C , D, D+), stage 3 (mix A); #510 stages 1, 3 (mix A), stage 2 (mixes A, B).

Samples taken: GR-WTD-008 (mix A), GR-WTD-009 (mix C).

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Amadou Oury Diallo
(Print Name)

From : AEM,

Signature* : Amadou Oury Diallo

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-22 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☒ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-30˚C

Field Results

- Measuring secondary holes #474, #462, #450, #438, #426.
- Grout tests on mixes A and B, sample taken GR-WTD-010 (mix B).
- Poured holes: #462 stage 1 (mixes A, B, C, D, D+); #474 stages 1, 2, 3 (mix A).
- Sampling fine filter at Sana's crusher (sample FF-AMQ-109).
- UCS tests on samples: CB-WTD-110 (30 days curing), CB-WTD-113 (28 days curing).

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Amadou Oury Diallo
(Print Name)

From : AEM,

Signature* : Amadou Oury Diallo

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-23 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-31˚C

Field Results

- .Grout tests on mixes A, B, C, and D. Sample taken on mix E (GR-WTD-011).
- Poured holes: #426 stage 1 (mixes A, B, C, D, D+); #438 stage 1 (mixes A, B, C, D, D+, E); #450 stages 1, 2, 3 (mix A); #462 stages 2, 3 (mix A).
- Performing fine filter tests on sample FF-AMQ-109.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Amadou Oury Diallo (Print Name)

From : AEM,

Signature* : Amadou Oury Diallo

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-24 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☒ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-31˚C

Field Results

- Measuring depth of secondaries holes #414, #402 and primary 336.
- Grouts tests on mix A, B and C.
- Poured holes: #414 stages 1, 2, 3 (mix A); #426 stage 2 (mixes A, C); #402 stage 3 (mixes A, B, C); #438 stage 2 (mixes A, B), stage 3 (mixes A, B, C, D).
- UCS tests on sample CB-WTD-112 (31 days curing).
- Taking a sample of fine filter at Sana's crusher – FF-AMQ-110.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Amadou Oury Diallo
(Print Name)

From : AEM,

Signature* : Amadou Oury Diallo

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-25 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-30˚C

Field Results

- Grout tests on mixes A, C and D.
- Poured holes: #384 stage 1 (mix A); #336 stage 1 (mixes A, C, D, D+).
- Performing fine filter test for the sample FF-AMQ-110.
- UCS tests on sample CB-WTD-119 (28 days curing).

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Amadou Oury Diallo
(Print Name)

From : AEM,

Signature* : Amadou Oury Diallo

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-26 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☒ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-36˚C

Field Results

- Grout tests on mixes A, B and D.
- Poured holes: #300 stage 1 (mix A); #312 stages 1, 2, 3 (mix A); #324 stage 1 (mixes A, C, D); #336 stage 2 (mixes A, B, D), stage 3 (mix A); #384 stages 2, 3 (mix A).
- UCS tests on sample CB-WTD-121 (28 days curing).
- Taking a sample of fine filter at Sana's crusher – FF-AMQ-111.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon.

Inspector : Amadou Oury Diallo (Print Name)

From : AEM,

Signature* : Amadou Oury Diallo

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-27
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-34˚C

Field Results

- Grout tests on mixes A, C and D.
- Poured holes: #300 stages 2, 3 (mix A); #324 stages 2, 3 (mix A); #348 stage 1 (mixes A, C, D), stage 3 (mix A).
- UCS tests on sample CB-WTD-125 (28 days curing).
- Performing fine filter tests on sample FF-AMQ-111.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Olivier Jacques

Inspector : Amadou Oury Diallo
(Print Name)

From : AEM,

Signature* : Amadou Oury Diallo

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-28 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-36˚C

Field Results

- UCS tests on sample CB-WTD-125.
- Grout tests on mix A.
- Poured holes: #402 stage 2 (mix A); #510 stages 1, 2, 3 (mix A).

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Olivier Jacques

Inspector : Amadou Oury Diallo
(Print Name)

From : AEM,

Signature* : Amadou Oury Diallo

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-29 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☒ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-34˚C

Field Results

- Grout tests on mix A.
- Poured holes: #498, stages 1, 2, 3 (mix A); #486, stages 1, 2, 3 (mix A); #288, stages 1, 2, 3 (mix A); #276, stages 1, 2, 3 (mix A).
- Taking a sample of fine filter at Sana's crusher- FF-AMQ-112.
- UCS tests on sample CB-WTD-128 (28 days curing).

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Olivier Jacques

Inspector : Amadou Oury Diallo
(Print Name)

From : AEM,

Signature* : Amadou Oury Diallo

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-30 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-36˚C

Field Results

- Grout tests on mixes A and F.
- Poured holes: #264, stages 1, 2, 3 (mix A); #252, stages 1, 2, 3 (mix A); #402, stages 2, 3 (mix A); #390, stage 1 (mixes A, C, D, D+, F).
- UCS tests on sample CB-WTD-130 (28 days curing).
- Performing fine filter tests on sample FF-AMQ-112.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Olivier Jacques

Inspector : Amadou Oury Diallo
(Print Name)

From : AEM,

Signature* : Amadou Oury Diallo

Project Manager : Daniel Pedneault

Time on site : 12h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-12-31 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	☒ Other (specify): Laboratory
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**-30˚C**

Field Results

- QC crost-shift

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Olivier Jacques

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 6 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-01-01 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	☒ Other (specify): Laboratory
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**-30˚C**

Field Results

- Compressive strength been performed on Grout cubic samples (# GR-WTD-006, 007, 008, 009, 010 & 011)
- A Vicat set time been performed on mix A with the method A of the standard ASTM C 191-13. The initial set time is at 583 minutes.
- The water supply changed. It is now from the underground mine tank instead of the Whale Tail Lake.
- Grouting in holes #: 354 (only two stages, stage 1 with mix A & C, stage 2 with mix A), 342 (stage 1 with mix A, stage 2 with mix A & B, stage 3 with mix A), 330 (stages 1, 2 & 3 with mix A) & 310 (just the stage 1 with mix A).
- Test been done on mixes A, B & C.
- The bleeding test on mix A is higher than 5% after 2 hours. Been performed two times to be sure.
- The mix A been sampled for compressive strength, # GR-WTD-013.
- We changed of Marsh Funnel Cone. It was too much damaged. With the new one, we have a difference of -10 seconds compare to the old one.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Olivier Jacques

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 14 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-01-02 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Material Placement ☐ Water Management
	☐ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project N°: 11130315-B1	☒ Other (specify): Laboratory
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training	**-25˚C**
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	

Field Results

- Grouting Holes #: 318 (stages 2 & 3 with mix A), 306 (stages 1, 2 & 3 with mix A), 294 (stages 1 with mixes A, B & C, stage 2 & 3 with mix A).
- UCS tests been done on CB-WTD-133 & 134.
- All tests been done on the grout. Bleedings on mix A stills higher than 5% after 2 hours, did two times. The other bleeding are ok.
- Sampling of Mix B (GR-WTD-014) & mix C (GR-WTD-015) for compressive strength.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Olivier Jacques

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-01-03 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): **Laboratory**
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Blizzard in the morning **-20˚C**

Field Results

- Operations stand-by until 10 o'clock in the morning due to a blizzard.
- UCS tests been performed on CB.
- Grouting of holes #: 282 (stages 1, 2 & 3 with mix A), 270 (stage 1 & 3 with mix A, stage 2 with mixes A & B) & 258 (stages 1, 2 & 3 with mix A).
- Test been performed on mixes A & B. The bleedings of the mix A stills not good…

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-01-04 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	☒ Other (specify): Laboratory
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	-32˚C

Field Results

- Grouting of holes #: 240 (stages 1, 2 & 3 with mix A), 228 (stages 1, 2 & 3 with mix A) & 216 (stages 1, 2 & 3 with mix A).
- Tests been done on mix A. The bleeding stills higher than 5% after two hours. They increased the time of mixing and it changed nothing on the bleeding.
- I sample the mix A for a second Vicat initial set time, it is 375 minutes (the temperature of the grout at the sampling was 33.8°C).
- Holes # 180, 192 & 180 been redrilled and washed. Holes 180 & 192 seems to be in the permafrost.
- UCS tests been performed.
- Problem with the data logger of the grout unit, no grouting in the afternoon.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-01-05 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project N°: 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-30˚C

Field Results

- Problem with gen-set of the Grout unit.
- Water pression test been performed in the hole # 516.
- UCS tests been performed.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-01-06 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	☒ Other (specify): Laboratory
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**-35˚C**

Field Results

- Grouting of the holes # 516 (stage 1 & 2 with Mixes A & B, Stage 3 with mix A), 501 (stages 1, 2 & 3 with mix A) & 495 (stages 1, 2 & 3 with mix B).
- During the grouting of holes # 495-stage 1, the packer got stock in the hole and the loader was needed to pull it. The rods brock and the packer stayed there. Grout specialist decided to keep going the hole. So the stage 1 has 6m long instead of 4m. Stages 2 & 3 have 2m each.
- UCS tests been performed.
- During the day, SNC decided to not use Mix A anymore due to it high bleeding result we're having since the 1st January.
- Mix B been sampled to perform a Vicat Initial Set Time. It's result is 305 minutes.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-01-07 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	☒ Other (specify): Laboratory
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**-35˚C**

Field Results

- Grout of holes #: 516 (stage 1 & 2 with mixes A & B, stage 3 with mix A), 501 (Stages 1, 2 & 3 with mix A), 495 (stage 1, 2 & 3 with mix B).
- During the grouting of hole #495, stage 1, the grout by-passed. So they tried to raise the packer but it was stock in the hole. Probably due to the blast there had on lunch time. Grout Specialist decided to raise the stage 1 at 18m to 12, stage 2 at 12 to 10m and stage 3 at 10 to 8m.
- During the shift, SNC decided to not use mix A anymore due to the bad results of the bleeding test.
- Tests been perform on mixes B, all good. A vicat test been perform on mix B, initial set time is at 305 min.
- UCS tests been performed.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric Mcdonald

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-01-08 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	☒ Other (specify): Laboratory
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**-35˚C**

Field Results

- Grouting of holes # 459 (stages 1, 2 & 3 with mix B), 453 (stages 1, 2 & 3 with mix B), 447 (stages 1, 2 & 3 with mix B), 441 (Stages 1, 2 & 3 with mix B) & 435 (stages 1, 2 & 3 with mix B).
- Test been done on mix B, results are all good. A sample had been taken on mix B, # GR-WTD-018.
- UCS test been performed on CB.
- Compressive strength been performed on sample # GR-WTD-013.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-01-09 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project N°: 11130315-B1	☒ Other (specify): Laboratory
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**-35˚C**

Field Results

- Grouting of holes #: 429 (stage 1 & 2 with mix B, Stage 3 with mixes B, C, D, F & E), 423 (stages 1, 2 & 3 with mix B) & 417 (stages 1 & 2 with mix B, stage 3 with mixes B & C).
- Tests on mixes B, C & E are all good. A sample been taken on mix C, # GR-WTD-019.
- UCS test been performed on CB. It was the last one.
- During the shift, the generator of the lab froze. So the lab have been winterized before it froze as well. Grout cubes samples been moved in the office. The leftover of Cement Bentonite samples stayed in the lab. If tests on 90 days old and more samples of CB, we'll have to take in note every sample froze.
- Grouted holes been measured. Hole # 456 is completely empty even if 5000L been poured in that hole.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-01-10 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	☒ Other (specify): Laboratory
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**-37˚C**

Field Results

- Grouting of holes # 411 (stage 1 with mixes B & C, stages 2 & 3 with mix B), 405 (stage 1 with mixes B, C & D, stages 2 & 3 with mix B).
- Tests on mixes C & D are good.
- Measuring of rock drilled holes (#393, 387, 381, 375, 369, 357, 351, 345, 339, 333, 327 & 321). They are mostly good but # 369 missed 4.2m to get a length of 10m inside the bedrock.
- Hole # 456 been backfill with mix B during the last night. The casing is full of hard grout.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 6 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-01-11 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	☒ Other (specify): Laboratory
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	**-35˚C**

Field Results

- Grouting in holes # : 267 (stages 1, 2 & 3 with mix B), 204 (stage 3 with mix B) & 399 (stage 1 with mixes B & C, stages 2 & 3 with mix B)
- Stage 1 of hole 399 by-passed.
- Tests performed on mixes B & C, all good.
- Water pressure test in hole # 267.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 9 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-01-12 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	☒ Other (specify): Laboratory
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Blizzard **-20˚C**

Field Results

- No activity on the site, Blizzard condition.
- Compressive strength tests done on sample GR-WTD-016 & 017 (7 days old).

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2018-01-13 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	☒ Other (specify): Laboratory
Project N°: 11130315-B1	
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Blizzard **-20˚C**

Field Results

- No activity on the site until 14h00, Blizzard condition.
- Compressive strength tests done on sample GR-WTD-007 (28 days old).
- Grouting of the hole # 393 (stages 1, 2 & 3 with mix B)
- Tests on mix B are ok.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2019-01-14 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

Blizzard

-36˚C

Field Results

- Grouting of the hole # 381-375- (stages 1, 2 & 3 with mix B)
- Tests on mix B show that everything is on target.
- Crew change for the QC representative.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM,

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2019-01-15 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

Blizzard

-38˚C

Field Results

- No activity on the site between 11h00 and 14h00, Blizzard condition.
- Compressive strength tests done on sample GR-WTD-018 (7 days old).
- Grouting of the hole # 357 (stages 1, 2 & 3 with mix B)
- Grouting of the hole # 357 (stages 1)
- Tests on mix B are ok.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM,

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2019-01-16 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-34˚C

Field Results

- Compressive strength tests done on sample GR-WTD-019 (7 days old).

- Grouting of the hole # 351 (by-passed for the stage 2, combine 2 & 3 with mix B)
- Grouting of the hole # 345-369-339 (stages 1, 2 & 3)
- Grouting of the hole # 333 (stage 1)
- Tests on mix B are ok.

- Took simple GR-WTD-020 in hole # 339 at stage 2.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM,

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2019-01-17 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

Blizzard

-40˚C

Field Results

- Grouting of the hole # 333 (stages 2 & 3 with mix B)
- Grouting of the hole # 327-321-291 (stage 1, 2 & 3 with mix B)
- Tests on mix B are ok.

- Measuring of rock drilled holes (# 297, 291, 267, 246, 222, 210, 198 and 186). All depth is good.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM,

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2019-01-18 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

Blizzard

-35˚C

Field Results

- Grouting of the hole # 297 (stages 1, 2 & 3 with mix B & C)
- Grouting of the hole # 246 (stage 1, 2 & 3 with mix B)
- Test been done on mix B, results are all good.
- The hole # 186 need to be drilled soon as possible.
- Compressive strength been performed on sample # GR-WTD-008 and 009 (7 days).
- The water pressure test been done on the hole #297.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM,

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2019-01-19 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

Blizzard

-30˚C

Field Results

- Grouting of the hole # 234-222 (stages 1, 2 & 3 with mix B & C)
- Grouting of the hole # 210 (stage 1 with mix B & C)
- Mix B and C shows that everything in on target
- Compressive strength been performed on sample # GR-WTD-010 (28 days).
- Took sample # GR-WTD-021 at 7h30 AM.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM,

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2019-01-20 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): **Laboratory**

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

Blizzard **-25˚C**

Field Results

- Grouting of the hole # 210 (stages 2 & 3 with mix B)
- Grouting of the hole # 198 (stage 1, 2 & 3 with mix B & C)
- Mix B and C shows that everything in on target

- Compressive strength been performed on sample # GR-WTD-011 (28 days).

- The hole # 186 was deleted due to permafrost.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM,

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2019-01-21 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): **Laboratory**

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

Blizzard **-30˚C**

Field Results

- Crew change. No activities for the contractor representative.
- No Compressive strength been performed.
- Drilled 3 caising for instrumentation.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM,

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2019-01-22 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): **Laboratory**

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

Blizzard **-32˚C**

Field Results

- No activities for the contractor representative due to meeting held to confirm the injection program 11 new holes.
- No Compressive strength been performed.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Patrice Gagnon

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM,

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2019-01-23 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise
Project: Whale Tail Dike	☐ Foundation Prep. ☐ Vibration Monitoring
	☐ Material Placement ☐ Water Management
	☐ Sampling ☒ Grout curtain
	☐ Compaction ☐ Liner / Geotextile
	☐ Secant Wall
Project Nº : 11130315-B1	☒ Other (specify): Laboratory

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-40˚C

Field Results

- We had the confirmation for grouting the 11 new holes. The contractor representative start to drill the hole.
- Compressive strength been performed on sample # GR-WTD-020. (7 Days)
- The hole # 201 and 207 was performed.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM,

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2019-01-24 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project Nº : 11130315-B1	☒ Other (specify): **Laboratory**

I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training
I SEE: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF

-45˚C

Field Results

- .No grout injection due to instrumentation.
- No Compressive strength have been performed.
- Continue with casing drilling.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Cédrick Fillon Tremblay
(Print Name)

From : AEM,

Signature* :

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2019-01-25 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project N° : 11130315-B1	☒ Other (specify): **Laboratory**
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Sunny **-42˚C**

Field Results

- Grouting of the hole # 201 and (stage 1 with mix B, C & D)
- Grouting of the hole # 207 and (stage 1, 2 & 3 with mix B)
- Cement temperature low with the new bag of cement
- Compressive strength been performed on sample # GR-WTD-018 (28 days).
- QA performed grout mixed tests today. QC was doing full time supervision of construction activities of other dike.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM,

Signature* : Cédrick Fillon Tremblay

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2019-01-26 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project N° : 11130315-B1	☒ Other (specify): **Laboratory**
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Sunny **-42˚C**

Field Results

- Grouting of the hole # 201 and (stage 3 with mix B)
- Compressive strength been performed on sample # GR-WTD-012 (28 days) and # GR-WTD-021 (7 days).
- No more activities due to instrumentation.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM,

Signature* : Cédrick Fillon Tremblay

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2019-01-27 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project N°: 11130315-B1	☒ Other (specify): Laboratory
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Sunny **-35˚C**

Field Results

- No activities for the grout injection due to instrumentation.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Cédrick Fillon Tremblay (Print Name)

From : AEM,

Signature* : Cédrick Fillon Tremblay

Project Manager : Daniel Pedneault

Time on site : 12 h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Client: Agnico Eagle	Inspection Date: 2019-01-30 Day shift
Site: Amaruq	☐ Drill and Blast ☐ Expertise ☐ Foundation Prep. ☐ Vibration Monitoring ☐ Material Placement ☐ Water Management ☐ Sampling ☒ Grout curtain ☐ Compaction ☐ Liner / Geotextile ☐ Secant Wall
Project: Whale Tail Dike	
Project N° : 11130315-B1	☒ Other (specify): Laboratory
I HAVE: ☒ my JSEAs ☒ my PPE ☒ Proper Training **I SEE**: ☐ Unexpected Hazards **I NEED**: ☐ an S-RAF	Sunny **-40˚C**

Field Results

- Grouting in the holes # 397.5 (stage 1 & 2 with mix B, stage 3 with mix B (no pressure at all for stage 3)) & # 400.5 (stage 1 with mix B & stage 2 with mix B & C).
- Test realized on fresh grout are ok.
- One batch of mix B (from the hole 400.5 stage 2) was very hot with a temperature of 34°C. They changed the water after this mix and the next temperature were ok.

Corrective action to be taken:

Follow up visit required: Yes ☒ No ☐

Site Representative : Pier-Éric McDonald

Inspector : Maxime Côté (Print Name)

From : AEM,

Signature* : Maxime Côté

Project Manager : Daniel Pedneault

Time on site : 6h

* *By signing this form I acknowledge that I have consulted the appropriate JSEA for the current project and I am in compliance with the JSEA procedures for this site at this time.*

AGNICO EAGLE

Daily Field Report

Appendix I-8

3-Week Meeting Reports

Amaruq Dike Construction 2018 – 3 Weeks Meeting

LAST WEEK: 12/08 @ 18/08

- **EAST ABUTMENT**
  - Stripping to uncover the frozen soil
  - Foundation approval 0+0739 @ 0+772
  - Rockfill and coarse filter against the slopes
- **WEST ABUTMENT**
  - Final Clean-up of the key from 0+030 @ 0+190
  - Foundation approval 0+030 @ 0+203
  - Fine & Coarse Filters placement
- **LAKE BED EXCAVATION**
  - Mass excavation 0+400 @ 0+555
  - Final clean-up 0+375 @ 0+655
- **COARSE FILTER (Rock to EL. 153.5)**
  - 0+350 @ 0+490
- **FINE FILTER (Rock to EL. 153.5)**
  - 0+342 @ 0+482
- **AGREGATE PLACEMENT (El. 153.5 to EL. 157)**
  - 0+075 @ 0+200 1st lift
- **MICELLANEOUS**
  - New work method adapted for deep section for Rockbed survey
  - Revision of bed lake excavation work method for deep water section
  - Reception of the Compaction Mass for Menard on Aug 11
  - KCG hit a fractured Bedrock zone around St 0+370
    - Lost time on excavation
    - Excavation down to El. 143
    - AEM gave KCG the directive to limit the excavation when hitting fractured bedrock.
  - Henry Drilling Drills/Equipment arrived
    - Should be transported to Baker in the coming week
    - Work on batch plant pad
  - PAD H south extension for fine filter stockpile
  - Decision by AEM to move the crusher at the KM 17

CURRENT WEEK: 19/08 @ 25/08

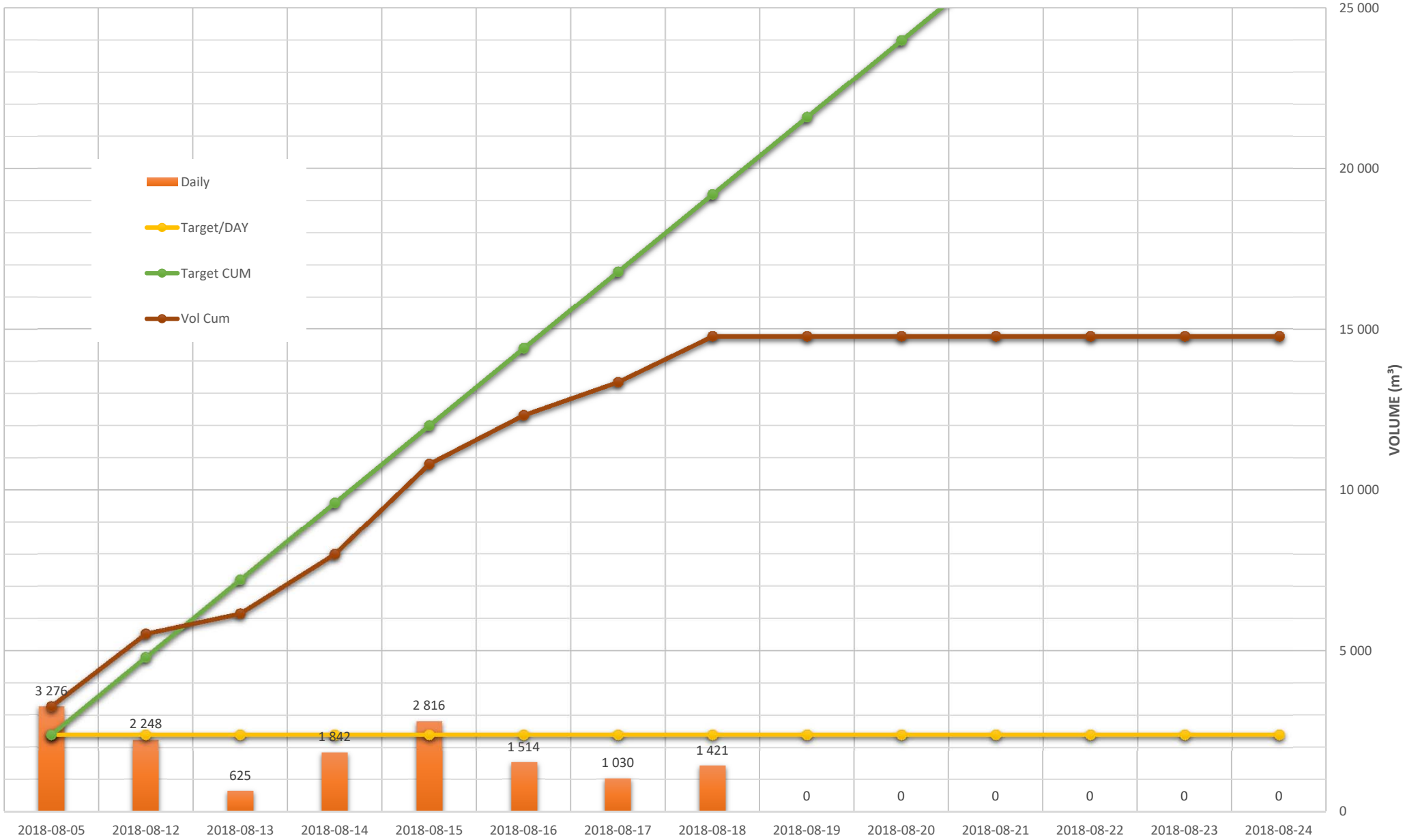
- **EAST ABUTMENT**
  - Foundation approval complete
  - FF and CF backfilled in the same section
- **WEST ABUTMENT**
  - Coarse + Fine filter up to El. 157
  - Slurry trench preparation
- **LAKE BED EXCAVATION**
  - Complete lake bed excavation
- **COARSE FILTER (Rock to EL. 153.5)**
  - Completed 0+063 to 0+650
- **FINE FILTER (Rock to EL. 153.5)**
  - Complete 0+482 @ 640
- **FINE FILTER (El. 153.5 @ 157)**
  - Completed until 0+500
- **Rockfill (El. 153.5 @ 157)**
  - Completed until 0+335
- **MICELLANEOUS**
  - Move the crusher at the KM 17, complete
- **SCHEDULE UPDATE**
  - Dike construction update
    - Actual achievement of 13.99% for Dike construction Direct Items including subcontracted works

NEXT WEEK: 26/08 @ 01/09

- **EAST ABUTMENT**
  - Coarse and fine filter placement
- **WEST ABUTMENT**
  - Slurry trench preparation (fine backfill and compacted with P10000)
- **COARSE FILTER (Rock to EL. 153.5)**
  - Complete
- **FINE FILTER (Rock to EL. 153.5)**
  - Complete
- **FINE FILTER (El. 153.5 @ 157)**
  - Complete
- **Rockfill (El. 153.5 @ 157)**
  - Completed until 0+380 @ 0+500
- **MICELLANEOUS**
  - Dynamic Compaction Mob on august 27
- **SCHEDULE UPDATE**
  - Dike construction update
    - Actual achievement of 22% for Dike construction Item

