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2016 REPORT OF PHYSICAL WORK ON THE HAULTAIN PROJECT KEYHOLE CLAIMS HAULTAIN AND NICOL TOWNSHIPS, ONTARIO

NTS 41P10

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1.0 INTRODUCTION

This report has been prepared by Transition Metals to document of a reconnaissance mapping and prospecting visit to the Keyhole Claims located in Haultain Township completed on November 10, 2016. The visit was conducted to investigate reports of recently exposed Archean bedrock that may be related to the lithologies hosting gold mineralization on the western portion of the Haultain Property.

2.0 PROPERTY LOCATION, ACCESS, AND DESCRIPTION

The Keyhole Claims of the Haultain Property consists of 2 claims located in southeast Haultain and northeast Nicol townships, totalling 5 units covering approximately 80 ha (Figure 1, Table 1). The claims are registered under, and owned 100% by, Transition Metals Corp. (Client 407930).

The claims can be accessed via a secondary logging road exiting the north side of Highway 560 to the east of Leroy Lake (Figure 2). The claims can also be accessed via logging trails within a clear cut accessed from the north off the Babs Lake road via the Everett Lake road.

Table 1: List of claims composing the Keyhole Claims – Haultain Property

Claim No	Units	Hectares	Township / Area	Mining Div.	Due Date
4270528	1	16	Nicol	Larder Lake	2015-Jun-06
4259076	4	64	Haultain / Nicol	Larder Lake	2014-Nov-15

