

APPENDIX A

Giant Mine - Interim Underground Stability - Drilling Summary

Area	Borehole ID	Borehole Start Data	Borehole Completion Date	Duration (Days)	Contract	Drilling Method	Proximity to Arsenic	Status	Hole Diameter [mm]	Drilled Length (m)	Deviation (%)	2D or 3D	Depth of Survey (m)	Casing			Borehole Camera	Comments
														Grouted to Bedrock (True/False)	Surface Casing Depth (m)	Final Casing Depth (m)		
A2-01/3-01/3-02	A302_Obs_04	3/9/2014	3/11/2014	2	IUS2	Diamond	Not Near Arsenic	Completed	96.1	41.5	0.2	3D	36	TRUE	5.1	-	TRUE	-
A2-01/3-01/3-02	A302_Obs_06	3/11/2014	3/14/2014	3	IUS2	Diamond	Not Near Arsenic	Completed	96.1	43.1	0.9	3D	36	TRUE	7.9	-	TRUE	-
A2-01/3-01/3-02	A302_Obs_02	3/14/2014	3/16/2014	2	IUS2	Diamond	Not Near Arsenic	Completed	96.1	55.2	1.1	3D	48	TRUE	9.1	-	TRUE	-
A2-01/3-01/3-02	A302_PD_03	5/31/2014	6/3/2014	3	IUS2	Percussion	Not Near Arsenic	Completed	235.0	56.2	1.1	3D	48	TRUE	9.0	-	TRUE	Breakthrough into sand backfilled stope. Crown pillar estimated to be 5m thicker than anticipated and
A2-01/3-01/3-02	A302_PD_01	5/5/2014	6/4/2014	30	IUS2	Percussion	Not Near Arsenic	Completed	235.0	41.5	2.4	3D	36	TRUE	3.5	-	TRUE	Not able to CMS due to muck/ice buildup at breakthrough. Void is partially backfilled and hole no
A3-70	A370_Obs_04	3/5/2014	3/7/2014	2	IUS2	Diamond	Not Near Arsenic	Completed	96.1	30.5	0.4	3D	26	TRUE	8.5	-	TRUE	-
A3-70	A370_PD_01	4/21/2014	5/1/2014	10	IUS2	Percussion	Not Near Arsenic	Hole abandoned	235.0	30.5	1	3D	18	TRUE	5.3	-	TRUE	Water inflow rate too high to continue drilling. Casing backfilled with concrete on May 1, 2014.
A3-70	A370_PD_02	5/3/2014	5/10/2014	7	IUS2	Percussion	Not Near Arsenic	Completed	235.0	35.8	2.6	3D	26	TRUE	3.1	34.5	TRUE	Final casing 1.3m short of breakthrough
A3-70	A370_PD_01B	5/3/2014	5/15/2014	12	IUS2	Percussion	Not Near Arsenic	Completed	235.0	25.9	2.9	3D	12	TRUE	5.9	25.9	TRUE	-
B1-18	Plug_Deliv_118_07	9/28/2013	10/3/2013	5	IUS1	Percussion	Not Near Arsenic	Completed	235.0	41.7	4.3	3D	40	FALSE	-	41.7	TRUE	Hole completed, need to check hole survey with planned orientation. Survey not properly orientated.
B1-18	Obs_118_03	9/28/2013	9/29/2013	1	IUS1	Diamond	Not Near Arsenic	Completed	96.1	33.3	2.1	3D	32	TRUE	2.8	-	TRUE	Hole completed, need to check hole survey with planned orientation. Sept 28, 2013 report mentions a thin layer of overburden but no overburden depth found
B1-18	Plug_Deliv_118_05	10/3/2013	10/18/2013	15	IUS1	Percussion	Not Near Arsenic	Completed	235.0	35.5	4.8	3D	34	FALSE	-	20.0	TRUE	Falling head test was not performed
B1-18	Obs_118_02	10/3/2013	10/5/2013	2	IUS1	Diamond	Not Near Arsenic	Completed	96.1	35.5	1.9	3D	34	FALSE	-	-	TRUE	Falling head test passed at the second attempt. CMS completed but not properly orientatec
B1-18	Plug_Deliv_118_04	10/5/2013	10/18/2013	13	IUS1	Percussion	Not Near Arsenic	Completed	235.0	33.0	2.8	3D	32	FALSE	1.1	18.0	TRUE	Golder did not observe final measurement. McCaw mentioned that the water dropped approximately 6 mm in 0.5 hrs.