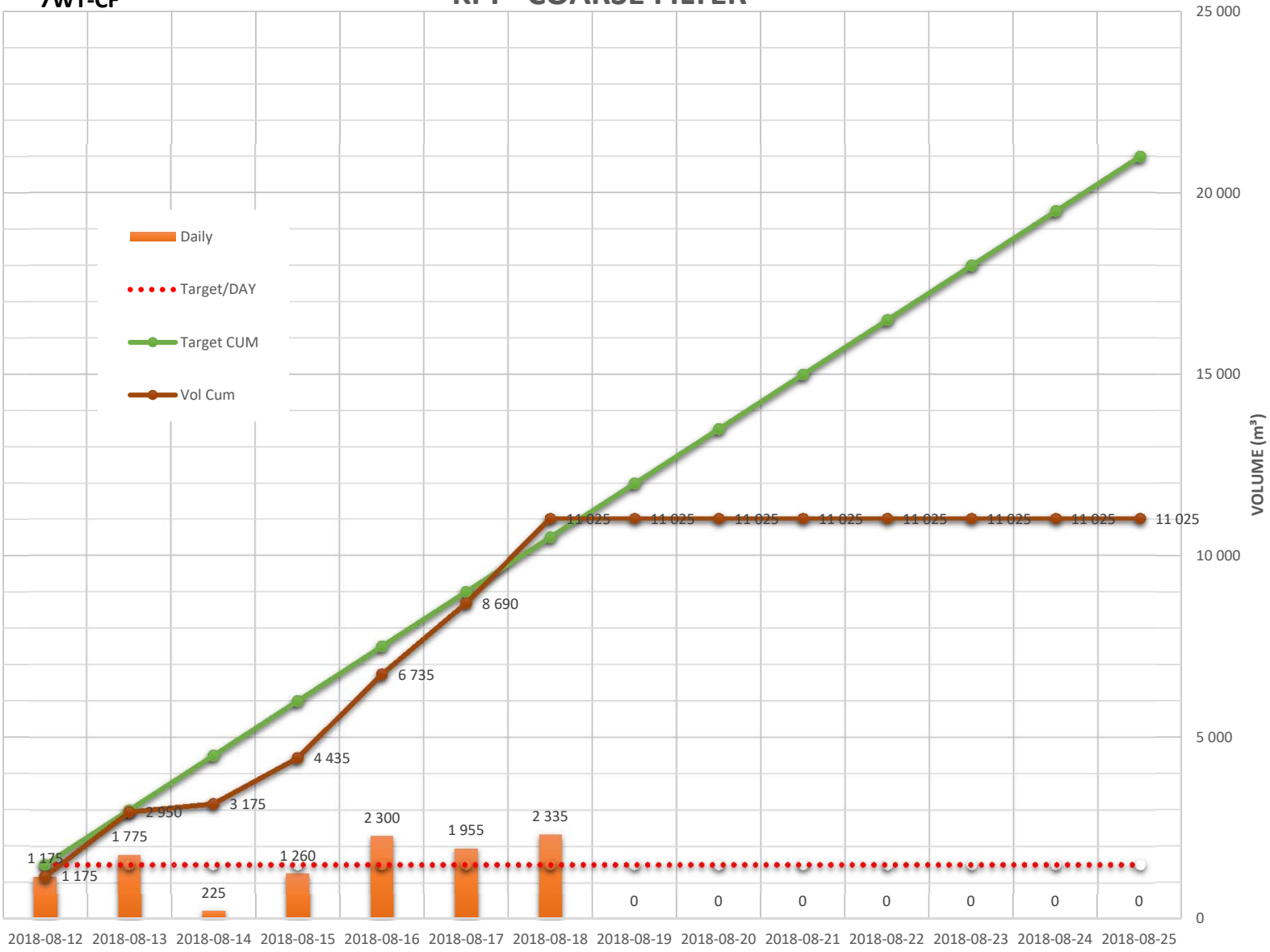
7WT-EX2

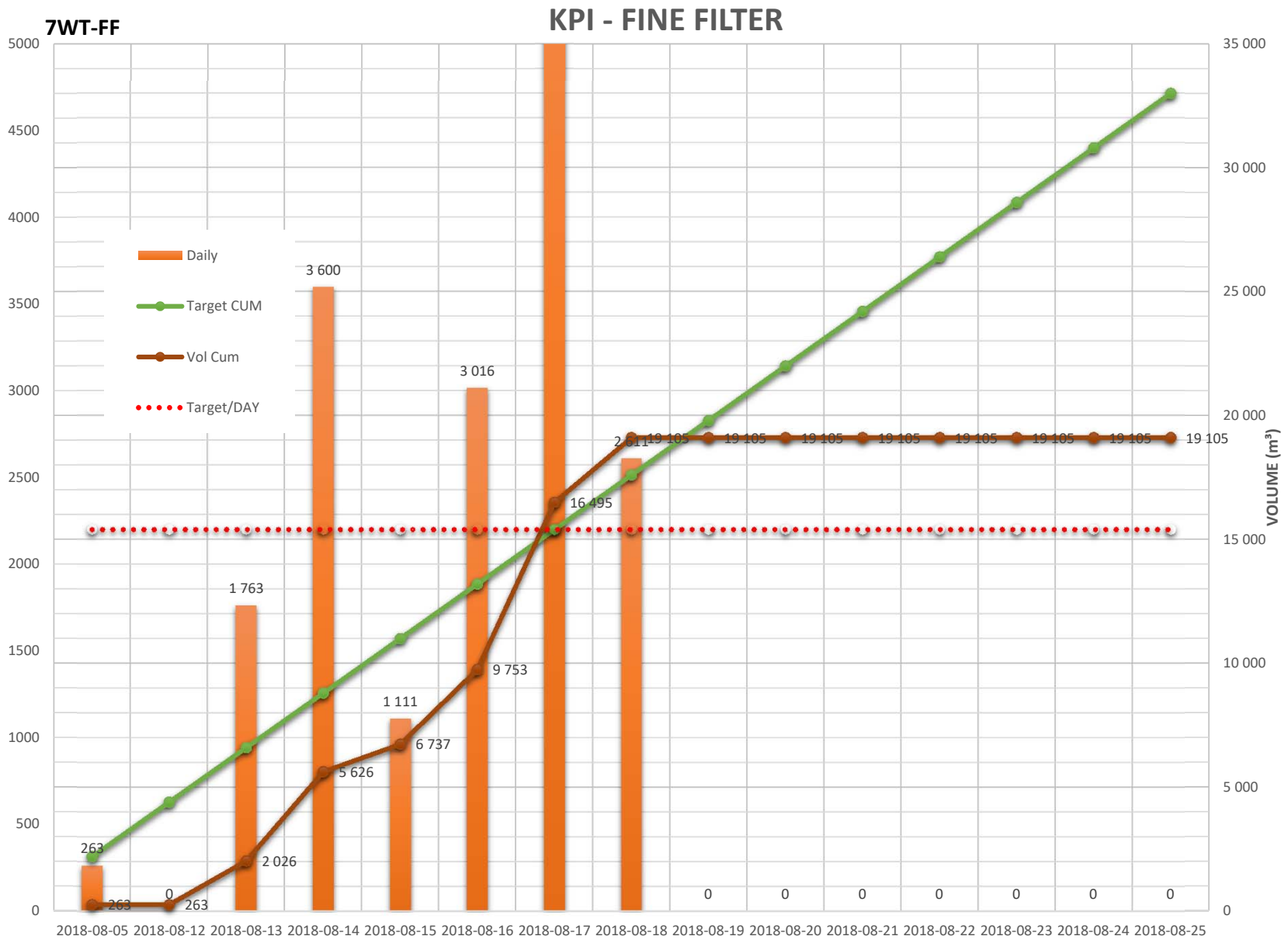
KPI - LAKE BED - EXCAVATION

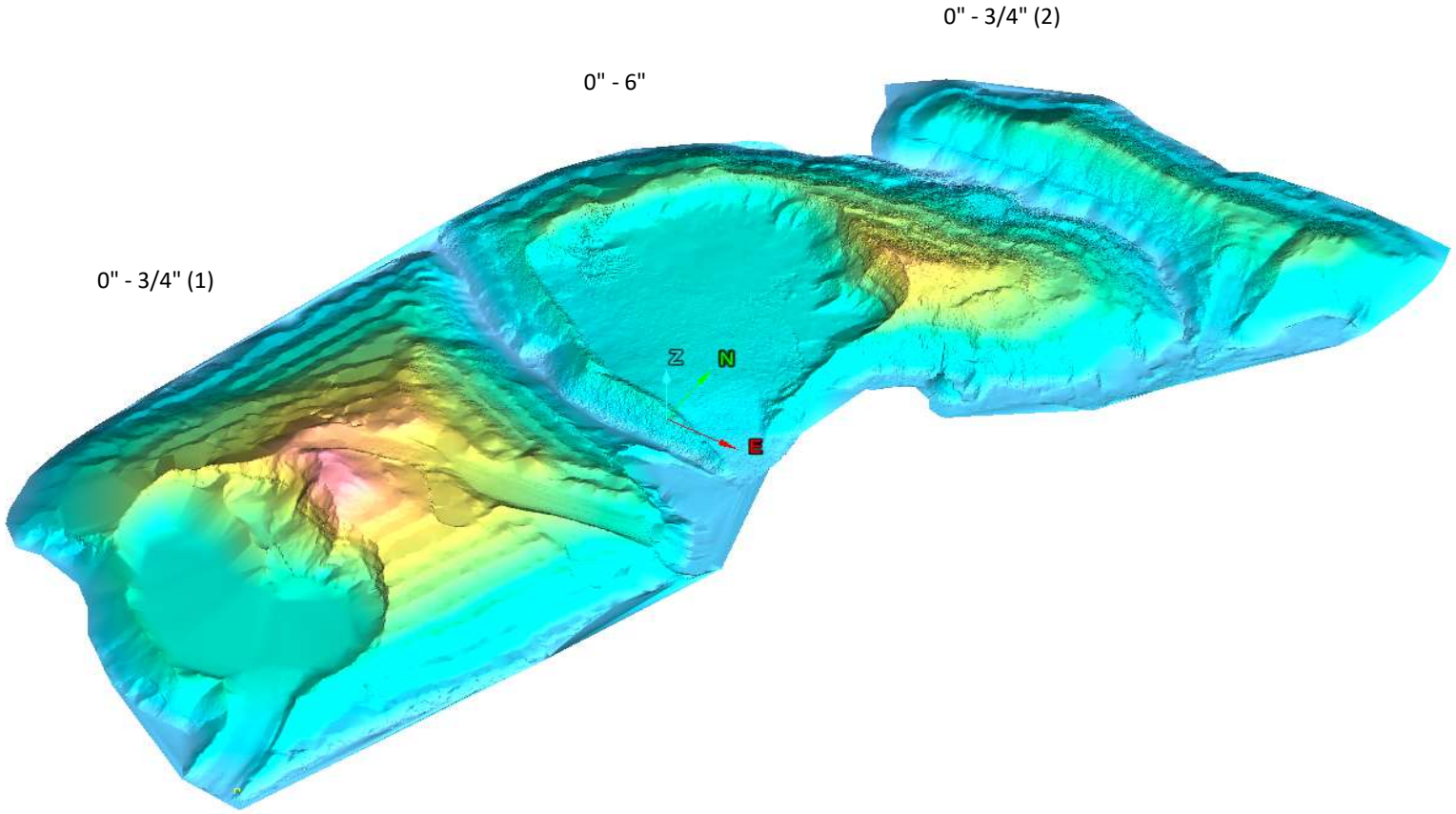


7WT-CF

KPI - COARSE FILTER




7WT-FF
KPI - FINE FILTER
Daily
Target CUM
Vol Cum
Target/DAY
VOLUME (m³)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
35 000
30 000
25 000
20 000
15 000
10 000
5 000
0
263
0
263
2 026
5 626
6 737
9 753
16 495
19 105
1 763
3 600
1 111
3 016
2 611
0
2018-08-05
2018-08-12
2018-08-13
2018-08-14
2018-08-15
2018-08-16
2018-08-17
2018-08-18
2018-08-19
2018-08-20
2018-08-21
2018-08-22
2018-08-23
2018-08-24
2018-08-25



STOCKPILES	VOLUMES (m³)
0" - 3/4" (1)	48 325
0" - 3/4" (2)	6 747
0" - 6"	25 373

AGNICO EAGLE
MEADOWBANK

TITLE	AGNICO-EAGLE — MEADOWBANK DIVISION
	AMARUQ DIKE AGGREGATES STOCKPILE
PROJECT NO.	DATE 8/21/2018
DRAWN BY	**V JODOIN**
APPROVED BY	SHEET 1/1
DRAWING NO.	Revision

KIVALLIQ CONTRACTORS GROUP LTD

PHYSICAL PROGRESS %

MAJ 17 Aug 2018

Company: **Kivalliq Contractors group Ltd**
Purchase number **123040**
Contract No: **6115-S-265-001**
Contract Title: **Whail Tail Earthworks**

Description	Previous Period (cumul.)		Actual Period (cumul.)		Cumul. physical progress (SOW)
	Qty or %	% completed	Qty or %	% completed	Qty or %
01. Turbidity Barrier Installation	0	0.000	**66528**	91.43%	0.0091
02. Secant Wall Mob-Demob	0	0.000	**100**	100.00%	0.0470
03. Dynamic Compaction Mob-Demob	33	0.000	**33**	33.00%	0.0028
04. East Abutment Excavation	0	0.000	**6753**	73.01%	0.0223
05. West Abutment Excavation	0	0.000	**4034**	39.62%	0.0047
06. Rockfill Placement (Dozer)	0	0.000	**51594**	86.02%	0.0091
07. Rockfill Placement (Operator)	0	0.000	**0**	86.02%	0.0029
08. Rockfill Placement (Shovel)	0	0.000	**0**	0.00%	0.0000
09. Lake Bed Excavation	0	0.000	**9824**	59.75%	0.0169
10. Coarse Filter from 154 to 157	0	0.000	**0**	0.00%	0.0000
11. Coarse Filter from bot to 154	0	0.000	**8811**	62.60%	0.0112
12. Fine Filter after compaction	0	0.000	**0**	0.00%	0.0000
13. Fine Filter 154 to 157	0	0.000	**7343**	29.13%	0.0061
14. Fine Filter in Key Trench	0	0.000	**8438**	30.12%	0.0077
15. Dynamic Compaction	0	0.000	**0**	0.00%	0.0000
16. Secant Wall	0	0.000	**0**	0.00%	0.0000
17. Injection	0	0.000	**0**	0.00%	0.0000
18. Instrumentstion installation	0	0.000	**0**	0.00%	0.0000
19. RockFill Placement 154 to 157	0	0.000	**0**	0.00%	0.0000
DIRECT WORKS (1 @ 19)					**13.99%**

Amaruq Dike Construction 2018 – 3 Weeks Meeting

LAST WEEK: 19/08 @ 25/08

- **HEALTH AND SAFETY**
  Nothing to report
- **EAST ABUTMENT**
  Foundation approval complete
  Elevation 153.5
    FF and CF backfilled is done
  Elevation 153.5 @ 157
    CF : 0+740 to 0+655
    FF : 0+814 to 0+748
- **WEST ABUTMENT**
  Coarse + Fine filter up to El. 157
  Slurry trench preparation (fine backfill and compacted with P10000)
- **LAKE BED EXCAVATION**
  Complete and approved until 0+705
- **COARSE FILTER (Rock to EL. 153.5)**
  North side is completed
  South side complete until 0+703
- **FINE FILTER (Rock to EL. 153.5)**
  Complete until 0+695
- **FINE FILTER (EL. 153.5 @ 157)**
  Complete until 0+660
- **COARSE FILTER (EL. 153.5 @ 157)**
  Complete until 0+650
- **ROCKFILL (El. 153.5 @ 157)**
  Completed until 0+620
- **SECANT PILE WALL**
  HFDI worked on the batch plant installation.
- **DYNAMIC COMPACTION**
  Menard had be booked for the next week.
- **MICELLANEOUS**
  - Move the crusher at the KM 17, complete.

CURRENT WEEK: 26/08 @ 01/09

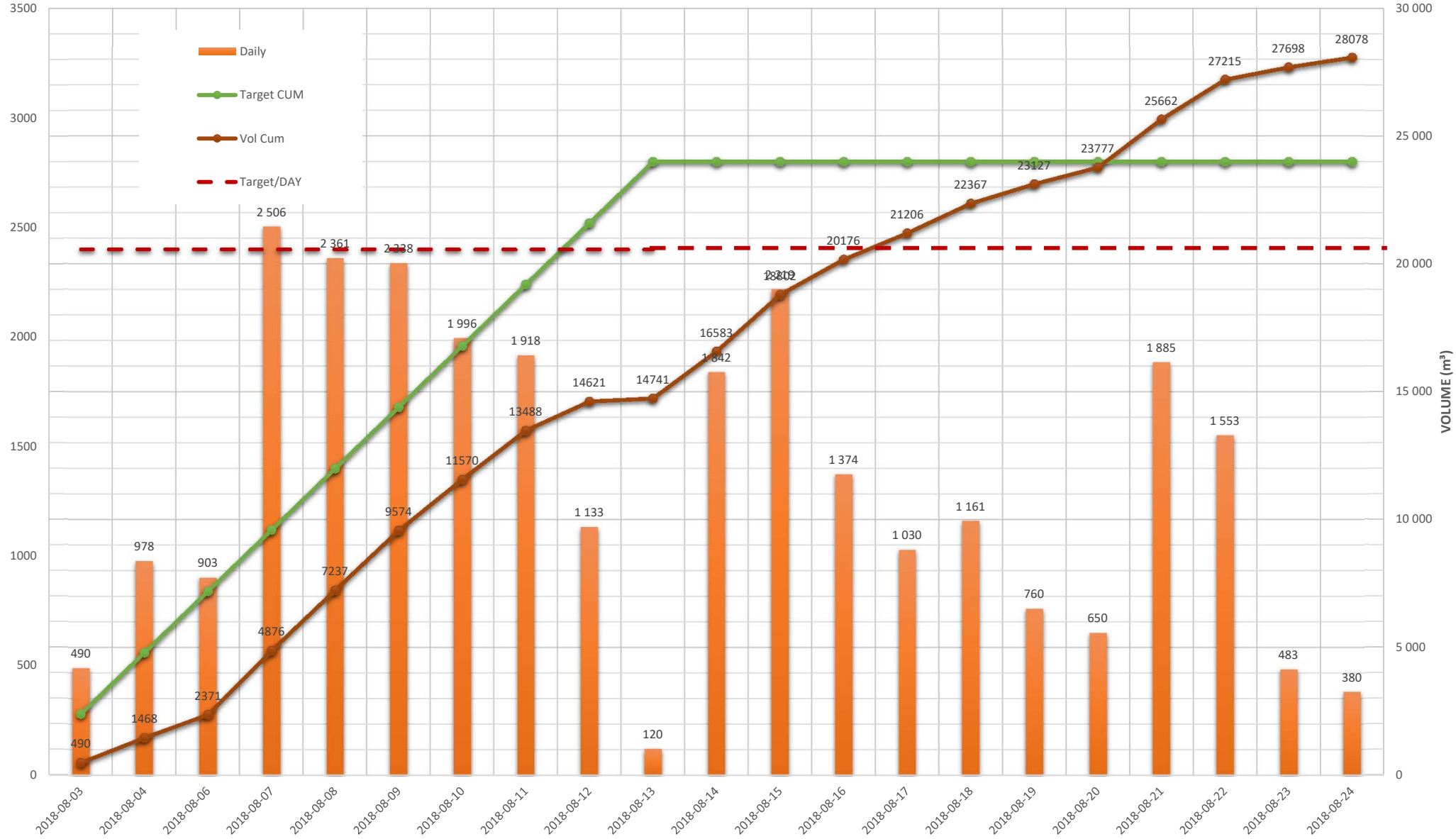
- **HEALTH AND SAFETY**
  Near miss: HTR wheel got stuck in the 0-6'' slope
- **EAST ABUTMENT**
  Elevation 153.5 @ 157
    Sloping and approval
    CF placement
    FF placement
    Rockfill placement
- **WEST ABUTMENT**
  Slurry trench preparation (Backfill with CB)
- **LAKE BED EXCAVATION**
  Complete 0+705 to the end, around 0+727
- **COARSE FILTER (Rock to EL. 153.5)**
  Complete south side 0+705 to the end
- **FINE FILTER (Rock to EL. 153.5)**
  Complete 0+695 to the end
- **FINE FILTER (El. 153.5 @ 157)**
  Complete 0+660 to the end
- **COARSE FILTER (EL. 153.5 @ 157)**
  Complete 0+652 to the end
- **ROCKFILL (El. 153.5 @ 157)**
  Complete 0+620 to the end
- **DYNAMIC COMPACTION**
  Beginning of the dynamic compaction (29/08)
  Filters and Rockfill 153.5 to 157 between 335 & 380
- **SECANT PILE WALL**
  HFDI work to finish the installation of the batch plant after reception of New-York boat materials
  Water intake installation
- **MICELLANEOUS**
  Working on the others dikes activities schedule
  August 28 a visit is planned by INAC and Environment Canada
- **SCHEDULE UPDATE**
  Dike construction update
  - Actual achievement of 23% for Dike construction Direct Items including subcontracted works.

NEXT WEEK: 02/09 @ 08/09

- **EAST ABUTMENT**
  Complete
- **WEST ABUTMENT**
  Complete
- **DYNAMIC COMPACTION**
  Dynamic compaction production
  Fine filter placement will follow in craters
- **SECANT PILE WALL**
  Beginning of the secan pile wall production
- **MICELLANEOUS**
  On-site laboratory, commissioning for CB testing
- **SCHEDULE UPDATE**
  Dike construction update
  - Achievement will be 30% for Dike construction Item