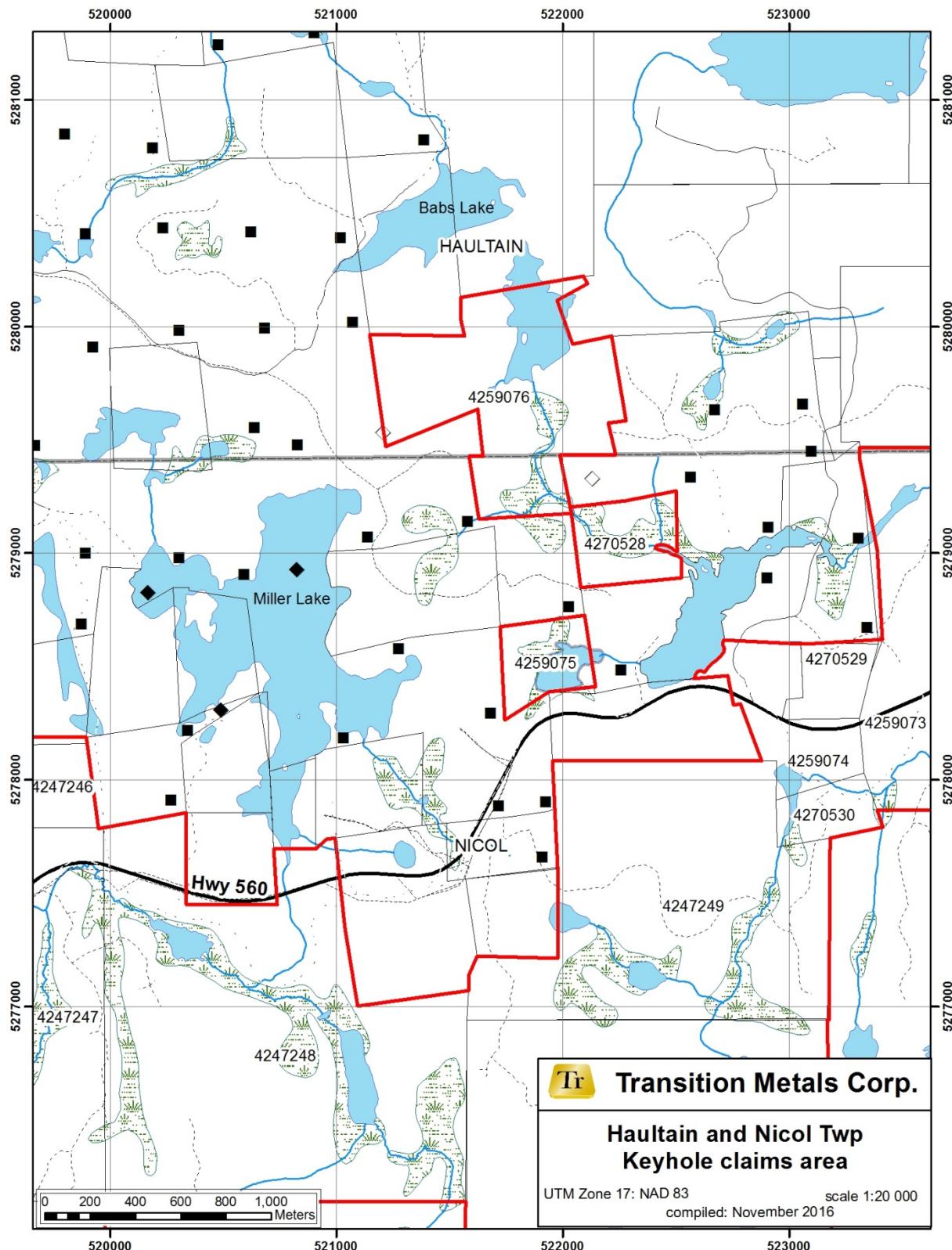


Figure 1: Location of the Keyhole Claims owned by Transition Metals Corp.

3.0 PREVIOUS WORK

The following table presents a summary of the previous work recorded with the Ministry of Northern Development and Mines (Table 2). There is also unrecorded work on these claims relating to the silver exploration conducted in the area in the 1920 to 1940 period when many of the claims were mining patents. The unrecorded work generally consists of pits, trenches and the occasional exploration shaft, and these have been record on the map accompanying this report.

Table 2: Summary of previous work

Date	Description of Work
1920's	The claims were originally patents GG5061, 5110, 5111, 4910, MR12906, and MR19148; there is no record of the exploration completed on these patents
unrecorded	trenches testing two west-trending, 0.25 – 0.5 m wide granodiorite/monzonite dykes intruding the mafic volcanic rocks along the west side of the swamp in the southwest portion of claim 4259076.
1955	Ontario Geological Survey: Moore mapped Haultain and northern Nicol townships covering the area of the claims at a scale of 1:31,680. Map 1955-03; AR64 part 5.
1978	Ontario Geological Survey: McIlwaine mapped Haultain and Nicol Township at a scale of 1:31,680 from 1966-1968. Map 2349 and preliminary maps P0374 and P0518. <ul style="list-style-type: none">• Grab sample taken at old Hylands-Gardiner-Johnson property indicated only traces of silver, cobalt, nickel, and copper.
1997	Ontario Geology Survey: Conducted a high density Lake sediment and water geochemical survey, focusing on the Gowganda area. 1336 lake water samples and 1172 lake sediments were taken. Anomalous metal values including Ag, As, Co, Cu, Pb and Zn.
1997	Lake Superior Resources: The claims were covered as part of a larger Terraquest airborne VLF-EM, radiometric, and magnetic survey was flown in 1997 with a 100 m line spacing at a 100 m altitude (Terraquest, 1997).
2011-2012	reconnaissance geological mapping and sampling of claim 4259075 by Transition Metals Corp.
2013	reconnaissance geological mapping and sampling of claim by Transition Metals Corp. contained in work report W1380.02743
2014	improved access due to logging activity allowed reconnaissance geological mapping and sampling of claim by Transition Metals Corp. and discovery of previously unidentified syenite dykes

4.0 GEOLOGY

4.1. Regional Geology

The following description of the Abitibi greenstone belt was summarized by Hart (2011), as extracted from Ayer et al. (2002, 2005) and Thurston et al. (2008) and the references found in those papers.