B1-18	Obs_118_07	10/5/2013	10/6/2013	1	IUS1	Diamond	Not Near Arsenic	Completed	96.1	32.2	1.4	3D	32	TRUE	1.8	-	TRUE	Water level dropped very slowly < 0.33 L/0.5 hr. Surface casing was burned to bedrock
B1-18	P_Deliv_118_03	10/7/2013	10/14/2013	7	IUS1	Percussion	Not Near Arsenic	Completed	235.0	31.1	2.3	2D	18	FALSE	5.4	30.0	TRUE	Borehole located near fracture rock and sinkhole. Falling head test indicates that the borehole is not properly sealed.
B1-18	P_Deliv_118_01	10/7/2013	10/12/2013	5	IUS1	Percussion	Not Near Arsenic	Completed	235.0	25.7	1.5	3D	24	FALSE	5.3	25.7	TRUE	Falling head test indicates that the borehole is not properly sealed
B1-18	Obs_118_05	10/7/2013	10/8/2013	1	IUS1	Diamond	Not Near Arsenic	Completed	96.1	35.0	1.9	3D	34	TRUE	2.7	-	TRUE	Falling head test passed at the third attempt but did not meet the requirements of having drilled into the bedrock. Surface casing was burned into bedrock
B1-18	Obs_118_06	10/8/2013	10/11/2013	3	IUS1	Diamond	Not Near Arsenic	Completed	96.1	22.4	4.8	3D	23	FALSE	11.5	-	TRUE	Borehole located near fracture rock and sinkhole. Falling head test indicate that the borehole is not properly sealed.
B1-18	P_Deliv_118_10	10/10/2013	10/16/2013	6	IUS1	Percussion	Not Near Arsenic	Hole abandoned	235.0	31.2	1.1	3D	30	FALSE	0.0	-	FALSE	OK to drill with failed falling head test - overburden/bedrock contact Failed test OK - above creek elevation indicating low risk of ground water entering. Hole missed target - unusable for paste.
B1-18	P_Deliv_118_02	10/11/2013	10/18/2013	7	IUS1	Percussion	Not Near Arsenic	Completed	235.0	19.8	0.6	2D	18	TRUE	8.5	19.8	TRUE	Borehole located near fracture rock and sinkhole
B1-18	P_Deliv_118_12	10/13/2013	10/19/2013	6	IUS1	Percussion	Not Near Arsenic	Completed	235.0	17.9	0.4	2D	16	TRUE	9.0	16.9	TRUE	Borehole located near fracture rock and sinkhole
B1-18	P_Deliv_118_06	10/15/2013	10/18/2013	3	IUS1	Percussion	Not Near Arsenic	Completed	235.0	34.2	3.2	3D	34	TRUE	3.0	32.2	TRUE	-
B1-18	P_Deliv_118_08	10/16/2013	10/19/2013	3	IUS1	Percussion	Not Near Arsenic	Completed	235.0	18.5	8.4	3D	18	TRUE	13.5	18.5	TRUE	Attempted to remove the 13" casing but the casing is stuck and will not be removed
B1-18	Plug_Deliv_118_09	10/19/2013	10/22/2013	3	IUS1	Percussion	Not Near Arsenic	Completed	235.0	12.8	7.9	3D	40	FALSE	-	11.8	TRUE	McCaw carried out the falling head test and mentioned Golder that the test passed. Golder re-assessed
B1-18	P_Deliv_118_11	10/21/2013	10/23/2013	2	IUS1	Percussion	Not Near Arsenic	Completed	235.0	16.3	8.5	3D	16	TRUE	7.0	16.3	TRUE	Grouted a second time - test passed
B1-18	Obs_118_04	10/23/2013	10/24/2013	1	IUS1	Percussion	Not Near Arsenic	Completed	96.1	8.3	8	3D	8	FALSE	8.0	-	TRUE	Drilled through grout in preparation for water test but broke through
B1-18	P_Deliv_118_15	11/18/2013	11/20/2013	2	IUS1	Percussion	Not Near Arsenic	Completed	235.0	19.0	1.2	3D	14	TRUE	3.7	5.0	TRUE	Drilled and used as contingency delivery for 1-18 Upper
B1-18	P_Deliv_118_14	11/21/2013	11/26/2013	5	IUS1	Percussion	Not Near Arsenic	Completed	235.0	25.2	0.8	3D	20	TRUE	5.3	25.2	FALSE	Drilled as contingency delivery for 1-18 Lower but not used
B2-08	B208_Exo_01	6/8/2014	8/18/2014	71	C/O	Diamond	Near Arsenic	Completed	96.1	23.5	0.6	3D	20	FALSE	15.0	-	FALSE	Previously reported as Exo_01A. Suffix dropped for clarity. Surface casing drilled Jun 9, 2014.