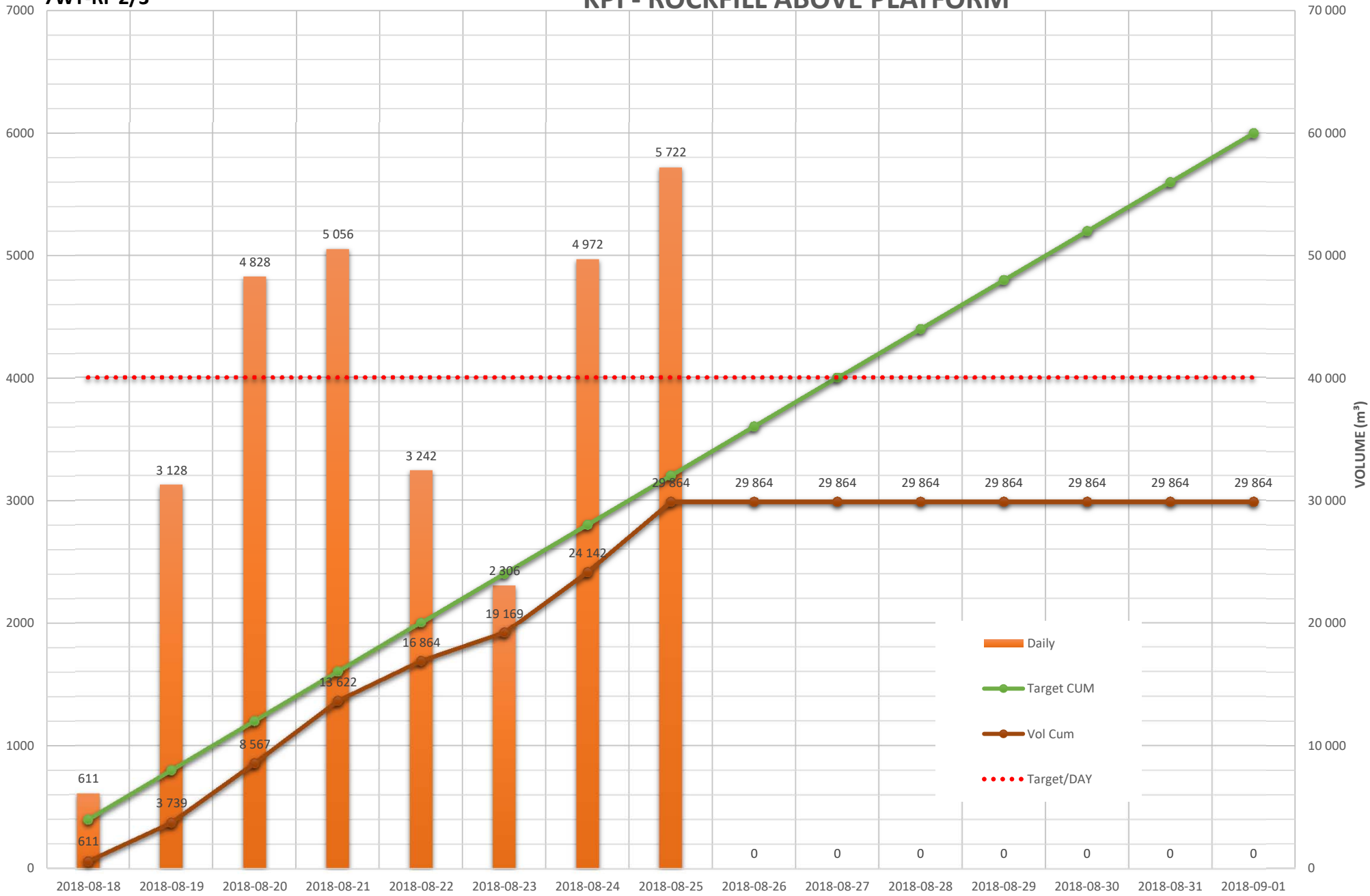
7WT-EX2

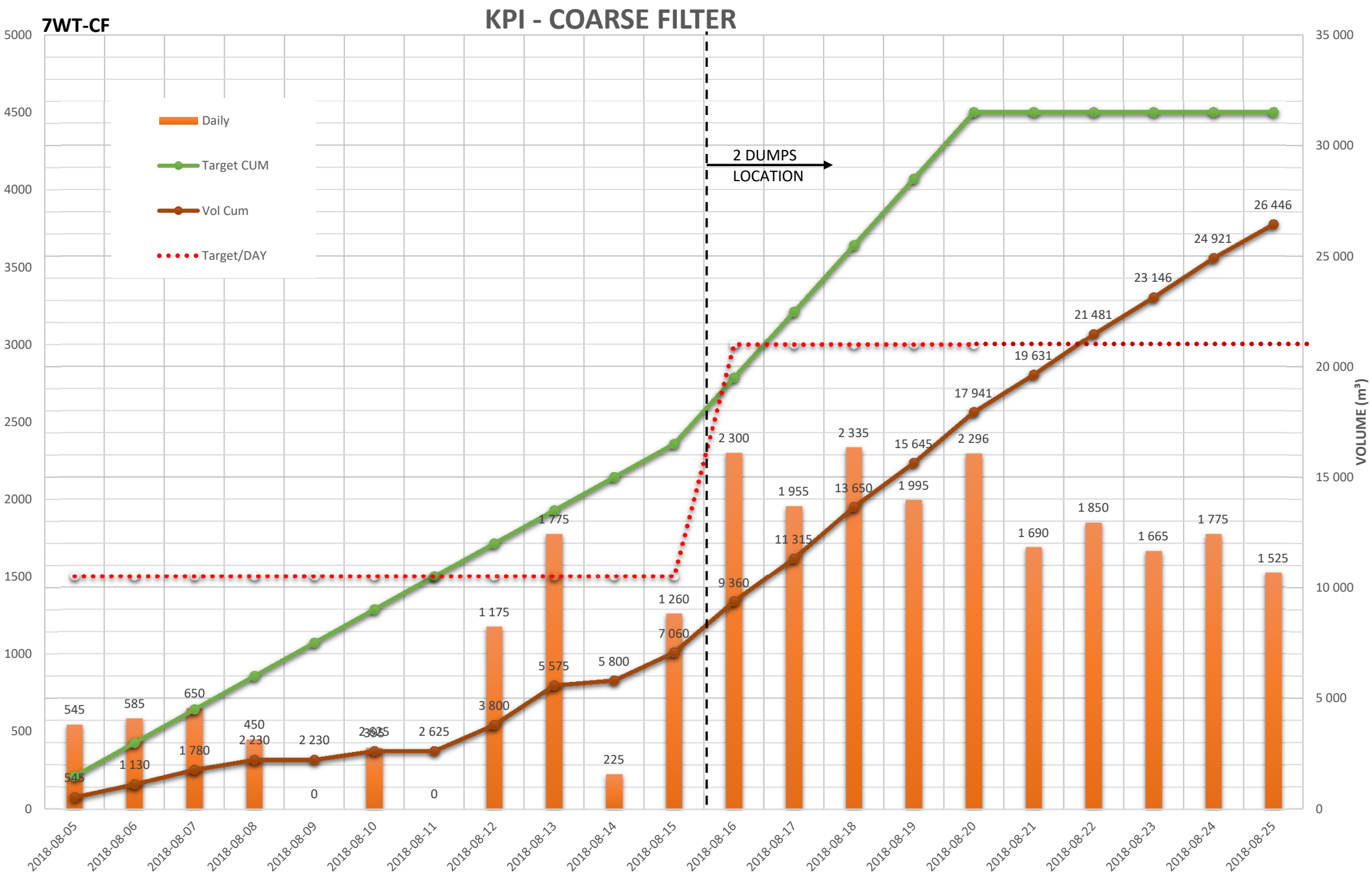
KPI - LAKE BED - EXCAVATION

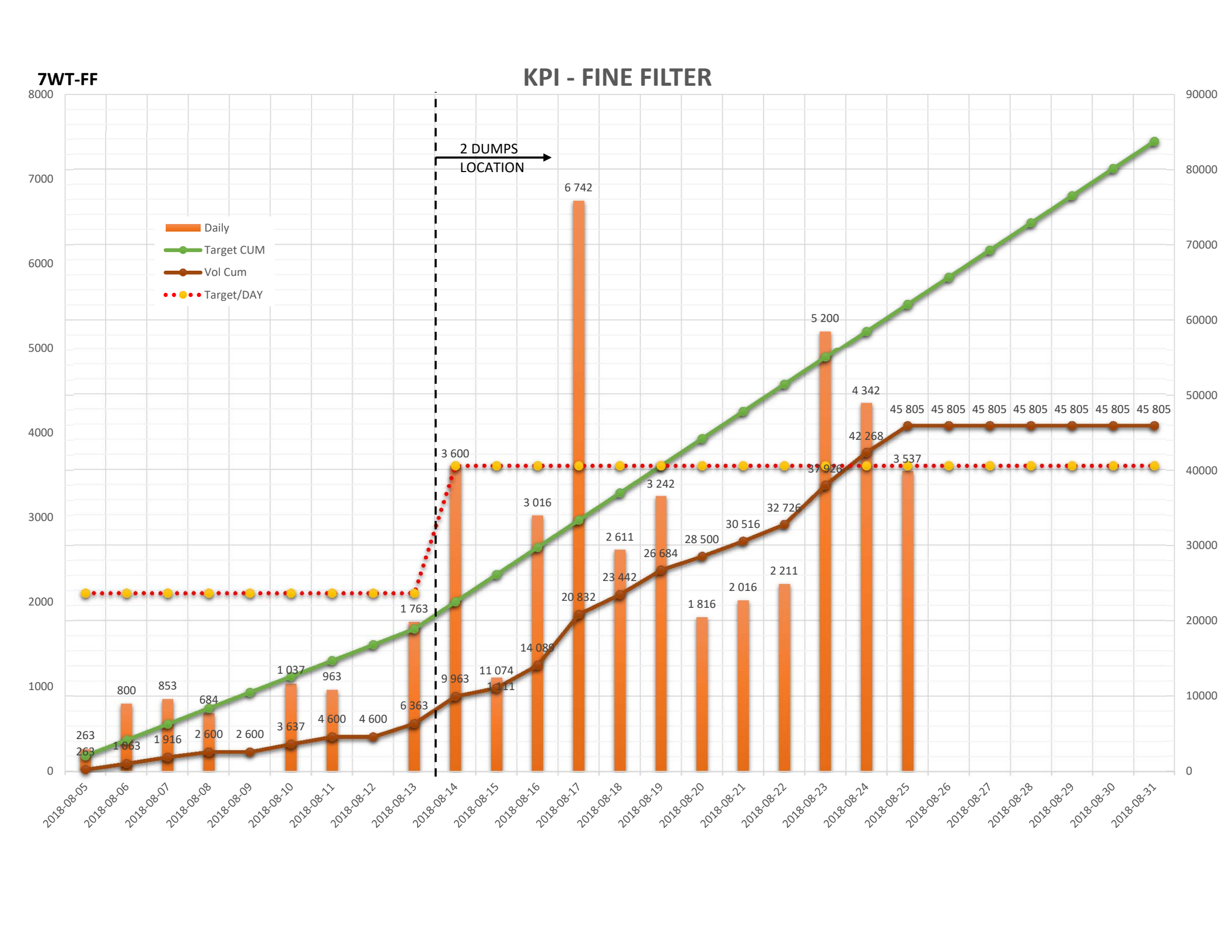


7WT-RF 2/3

KPI - ROCKFILL ABOVE PLATFORM




7WT-CF
KPI - COARSE FILTER
Daily
Target CUM
Vol Cum
Target/DAY
2 DUMPS
LOCATION
VOLUME (m³)
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
0
5 000
10 000
15 000
20 000
25 000
30 000
35 000
545
585
650
450
2 230
2 230
2 625
2 625
1 175
3 800
1 775
5 575
225
5 800
1 260
7 060
2 300
9 360
1 955
11 315
2 335
13 650
1 995
15 645
2 296
17 941
1 690
19 631
1 850
21 481
1 665
23 146
1 775
24 921
1 525
26 446
545
1 130
1 780
2 230
0
2 625
0
3 800
5 575
5 800
7 060
9 360
11 315
13 650
15 645
17 941
19 631
21 481
23 146
24 921
26 446
2018-08-05
2018-08-06
2018-08-07
2018-08-08
2018-08-09
2018-08-10
2018-08-11
2018-08-12
2018-08-13
2018-08-14
2018-08-15
2018-08-16
2018-08-17
2018-08-18
2018-08-19
2018-08-20
2018-08-21
2018-08-22
2018-08-23
2018-08-24
2018-08-25


7WT-FF
KPI - FINE FILTER
2 DUMPS LOCATION
Daily
Target CUM
Vol Cum
Target/DAY
8000
7000
6000
5000
4000
3000
2000
1000
0
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
263
263
800
1 063
853
1 916
684
2 600
2 600
1 037
3 637
963
4 600
4 600
1 763
6 363
3 600
9 963
11 074
14 089
3 016
6 742
20 832
2 611
23 442
3 242
26 684
28 500
1 816
30 516
2 016
32 726
2 211
37 926
5 200
4 342
42 268
3 537
45 805
45 805
45 805
45 805
45 805
45 805
45 805
2018-08-05
2018-08-06
2018-08-07
2018-08-08
2018-08-09
2018-08-10
2018-08-11
2018-08-12
2018-08-13
2018-08-14
2018-08-15
2018-08-16
2018-08-17
2018-08-18
2018-08-19
2018-08-20
2018-08-21
2018-08-22
2018-08-23
2018-08-24
2018-08-25
2018-08-26
2018-08-27
2018-08-28
2018-08-29
2018-08-30
2018-08-31

KIVALLIQ CONTRACTORS GROUP LTD

WHALE TAIL QUANTITIES 2018 (m^3)

MATERIAL	13-08-2018	17-08-2018	26-08-2018		TOTAL
EXCAVATION					
ROCKFILL	-	7927	7928		15855
ABUTMENT	19563	0	451		20014
LAKE BED	5432	4392	7705		17529
BACKFILL					
ROCKFILL	71597	0	4585		76182
RAMP MATERIAL	2006	0	0		2006
FINE FILTER	2612	5826	22407		30845
COARSE FILTER	3554	5257	11540		20351
INVERT FINE FILTER		7342	11724		19066
INVERT COARSE FILTER			6275		6275
INVERT ROCKFILL			22921		22921

TOTAL 0-20	49911
TOTAL 0-150	26626
TOTAL 0-1000	99103

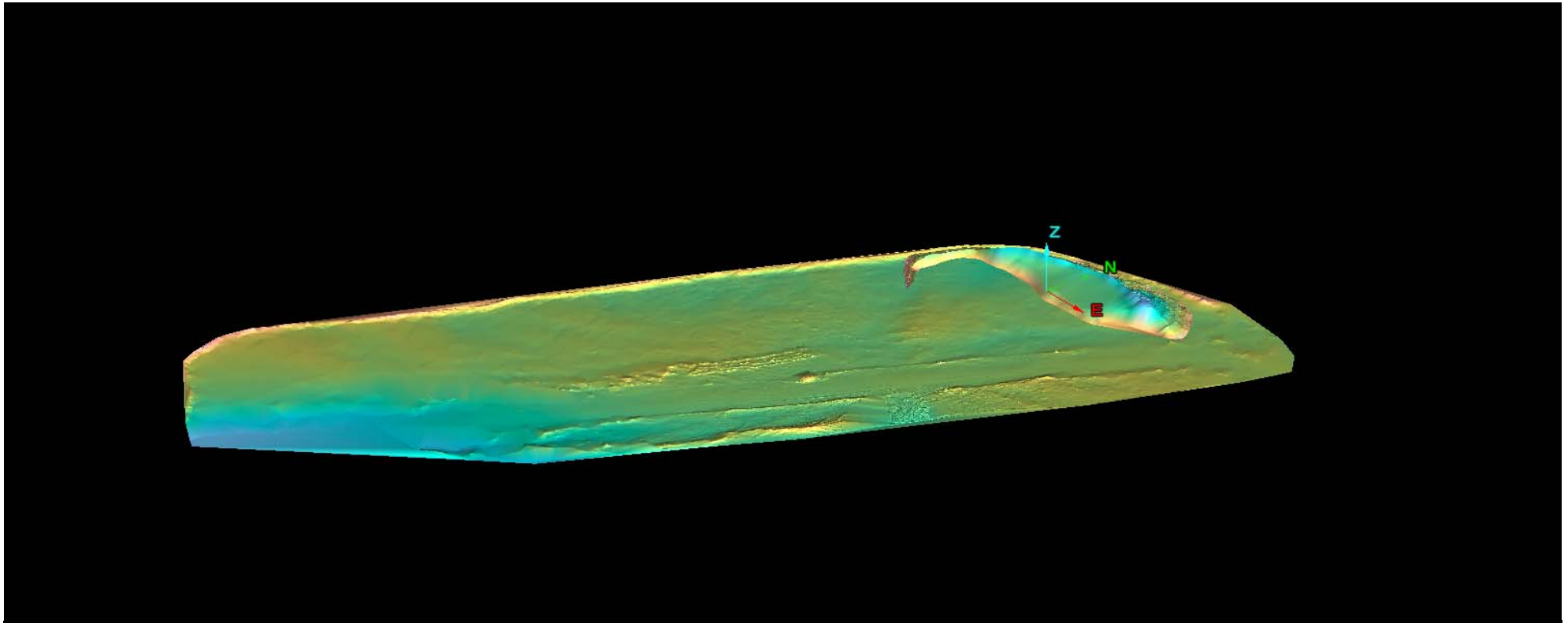
KIVALLIQ CONTRACTORS GROUP LTD

PHYSICAL PROGRESS %

MAJ 26 Aug 2018

Company: **Kivalliq Contractors group Ltd**
Purchase number **123040**
Contract No: **6115-S-265-001**
Contract Title: **Whail Tail Earthworks**

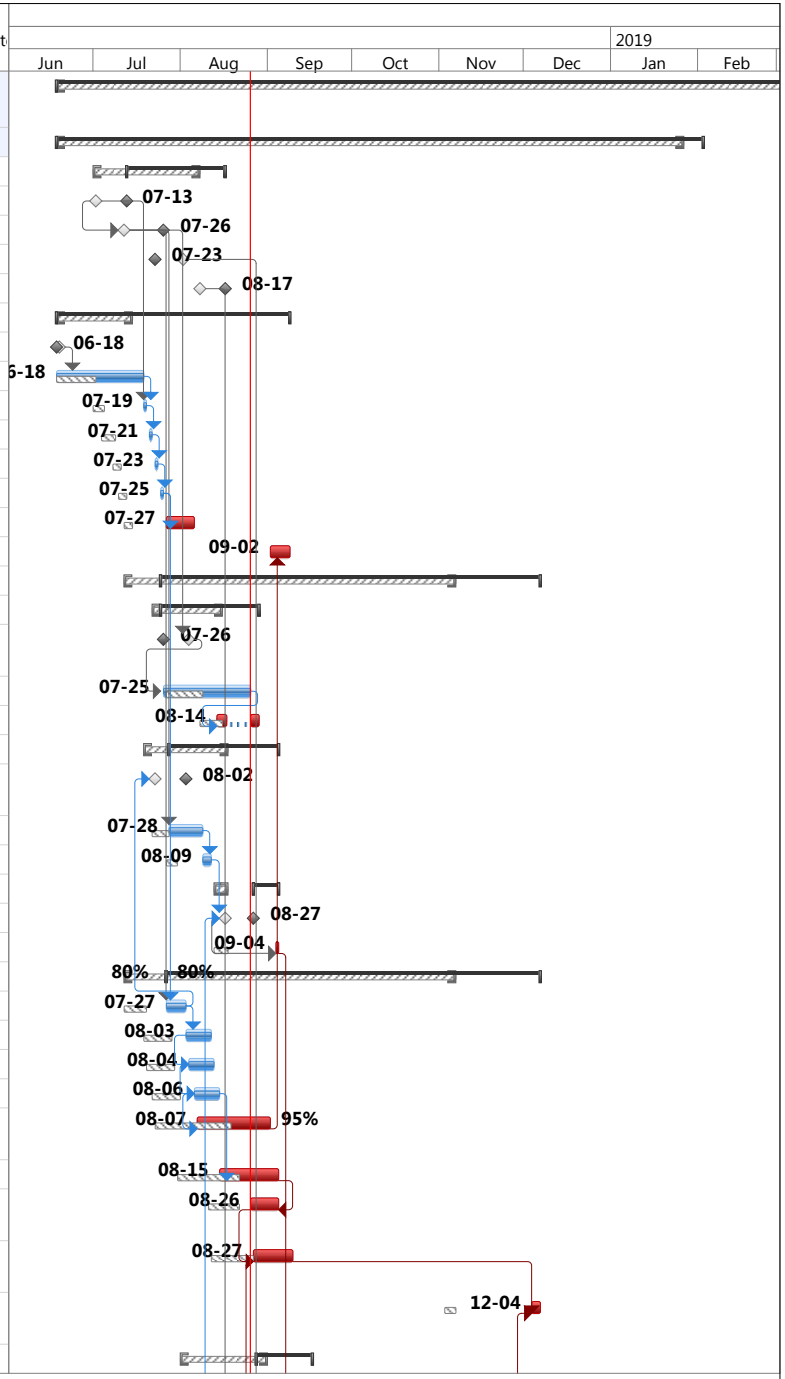
Description	Previous Period (cumul.)			Actual Period (cumul.)		Cumul. physical progress (SOW)
	Qty or %	% completed	SOW (%)	Qty or %	% completed	Qty or %
01. Turbidity Barrier Installation	66528	91,43%	0,0091	**66528**	91,43%	0,0091
02. Secant Wall Mob-Demob	100	100,00%	0,0470	**100**	100,00%	0,0470
03. Dynamic Compaction Mob-Demob	33	33,00%	0,0028	**75**	75,00%	0,0064
04. East Abutment Excavation	6753	73,01%	0,0223	**9250**	100,00%	0,0305
05. West Abutment Excavation	4034	39,62%	0,0047	**10633**	104,43%	0,0125
06. Rockfill Placement (Dozer)	51594	86,02%	0,0091	**76182**	127,02%	0,0134
07. Rockfill Placement (Operator)	0	86,02%	0,0029	**0**	127,02%	0,0043
08. Rockfill Placement (Shovel)	0	0,00%	0,0000	**0**	0,00%	0,0000
09. Lake Bed Excavation	9824	59,75%	0,0169	**17529**	106,60%	0,0302
10. Coarse Filter from 154 to 157	0	0,00%	0,0000	**6275**	63,04%	0,0061
11. Coarse Filter from bot to 154	8811	62,60%	0,0112	**20351**	144,59%	0,0258
12. Fine Filter after compaction	0	0,00%	0,0000	**0**	0,00%	0,0000
13. Fine Filter 154 to 157	7343	29,13%	0,0061	**19066**	75,63%	0,0158
14. Fine Filter in Key Trench	8438	30,12%	0,0077	**30845**	110,09%	0,0281
15. Dynamic Compaction	0	0,00%	0,0000	**0**	0,00%	0,0000
16. Secant Wall	0	0,00%	0,0000	**0**	0,00%	0,0000
17. Injection	0	0,00%	0,0000	**0**	0,00%	0,0000
18. Instrumentstion installation	0	0,00%	0,0000	**0**	0,00%	0,0000
19. RockFill Placement 154 to 157	0	0,00%	0,0000	**22921**	41,62%	0,0008
DIRECT WORKS (1 @ 19)			**13,99%**			**23,02%**



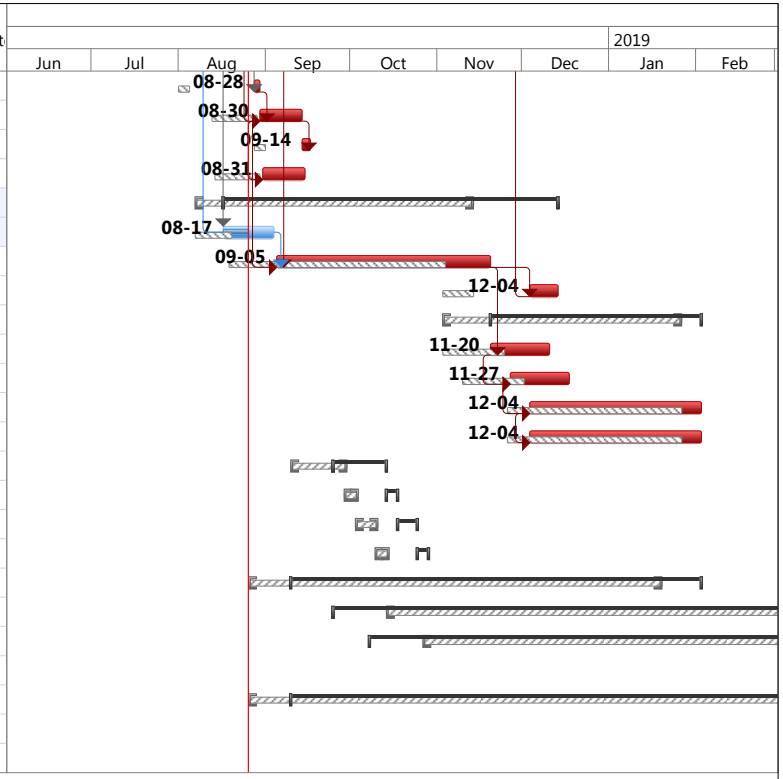
KIVALLIQ CONTRACTORS GROUP LTD

STOCKPILES	REMAINING VOLUMES (m^3)	TO BE BACKFILLED (m^3)
0'' - 3/4''	34,637	10,867
0'' - 6''	10,315	2,813

ID	Nom de la tâche	Duration	Start	Finish	% Complet
1	**AGNICO EAGLE - WHALE TAIL EARTHWORK - CONSTRUCTION**	**300 days**	**Mon 18-06-18**	**Tue 19-04-30**	**21%**
2	**Whale Tail Dike**	**214 days**	**Mon 18-06-18**	**Sun 19-02-03**	**39%**
3	**Milestones - Key dates**	**35 days**	**Fri 18-07-13**	**Fri 18-08-17**	**0%**
4	Permit Obtention	0 days	Fri 18-07-13	Fri 18-07-13	0%
5	End of Permit Notice delay	0 days	Thu 18-07-26	Thu 18-07-26	0%
6	Barge Material Arrival - Dynamic Compaction	0 days	Mon 18-07-23	Mon 18-07-23	0%
7	Barge Material Arrival - Secant piles	0 days	Fri 18-08-17	Fri 18-08-17	0%
8	**Turbidity Barrier**	**83 days**	**Mon 18-06-18**	**Sun 18-09-09**	**85%**
9	Start	0 days	Mon 18-06-18	Mon 18-06-18	0%
10	Turbidity Barrier Preparation	31 days	Mon 18-06-18	Thu 18-07-19	100%
11	Installation #1	1 day	Thu 18-07-19	Fri 18-07-20	100%
12	Installation #2	1 day	Sat 18-07-21	Sun 18-07-22	100%
13	Installation #3	1 day	Mon 18-07-23	Tue 18-07-24	100%
14	Installation #4	1 day	Wed 18-07-25	Thu 18-07-26	100%
15	Installation #5 (optional)	10 days	Fri 18-07-27	Mon 18-08-06	90%
16	Barriers Removal	7 days	Sun 18-09-02	Sun 18-09-09	0%
17	**Excavation & Embankment**	**135 days**	**Wed 18-07-25**	**Fri 18-12-07**	**80%**
18	**East Abutment**	**35 days**	**Wed 18-07-25**	**Wed 18-08-29**	**76%**
19	Drilling&Blasting East Abutment (Within specified limit)	0 days	Thu 18-07-26	Thu 18-07-26	100%
20	Excavation East Abutment (m³)	32 days	Wed 18-07-25	Sun 18-08-26	100%
21	Coarse, Fine Filter & Rockfill Placement	15 days	Tue 18-08-14	Wed 18-08-29	23%
22	**West Abutment**	**39 days**	**Sat 18-07-28**	**Wed 18-09-05**	**94%**
23	Drilling&Blasting West Abutment (Within specified limit)	0 days	Thu 18-08-02	Thu 18-08-02	100%
24	Excavation Abutment West (m³)	12 days	Sat 18-07-28	Thu 18-08-09	100%
25	Coarse, Fine Filter & Rockfill Placement	3 days	Thu 18-08-09	Sun 18-08-12	100%
26	**Slurry Wall**	**9 days**	**Mon 18-08-27**	**Wed 18-09-05**	**0%**
27	Slurry Wall Excavation	0 days	Mon 18-08-27	Mon 18-08-27	100%
28	Slurry Wall Backfill	1 day	Tue 18-09-04	Wed 18-09-05	0%
29	**Dike construction**	**133 days**	**Fri 18-07-27**	**Fri 18-12-07**	**80%**
30	Rockfill placement (Bottom to 154) -2 team	7 days	Fri 18-07-27	Fri 18-08-03	100%
31	Lake Bed Mass Excavation (West to East)	9 days	Fri 18-08-03	Sun 18-08-12	100%
32	Lake Bed Final Clean-up	9 days	Sat 18-08-04	Mon 18-08-13	100%
33	Coarse Filter - Key Trench (Bottom to 154)	9 days	Mon 18-08-06	Wed 18-08-15	100%
34	Fine Filter - Key Trench (Bottom to 154)	26 days	Tue 18-08-07	Sun 18-09-02	95%
35	Fine Filter Placement (From 154 to 157)	21 days	Wed 18-08-15	Wed 18-09-05	75%
36	Coarse Filter Placement (From 154 to 157)	10 days	Sun 18-08-26	Wed 18-09-05	63%
37	Rockfill Placement (From 154 to 157)	14 days	Mon 18-08-27	Mon 18-09-10	42%
38	Rockfill Placement (From 157 to Top) - access road	3 days	Tue 18-12-04	Fri 18-12-07	0%
39	**Dynamic Compaction**	**20 days**	**Tue 18-08-28**	**Mon 18-09-17**	**4%**



ID	Nom de la tâche	Duration	Start	Finish	% Complet
40	Dynamic Compaction Setup	2 days	Tue 18-08-28	Thu 18-08-30	75%
41	Dynamic Compaction Production (m²)	15 days	Thu 18-08-30	Fri 18-09-14	0%
42	Dynamic Compaction Demob	3 days	Fri 18-09-14	Mon 18-09-17	0%
43	Fine Filter Placement (backfill after compaction)	15 days	Fri 18-08-31	Sat 18-09-15	0%
44	**Secant pile wall**	**119 days**	**Fri 18-08-17**	**Fri 18-12-14**	**9%**
45	Mobilisation (Mixing plant & 1st rig Set-up)	18 days	Fri 18-08-17	Tue 18-09-04	50%
46	Secant pile wall - Production	76 days	Wed 18-09-05	Tue 18-11-20	0%
47	Demobilization	10 days	Tue 18-12-04	Fri 18-12-14	0%
48	**Grouting**	**59 days**	**Tue 18-11-20**	**Sun 19-02-03**	**0%**
49	Casing Installation for Injection (meters)	21 days	Tue 18-11-20	Tue 18-12-11	0%
50	Drilling Bedrock (meters)	21 days	Tue 18-11-27	Tue 18-12-18	0%
51	Injection (# holes)	45 days	Tue 18-12-04	Sun 19-02-03	0%
52	Instrumentation	45 days	Tue 18-12-04	Sun 19-02-03	0%
53	**Saline Protection Channel**	**19 days**	**Tue 18-09-25**	**Sun 18-10-14**	**0%**
58	**WRSF Collection Channel**	**4 days**	**Sun 18-10-14**	**Thu 18-10-18**	**0%**
61	**East Channel**	**7 days**	**Thu 18-10-18**	**Thu 18-10-25**	**0%**
64	**East Channel Coffer Dam**	**4 days**	**Thu 18-10-25**	**Mon 18-10-29**	**0%**
69	**North East Dike**	**130 days**	**Mon 18-09-10**	**Sun 19-02-03**	**0%**
77	**WRSF Dike**	**167 days**	**Tue 18-09-25**	**Wed 19-03-27**	**0%**
87	**Mammoth Dike**	**170 days**	**Mon 18-10-08**	**Fri 19-04-12**	**0%**
96	**Main Camp Pond**	**6 days**	**Tue 19-04-02**	**Mon 19-04-08**	**0%**
99	**South Wail Tail Diverson Channel A45 Lake - 612 m.li.**	**185 days**	**Mon 18-09-10**	**Sat 19-03-30**	**0%**
108	**WRSF Saddle Dam**	**13 days**	**Wed 19-04-17**	**Tue 19-04-30**	**0%**
114	**Attenuation pond**	**9 days**	**Mon 19-04-08**	**Wed 19-04-17**	**0%**