The Abitibi greenstone belt is composed of east-trending synclines of mainly volcanic rocks and intervening domes cored by synvolcanic and/or syntectonic plutonic rocks (gabbro-diorite, tonalite, and granite) alternating with east-trending bands of turbiditic wackes (Figure 4). Most

of the volcanic and sedimentary rock dip vertically and are generally separated by east-trending faults with variable dips. Some of these faults, such as the Porcupine-Destor fault, display evidence for overprinting deformation events including early thrusting, later strike-slip and extension events. There are two ages of unconformable successor basins, early, widely distributed “Porcupine-style” basins of fine-grained clastic rocks, followed by later “Timiskaming-style” basins of coarser clastic and minor volcanic rocks which are largely proximal to major strike-slip faults (e.g. Porcupine-Destor, Larder-Cadillac). Numerous late-tectonic plutons from syenite and gabbro to granite with lesser dikes of lamprophyre and carbonatite cut the belt.

Metavolcanic and metasedimentary rocks of the Abitibi greenstone belt are subdivided into a series of assemblages. The 2723 to 2720 Ma Stoughton-Roquemaure assemblage, characterised by broad regions of tholeiitic basalts, komatiitic basalts, and komatiites with several relatively minor felsic volcanic centers, is located on the southeast flank of the Round Lake batholiths. Units of the Kidd-Munro assemblage are further divided into the 2719–2717 Ma lower part consisting of dominantly intermediate to felsic calc-alkaline volcanic rocks, and the 2717–2711 Ma upper part consisting of tholeiitic and komatiitic units with graphitic metasedimentary rocks and localized felsic volcanic centers. In the Shining Tree area, 2717 Ma rocks of this assemblage occur in Tyrrell Township.

The plutonic rocks of the Abitibi greenstone belt were subdivided by Ayer et al. (2005) into synvolcanic, syn-tectonic and post-tectonic intrusions. Syn-tectonic plutons may be related to the deformational events and can be subdivided into early and late series. Early 2695 to 2685 Ma tonalite, granodiorite, diorite and feldspar±quartz porphyries with adakitic geochemistry similar and coeval to the Porcupine assemblage volcanic rocks occur as stocks within the greenstone belt and as major portions of the surrounding batholithic complexes. Late 2680 to 2672 Ma syntectonic intrusions are broadly coeval with the Timiskaming assemblage, and are relatively small, occurring in close proximity to the main faults (e.g. Larder Lake - Cadillac deformation zone). These intrusions are typically alkalic, consisting of monzonite, syenite and albitite with the more mafic phases including diorite, gabbro, clinopyroxenite, hornblendite and lamprophyre.

A number of mafic dyke swarms cut the rocks of the Abitibi greenstone belt (Osmani 1991). The 2454 Ma Matachewan dykes are north-trending, vertical to sub-vertical and composed of quartz diabase and commonly contain plagioclase phenocrysts up to 20 cm in length. Occasional northeast-trending 2170 Ma quartz diabase Biscotasing dykes (Halls and Davis 2004) cross the map area and are reported by Moore (1955) to cut the Nipissing Gabbro in the area of the O’Brien Mine. West to northwest-trending, vertical dykes of the 1238 Ma Sudbury dyke

swarm are generally medium to coarse-grained with ophitic to subophitic textures olivine tholeiites.