B2-08	B208_Exo_02	8/20/2014	8/22/2014	2	C/O	Diamond	Near Arsenic	Completed	96.1	24.5	0.2	3D	18	FALSE	16.5	-	FALSE	Previously reported as Exo_02A. Suffix dropped for clarity
B2-08	B208_Obs_07	8/23/2014	8/30/2014	7	C/O	Diamond	Near Arsenic	Completed	96.1	40.0	0.6	2D	38	TRUE	24.5	-	TRUE	Approved for diamond drilling without crown pillar monitoring
B2-12/13/14	B214_Obs_13	2/10/2014	2/12/2014	2	IUS2	Diamond	Not Near Arsenic	Completed	96.1	55.3	0.6	2D	48	TRUE	3.0	-	TRUE	Casing depth - 3.0m.
B2-12/13/14	B214_PD_09	3/24/2014	4/9/2014	16	IUS2	Percussion	Not Near Arsenic	Hole abandoned	235.0	4.0	-	-	-	TRUE	2.0	-	FALSE	Surface casing removed and hole in overburden filled
B2-12/13/14	B214_Exo_03	2/21/2014	2/23/2014	2	C/O	Diamond	Near Arsenic	Completed	96.1	22.8	-	-	-	FALSE	13.0	-	FALSE	It was decided that the hole would be used as an observation hole in the Jun 18, 2014 daily report
B2-12/13/14	B214_Exo_04	2/24/2014	2/24/2014	1	C/O	Diamond	Near Arsenic	Completed	96.1	21.0	-	-	-	FALSE	N/A	-	FALSE	Hole could not be cased (material caved).
B2-12/13/14	B214_Obs_19	3/1/2014	3/3/2014	2	IUS2	Diamond	Not Near Arsenic	Completed	96.1	54.8	0.6	3D	44	TRUE	4.5	-	TRUE	Final survey at 44 m. Surface casing at 4.5 m
B2-12/13/14	B214_PD_09B	4/12/2014	4/18/2014	6	IUS2	Percussion	Not Near Arsenic	Hole abandoned	235.0	50.0	1.6	2D	46	TRUE	6.0	-	FALSE	Backfilled with concrete on May 1, 2014. Did not tremmie. No As-staked report provided
B2-12/13/14	B214_PD_09C	4/30/2014	5/5/2014	5	IUS2	Percussion	Not Near Arsenic	Hole abandoned	235.0	103.0	3.1	2D	94	FALSE	9.8	-	TRUE	Backfilled with concrete in May 2014. Confirmed full to surface Jun 7, 2014
B2-12/13/14	B214_PD_12	3/19/2014	5/18/2014	60	IUS2	Percussion	Not Near Arsenic	Completed	235.0	53.0	1	2D	40	TRUE	2.0	52.5	TRUE	-
B2-12/13/14	B214_PD_14	3/21/2014	5/19/2014	59	IUS2	Percussion	Not Near Arsenic	Completed	235.0	53.2	0.9	2D	44	TRUE	2.0	53.2	TRUE	-
B2-12/13/14	B214_Obs_15	5/7/2014	5/19/2014	12	IUS2	Percussion	Not Near Arsenic	Completed	96.1	50.0	5.4	2D	44	TRUE	9.0	0.0	TRUE	-
B2-12/13/14	B214_PD_25	5/22/2014	5/25/201/															

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														Grouted to Bedrock (True/False)	Surface Casing Depth (m)	Final Casing Depth (m)		
B3-06	UGObs_B306_13D	9/29/2014	10/3/2014	4	IUS2	Percussion	Near Arsenic	Completed	96.1	19.4	0.3	3D	18	FALSE	-	-	-	Borehole can be used in place of planned UGObs_B306_15.
B3-06	UGPD_B306_11B	10/2/2014	10/4/2014	2	IUS2	Percussion	Near Arsenic	Completed	150.0	11.2	0.4	3D	9	FALSE	-	12.1	-	-
B3-06	UGObs_B306_18C	10/4/2014	10/15/2014	11	IUS2	Percussion	Near Arsenic	Completed	96.1	33.8	0.7	3D	30	FALSE	-	-	-	-
B3-06	UGObs_B306_17	10/15/2014	10/18/2014	3	IUS2	Percussion	Near Arsenic	Completed	96.1	13.1	0.4	3D	8	FALSE	-	-	-	Hole reamed to 96.1mm on Oct 18, 2014.