Amaruq Dike Construction 2018 – 3 Weeks Meeting

LAST WEEK: 02/09 @ 08/09

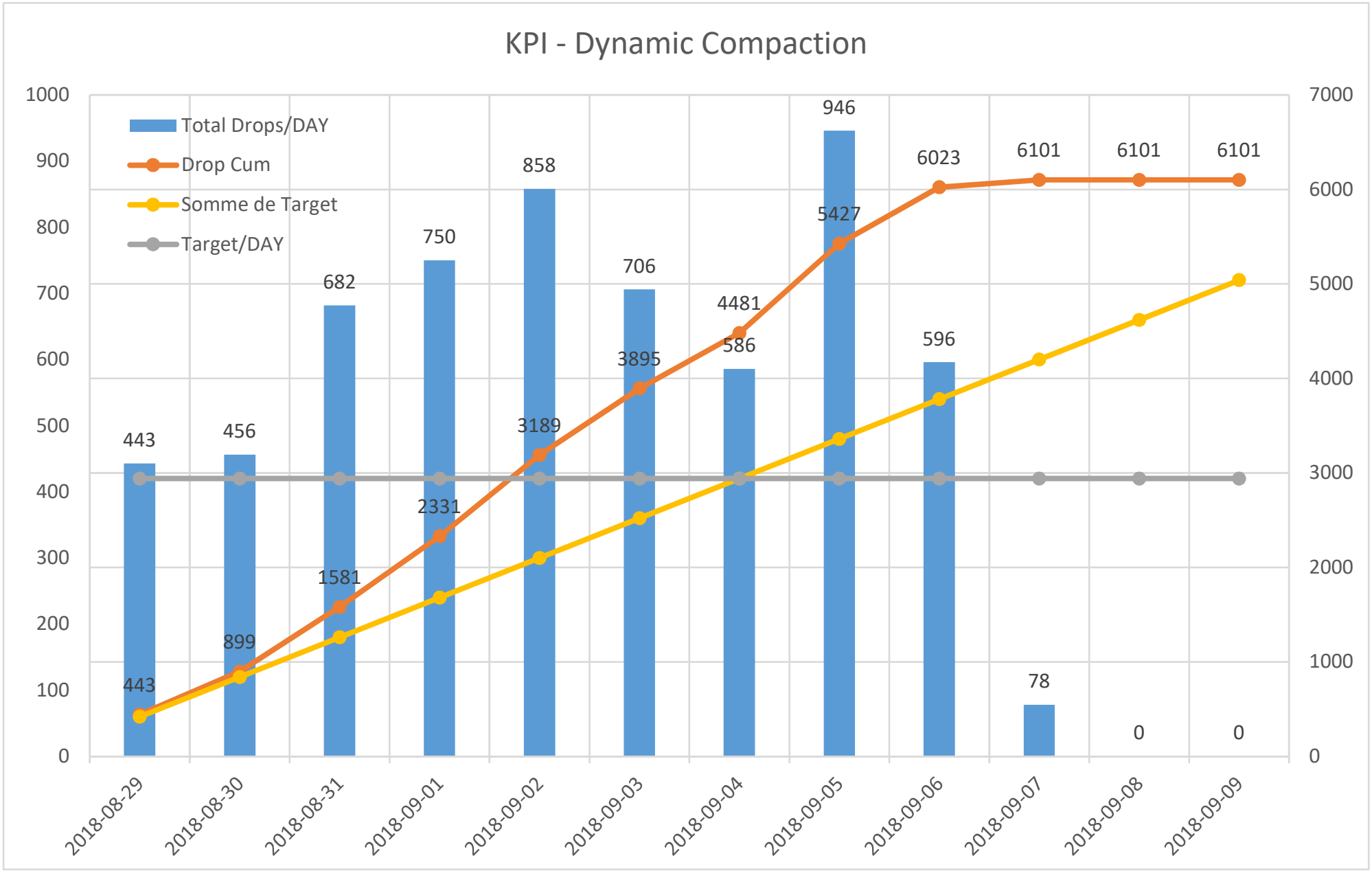
- **HEALTH & SAFETY**
  - Small cut inside the palm of a workers hand. The event was categorized “reported event”
- **DYNAMIC COMPACTION**
  - Finishing dynamic compaction
  - Crane demobilisation
  - Average production of 30 drops/hour (over expectetion)
  - Fine filter placement & compaction in craters
- **SECANT PILE WALL**
  - Finishing of the water intake installation/heating system
  - Batch plant preparation work
  - Beginning drilling of the casing
    - 15 Casing installed
    - 75 meters drilled
- **SALINE PROTECTION**
  - Beginning of excavating and filling of the trench
    - 465 m³ of Fine Filters placed
    - 3075 m³ of overburden
- **MICELLANEOUS**
    - Permadome installation for the batch plant
    - Working on the others dikes activities schedule
    - Finishing the laboratory installation
    - Layout of Sana office access
    - Incinerator laydown

CURRENT WEEK: 09/09 @ 15/09

- **SECANT PILE WALL**
  - Grout plant test/final installation
  - Pouring slurry trench
  - Piling production
    - Pursuing the drilling of the primary piles
      - Completion up to st 0+300
      - Beginning of secondary piles drilling
    - Pouring first primary piles
  - Second BG30 start up
  - Start-up QC program on first grout batch
- **SALINE PROTECTION**
  - Pursuing saline protection construction
    - Geomembrane installation
    - Fine and coarse filters placement
  - North side access culvert installation
  - Sana need to advise Agnico when ready to install membrane
- **MICELLANEOUS**
  - Finishing the permadome installation
  - Preparation of the stocking sea cans for the batch plan
  - Final pumping system installation
  - Working on the others dikes activities schedule
  - Finishing the laboratory equipment calibration
  - Construction of the Sana garage (MYK)
- **SCHEDULE UPDATE**
  - Dike construction update
  - Actual achievement of 24% for Whale Tail Dike construction Direct Items including subcontracted works.

NEXT WEEK: 16/09 @ 22/09

- **SECANT PILE WALL**
  - Beginning of the production (Planned 17/09)
  - Piling production
    - Pursuing he drilling of the primary piles
    - Secondary piles completion up to 0+300
    - Beginning of tertiary piles
    - Pursuing pouring piles
  - BG28 Drill assembly
- **SALINE PROTECTION**
  - Pursuing saline protection construction
    - Geomembrane installation
    - Fine and coarse filters placement
- **NORTH EAST DIKE**
  - Beginning of the foundation excavation


KPI - Dynamic Compaction
Total Drops/DAY
Drop Cum
Somme de Target
Target/DAY
1000
900
800
700
600
500
400
300
200
100
0
7000
6000
5000
4000
3000
2000
1000
0
443
456
682
750
858
706
596
946
78
0
0
443
899
1581
2331
3189
3895
4481
5427
6023
6101
6101
6101
586
2018-08-29
2018-08-30
2018-08-31
2018-09-01
2018-09-02
2018-09-03
2018-09-04
2018-09-05
2018-09-06
2018-09-07
2018-09-08
2018-09-09

Company:
Purchase number
Contract No:
Contract Title:

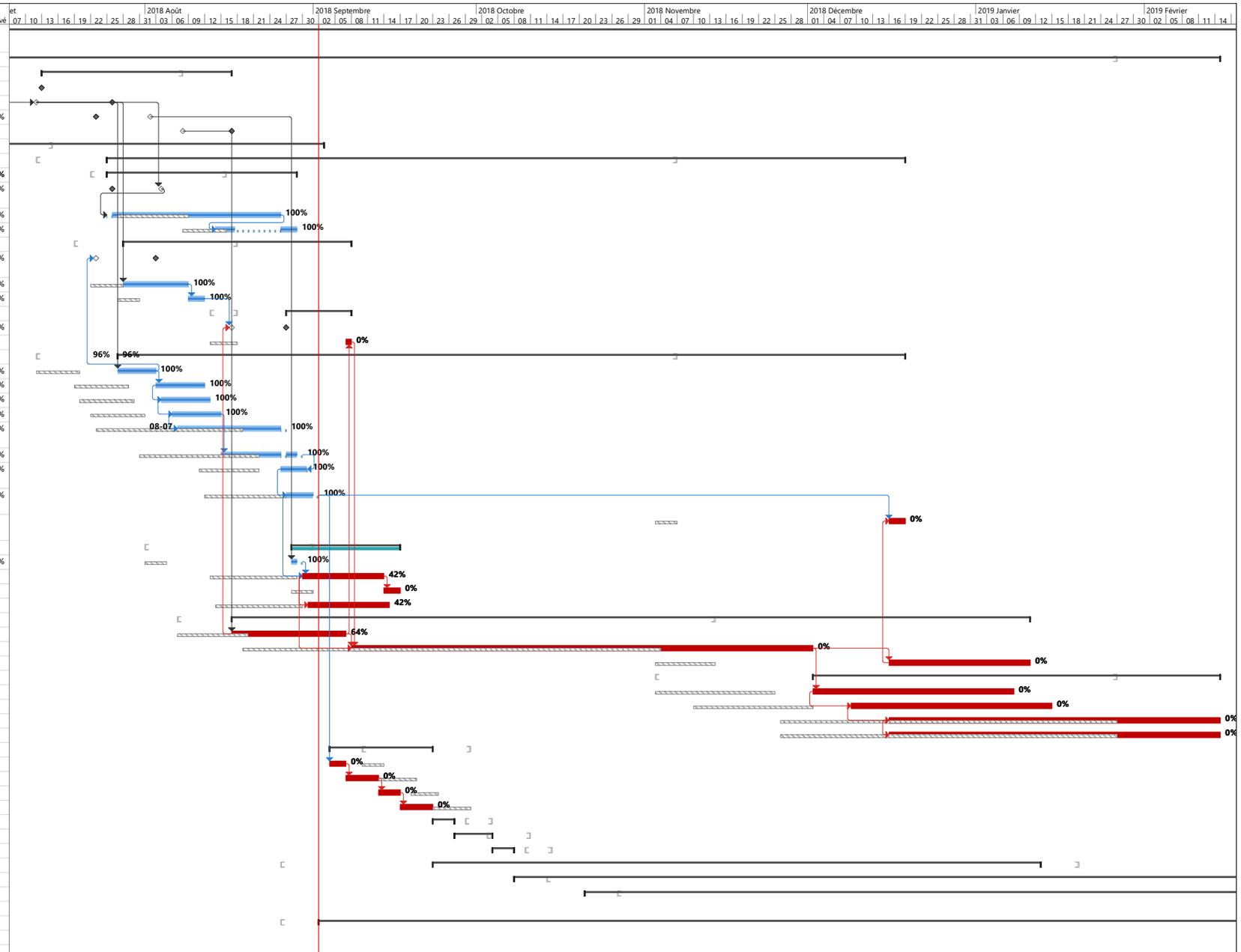
KIVALLIQ CONTRACTORS GROUP LTD

PHYSICAL PROGRESS %

8 SEPTEMBER 2018

Description	Forecasted Qty		Previous Period (cumul.)		Actual Period (cumul.)		Cumul. physical progress (SOW)
			Qty or %	% completed	Qty or %	% completed	Qty or %
01. Turbidity Barrier Installation	72767	m²	66528	0,000	**66528**	91,43%	0,0091
02. Secant Wall Mob-Demob	100	%	100	0,000	**100**	100,00%	0,0470
03. Dynamic Compaction Mob-Demob	100	%	33	0,000	**100**	100,00%	0,0085
04. East Abutment Excavation	9250	m³	6753	0,000	**10495**	100,00%	0,0305
05. West Abutment Excavation	10182	m³	4034	0,000	**9519**	100,00%	0,0120
06. Rockfill Placement (Dozer)	59978	m³	51594	0,000	**76182**	100,00%	0,0106
07. Rockfill Placement (Operator)	0	m³	0	0,000	**0**	100,00%	0,0034
08. Rockfill Placement (Shovel)	43553	m³	0	0,000	**15855**	100,00%	0,0019
09. Lake Bed Excavation	16443	m³	0	0,000	**17529**	100,00%	0,0283
10. Coarse Filter from 154 to 157	9954	m³	0	0,000	**9623**	100,00%	0,0097
11. Coarse Filter from bot to 154	14075	m³	0	0,000	**20351**	100,00%	0,0179
12. Fine Filter after compaction	4800	m³	0	0,000	**2016**	100,00%	0,0037
13. Fine Filter 154 to 157	25211	m³	0	0,000	**24434**	100,00%	0,0209
14. Fine Filter in Key Trench	28018	m³	0	0,000	**30845**	100,00%	0,0256
15. Dynamic Compaction	3700	m²	0	0,000	**3690**	100,00%	0,0108
16. Secant Wall	6425	m²	0	0,000	**1**	0,01%	0,0000
17. Injection	100	%	0	0,000	**0**	0,00%	0,0000
18. Instrumentstion installation	100	%	0	0,000	**0**	0,00%	0,0000
19. RockFill Placement 154 to 159	55071	m³	0	0,000	**39582**	71,87%	0,0014
DIRECT WORKS (1 @ 19)							**24,13%**

N°	Nom de la tâche	Durée	Début	Fin	% achevé
1	**AGNICO EAGLE - WHALE TAIL EARTHWORK - CONSTRUCTION**	**279 jours**	**Lun 18-06-18**	**Mar 19-04-09**	**23%**
2	**Whale Tail Dike**	**226 jours**	**Lun 18-06-18**	**Ven 19-02-15**	**44%**
3	**Milestones - Key dates**	**35 jours**	**Ven 18-07-13**	**Ven 18-08-17**	**0%**
4	Permit Obtention	0 jour	Ven 18-07-13	Ven 18-07-13	0%
5	End of Permit Notice delay	0 jour	Jeu 18-07-26	Jeu 18-07-26	0%
6	Barge Material Arrival - Dynamic Compaction	0 jour	Lun 18-07-23	Lun 18-07-23	100%
7	Barge Material Arrival - Secant piles	0 jour	Ven 18-08-17	Ven 18-08-17	90%
8	**Turbidity Barrier**	**77 jours**	**Lun 18-06-18**	**Lun 18-09-03**	**85%**
17	**Excavation & Embankment**	**147 jours**	**Mer 18-07-25**	**Mer 18-12-19**	**97%**
18	**East Abutment**	**35 jours**	**Mer 18-07-25**	**Mer 18-08-29**	**100%**
19	Drilling&Blasting East Abutment (Within specified limit)	0 jour	Jeu 18-07-26	Jeu 18-07-26	100%
20	Excavation East Abutment (m³)	32 jours	Mer 18-07-25	Dim 18-08-26	100%
21	Coarse, Fine Filter & Rockfill Placement	15 jours	Mar 18-08-14	Mer 18-08-29	100%
22	**West Abutment**	**42 jours**	**Sam 18-07-28**	**Sam 18-09-08**	**94%**
23	Drilling&Blasting West Abutment (Within specified limit)	0 jour	Jeu 18-08-02	Jeu 18-08-02	100%
24	Excavation Abutment West (m³)	12 jours	Sam 18-07-28	Jeu 18-08-09	100%
25	Coarse, Fine Filter & Rockfill Placement	3 jours	Jeu 18-08-09	Dim 18-08-12	100%
26	**Slurry Wall**	**12 jours**	**Lun 18-08-27**	**Sam 18-09-08**	**0%**
27	Slurry Wall Excavation	0 jour	Lun 18-08-27	Lun 18-08-27	100%
28	Slurry Wall Backfill	1 jour	Ven 18-09-07	Sam 18-09-08	0%
29	**Dike construction**	**145 jours**	**Ven 18-07-27**	**Mer 18-12-19**	**96%**
30	Rockfill placement (Bottom to 154) -2 team	7 jours	Ven 18-07-27	Ven 18-08-03	100%
31	Lake Bed Mass Excavation (West to East)	9 jours	Ven 18-08-03	Dim 18-08-12	100%
32	Lake Bed Final Clean-up	9 jours	Sam 18-08-04	Lun 18-08-13	100%
33	Coarse Filter - Key Trench (Bottom to 154)	9 jours	Lun 18-08-06	Mer 18-08-15	100%
34	Fine Filter - Key Trench (Bottom to 154)	20 jours	Mar 18-08-07	Lun 18-08-27	100%
35	Fine Filter Placement (From 154 to 157)	15 jours	Mer 18-08-15	Jeu 18-08-30	100%
36	Coarse Filter Placement (From 154 to 157)	5 jours	Dim 18-08-26	Ven 18-08-31	100%
37	Rockfill Placement (From 154 to 157)	6 jours	Lun 18-08-27	Dim 18-09-02	100%
38	Rockfill Placement (From 157 to Top) - access road	3 jours	Dim 18-12-16	Mer 18-12-19	0%
39	**Dynamic Compaction**	**20 jours**	**Mar 18-08-28**	**Lun 18-09-17**	**40%**
40	Dynamic Compaction Setup	1 jour	Mar 18-08-28	Mer 18-08-29	100%
41	Dynamic Compaction Production (m²)	15 jours	Mer 18-08-29	Jeu 18-09-13	42%
42	Dynamic Compaction Demob	3 jours	Jeu 18-09-13	Dim 18-09-16	0%
43	Fine Filter Placement (backfill after compaction)	15 jours	Jeu 18-08-30	Ven 18-09-14	42%
44	**Secant pile wall**	**131 jours**	**Ven 18-08-17**	**Ven 19-01-11**	**12%**
45	Mobilisation (Mixing plant & 1st rig Set-up)	21 jours	Ven 18-08-17	Ven 18-09-07	64%
46	Secant pile wall - Production	85 jours	Sam 18-09-08	Dim 18-12-02	0%
47	Demobilization	10 jours	Dim 18-12-16	Ven 19-01-11	0%
48	**Grouting**	**59 jours**	**Dim 18-12-02**	**Ven 19-02-15**	**0%**
49	Casing Installation for Injection (meters)	21 jours	Dim 18-12-02	Mar 19-01-08	0%
50	Drilling Bedrock (meters)	21 jours	Dim 18-12-09	Mar 19-01-15	0%
51	Injection (# holes)	45 jours	Dim 18-12-16	Ven 19-02-15	0%
52	Instrumentation	45 jours	Dim 18-12-16	Ven 19-02-15	0%
53	**Saline Protection Channel**	**19 jours**	**Mar 18-09-04**	**Dim 18-09-23**	**0%**
54	Excavation	3 jours	Mar 18-09-04	Ven 18-09-07	0%
55	Aggregates 0-20	6 jours	Ven 18-09-07	Jeu 18-09-13	0%
56	Bituminous Geomembrane	4 jours	Jeu 18-09-13	Lun 18-09-17	0%
57	Aggregates 0-40	6 jours	Lun 18-09-17	Dim 18-09-23	0%
58	**WRSF Collection Channel**	**4 jours**	**Dim 18-09-23**	**Jeu 18-09-27**	**0%**
61	**East Channel**	**7 jours**	**Jeu 18-09-27**	**Jeu 18-10-04**	**0%**
64	**East Channel Coffer Dam**	**4 jours**	**Jeu 18-10-04**	**Lun 18-10-08**	**0%**
69	**North East Dike**	**96 jours**	**Dim 18-09-23**	**Dim 19-01-13**	**0%**
77	**WRSF Dike**	**133 jours**	**Lun 18-10-08**	**Mer 19-03-06**	**0%**
87	**Mammoth Dike**	**136 jours**	**Dim 18-10-21**	**Ven 19-03-22**	**0%**
96	**Main Camp Pond**	**6 jours**	**Mar 19-03-12**	**Lun 19-03-18**	**0%**
99	**South Wail Tail Diverson Channel A45 Lake - 612 m.li.**	**172 jours**	**Dim 18-09-02**	**Sam 19-03-09**	**0%**
108	**WRSF Saddle Dam**	**13 jours**	**Mer 19-03-27**	**Mar 19-04-09**	**0%**
114	**Attenuation pond**	**9 jours**	**Lun 19-03-18**	**Mer 19-03-27**	**0%**



KIVALLIQ CONTRACTORS GROUP LTD

Amaruq Dike Construction 2018 – 3 Weeks Meeting

AGNICO EAGLE

LAST WEEK: 09/09 @ 15/09

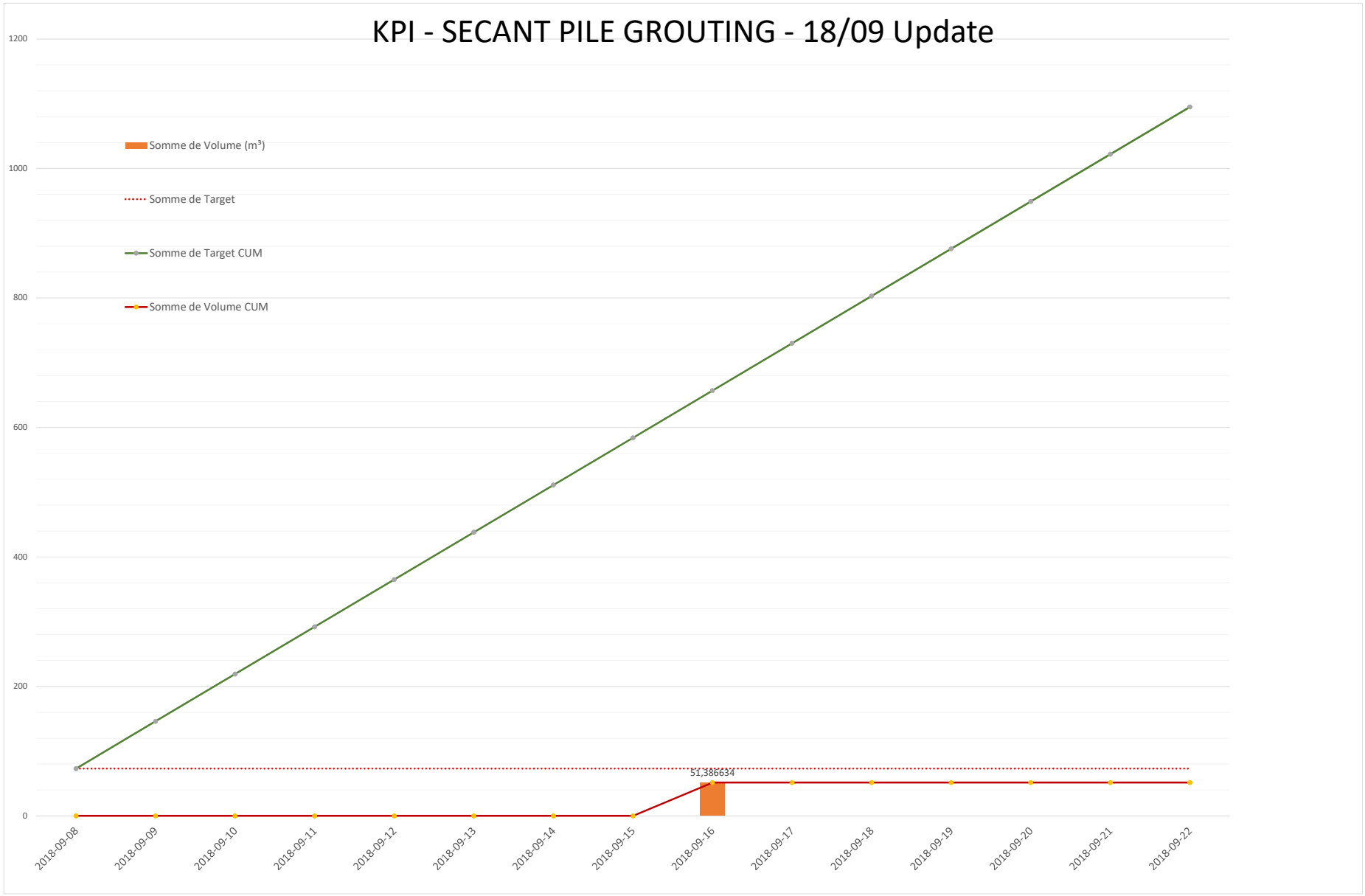
- **HEALTH & SAFETY**
  - No event reported
- **SECANT PILE WALL**
  - Water intake installation/heating system final setup
    - Programming & coupling to the pressure drive to be completed during batch plant maintenance time.
  - Batch plant troubleshooting
  - Second BG30 start up
  - Pouring the 80% of the slurry trench
  - Installation of the permodome over the batchplant
  - Start-up QC program on first grout batch (Slurry trench)
  - Preparation work for an alternative cement-bento mixing solution
  - 15 piles drilled out of 983 (No grouting activities achieved)
  - Key advancement point indicator to be provided by KCG for the next 3WM. (Ask by AEM)
- **SALINE PROTECTION**
  - Excavation and filters placement
    - 1832 m³ of fine filters placed
    - 500 m³ of coarse filters placed
    - 3440 m³ of overburden
  - Geomembrane installation
    - 40% completed
- **NORTH EAST DIKE**
  - Foundation excavation
  - Dewatering (Sump installation upstream)
- **MICELLANEOUS**
  - Finishing the second permodome construction
  - Final pumping system installation
  - Finishing the laboratory equipment calibration
    - Press calibration module had to be sent south
  - Construction of the Sana garage (MYK)
  - Nemo Lake culvert installation
  - Bauer technician came on site to repair the second BG30

CURRENT WEEK: 16/09 @ 22/09

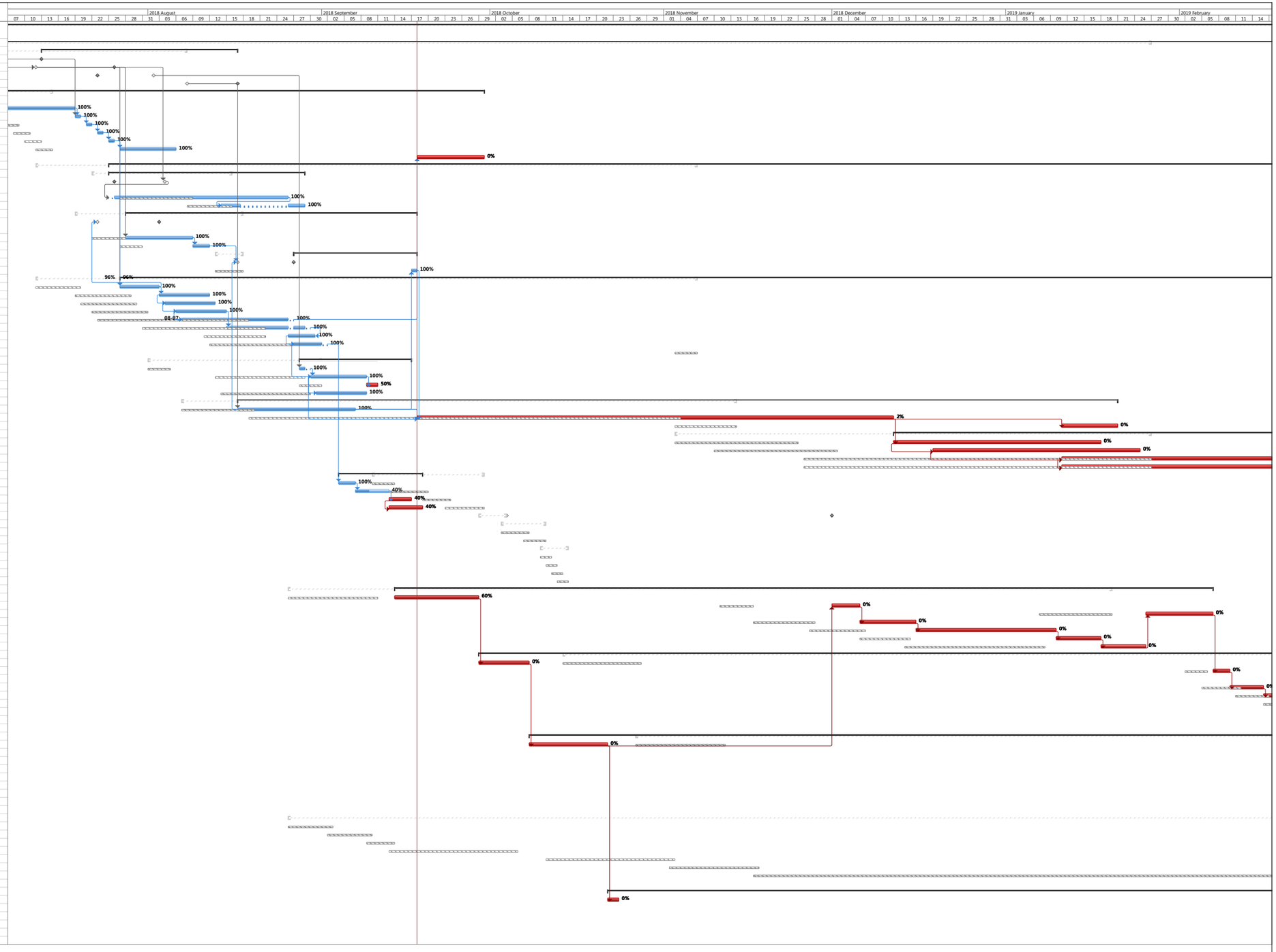
- **SECANT PILE WALL**
  - Piling production
    - Pursuing the drilling of the primary piles
      - Completion up to st 0+300
      - Beginning of secondary piles drilling
    - Pouring first primary piles
    - Completion of the slurry trench
  - 11 piles grouted in date of September 16th (38 m³)
  - Forecast of 520 m³ of grout placed base on HFDI initial schedule
  - BG28 Drill assembly
- **SALINE PROTECTION**
  - ~~North side access culvert installation~~ have been cancelled
  - Completion of the filters and geomembrane installation
- **NORTH EAST DIKE**
  - Foundation excavation
  - Dewatering (Sump installation upstream)
  - Foundation excavation to be reported once the ground is froze enough to attenuate water flow.
- **WRSF DIKE**
  - KCG may begin the excavation of WRSF dike depending on the north east dike advancement and water condition.
- **MICELLANEOUS**
  - Construction of the Sana garage (MYK)
  - Laboratory: Press assembly
  - Turbidity curtain removal (South side of the dike)
  - AP5 discharge work
  - NC for the grout viscosity is to be produced by QC
  - KCG/HFDI are awaiting written confirmation from QA for piles spacing proposal in deeper section. Information should be provided by AEM shortly.