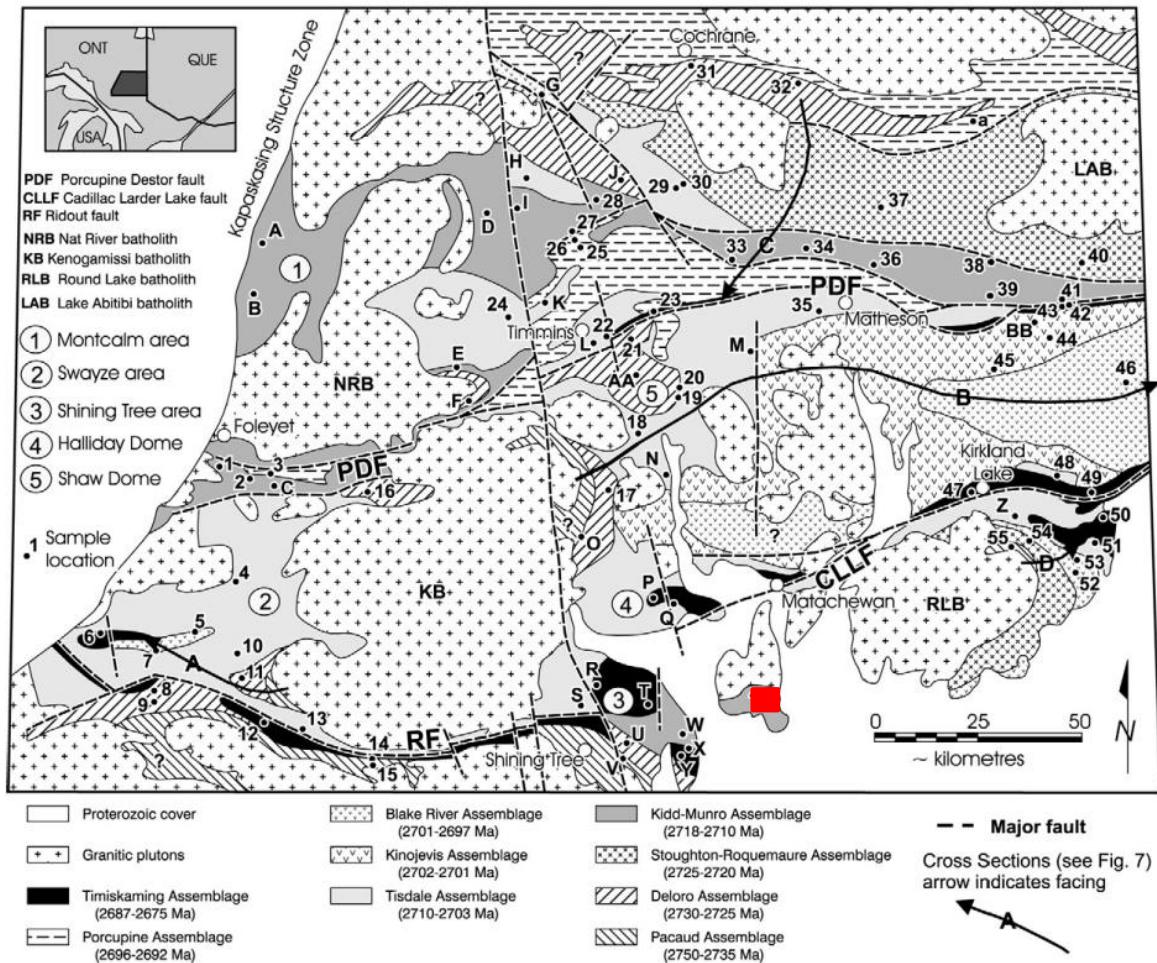


Figure 2: Regional geology of the southern Abitibi greenstone belt (Ayer et al. 2002), red square is the approximate location of the claims

The Archean rocks are unconformably overlain by Paleoproterozoic rocks of the Huronian Supergroup, which were deposited in a north-trending graben referred to as the Cobalt Embayment in the area overlying the Abitibi greenstone belt. Four formations, the Gowganda, Lorrain, Gordon Lake, and Bar River, were deposited in the Embayment and form the upper most sedimentary cycle of the Huronian Supergroup collectively referred to as the Cobalt Group (Bennett et al. 1991). The Gowganda Formation has been subdivided in to the lower Coleman Member consisting of clast and matrix supported conglomerate, and the upper Firstbrook Member consisting of pebbly wacke, wacke, siltstone, mudstone, and arenite. The Coleman Member conglomerates have been interpreted to have been glacial or alternatively debris flows or turbidity currents. The finer sediments of the Firstbrook Member have been interpreted to have been deposited in a deltaic environment.

Gabbroic rocks of the Nipissing Intrusive event intrude all older rocks of the Cobalt Embayment forming sills, dykes and undulating sheets up to a few hundred metres thick (Bennett et al. 1991). A two pyroxene gabbro is the most common lithology in the Nipissing but olivine gabbro, hornblende gabbro, feldspathic pyroxenite, leucogabbro, and granophyric gabbro and granophyres are also present. The 2219 Ma Nipissing gabbro may have originated from a radiating dike swarm related to the 2217-2210 Ma Ungava magmatic event located under the Labrador Trough fed via the 2216 Ma Senneterre dykes which form part of the radiating dike swarm (Ernst 2007). Locally, emplacement of the Nipissing appears to have been controlled by pre-existing structures in the Huronian and Archean basement rocks.