B3-06	UGObs_B306_16	10/10/2014	10/22/2014	12	IUS2	Percussion	Near Arsenic	Completed	96.1	11.7	0.2	2D	8	FALSE	-	-	-	Pilot hole complete. Drilled depth as reported by drillers. Have not completed borehole camera survey.
B3-06	UGObs_B306_14	10/21/2014	10/25/2014	4	IUS2	Percussion	Near Arsenic	Completed	96.1	29.6	0.2	3D	24	FALSE	-	-	FALSE	Coordinates approved Oct 20, 2014
B3-10Mid	B310_PD_01	2/19/2014	3/21/2014	30	IUS2	Percussion	Not Near Arsenic	Hole abandoned	235.0	73.9	4.8	3D	68	TRUE	0.8	-	TRUE	Broke through at 75m. Drillers comented that they hit smaller void prior to main breakthrough
B3-10Mid	B310_PD_02	2/16/2014	3/22/2014	34	IUS2	Percussion	Not Near Arsenic	Completed	235.0	70.6	4.2	3D	60	TRUE	0.9	70.9	TRUE	Fill B3-10 LOTR. Drilling started Feb 16, 2014. Borehole drilled out of spec. without direction from PWGSC. Hole will be useable. Casing extended to breakthrough on Jun 20, 2014
B3-10Mid	B310_Obs_03	1/20/2014	1/22/2014	2	IUS2	Diamond	Not Near Arsenic	Hole abandoned	96.1	31.0	2.7	3D	24	TRUE	6.0	-	FALSE	-
B3-10Mid	B310_Obs_07	1/23/2014	1/26/2014	3	IUS2	Diamond	Not Near Arsenic	Completed	96.1	78.7	1.8	3D	72	TRUE	3.0	-	TRUE	-
B3-10Mid	B310_Obs_06	1/26/2014	1/27/2014	1	IUS2	Diamond	Not Near Arsenic	Hole abandoned	96.1	12.0	-	-	-	TRUE	3.0	-	FALSE	Orientation of collar incorrect. Hole terminated and re-collared at B310_Obs_06B
B3-10Mid	B310_Obs_06B	1/28/2014	1/30/2014	2	IUS2	Diamond	Not Near Arsenic	Completed	96.1	72.7	0.8	3D	68	TRUE	3.0	-	TRUE	-
B3-10Mid	B310_Obs_09	1/31/2014	2/2/2014	2	IUS2	Diamond	Not Near Arsenic	Completed	96.1	106.1	0.8	3D	100	TRUE	9.0	-	FALSE	-
B3-10Mid	B310_Obs_03c	2/4/2014	2/6/2014	2	IUS2	Diamond	Not Near Arsenic	Completed	96.1	78.4	0.7	3D	72	TRUE	4.6	-	TRUE	-
B3-10Mid	B310_Obs_03b	2/4/2014	2/4/2014	1	IUS2	Diamond	Not Near Arsenic	Hole abandoned	96.1	1.5	-	-	-	FALSE	-	-	FALSE	Surface casing removed prior to drilling B310_Obs_03C at nearly same location. No falling head test
B3-10Mid	B310_Obs_08	2/6/2014	2/9/2014	3	IUS2	Diamond	Not Near Arsenic	Completed	96.1	105.2	0.2	3D	96	TRUE	9.0	-	TRUE	Started casing Feb 6, 2014.
B3-10Mid	B310_Obs_04	2/13/2014	2/16/2014	3	IUS2	Diamond	Not Near Arsenic	Completed	96.1	91.4	0.5	3D	80	FALSE	7.3	-	TRUE	FHT failed at ~0.7 l/hr, received permission from D. Colbourne to proceed
B3-10Mid	B310_Obs_05	2/17/2014	2/19/2014	2	IUS2	Diamond	Not Near Arsenic	Hole abandoned	96.1	34.0	1.6	3D	28	TRUE	9.0	-	FALSE	Out of spec.
B3-10Mid	B310_Obs_05B	2/20/2014	2/22/2014	2	IUS2	Diamond	Not Near Arsenic	Completed	96.1	71.5	0.6	3D	68	TRUE	8.3	-	TRUE	Final Survey - 68m.
B3-10Mid	B310_PD_01B	5/24/2014	5/27/2014	3	IUS2	Percussion	Not Near Arsenic	Hole abandoned	235.0	54.0	2	2D	48	TRUE	1.5	-	FALSE	Backfilled to surface with concrete/grout on May 29, 2014.