NEXT WEEK: 23/09 @ 29/09

- **SECANT PILE WALL**
  - Beginning of the production (Planned 17/09)
  - Piling production
    - Pursuing he drilling of the primary piles
    - Secondary piles completion up to 0+300
    - Beginning of tertiary piles
    - Pursuing pouring piles
- **WRSF DIKE**
  - Beginning of the foundation excavation
- **NORTH EAST DIKE**
  - KCG may complete North east dike excavation depending on past week advancement.


KPI - SECANT PILE GROUTING - 18/09 Update
1200
1000
800
600
400
200
0
Somme de Volume (m³)
Somme de Target
Somme de Target CUM
Somme de Volume CUM
51,386634
2018-09-08
2018-09-09
2018-09-10
2018-09-11
2018-09-12
2018-09-13
2018-09-14
2018-09-15
2018-09-16
2018-09-17
2018-09-18
2018-09-19
2018-09-20
2018-09-21
2018-09-22

ID	Nom de la tâche	Duration	Start	Finish	% Complete	Predecessors
1	AGNICO EAGLE - WHALE TAIL EARTHWORK - CONSTRUCTION	463 days	Mon 18-06-18	Thu 19-10-10	28%	
2	**Whale Tail Dike**	239 days	Mon 18-06-18	Thu 19-02-28	49%	
3	**Milestones - Key dates**	35 days	Fri 18-07-13	Fri 18-08-17	100%	
4	Permit Obtention	0 days	Fri 18-07-13	Fri 18-07-13	100%	
5	End of Permit Notice delay	0 days	Thu 18-07-26	Thu 18-07-26	100%	4SS+10 days
6	Barge Material Arrival - Dynamic Compaction	0 days	Mon 18-07-23	Mon 18-07-23	100%	
7	Barge Material Arrival - Secant piles	0 days	Fri 18-08-17	Fri 18-08-17	100%	
8	**Turbidity Barrier**	104 days	Mon 18-06-18	Sun 18-09-30	79%	
9	Start	0 days	Mon 18-06-18	Mon 18-06-18	100%	
10	Turbidity Barrier Preparation	31 days	Mon 18-06-18	Thu 18-07-19	100%	9
11	Installation #1	1 day	Thu 18-07-19	Fri 18-07-20	100%	4;10
12	Installation #2	1 day	Sat 18-07-21	Sun 18-07-22	100%	11
13	Installation #3	1 day	Mon 18-07-23	Tue 18-07-24	100%	12
14	Installation #4	1 day	Wed 18-07-25	Thu 18-07-26	100%	13
15	Installation #5 (optional)	10 days	Fri 18-07-27	Mon 18-08-06	100%	14
16	Barriers Removal	12 days	Tue 18-09-18	Sun 18-09-30	0%	34
17	**Excavation & Embankment**	202 days	Wed 18-07-25	Thu 19-02-28	98%	
18	**East Abutment**	35 days	Wed 18-07-25	Wed 18-08-29	100%	
19	Drilling&Blasting East Abutment (Within specified limit)	0 days	Thu 18-07-26	Thu 18-07-26	100%	5
20	Excavation East Abutment (m³)	32 days	Wed 18-07-25	Sun 18-08-26	100%	19
21	Coarse, Fine Filter & Rockfill Placement	15 days	Tue 18-08-14	Wed 18-08-29	100%	20
22	**West Abutment**	52 days	Sat 18-07-28	Tue 18-09-18	100%	
23	Drilling&Blasting West Abutment (Within specified limit)	0 days	Thu 18-08-02	Thu 18-08-02	100%	30
24	Excavation Abutment West (m³)	12 days	Sat 18-07-28	Thu 18-08-09	100%	5
25	Coarse, Fine Filter & Rockfill Placement	3 days	Thu 18-08-09	Sun 18-08-12	100%	24
26	**Slurry Wall**	22 days	Mon 18-08-27	Tue 18-09-18	100%	
27	Slurry Wall Excavation	0 days	Mon 18-08-27	Mon 18-08-27	100%	25;45SS+10 days
28	Slurry Wall Backfill	1 day	Mon 18-09-17	Tue 18-09-18	100%	45
29	**Dike construction**	200 days	Fri 18-07-27	Thu 19-02-28	96%	
30	Rockfill placement (Bottom to 154) -2 team	7 days	Fri 18-07-27	Fri 18-08-03	100%	14;5
31	Lake Bed Mass Excavation (West to East)	9 days	Fri 18-08-03	Sun 18-08-12	100%	30
32	Lake Bed Final Clean-up	9 days	Sat 18-08-04	Mon 18-08-13	100%	31SS+1 day
33	Coarse Filter - Key Trench (Bottom to 154)	9 days	Mon 18-08-06	Wed 18-08-15	100%	32SS+2 days
34	Fine Filter - Key Trench (Bottom to 154)	20 days	Tue 18-08-07	Mon 18-08-27	100%	33SS+1 day
35	Fine Filter Placement (From 154 to 157)	15 days	Wed 18-08-15	Thu 18-08-30	100%	33
36	Coarse Filter Placement (From 154 to 157)	5 days	Sun 18-08-26	Fri 18-08-31	100%	35FF
37	Rockfill Placement (From 154 to 157)	6 days	Mon 18-08-27	Sun 18-09-02	100%	36SS
38	Rockfill Placement (From 157 to Top) - access road	3 days	Mon 19-02-25	Thu 19-02-28	0%	51
39	**Dynamic Compaction**	20 days	Tue 18-08-28	Mon 18-09-17	95%	
40	Dynamic Compaction Setup	1 day	Tue 18-08-28	Wed 18-08-29	100%	6FS+14 days
41	Dynamic Compaction Production (m²)	10 days	Wed 18-08-29	Sat 18-09-08	100%	37SS+1 day;40
42	Dynamic Compaction Demob	2 days	Sat 18-09-08	Mon 18-09-10	50%	41
43	Fine Filter Placement (backfill after compaction)	9 days	Thu 18-08-30	Sat 18-09-08	100%	41SS+1 day
44	**Secant pile wall**	141 days	Fri 18-08-17	Mon 19-01-21	20%	
45	Mobilisation (Mixing plant & 1st rig Set-up)	21 days	Fri 18-08-17	Fri 18-09-07	100%	7
46	Secant pile wall - Production	85 days	Tue 18-09-18	Wed 18-12-12	2%	41SS+2 days;45;28
47	Demobilization	10 days	Fri 19-01-11	Mon 19-01-21	0%	46FS+14 days
48	**Grouting**	59 days	Wed 18-12-12	Mon 19-02-25	0%	
49	Casing Installation for Injection (meters)	21 days	Wed 18-12-12	Fri 19-01-18	0%	46
50	Drilling Bedrock (meters)	21 days	Wed 18-12-19	Fri 19-01-25	0%	49SS+7 days
51	Injection (# holes)	45 days	Fri 19-01-11	Mon 19-02-25	0%	50SS+7 days
52	Instrumentation	45 days	Fri 19-01-11	Mon 19-02-25	0%	51SS
53	**Saline Protection Channel**	15 days	Tue 18-09-04	Wed 18-09-19	49%	
54	Excavation	3 days	Tue 18-09-04	Fri 18-09-07	100%	37FS+2 days
55	Aggregates 0-20	6 days	Fri 18-09-07	Thu 18-09-13	40%	54
56	Bituminous Geomembrane	4 days	Thu 18-09-13	Mon 18-09-17	40%	55
57	Aggregates 0-40	6 days	Thu 18-09-13	Wed 18-09-19	40%	56SS
58	**WRSF Collection Channel**	0 days	Sat 18-12-01	Sat 18-12-01	100%	
61	**East Channel**	7 days	Sat 19-04-06	Sat 19-04-13	0%	
62	Excavation	4 days	Sat 19-04-06	Wed 19-04-10	0%	90
63	Riprap	3 days	Wed 19-04-10	Sat 19-04-13	0%	62
64	**East Channel Coffer Dam**	4 days	Sat 19-04-13	Wed 19-04-17	0%	
65	Excavation	1 day	Sat 19-04-13	Sun 19-04-14	0%	63
66	Rockfill	1 day	Sun 19-04-14	Mon 19-04-15	0%	65
67	Filters	1 day	Mon 19-04-15	Tue 19-04-16	0%	66
68	Till	1 day	Tue 19-04-16	Wed 19-04-17	0%	67
69	**North East Dike**	130 days	Fri 18-09-14	Thu 19-02-07	13%	
70	Excavation	15 days	Fri 18-09-14	Sat 18-09-29	60%	
71	Rockfill - Work Platform (25%)	5 days	Sat 18-12-01	Thu 18-12-06	0%	88
72	Rockfill	12 days	Sat 19-01-26	Thu 19-02-07	0%	76
73	Coarse Filter	10 days	Thu 18-12-06	Sun 18-12-16	0%	71
74	Fine Filter	9 days	Sun 18-12-16	Thu 19-01-10	0%	73
75	Fine Filter Amended with Bentonite	8 days	Thu 19-01-10	Fri 19-01-18	0%	74
76	Bituminous Geomembrane	8 days	Fri 19-01-18	Sat 19-01-26	0%	75
77	**WRSF Dike**	167 days	Sat 18-09-29	Sun 19-03-31	0%	
78	Excavation	9 days	Sat 18-09-29	Mon 18-10-08	0%	70
79	Rockfill - Work Platform (25%)	3 days	Thu 19-02-07	Sun 19-02-10	0%	72
80	Rockfill	7 days	Sun 19-03-03	Sun 19-03-10	0%	84
81	Coarse Filter	6 days	Sun 19-02-10	Sat 19-02-16	0%	79
82	Fine Filter	5 days	Sat 19-02-16	Thu 19-02-21	0%	81
83	Fine Filter Amended with Bentonite	6 days	Thu 19-02-21	Wed 19-02-27	0%	82
84	Bituminous Geomembrane	4 days	Wed 19-02-27	Sun 19-03-03	0%	83
85	Grout Curtain	14 days	Sun 19-03-03	Sun 19-03-17	0%	84
86	Instrumentation	14 days	Sun 19-03-17	Sun 19-03-31	0%	85
87	**Mammoth Dike**	174 days	Mon 18-10-08	Tue 19-04-16	0%	
88	Excavation	14 days	Mon 18-10-08	Mon 18-10-22	0%	78
89	Rockfill - Work Platform (25%)	2 days	Sun 19-03-10	Tue 19-03-12	0%	80
90	Rockfill	4 days	Tue 19-04-02	Sat 19-04-06	0%	94
91	Coarse Filter	6 days	Tue 19-03-12	Mon 19-03-18	0%	89
92	Fine Filter	6 days	Mon 19-03-18	Sun 19-03-24	0%	91
93	Fine Filter Amended with Bentonite	3 days	Sun 19-03-24	Wed 19-03-27	0%	92
94	Bituminous Geomembrane	6 days	Wed 19-03-27	Tue 19-04-02	0%	93
95	Instrumentation	14 days	Tue 19-04-02	Tue 19-04-16	0%	94
96	**Main Camp Pond**	0 days	Mon 19-04-01	Mon 19-04-01	100%	
99	**South Wall Tail Diverson Channel A45 Lake - 612 m.li.**	162 days	Wed 19-05-01	Thu 19-10-10	0%	
100	Turbidity Barriers 3 m x 330 m Li	7 days	Wed 19-05-01	Wed 19-05-08	0%	
101	Access Road	7 days	Wed 19-05-08	Wed 19-05-15	0%	100
102	Platform Backfill (For D&B)	4 days	Wed 19-05-15	Sun 19-05-19	0%	101
103	Drill and Blast	22 days	Sun 19-05-19	Mon 19-06-10	0%	102
104	Excavation	22 days	Fri 19-05-24	Sat 19-06-15	0%	103SS+5 days;65
105	Filters	15 days	Sat 19-06-15	Sun 19-06-30	0%	104
106	RipRap	102 days	Sun 19-06-30	Thu 19-10-10	0%	105
107	Instrumentation	0 days	Thu 19-10-10	Thu 19-10-10	0%	106
108	**WRSF Saddle Dam**	170 days	Mon 18-10-22	Fri 19-04-26	0%	
109	Excavation	2 days	Mon 18-10-22	Wed 18-10-24	0%	88
110	Rockfill	3 days	Mon 19-04-15	Thu 19-04-18	0%	66
111	Coarse Filter	3 days	Thu 19-04-18	Sun 19-04-21	0%	110
112	Fine Filter	2 days	Sun 19-04-21	Tue 19-04-23	0%	111
113	Compacted Till	3 days	Tue 19-04-23	Fri 19-04-26	0%	112
114	**Attenuation pond**	0 days	Mon 19-04-01	Mon 19-04-01	100%	



Amaruq Dike Construction 2018 – 3 Weeks Meeting

LAST WEEK: 16/09 @ 22/09

- **SECANT PILE WALL**
  Piling production
  - Pursuing the drilling of the primary piles until the 15 drill shoes are in the ground
  - Completion of the slurry trench

  23 piles grouted in date of September 18th (133 m³)
  40 piles drilled with the auger
  40 piles drilled to final depth
  2.3% progress against 13% planned
  Third drill assembled and running
  Installation of an insulated/heated slurry pipe to go down on the dike (14inch sleeve with a 6 inch slurry pipe inside)
- **SALINE PROTECTION**
  Geomembrane installation
- **NORTH EAST DIKE**
  Dewatering (Sump installation upstream)
  Foundation excavation to be delayed once the ground is froze enough to attenuate water flow.
- **WRSF DIKE**
  Access road to be built with esker in order to start the excavation
- **Mammoth DIKE**
  Excavation started but stopped because of water
- **MICELLANEOUS**
  Construction of the Sana garage (MYK)
  Laboratory: Press assembly
  Turbidity curtain removal (South side of the dike)
  NC for the grout viscosity is to be produced by QC and spec to be remove by SNC
  KCG/HFDI are awaiting written confirmation from QA for piles spacing proposal in deeper section. Information should be provided by AEM shortly
  Pile 101 was not filled to the top due to CB shortage after PAT failures, QA confirmed in meeting that it needed to be re-drilled

CURRENT WEEK: 23/09 @ 29/09

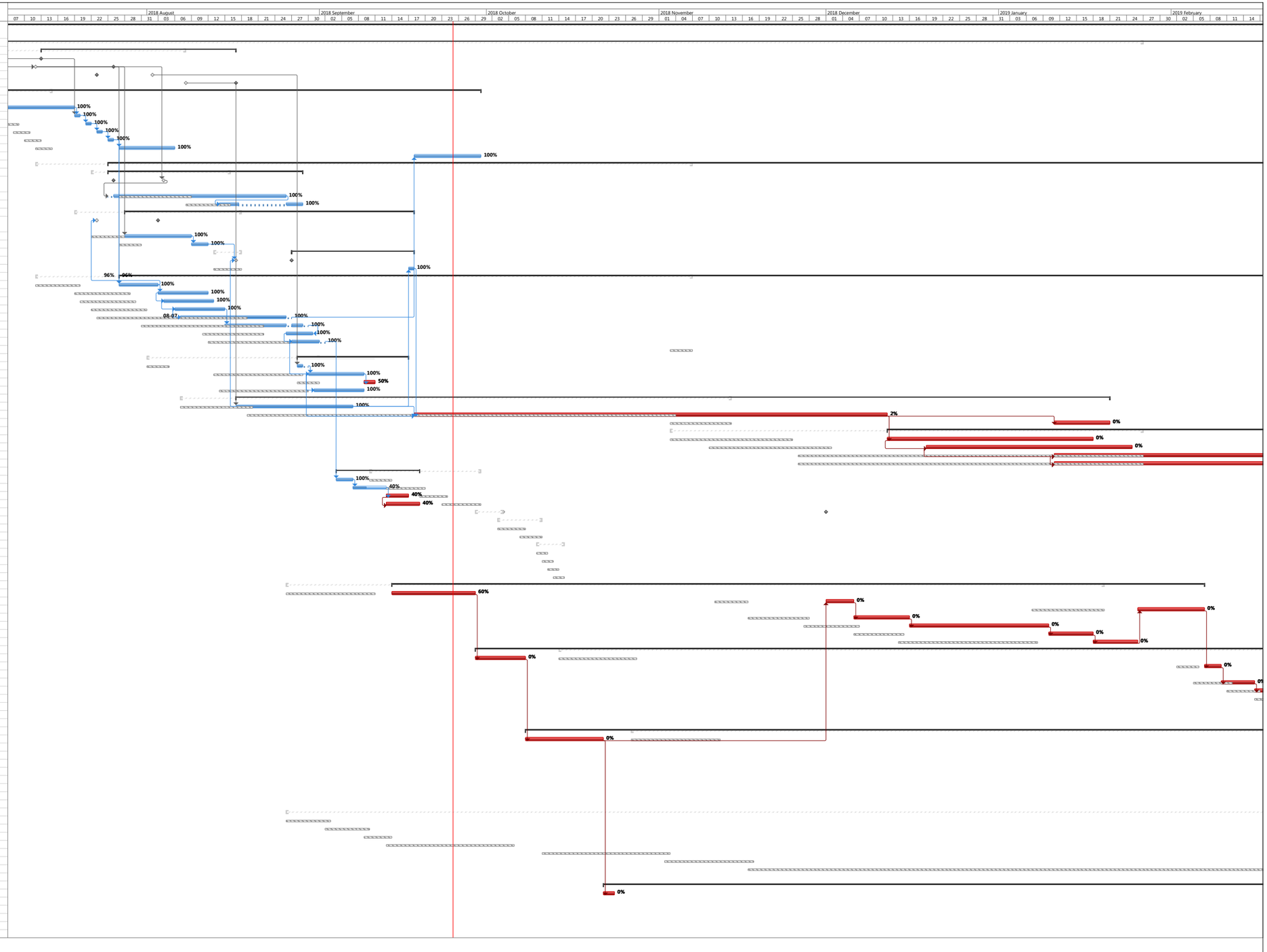
- **SECANT PILE WALL**
  Piling production
  - Grouting the 15 piles that are ready
  - Trying to drill secondary and tertiary ASAP now we are using a slurry line, in order to remove a section of pipe

  Grouting 30 more piles
- **SALINE PROTECTION**
  Works stop because there is no more aggregates available
- **NORTH EAST DIKE**
  Dewatering (Sump installation upstream)
  Foundation excavation delayed once the ground is froze enough to attenuate water flow.
- **WRSF DIKE**
  Building the access road with esker
  Starting the excavation
- **MICELLANEOUS**
  QA need to confirm in written the tests and samplings process
  Pile 101 to be re-drilled to remove the grout

NEXT WEEK: 30/09 @ 06/10

- **SECANT PILE WALL**
  Grouting 45 more piles
- **WRSF DIKE**
  Finishing excavation
- **NORTH EAST DIKE**
  Possibly restarting excavation if it's frozen enough

ID	Nom de la tâche	Duration	Start	Finish	% Complete	Predecessors
1	AGNICO EAGLE - WHALE TAIL EARTHWORK - CONSTRUCTION	**463 days**	**Mon 18-06-18**	**Thu 19-10-10**	**30%**	
2	**Whale Tail Dike**	**239 days**	**Mon 18-06-18**	**Thu 19-02-28**	**52%**	
3	**Milestones - Key dates**	**35 days**	**Fri 18-07-13**	**Fri 18-08-17**	**100%**	
4	Permit Obtention	0 days	Fri 18-07-13	Fri 18-07-13	100%	
5	End of Permit Notice delay	0 days	Thu 18-07-26	Thu 18-07-26	100%	4SS+10 days
6	Barge Material Arrival - Dynamic Compaction	0 days	Mon 18-07-23	Mon 18-07-23	100%	
7	Barge Material Arrival - Secant piles	0 days	Fri 18-08-17	Fri 18-08-17	100%	
8	**Turbidity Barrier**	**104 days**	**Mon 18-06-18**	**Sun 18-09-30**	**100%**	
9	Start	0 days	Mon 18-06-18	Mon 18-06-18	100%	
10	Turbidity Barrier Preparation	31 days	Mon 18-06-18	Thu 18-07-19	100%	9
11	Installation #1	1 day	Thu 18-07-19	Fri 18-07-20	100%	4;10
12	Installation #2	1 day	Sat 18-07-21	Sun 18-07-22	100%	11
13	Installation #3	1 day	Mon 18-07-23	Tue 18-07-24	100%	12
14	Installation #4	1 day	Wed 18-07-25	Thu 18-07-26	100%	13
15	Installation #5 (optional)	10 days	Fri 18-07-27	Mon 18-08-06	100%	14
16	Barriers Removal (D-E-C; A-B to stay there)	12 days	Tue 18-09-18	Sun 18-09-30	100%	34
17	**Excavation & Embankment**	**202 days**	**Wed 18-07-25**	**Thu 19-02-28**	**98%**	
18	**East Abutment**	**35 days**	**Wed 18-07-25**	**Wed 18-08-29**	**100%**	
19	Drilling&Blasting East Abutment (Within specified limit)	0 days	Thu 18-07-26	Thu 18-07-26	100%	5
20	Excavation East Abutment (m³)	32 days	Wed 18-07-25	Sun 18-08-26	100%	19
21	Coarse, Fine Filter & Rockfill Placement	15 days	Tue 18-08-14	Wed 18-08-29	100%	20
22	**West Abutment**	**52 days**	**Sat 18-07-28**	**Tue 18-09-18**	**100%**	
23	Drilling&Blasting West Abutment (Within specified limit)	0 days	Thu 18-08-02	Thu 18-08-02	100%	30
24	Excavation Abutment West (m³)	12 days	Sat 18-07-28	Thu 18-08-09	100%	5
25	Coarse, Fine Filter & Rockfill Placement	3 days	Thu 18-08-09	Sun 18-08-12	100%	24
26	**Slurry Wall**	**22 days**	**Mon 18-08-27**	**Tue 18-09-18**	**100%**	
27	Slurry Wall Excavation	0 days	Mon 18-08-27	Mon 18-08-27	100%	25;45SS+10 days
28	Slurry Wall Backfill	1 day	Mon 18-09-17	Tue 18-09-18	100%	45
29	**Dike construction**	**200 days**	**Fri 18-07-27**	**Thu 19-02-28**	**96%**	
30	Rockfill placement (Bottom to 154) -2 team	7 days	Fri 18-07-27	Fri 18-08-03	100%	14;5
31	Lake Bed Mass Excavation (West to East)	9 days	Fri 18-08-03	Sun 18-08-12	100%	30
32	Lake Bed Final Clean-up	9 days	Sat 18-08-04	Mon 18-08-13	100%	31SS+1 day
33	Coarse Filter - Key Trench (Bottom to 154)	9 days	Mon 18-08-06	Wed 18-08-15	100%	32SS+2 days
34	Fine Filter - Key Trench (Bottom to 154)	20 days	Tue 18-08-07	Mon 18-08-27	100%	33SS+1 day
35	Fine Filter Placement (From 154 to 157)	15 days	Wed 18-08-15	Thu 18-08-30	100%	33
36	Coarse Filter Placement (From 154 to 157)	5 days	Sun 18-08-26	Fri 18-08-31	100%	35FF
37	Rockfill Placement (From 154 to 157)	6 days	Mon 18-08-27	Sun 18-09-02	100%	36SS
38	Rockfill Placement (From 157 to Top) - access road	3 days	Mon 19-02-25	Thu 19-02-28	0%	51
39	**Dynamic Compaction**	**20 days**	**Tue 18-08-28**	**Mon 18-09-17**	**95%**	
40	Dynamic Compaction Setup	1 day	Tue 18-08-28	Wed 18-08-29	100%	6FS+14 days
41	Dynamic Compaction Production (m²)	10 days	Wed 18-08-29	Sat 18-09-08	100%	37SS+1 day;40
42	Dynamic Compaction Demob	2 days	Sat 18-09-08	Mon 18-09-10	50%	41
43	Fine Filter Placement (backfill after compaction)	9 days	Thu 18-08-30	Sat 18-09-08	100%	41SS+1 day
44	**Secant pile wall**	**141 days**	**Fri 18-08-17**	**Mon 19-01-21**	**20%**	
45	Mobilisation (Mixing plant & 1st rig Set-up)	21 days	Fri 18-08-17	Fri 18-09-07	100%	7
46	Secant pile wall - Production	85 days	Tue 18-09-18	Wed 18-12-12	2%	41SS+2 days;45;28
47	Demobilization	10 days	Fri 19-01-11	Mon 19-01-21	0%	46FS+14 days
48	**Grouting**	**59 days**	**Wed 18-12-12**	**Mon 19-02-25**	**0%**	
49	Casing Installation for Injection (meters)	21 days	Wed 18-12-12	Fri 19-01-18	0%	46
50	Drilling Bedrock (meters)	21 days	Wed 18-12-19	Fri 19-01-25	0%	49SS+7 days
51	Injection (# holes)	45 days	Fri 19-01-11	Mon 19-02-25	0%	50SS+7 days
52	Instrumentation	45 days	Fri 19-01-11	Mon 19-02-25	0%	51SS
53	**Saline Protection Channel**	**15 days**	**Tue 18-09-04**	**Wed 18-09-19**	**49%**	
54	Excavation	3 days	Tue 18-09-04	Fri 18-09-07	100%	37FS+2 days
55	Aggregates 0-20	6 days	Fri 18-09-07	Thu 18-09-13	40%	54
56	Bituminous Geomembrane	4 days	Thu 18-09-13	Mon 18-09-17	40%	55
57	Aggregates 0-40	6 days	Thu 18-09-13	Wed 18-09-19	40%	56SS
58	**WRSF Collection Channel**	**0 days**	**Sat 18-12-01**	**Sat 18-12-01**	**100%**	
61	**East Channel**	**7 days**	**Sat 19-04-06**	**Sat 19-04-13**	**0%**	
62	Excavation	4 days	Sat 19-04-06	Wed 19-04-10	0%	90
63	Riprap	3 days	Wed 19-04-10	Sat 19-04-13	0%	62
64	**East Channel Coffer Dam**	**4 days**	**Sat 19-04-13**	**Wed 19-04-17**	**0%**	
65	Excavation	1 day	Sat 19-04-13	Sun 19-04-14	0%	63
66	Rockfill	1 day	Sun 19-04-14	Mon 19-04-15	0%	65
67	Filters	1 day	Mon 19-04-15	Tue 19-04-16	0%	66
68	Till	1 day	Tue 19-04-16	Wed 19-04-17	0%	67
69	**North East Dike**	**130 days**	**Fri 18-09-14**	**Thu 19-02-07**	**13%**	
70	Excavation	15 days	Fri 18-09-14	Sat 18-09-29	60%	
71	Rockfill - Work Platform (25%)	5 days	Sat 18-12-01	Thu 18-12-06	0%	88
72	Rockfill	12 days	Sat 19-01-26	Thu 19-02-07	0%	76
73	Coarse Filter	10 days	Thu 18-12-06	Sun 18-12-16	0%	71
74	Fine Filter	9 days	Sun 18-12-16	Thu 19-01-10	0%	73
75	Fine Filter Amended with Bentonite	8 days	Thu 19-01-10	Fri 19-01-18	0%	74
76	Bituminous Geomembrane	8 days	Fri 19-01-18	Sat 19-01-26	0%	75
77	**WRSF Dike**	**167 days**	**Sat 18-09-29**	**Sun 19-03-31**	**0%**	
78	Excavation	9 days	Sat 18-09-29	Mon 18-10-08	0%	70
79	Rockfill - Work Platform (25%)	3 days	Thu 19-02-07	Sun 19-02-10	0%	72
80	Rockfill	7 days	Sun 19-03-03	Sun 19-03-10	0%	84
81	Coarse Filter	6 days	Sun 19-02-10	Sat 19-02-16	0%	79
82	Fine Filter	5 days	Sat 19-02-16	Thu 19-02-21	0%	81
83	Fine Filter Amended with Bentonite	6 days	Thu 19-02-21	Wed 19-02-27	0%	82
84	Bituminous Geomembrane	4 days	Wed 19-02-27	Sun 19-03-03	0%	83
85	Grout Curtain	14 days	Sun 19-03-03	Sun 19-03-17	0%	84
86	Instrumentation	14 days	Sun 19-03-17	Sun 19-03-31	0%	85
87	**Mammoth Dike**	**174 days**	**Mon 18-10-08**	**Tue 19-04-16**	**0%**	
88	Excavation	14 days	Mon 18-10-08	Mon 18-10-22	0%	78
89	Rockfill - Work Platform (25%)	2 days	Sun 19-03-10	Tue 19-03-12	0%	80
90	Rockfill	4 days	Tue 19-04-02	Sat 19-04-06	0%	94
91	Coarse Filter	6 days	Tue 19-03-12	Mon 19-03-18	0%	89
92	Fine Filter	6 days	Mon 19-03-18	Sun 19-03-24	0%	91
93	Fine Filter Amended with Bentonite	3 days	Sun 19-03-24	Wed 19-03-27	0%	92
94	Bituminous Geomembrane	6 days	Wed 19-03-27	Tue 19-04-02	0%	93
95	Instrumentation	14 days	Tue 19-04-02	Tue 19-04-16	0%	94
96	**Main Camp Pond**	**0 days**	**Mon 19-04-01**	**Mon 19-04-01**	**100%**	
99	**South Wall Tail Diverson Channel A45 Lake - 612 m.li.**	**162 days**	**Wed 19-05-01**	**Thu 19-10-10**	**0%**	
100	Turbidity Barriers 3 m x 330 m Li	7 days	Wed 19-05-01	Wed 19-05-08	0%	
101	Access Road	7 days	Wed 19-05-08	Wed 19-05-15	0%	100
102	Platform Backfill (For D&B)	4 days	Wed 19-05-15	Sun 19-05-19	0%	101
103	Drill and Blast	22 days	Sun 19-05-19	Mon 19-06-10	0%	102
104	Excavation	22 days	Fri 19-05-24	Sat 19-06-15	0%	103SS+5 days;65
105	Filters	15 days	Sat 19-06-15	Sun 19-06-30	0%	104
106	RipRap	102 days	Sun 19-06-30	Thu 19-10-10	0%	105
107	Instrumentation	0 days	Thu 19-10-10	Thu 19-10-10	0%	106
108	**WRSF Saddle Dam**	**170 days**	**Mon 18-10-22**	**Fri 19-04-26**	**0%**	
109	Excavation	2 days	Mon 18-10-22	Wed 18-10-24	0%	88
110	Rockfill	3 days	Mon 19-04-15	Thu 19-04-18	0%	66
111	Coarse Filter	3 days	Thu 19-04-18	Sun 19-04-21	0%	110
112	Fine Filter	2 days	Sun 19-04-21	Tue 19-04-23	0%	111
113	Compacted Till	3 days	Tue 19-04-23	Fri 19-04-26	0%	112
114	**Attenuation pond**	**0 days**	**Mon 19-04-01**	**Mon 19-04-01**	**100%**	



Amaruq Dike Construction 2018 – 3 Weeks Meeting

LAST WEEK: 30/09 @ 06/10

- **SECANT PILE WALL**

  Piling production

  - Pursuing the drilling of the primary and secondary piles

  159 piles grouted in date of October 5th (785 m³)

  82 piles grouted last week (Excluding Oct. 6th)

  13% of actual progress against 33% planned

  Vaccuum truck & garage setup for grout transportation

  Cement inventory catch up (25 sea can delivered)

  - Run out of cement - Loss of 10 hours of batching production

  Winterization of site and equipment 60% completed

  - Vaccum garage construction
  - Heated portable pump station
  - Heated seacan for grouting kit storage

- **NORTH EAST DIKE**

  Dewatering installation removal

  - No water left in the excavation bed
  - Site visit to be done by QA before snow fill up the excavation
  - Final approval to be done before the backfill

- **WRSF DIKE**

  WRSF excavation completed at 80 %

  Rock outcrop have been hit during excavation

- **MICELLANEOUS**

  Finish construction of the Sana garage foundation backfill

  Cement consumption are higher than expected

  - AEM took the decision to order HE cement from Rankin
  - Average of 60 % over run for cement consumption
  - Corebarell drilling method use to lower the overrun

  Waiting for Mammoth dike DWG plans

  Vaccum truck grout transportation have revelled to be the most efficient pouring method. Production goal have been reach.

  KCG support crew have been move to Friday schedule

  Slurry pond have been rearrange and excavate.

  A new pond have been created on the north side of WTD

CURRENT WEEK: 07/10 @ 13/10

- **SECANT PILE WALL**

  Piling production

  - Continue drilling and grouting with vaccum truck
  - Grouting 511 m³ (Based on initial target of 73m³/day)
  - End forecasted on Dec. 21st at this rate

  Target of 98 m³/day to be realized to catch up on initial schedule (End forecasted Dec 10th)

- **NORTH EAST DIKE**

  Foundation excavation work completion

- **MAMMOTH DIKE**

  Foundation excavation delayed once the ground is froze enough to attenuate water flow.

- **MICELLANEOUS**

  QA need to confirm in written the tests and samplings process

  HFDI equipment winterization

  Blizzard procedure to implement

  - Add HFDI input in the blizzard procedure

  Corebarell drilling test result to be sent by QA/QC

  - Seem to be efficient at first sight (30 % overrun observe)

  Cement inventory is to be maintain at 25 sea can in case on blizzard

  AEM ask if it is possible to begin the injection before HFDI work completion. KCG answer that the smaller permodome is require to do the injection. O.J. propose the alternative of replacing the permodome by a seacan shelter. KCG will need to be advise in advance in we go ahead with that planning.

- **HEALTH & SAFETY**

  A workers fell while climbing on an excavator. His foot slep.

  It resulted with a broken arm. The worker have been send south and will be put on light duty.

- **ENVIRONMENT**

  No event have been reported

NEXT WEEK: 14/10 @ 20/10

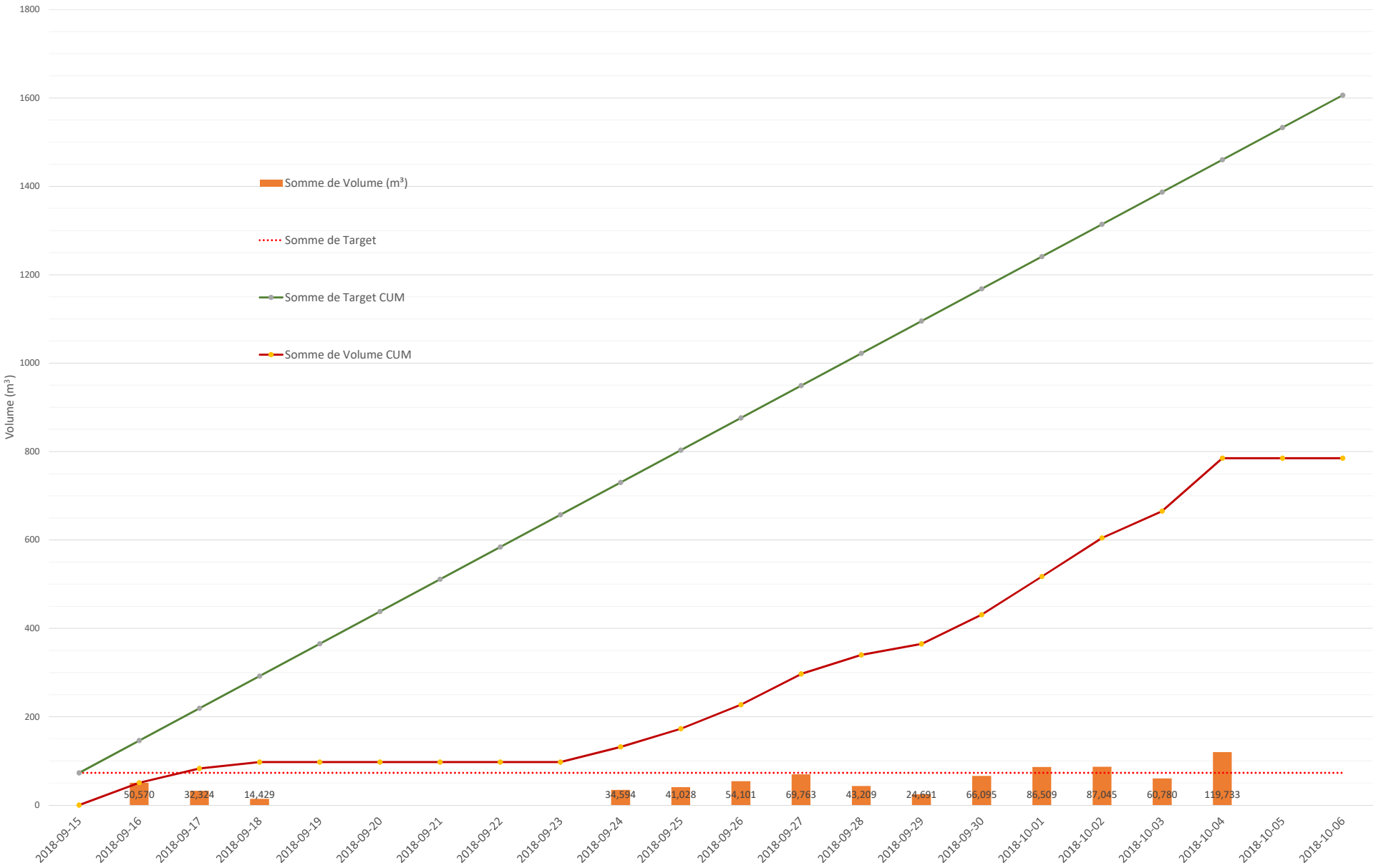
- **SECANT PILE WALL**

  Grouting 511 m³

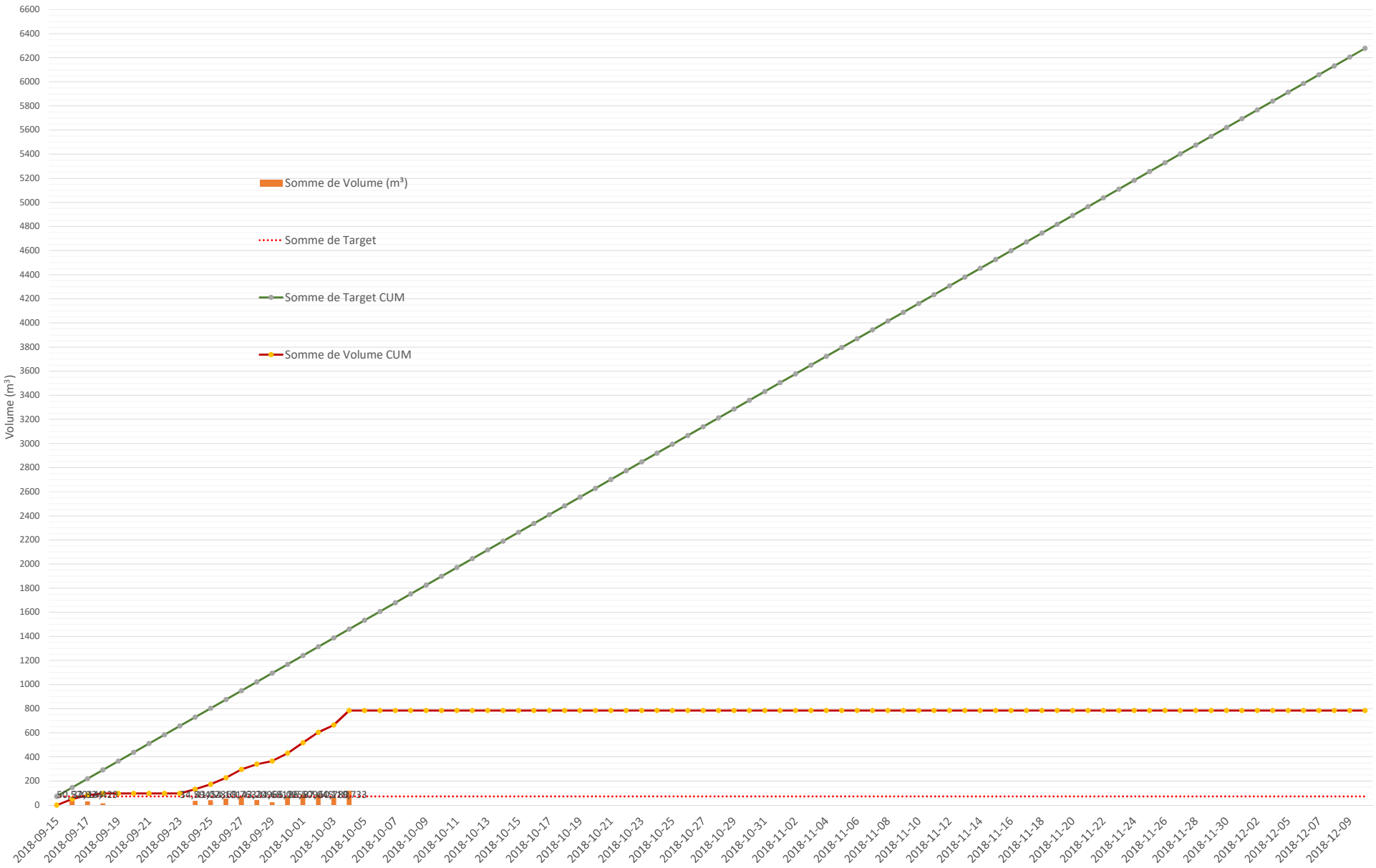
- **MAMMOTH DIKE**

  Possibly restarting excavation if it's frozen enough

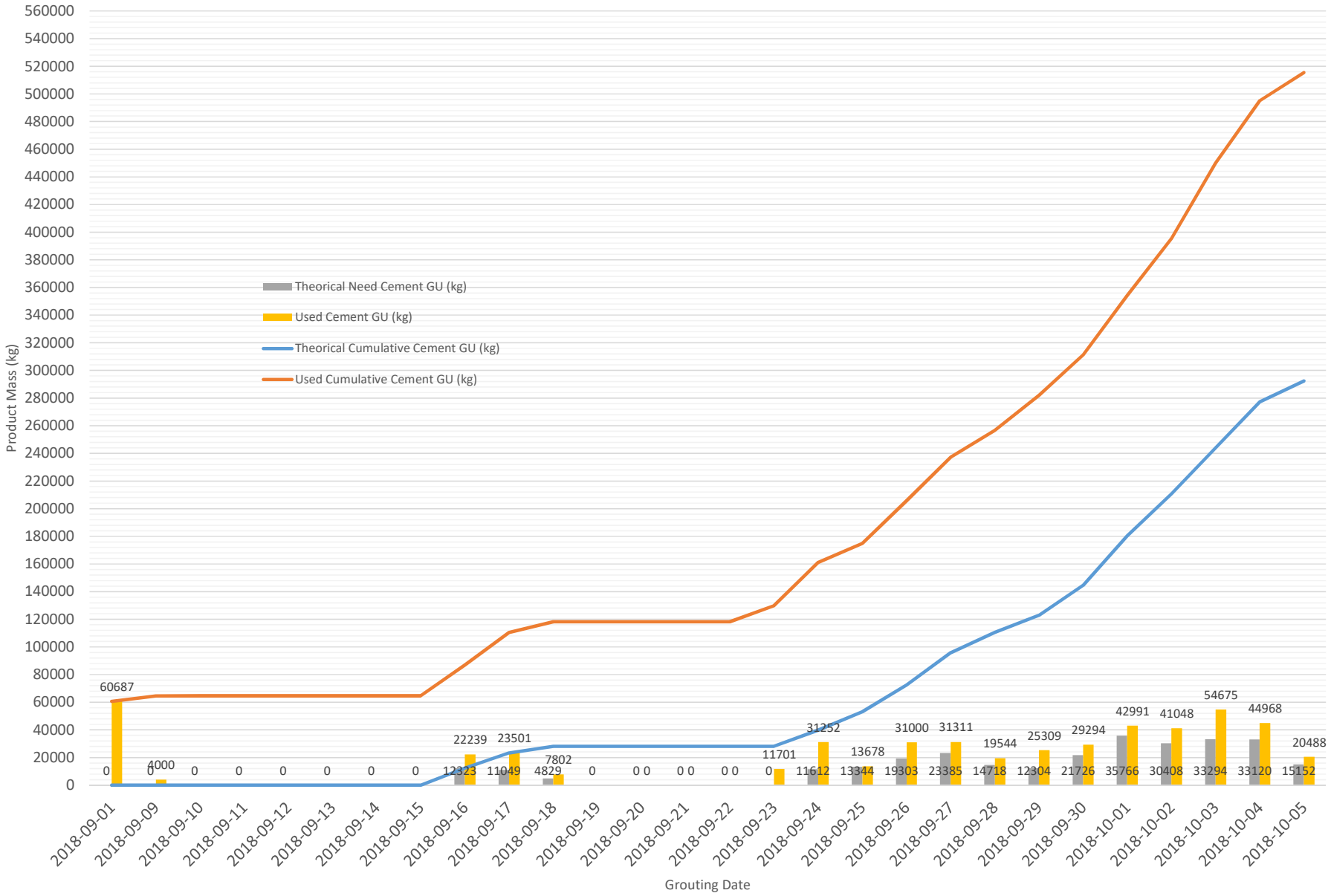
KPI - SECANT PILE GROUTING - 05/10 Update



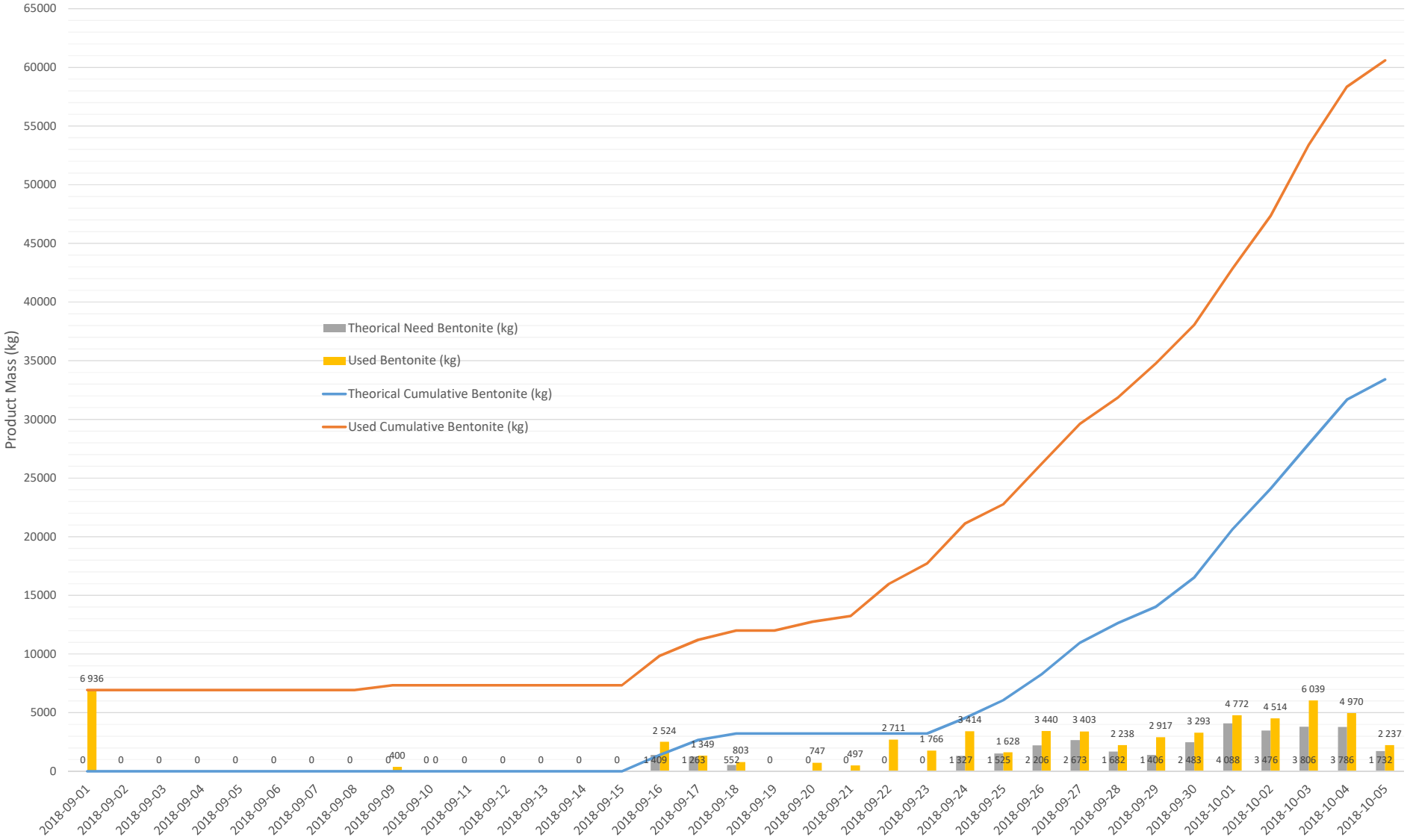
KPI - SECANT PILE GROUTING - 05/10 Update



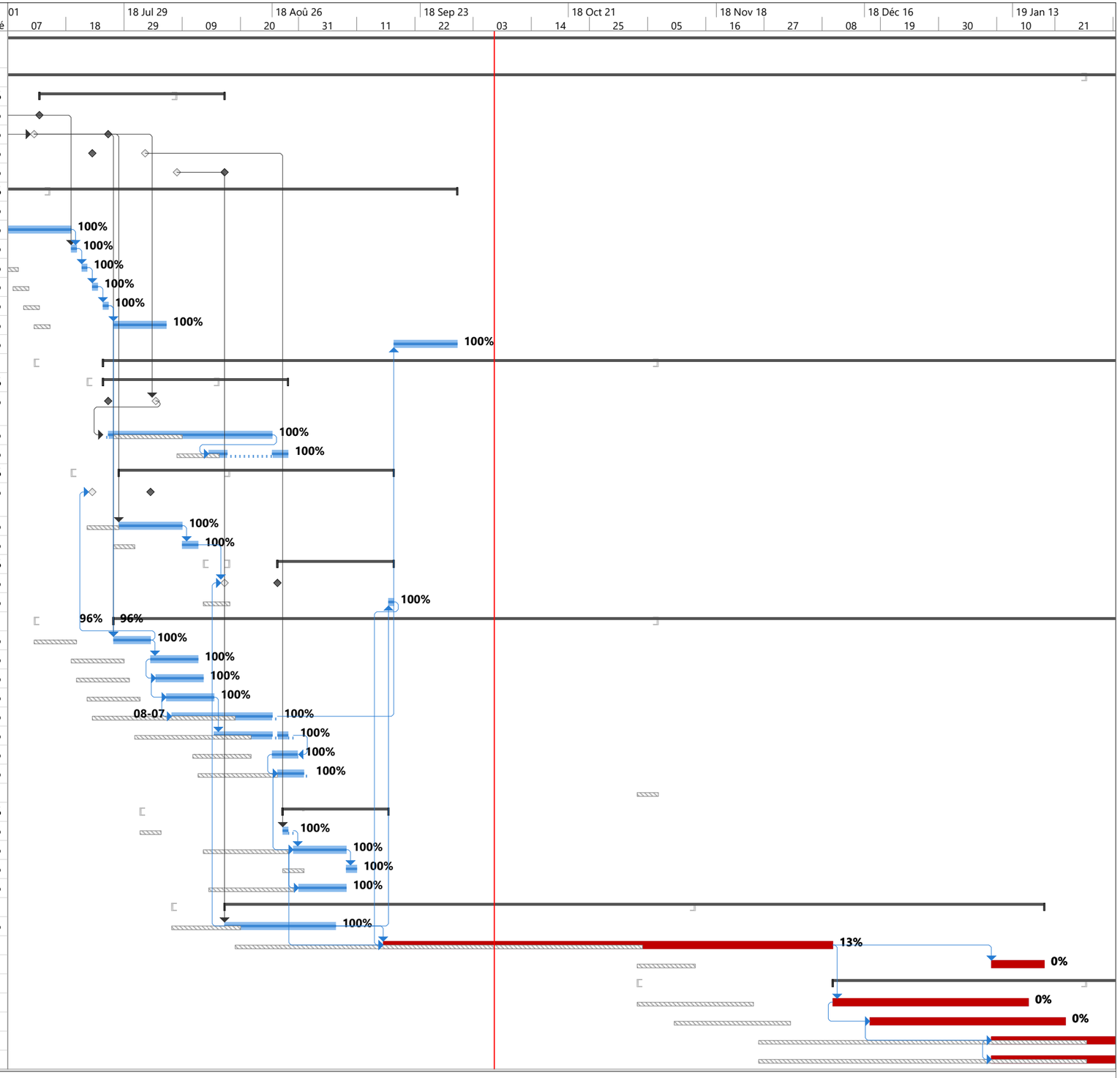
KPI - Product Consumption Cement - 05/10 Update