B3-10Mid	B310_PD_01C	6/13/2014	6/15/2014	2	IUS2	Percussion	Not Near Arsenic	Completed	235.0	71.2	1.4	2D	68	TRUE	1.4	71.4	TRUE	Final casing installed Sept 26, 2014. No As-staked report provided
C5-09	PD_C509_08	11/2/2013	12/2/2013	30	IUS1	Percussion	Not Near Arsenic	Hole abandoned	235.0	44.0	2.9	3D	38	TRUE	14.5	-	FALSE	Hole abandoned and backfilled with concrete Dec 2013
C5-09	PD_C509_05	11/6/2013	3/5/2014	119	IUS1	Percussion	Not Near Arsenic	Completed	235.0	98.0	1.3	3D	92	TRUE	10.7	97.1	TRUE	Hole delayed due to survey data accuracy concerns. Casing 0.9m short of breakthrough
C5-09	Obs_C509_03	11/9/2013	11/18/2013	9	IUS1	Diamond	Not Near Arsenic	Completed	96.1	95.5	1.4	2D	82	TRUE	15.0	-	FALSE	Updated collar coordinates with survey date received from Sub-Arctic Nov 4, 2013. Hole completed on spec but marginally intersected void. Abandoned? Or should be camera survey?
C5-09	Obs_C509_09	11/19/2013	11/24/2013	5	IUS1	Diamond	Not Near Arsenic	Completed	96.1	86.7	1.1	3D	87	TRUE	14.9	-	TRUE	-
C5-09	PD_C509_04	11/20/2013	11/26/2013	6	IUS1	Percussion	Near Arsenic	Hole abandoned	235.0	44.0	1.6	3D	36	TRUE	14.0	-	FALSE	Hole abandoned and backfilled with concrete Dec 2013. Survey data references design coordinates not staked.
C5-09	PD_C509_04B	12/7/2013	1/31/2014	55	IUS1	Percussion	Near Arsenic	Completed	235.0	110.9	1.3	2D	100	TRUE	12.0	110.4	TRUE	Final casing extended to bottom of hole on Jun 20, 2014
C5-09	PD_C509_07	1/17/2014	4/9/2014	82	IUS1	Percussion	Not Near Arsenic	Completed	235.0	93.0	1.7	3D	84	TRUE	13.3	92.0	TRUE	Final casing set to 1 m before breakthrough
C5-09	PD_C509_10	1/31/2014	2/10/2014	10	IUS1	Percussion	Not Near Arsenic	Completed	235.0	82.5	1.1	3D	76	TRUE	16.4	89.2	TRUE	Dropped casing pipe cleared from hole Aug 14, 2014. Final casing installed
C5-09	PD_C509_08B	12/2/2013	4/11/2014	130	IUS1	Percussion	Not Near Arsenic	Hole abandoned	235.0	117.0	2.1	3D	92	TRUE	14.5	-	FALSE	Backfilled to surface with concrete on May 1, 2014
C5-09	PD_C509_08C	4/15/2014	4/20/2014	5	IUS1	Percussion	Not Near Arsenic	Hole abandoned	235.0	71.0	1.7	3D	63	TRUE	15.0	-	FALSE	Backfilled to surface with concrete on May 1, 2014
C5-09	C509_Utility	4/17/2014	5/5/2014	18	N/A	Percussion	Not Near Arsenic	Hole abandoned	235.0	125.5	2.4	2D	118	TRUE	12.0	-	FALSE	Borehole did not intersect target. Backfilled to surface with concrete on May 14, 2014
C5-09	PD_C509_08D	4/25/2014	5/5/2014	10	IUS1	Percussion	Not Near Arsenic	Completed	235.0	121.0	0.5	3D	114	TRUE	13.4	121.3	TRUE	-
C5-09	C509_Utility_B	5/13/2014	5/25/2014	12	N/A	Percussion	Not Near Arsenic	Completed	235.0	126.5	1.7	2D	120	TRUE	15.0	-	TRUE	Utility hole and not cased. Not required in drilling scope, but recommend leaving open to support future underground activities.
C5-09	PD_C509_06	11/1/2013	6/4/2014	215	IUS1	Percussion	Near Arsenic	Hole abandoned	235.0	10.3	-	-	-	TRUE	10.3	-	FALSE	Started drilling Nov 1, 2013 but halted due to "Near Arsenic". PWGSC directed McCaw to abandon the hole on Jun 4, 2014. Moved to alternate "Not near arsenic" location PD_C509_06B. Backfilled to surface with concrete on Jun 10, 2014.
C5-09	PD_C509_06B	6/14/2014	6/18/2014	4	IUS1	Diamond	Not Near Arsenic	Completed	96.1	93.1	0.3	3D	90	TRUE	10.5	-	TRUE	Foraco drilled pilot hole. McCaw reamed after. Foraco encountered fill