KPI - Product Consumption Bentonite - 05/10 Update



N°	Nom de la tâche	Durée	Début	Fin	% achevé
1	**AGNICO EAGLE - WHALE TAIL EARTHWORK - CONSTRUCTION**	**463 jours**	**Lun 18-06-18**	**Jeu 19-10-10**	**31%**
2	**Whale Tail Dike**	**237 jours**	**Lun 18-06-18**	**Mar 19-02-26**	**54%**
3	**Milestones - Key dates**	**35 jours**	**Ven 18-07-13**	**Ven 18-08-17**	**100%**
4	Permit Obtention	0 jour	Ven 18-07-13	Ven 18-07-13	100%
5	End of Permit Notice delay	0 jour	Jeu 18-07-26	Jeu 18-07-26	100%
6	Barge Material Arrival - Dynamic Compaction	0 jour	Lun 18-07-23	Lun 18-07-23	100%
7	Barge Material Arrival - Secant piles	0 jour	Ven 18-08-17	Ven 18-08-17	100%
8	**Turbidity Barrier**	**104 jours**	**Lun 18-06-18**	**Dim 18-09-30**	**100%**
9	Start	0 jour	Lun 18-06-18	Lun 18-06-18	100%
10	Turbidity Barrier Preparation	31 jours	Lun 18-06-18	Jeu 18-07-19	100%
11	Installation #1	1 jour	Jeu 18-07-19	Ven 18-07-20	100%
12	Installation #2	1 jour	Sam 18-07-21	Dim 18-07-22	100%
13	Installation #3	1 jour	Lun 18-07-23	Mar 18-07-24	100%
14	Installation #4	1 jour	Mer 18-07-25	Jeu 18-07-26	100%
15	Installation #5 (optional)	10 jours	Ven 18-07-27	Lun 18-08-06	100%
16	Barriers Removal (D-E-C; A-B to stay there)	12 jours	Mar 18-09-18	Dim 18-09-30	100%
17	**Excavation & Embankment**	**200 jours**	**Mer 18-07-25**	**Mar 19-02-26**	**98%**
18	**East Abutment**	**35 jours**	**Mer 18-07-25**	**Mer 18-08-29**	**100%**
19	Drilling&Blasting East Abutment (Within specified limit)	0 jour	Jeu 18-07-26	Jeu 18-07-26	100%
20	Excavation East Abutment (m³)	32 jours	Mer 18-07-25	Dim 18-08-26	100%
21	Coarse, Fine Filter & Rockfill Placement	15 jours	Mar 18-08-14	Mer 18-08-29	100%
22	**West Abutment**	**52 jours**	**Sam 18-07-28**	**Mar 18-09-18**	**100%**
23	Drilling&Blasting West Abutment (Within specified limit)	0 jour	Jeu 18-08-02	Jeu 18-08-02	100%
24	Excavation Abutment West (m³)	12 jours	Sam 18-07-28	Jeu 18-08-09	100%
25	Coarse, Fine Filter & Rockfill Placement	3 jours	Jeu 18-08-09	Dim 18-08-12	100%
26	**Slurry Wall**	**22 jours**	**Lun 18-08-27**	**Mar 18-09-18**	**100%**
27	Slurry Wall Excavation	0 jour	Lun 18-08-27	Lun 18-08-27	100%
28	Slurry Wall Backfill	1 jour	Lun 18-09-17	Mar 18-09-18	100%
29	**Dike construction**	**198 jours**	**Ven 18-07-27**	**Mar 19-02-26**	**96%**
30	Rockfill placement (Bottom to 154) -2 team	7 jours	Ven 18-07-27	Ven 18-08-03	100%
31	Lake Bed Mass Excavation (West to East)	9 jours	Ven 18-08-03	Dim 18-08-12	100%
32	Lake Bed Final Clean-up	9 jours	Sam 18-08-04	Lun 18-08-13	100%
33	Coarse Filter - Key Trench (Bottom to 154)	9 jours	Lun 18-08-06	Mer 18-08-15	100%
34	Fine Filter - Key Trench (Bottom to 154)	20 jours	Mar 18-08-07	Lun 18-08-27	100%
35	Fine Filter Placement (From 154 to 157)	15 jours	Mer 18-08-15	Jeu 18-08-30	100%
36	Coarse Filter Placement (From 154 to 157)	5 jours	Dim 18-08-26	Ven 18-08-31	100%
37	Rockfill Placement (From 154 to 157)	6 jours	Lun 18-08-27	Dim 18-09-02	100%
38	Rockfill Placement (From 157 to Top) - access road	3 jours	Sam 19-02-23	Mar 19-02-26	0%
39	**Dynamic Compaction**	**20 jours**	**Mar 18-08-28**	**Lun 18-09-17**	**100%**
40	Dynamic Compaction Setup	1 jour	Mar 18-08-28	Mer 18-08-29	100%
41	Dynamic Compaction Production (m²)	10 jours	Mer 18-08-29	Sam 18-09-08	100%
42	Dynamic Compaction Demob	2 jours	Sam 18-09-08	Lun 18-09-10	100%
43	Fine Filter Placement (backfill after compaction)	9 jours	Jeu 18-08-30	Sam 18-09-08	100%
44	**Secant pile wall**	**139 jours**	**Ven 18-08-17**	**Sam 19-01-19**	**28%**
45	Mobilisation (Mixing plant & 1st rig Set-up)	21 jours	Ven 18-08-17	Ven 18-09-07	100%
46	Secant pile wall - Production	85 jours	Dim 18-09-16	Lun 18-12-10	13%
47	Demobilization	10 jours	Mer 19-01-09	Sam 19-01-19	0%
48	**Grouting**	**59 jours**	**Lun 18-12-10**	**Sam 19-02-23**	**0%**
49	Casing Installation for Injection (meters)	21 jours	Lun 18-12-10	Mer 19-01-16	0%
50	Drilling Bedrock (meters)	21 jours	Lun 18-12-17	Mer 19-01-23	0%
51	Injection (# holes)	45 jours	Mer 19-01-09	Sam 19-02-23	0%
52	Instrumentation	45 jours	Mer 19-01-09	Sam 19-02-23	0%



Amaruq Dike Construction 2018 – 3 Weeks Meeting

LAST WEEK: 07/10 @ 13/10

- **HEALTH & SAFETY**
  - A workers walked in a freshly grouted secant pile hole. The workers have not been injured
    - Work method have been reviewed with every workers
    - Correctives measures have been put in places
  - Near miss: A casing roll off the fork of the Telehandler a hit a pick-up truck. Corrective measure have been taken. It is now prohibited to move a casing with the Telehandler.
  - Ice cover the floor of the dike where the piles are being poor. Workers have to wear proper PPE (Spiked shoe).
- **ENVIRONMENT**
  - Minor hydraulic oil spill on BG30 drill
  - South side CB pond is to be excavated before winter.
- **SECANT PILE WALL**
  - Piling production
    - Pursuing the drilling and grouting
    - 260 piles grouted in date of October 13th (1490 m³)
    - 82 piles grouted last week (560 m³)
    - 24% of actual progress against 34% planned
  - Winterization of site and equipment 90% completed
    - Vaccum garage construction (Walkway winterization)
    - Heated portable pump station (Skid trailer)
    - Heated seacan for workers on the dike
- **NORTH EAST DIKE**
  - No activities
- **WRSF DIKE**
  - WRSF excavation completed at 80 %
  - Slope excavation
  - Rock cleaning
- **MICELLANEOUS**
  - KCG garage ground installation
  - KCG warehouse construction (Laydown & Seacan installation)
  - Batchplant Genset optimisation (80% completed)
  - GU cement reception
  - Corebarel Drilling method reveal to be efficient.
    - Average cement consumption drop down to 38%

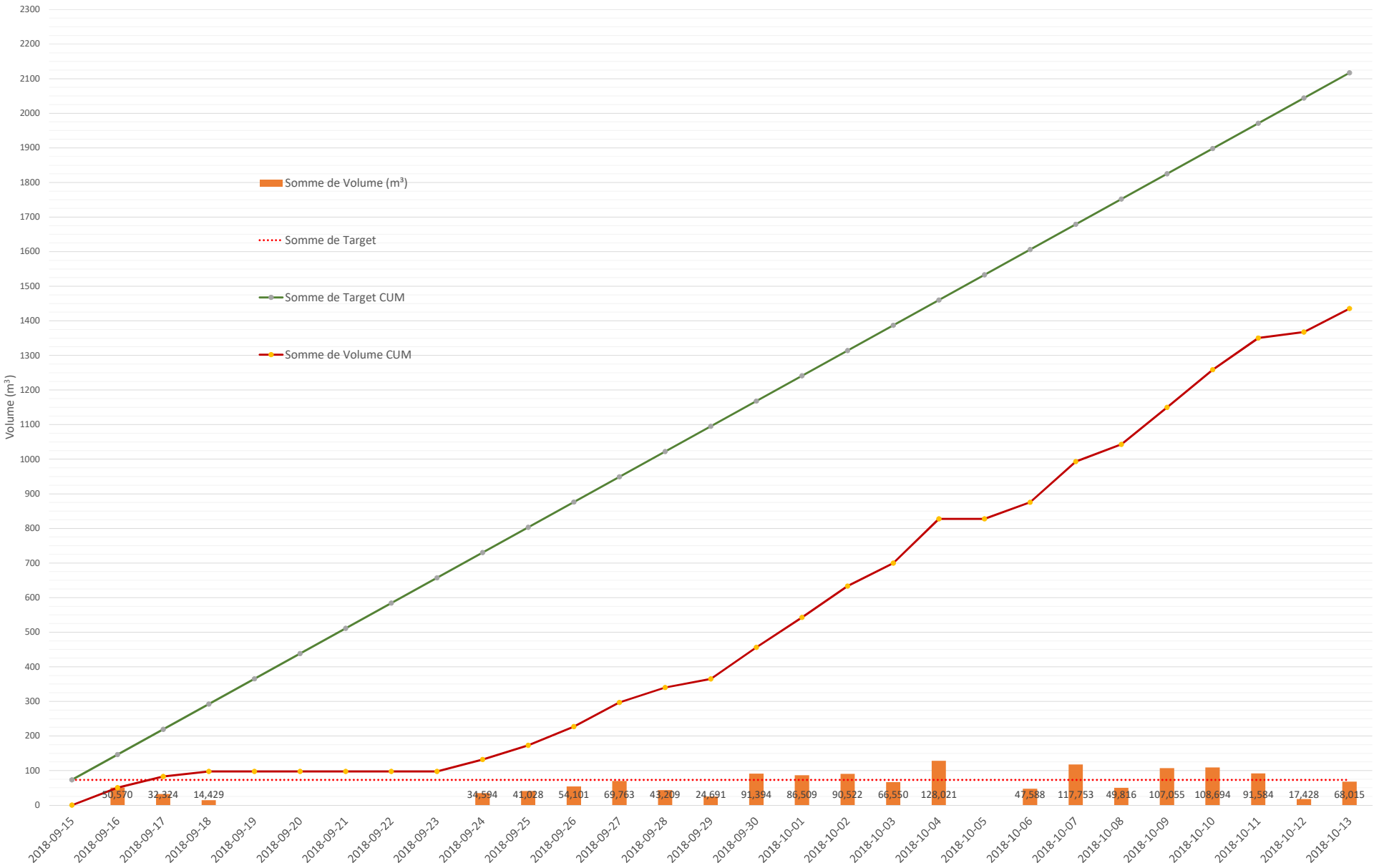
CURRENT WEEK: 14/10 @ 20/10

- **SECANT PILE WALL**
  - Piling production
    - Continue drilling and grouting with vaccum truck
    - Grout 511 m³ (Based on initial target of 73m³/day)
  - Target of 81 m³/day to be realized to catch up on initial schedule (End forecasted Dec 10th)
- **NORTH EAST DIKE**
  - Foundation excavation work completion
- **WRSF DIKE**
  - Foundation excavation (Tramac rock over crop)
  - Rock cleaning
- **MAMMOTH DIKE**
  - Foundation excavation delayed once the ground is froze enough to attenuate water flow.
- **MICELLANEOUS**
  - Cement inventory is to be maintain at 25 sea can in case on blizzard
  - KCG is still waiting for confirmation from AEM for the injection
    - Prep work for injection can start in parallel of HDFI activities
    - Production will start once HI have completed a least 75%
    - Meeting is to be held Monday.
  - KCG will send to AEM adjusted theoretical quantity for Mammoth Dike, WRSF Dike, and North East Dike. We need to plan the quantity of aggregate to be crushed for the construction of those structure.

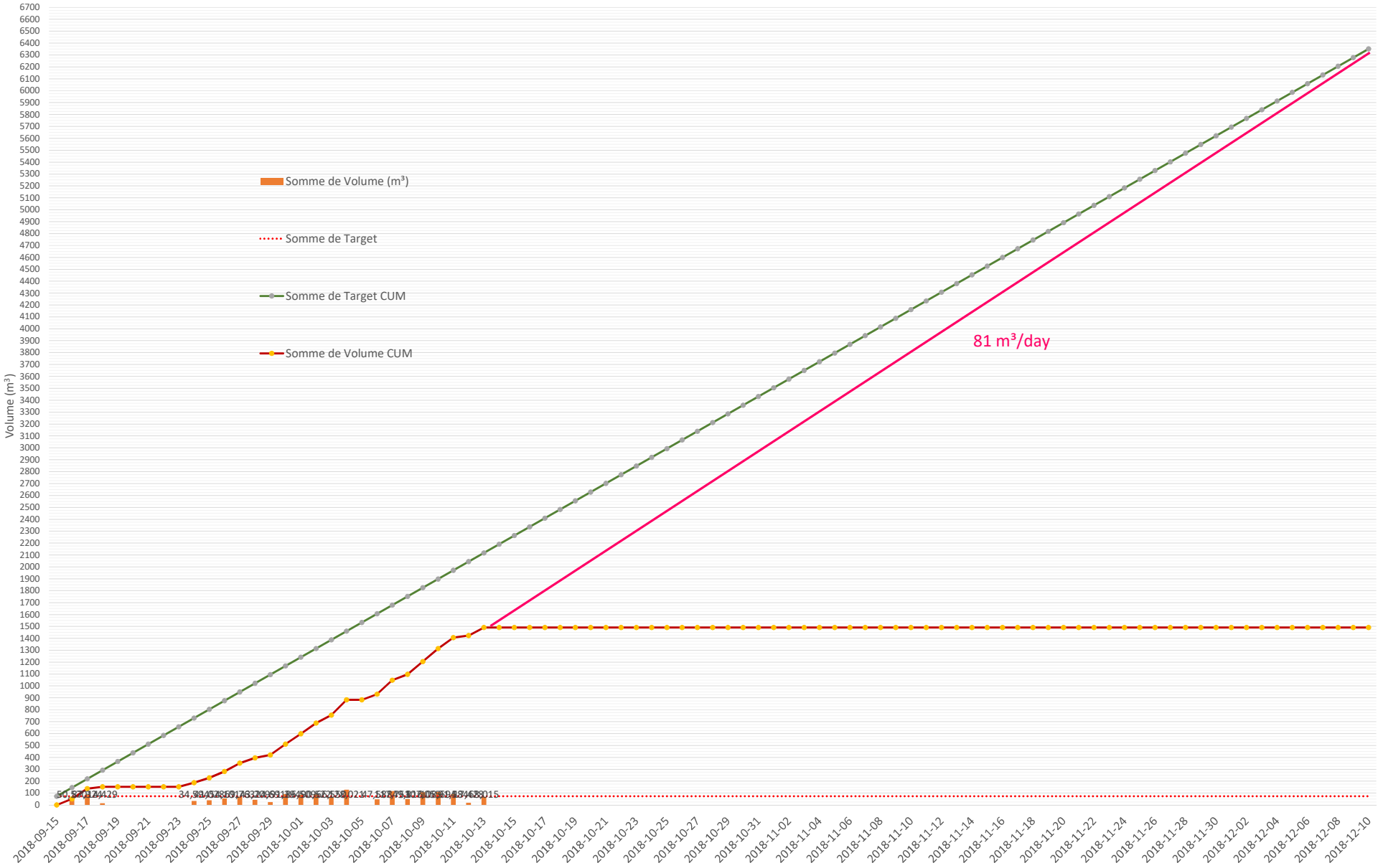
NEXT WEEK: 21/10 @ 27/10

- **SECANT PILE WALL**
  - Pursue piling production
  - Grout 511 m³
- **MAMMOTH DIKE**
  - Rock platform for D&B if NPAG rock is available
  - Inventory of geomembrane have to be made to ensure the quantity for the dike are on site.

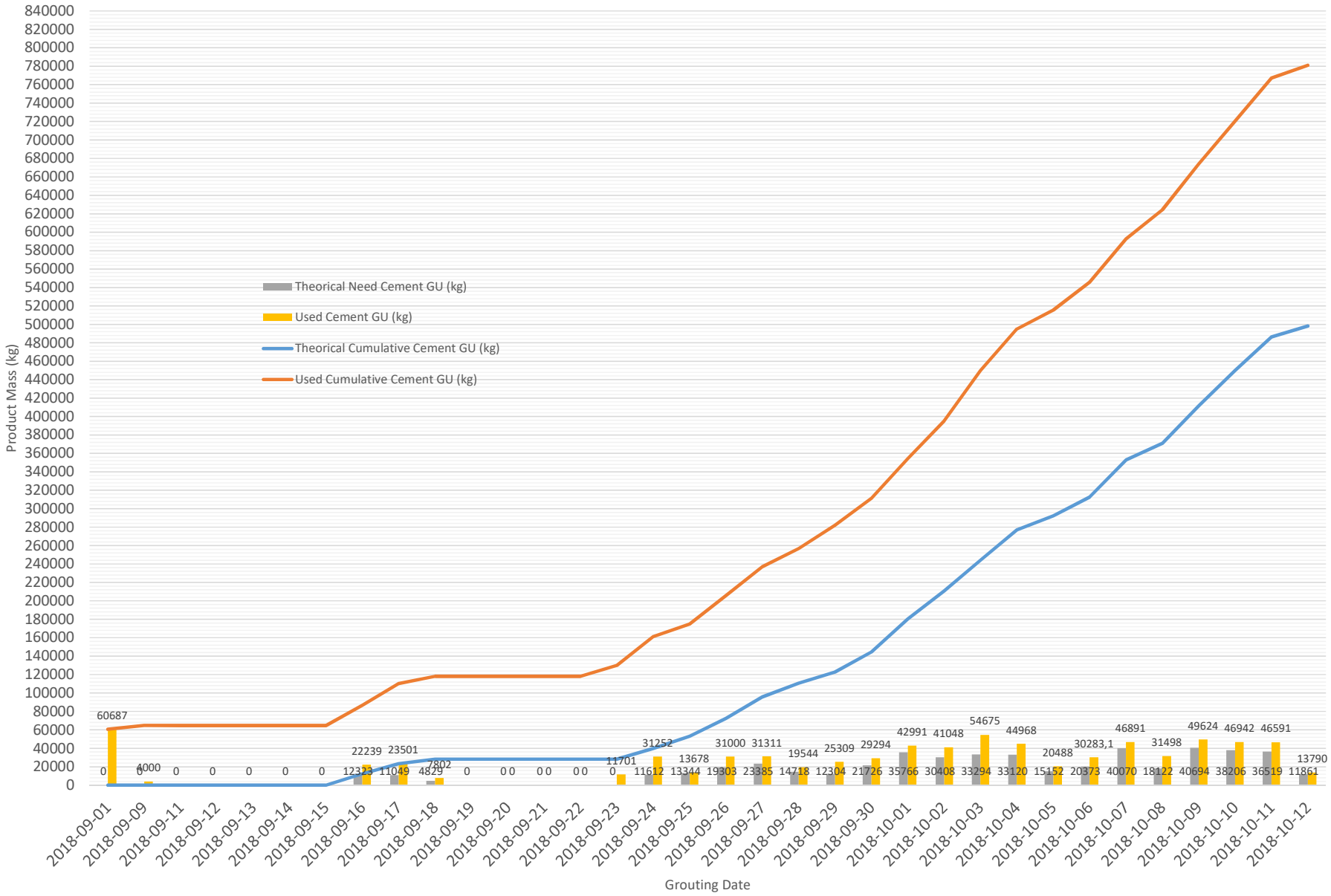
KPI - SECANT PILE GROUTING - 12/10 Update



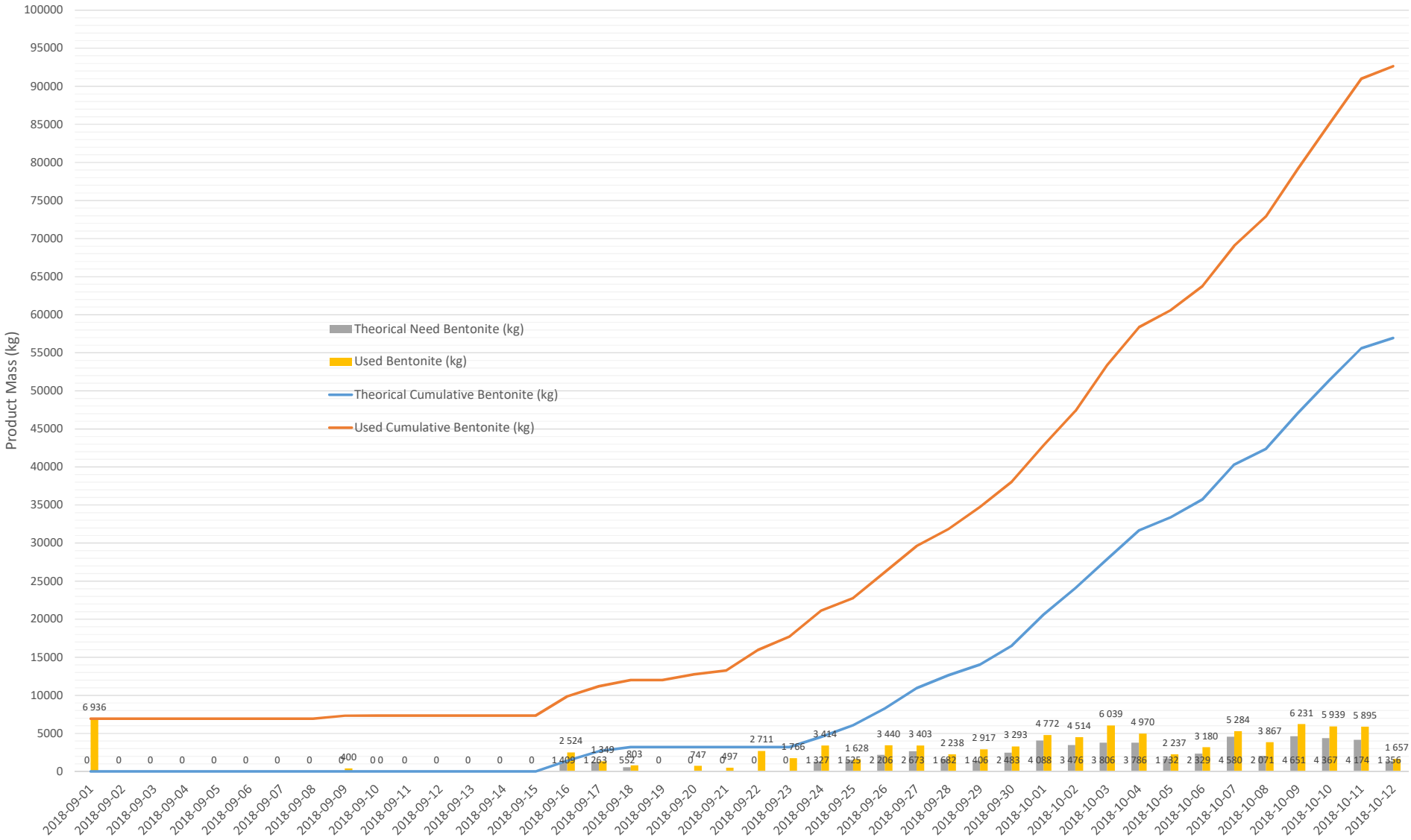
KPI - SECANT PILE GROUTING - Forecast



KPI - Product Consumption Cement - 12/10 Update



KPI - Product Consumption Bentonite - 12/10 Update



Quantity summary

	Cement GU		Cement HE		Bentonite	
Total	Bags	Weight (T)	Bags	Weight (T)	Bags	Weight (T)
2017	400,0	400	380,0	380	458,0	625
2018	1438,0	2732	1150,0	1150	861,0	781
Total ordered		3132	1530	1530	1319	1406
On site	Bags	Weight (T)	Bags	Weight (T)	Bags	Weight (T)
2017	400,0	400	380,0	380	445,5	608
2018	460,0	874	0,0	0	20,0	18
Total on site		1274		380		626

	Cement GU (T)	Cement HE (T)	Bentonite (T)
Used	**781,1**	**0,0**	**92,6**
Left on site	**492,9**	**380,0**	**533,2**

Volume Water (L)	
Water Cumulatif	**1923598,0**

Quantity Projection of Cement	
Ciment Rate CB Mix (kg/m^3)	348,56
Total Secant Pile Volume (m^3)	6233,28
Total Cement Required in Secant piles (T)	2172,7
Total Cement Ordered (T)	3132,0
Actual Cement Contengency	44%
Average Estimated Production Over Run	38%
Required Quantity According to Production Over Run (T)	2998,3
Required Balance (T)	**-133,7**
Number of Seacan	**-7,0**

Amaruq Dike Construction 2018 – 3 Weeks Meeting

LAST WEEK: 21/10 @ 27/10

●HEALTH & SAFETY

KCG have met all the crews working on the dike in order to review every incident with them. Some discussion have been done about preventive measures to apply for avoid additional incidents in the future.

●ENVIRONMENT

No event

●SECANT PILE WALL

Piling production

- Batch plan situation
  - Restart on 26/10 night shift
  - Back-up plan : Injection unit (1 working)
- 353 piles grouted in date of October 27th (2159 m³)
- 19 piles grouted last week (149 m³)
- 35% of actual progress against 50% planned
- Actual production (Past week) : 21m³/day
  - Average : 67,0 m³/day (On production days)

Winterization of site and equipment 95% completed

●NORTH EAST DIKE

Foundation excavation 90% completed (Some Tramac work left)

●WRSF DIKE

Foundation excavation 90% completed (Some Tramac work left)

●MAMMOTH DIKE

Wait for the availability of NPAG for Drill & Blast pad

●MISELLANEOUS

KCG warehouse construction (Laydown & Seacan installation)
Batch plant Genset optimisation almost completed
GU cement reception
Blizzard procedure was establish
Inventory of geomembrane is completed

- Stock : 12 800 m²
- Need : 11 665 m² (20% contingency)

Cement GU Seacan Inventory :

- Stock : 879,8 T (46 seacans)
- Target : 475 T (25 seacans)

CURRENT WEEK: 28/10 @ 03/11

●SECANT PILE WALL

Piling production

- Continue drilling and grouting
- Grout 511 m³ (Based on initial target of 73m³/day)

Target of 93 m³/day to be realized to catch up on initial schedule (End forecasted Dec 10th)
Actual forecast: Dec 29th (67 m³/day)
Working on the installation of the second injection unit and.

●NORTH EAST DIKE

Tramac job on the foundation
Wait for the availability of NPAG and aggregates (January)

●WRSF DIKE

Foundation excavation completed
Wait for the availability of NPAG and aggregates (January)

●MAMMOTH DIKE

Wait for the availability of NPAG for Drill & Blast pad (January)

●MISELLANEOUS

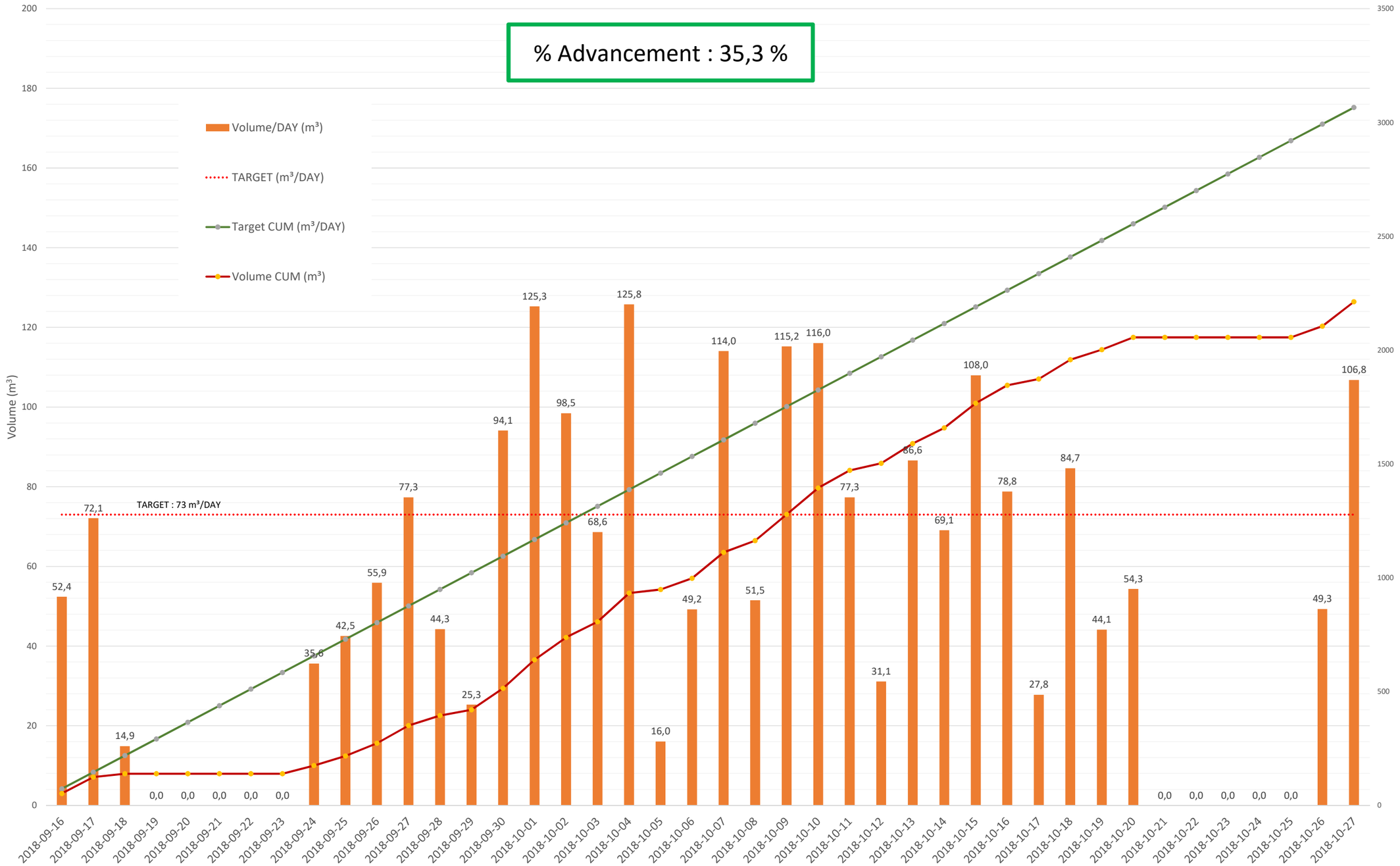
Working batch plant optimisation
KCG to AEM updated schedule for the auxiliary dikes construction, according to the correction proposed by AEM and to the adjusted theoretical quantity of the dikes.

NEXT WEEK: 04/11 @ 10/11

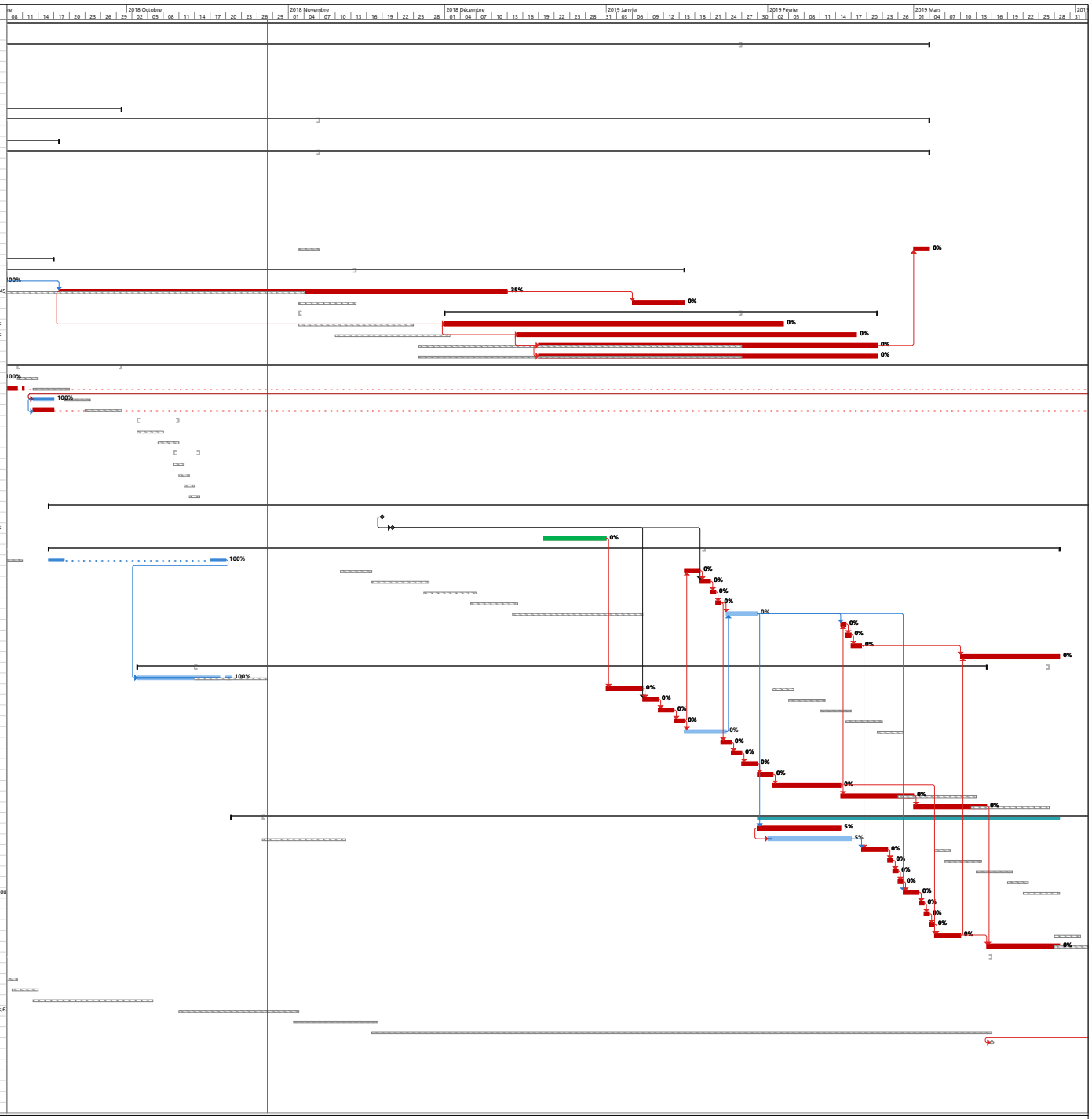
●SECANT PILE WALL

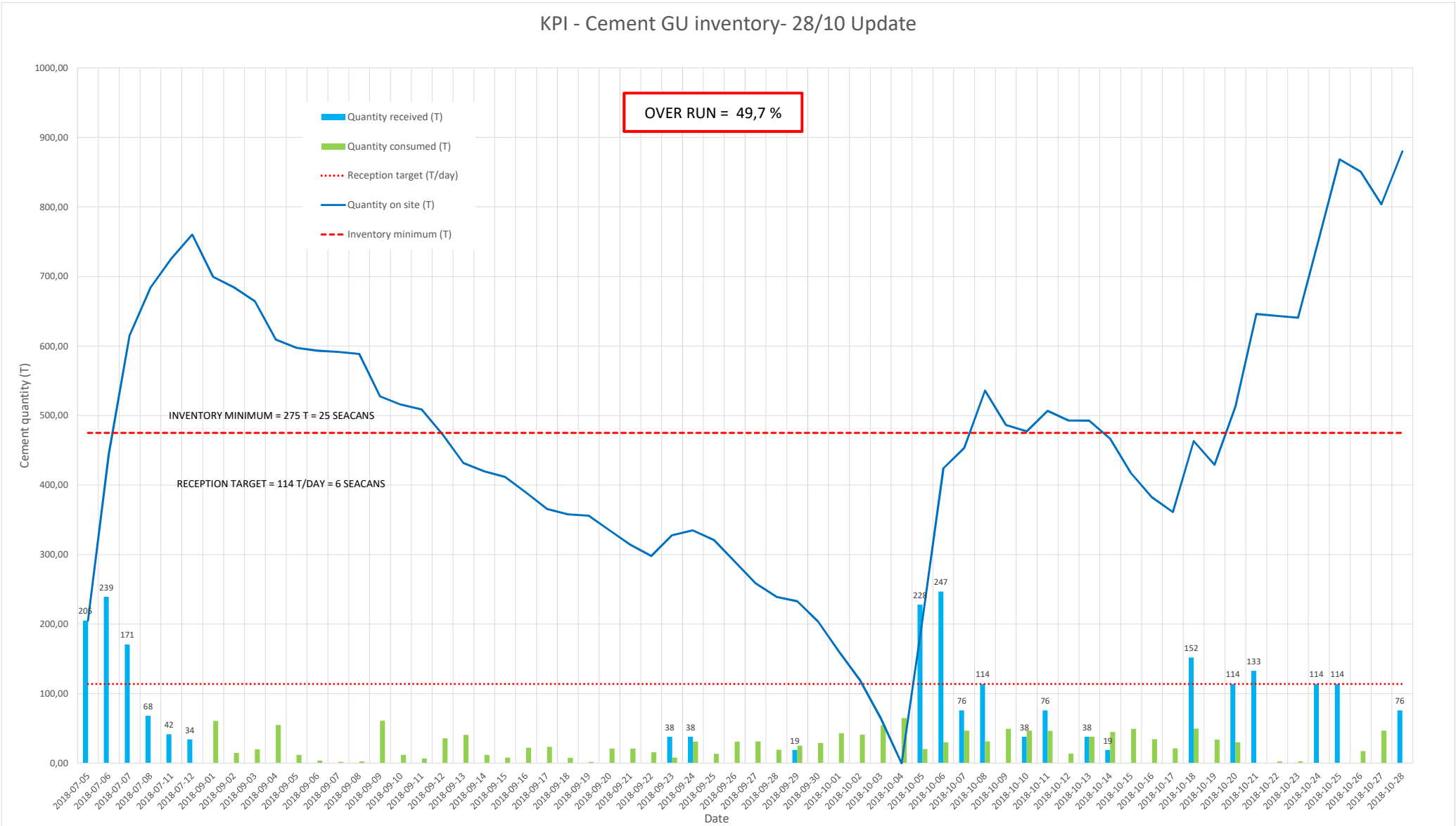
Pursue piling production
Target : Grout 511 m³

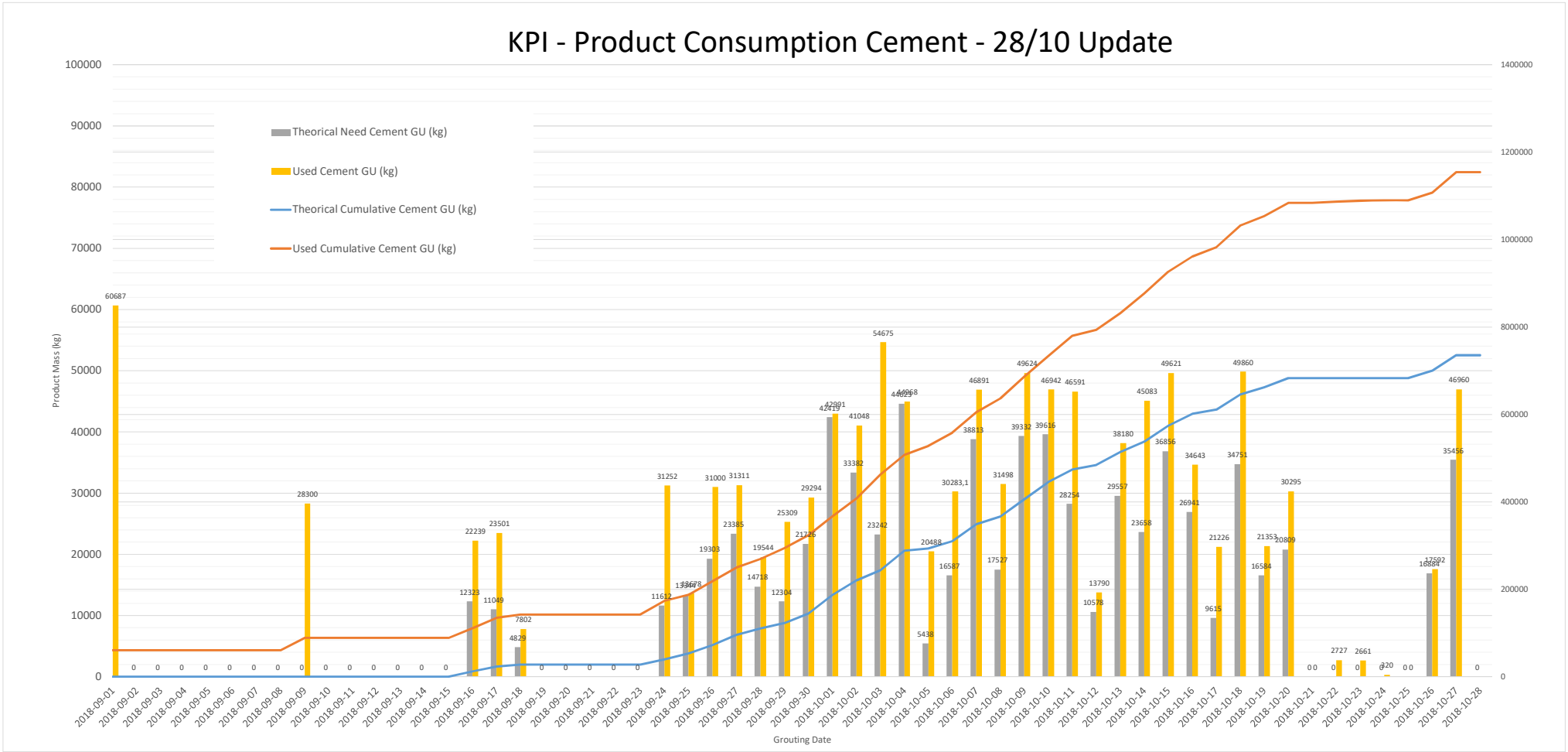
KPI - VOLUME GROUTING - 28/10 Update



N°	Nom de la tâche	Durée	Début	Fin	% achevé	Quantity	Prédécesseurs
1	AGNICO EAGLE - WHALE TAIL EARTHWORK - CONSTRUCTION	441 jours	Lun 18-06-18	Jeu 19-09-12	38%		
2	Whale Tail Dike	249 jours	Lun 18-06-18	Lun 19-03-04	49%		
3	Milestones - Key dates	35 jours	Ven 18-07-13	Ven 18-08-17	100%		
4	Permit Obtention	0 jour	Ven 18-07-13	Ven 18-07-13	100%		
5	End of Permit Notice delay	0 jour	Jeu 18-07-26	Jeu 18-07-26	100%		4DD+10 jours
6	Barge Material Arrival - Dynamic Compaction	0 jour	Lun 18-07-23	Lun 18-07-23	100%		
7	Barge Material Arrival - Secant piles	0 jour	Ven 18-08-17	Ven 18-08-17	100%		
8	Turbidity Barrier	104 jours	Lun 18-06-18	Dim 18-09-30	100%		
17	Excavation & Embankment	212 jours	Mer 18-07-25	Lun 19-03-04	98%		
18	East Abutment	35 jours	Mer 18-07-25	Mer 18-08-29	100%		
22	West Abutment	52 jours	Sam 18-07-28	Mar 18-09-18	100%		
29	Dike construction	210 jours	Ven 18-07-27	Lun 19-03-04	96%		
30	Rockfill placement (Bottom to 154) -2 team	7 jours	Ven 18-07-27	Ven 18-08-03	100%	73126	14;5
31	Lake Bed Mass Excavation (West to East)	9 jours	Ven 18-08-03	Dim 18-08-12	100%	23292	30
32	Lake Bed Final Clean-up	9 jours	Sam 18-08-04	Lun 18-08-13	100%		31DD+1 jour
33	Coarse Filter - Key Trench (Bottom to 154)	9 jours	Lun 18-08-06	Mer 18-08-15	100%	14525	32DD+2 jours
34	Fine Filter - Key Trench (Bottom to 154)	20 jours	Mar 18-08-07	Lun 18-08-27	100%	56702	33DD+1 jour
35	Fine Filter Placement (From 154 to 157)	15 jours	Mar 18-08-15	Jeu 18-08-30	100%	34753	33
36	Coarse Filter Placement (From 154 to 157)	5 jours	Dim 18-08-26	Ven 18-08-31	100%	16163	35FF
37	Rockfill Placement (From 154 to 157)	6 jours	Lun 18-08-27	Dim 18-09-02	100%	60109	36DD
38	Rockfill Placement (From 157 to Top) - access road	3 jours	Ven 19-03-01	Lun 19-03-04	0%	9411	51
39	Dynamic Compaction	20 jours	Mar 18-08-28	Lun 18-09-17	100%		
44	Secant pile wall	141,98 jou	Ven 18-08-17	Mar 19-01-15	43%		
45	Mobilisation (Mixing plant & 1st rig Set-up)	21 jours	Ven 18-08-17	Ven 18-09-07	100%		7
46	Secant pile wall - Production	85,98 jours	Mar 18-09-18	Mer 18-12-12	35%	6272	41DD+2 jours;45
47	Demobilization	10 jours	Sam 19-01-05	Mar 19-01-15	0%		46FD+14 jours
48	Grouting	73 jours	Sam 18-12-01	Ven 19-02-22	0%		
49	Casing Installation for Injection (meters)	55 jours	Sam 18-12-01	Lun 19-02-04	0%		46DD+74 jours
50	Drilling Bedrock (meters)	55 jours	Sam 18-12-15	Lun 19-02-18	0%		49DD+14 jours
51	Injection (# holes)	55 jours	Mer 18-12-19	Ven 19-02-22	0%		50DD+4 jours
52	Instrumentation	55 jours	Mer 18-12-19	Ven 19-02-22	0%		51DD
53	Saline Protection Channel	232 jours	Mar 18-09-04	Sam 19-05-04	16%		
54	Excavation	3 jours	Mar 18-09-04	Ven 18-09-07	100%	2580	37FD+2 jours
55	Aggregates 0-20	5 jours	Ven 18-09-07	Jeu 19-05-02	55%	2400	54
56	Bituminous Geomembrane	4 jours	Jeu 18-09-13	Lun 18-09-17	100%	5140	55
57	Aggregates 0-40	223 jours	Jeu 18-09-13	Sam 19-05-04	12%	4150	56DD
58	East Channel	7 jours	Dim 19-09-01	Dim 19-09-08	0%		
59	Excavation	4 jours	Dim 19-09-01	Jeu 19-09-05	0%	4400	
60	Riprap	3 jours	Jeu 19-09-05	Dim 19-09-08	0%	1300	59
61	East Channel Coffer Dam	4 jours	Dim 19-09-08	Jeu 19-09-12	0%		
62	Excavation	1 jour	Dim 19-09-08	Lun 19-09-09	0%	480	60
63	Rockfill	1 jour	Lun 19-09-09	Mar 19-09-10	0%	1008	62
64	Filters	1 jour	Mar 19-09-10	Mer 19-09-11	0%	600	63
65	Till	1 jour	Mer 19-09-11	Jeu 19-09-12	0%	320	64
66	Key dates	502 jours	Dim 18-09-16	Lun 20-02-10	13%		
67	NPAG available	0 jour	Lun 18-11-19	Lun 18-11-19	0%		
68	Aggregates available	0 jour	Mer 18-11-21	Mer 18-11-21	0%		67DD+2 jours
69	Christmas holidays	2 jours	Jeu 18-12-20	Mar 19-01-01	0%		
70	North East Dike	184 jours	Dim 18-09-16	Ven 19-03-29	49%		
71	Excavation	34 jours	Dim 18-09-16	Sam 18-10-20	100%	22035	
72	Rockfill - Under BGM (15%)	3 jours	Mer 19-01-16	Sam 19-01-19	0%	6080	86
73	Coarse Filter - Under BGM (50%)	2 jours	Sam 19-01-19	Lun 19-01-21	0%	1121	72;68
74	Fine Filter - Under BGM (50%)	1 jour	Lun 19-01-21	Mar 19-01-22	0%	785	73
75	Fine Filter Amended with Bentonite - Under BGM (50%)	1 jour	Mar 19-01-22	Mer 19-01-23	0%	665	74
76	Bituminous Geomembrane	6 jours	Jeu 19-01-24	Mer 19-01-30	0%	4369	75;87
77	Fine Filter Amended with Bentonite - Above BGM (50%)	1 jour	Ven 19-02-15	Sam 19-02-16	0%	665	76;92
78	Fine Filter - Above BGM (50%)	1 jour	Sam 19-02-16	Dim 19-02-17	0%	785	77
79	Coarse Filter - Above BGM (50%)	2 jours	Dim 19-02-17	Mar 19-02-19	0%	1121	78
80	Rockfill - Above BGM (85%)	19 jours	Dim 19-03-10	Ven 19-03-29	0%	38268	79;106
81	WRSF Dike	153 jours	Mer 18-10-03	Ven 19-03-15	20%		
82	Excavation	18 jours	Mer 18-10-03	Dim 18-10-21	100%	17750	71
83	Rockfill - Under BGM (35%)	7 jours	Mar 19-01-01	Mar 19-01-08	0%	13640	69
84	Coarse Filter - Under BGM (50%)	3 jours	Mar 19-01-08	Ven 19-01-11	0%	2175	83;68
85	Fine Filter - Under BGM (50%)	3 jours	Ven 19-01-11	Lun 19-01-14	0%	1785	84
86	Fine Filter Amended with Bentonite - Under BGM (50%)	2 jours	Lun 19-01-14	Mer 19-01-16	0%	1434	85
87	Bituminous Geomembrane	8 jours	Mer 19-01-16	Jeu 19-01-24	0%	5760	86
88	Fine Filter Amended with Bentonite - Above BGM (50%)	2 jours	Mer 19-01-23	Ven 19-01-25	0%	800	75
89	Rockfill - Pad (10 %)	2 jours	Ven 19-01-25	Dim 19-01-27	0%	4700	88
90	Fine Filter - Above BGM (50%)	3 jours	Dim 19-01-27	Mer 19-01-30	0%	1785	89
91	Coarse Filter - Above BGM (50%)	3 jours	Mer 19-01-30	Sam 19-02-02	0%	2175	90
92	Rockfill - Above BGM (55%)	13 jours	Sam 19-02-02	Ven 19-02-15	0%	27560	91
93	Grout Curtain	14 jours	Ven 19-02-15	Ven 19-03-01	0%		92
94	Instrumentation	14 jours	Ven 19-03-01	Ven 19-03-15	0%		93
95	Mammoth Dike	167 jours	Sam 18-10-20	Lun 19-04-15	2%		
96	Drilling&Blasting	16 jours	Mer 19-01-30	Ven 19-02-15	5%	20800	76
97	Excavation	16 jours	Ven 19-02-01	Dim 19-02-17	5%	20800	96DD+2 jours
98	Rockfill - Under BGM (50%)	5 jours	Mar 19-02-19	Dim 19-02-24	0%	8730	97;79
99	Coarse Filter - Under BGM (50%)	1 jour	Dim 19-02-24	Lun 19-02-25	0%	556	98
100	Fine Filter - Under BGM (50%)	1 jour	Lun 19-02-25	Mar 19-02-26	0%	395	99
101	Fine Filter Amended with Bentonite - Under BGM (50%)	1 jour	Mar 19-02-26	Mer 19-02-27	0%	301	100
102	Bituminous Geomembrane	3 jours	Mer 19-02-27	Sam 19-03-02	0%	1536	101;76FD+14 jou
103	Fine Filter Amended with Bentonite - Above BGM (50%)	1 jour	Sam 19-03-02	Dim 19-03-03	0%	301	102
104	Fine Filter - Above BGM (50%)	1 jour	Dim 19-03-03	Lun 19-03-04	0%	395	103
105	Coarse Filter - Above BGM (50%)	1 jour	Lun 19-03-04	Mar 19-03-05	0%	556	104
106	Rockfill - Above BGM (50%)	5 jours	Mar 19-03-05	Dim 19-03-10	0%	8730	105;92
107	Instrumentation	14 jours	Ven 19-03-15	Ven 19-03-29	0%		106;94
108	South Wall Tail Diverson Channel A45 Lake - 612 m.li.	162 jours	Dim 19-09-01	Lun 20-02-10	0%		
109	Turbidity Barriers 3 m x 330 m Li	7 jours	Dim 19-09-01	Dim 19-09-08	0%	990	
110	Access Road	7 jours	Dim 19-09-08	Dim 19-09-15	0%	34160	109
111	Platform Backfill (For D&B)	4 jours	Dim 19-09-15	Jeu 19-09-19	0%	5000	110
112	Drill and Blast	22 jours	Jeu 19-09-19	Ven 19-10-11	0%	97500	111
113	Excavation	22 jours	Mar 19-09-24	Mer 19-10-16	0%	97500	112DD+5 jours;6
114	Filters	15 jours	Mer 19-10-16	Jeu 19-10-31	0%	24000	113
115	RipRap	102 jours	Jeu 19-10-31	Lun 20-02-10	0%	112765	114
116	Instrumentation	0 jour	Lun 20-02-10	Lun 20-02-10	0%		115
117	WRSF Saddle Dam	13 jours	Mar 19-10-01	Lun 19-10-14	0%		
118	Excavation	2 jours	Mar 19-10-01	Jeu 19-10-03	0%	1500	
119	Rockfill	3 jours	Jeu 19-10-03	Dim 19-10-06	0%	7900	118
120	Coarse Filter	3 jours	Dim 19-10-06	Mer 19-10-09	0%	1200	119
121	Fine Filter	2 jours	Mer 19-10-09	Ven 19-10-11	0%	1200	120
122	Compacted Till	3 jours	Ven 19-10-11	Lun 19-10-14	0%	2100	121




KPI - Cement GU inventory- 28/10 Update
OVER RUN = 49,7 %
Quantity received (T)
Quantity consumed (T)
Reception target (T/day)
Quantity on site (T)
Inventory minimum (T)
INVENTORY MINIMUM = 275 T = 25 SEACANS
RECEPTION TARGET = 114 T/DAY = 6 SEACANS
Cement quantity (T)
Date


KPI - Product Consumption Cement - 28/10 Update
Theorical Need Cement GU (kg)
Used Cement GU (kg)
Theorical Cumulative Cement GU (kg)
Used Cumulative Cement GU (kg)
Product Mass (kg)
Grouting Date

KPI - Product Consumption Bentonite - 28/10 Update