Supracrustal units in the Abitibi greenstone belt are dominated by east-west striking volcanic and sedimentary assemblages and east-trending Archean deformation zones and folds. Larger batholithic complexes external to the supracrustal rocks (e.g. Round Lake) represent centres of structural domes.

4.2. Local Geology

The claims are located in south Haultain and north Nicol townships underlain by Archean mafic to intermediate volcanic rocks intruded by mafic and felsic intrusive rocks unconformably overlain by Proterozoic Lorrain and Gowganda formation metasedimentary rocks. These rocks are intruded by north-trending Matachewan dykes and a northeast-trending Biscotasing dyke. The Archean rocks form an inlier / island within a sub-circular basin of Nipissing Gabbro referred to as the Miller Basin (McIlwaine 1978). The diabase sill has a saucer shape and underlies the Archean rocks at depth. The Archean rocks are interpreted to be the eastern continuation of the stratigraphy located on the main portion of the Haultain property located to the west of the past producing silver mines.

These claims are underlain by Huronian sediments to the north and Archean metavolcanic rocks to the south (Figure 2). The metavolcanic rocks consist of variably altered, northwest-trending, schistose mafic to intermediate flows and volcaniclastic rocks. A unit that appears to be a highly deformed muddy ironstone or iron formation, probably interflow in nature, is located at the north end of the pond south of the old power line. There are also a series of moderately deformed medium- to coarse-grained quartz and quartz-feldspar porphyritic felsic dykes that appear to be comparable in composition to the monzonite dykes located in the main portion of Haultain gold property to the west. The felsic dykes on these claims may be strongly sheared and boudinaged and host irregular, white quartz veins and veinlets comparable to the monzonite dykes on the main, western portion of the property. A fine to medium-grained feldspar porphyritic syenite dyke was identified in the northwest corner of claim 4270528. The

dyke is over 1 m wide and appears to have a northeast-trend but was exposed for only a short distance. Rare pebble-size xenoliths of country rock were observed along with occasional, very coarse-grained feldspar phenocrysts with albite crystal habits. Coarse-grained, massive, hornblende gabbro intrudes the metavolcanic rocks and may be synvolcanic in origin. An ultramafic body intrudes the metavolcanic rocks and gabbro in the southeast corner of the claim. North-trending Matachewan diabase dykes intrude all of the Archean units. A northeast-trending, medium- to coarse-grained, massive Biscotasing diabase dyke intrudes the Archean rocks and the Matachewan dykes in the southern portion of the claim. Mineralization consists of quartz +/- iron carbonate veins with trace to 3%, medium to coarse grained pyrite. Disseminated, medium-grained pyrite was also observed in the felsic dykes. A 0.25 m wide quartz vein is exposed along the southeast side of the pond located in the south portion of the claim.

2016 Reconnaissance

On November 10th, 2016, Transition geologists Steven Flank and Spencer Burden completed a day of prospecting on the southern portion of claim 4259076. The objective of the program was to prospect for gold mineralization associated with syenite dykes as has been observed on the Transition Metals and Aldershot Resources Haultain property located approximately 4 km to the west. A total of nine stations were visited and six samples were collected for analysis using a Niton XL3t GOLDD+ handheld XRF unit. Two of those samples have also been submitted for analytical analyses at ALS with results pending at the time of this report.

The majority of the traverse observed strongly foliated mafic lapilli-stone and amygdaloidal massive flows with one outcrop of massive peridotite also observed. Two sub-croppings of quartz bearing silicified monzonite were also observed, containing 2-4% disseminated, euhedral pyrite. These units appear to have the potential to host gold mineralization and as such were submitted for assay.

XRF analysis was completed to better characterize the rock units encountered on this traverse. XRF Data was collected on the Cu/Zn mining mode with read times of 20 seconds main beam, 15 seconds on the remaining beams (medium, high, and low ranges), for a total of 65 seconds. Before beginning analysis a blank and 2 standards were run, and then run again after 12 readings. Each sample was analyzed 3 times in the same spot on a dry clean surface.

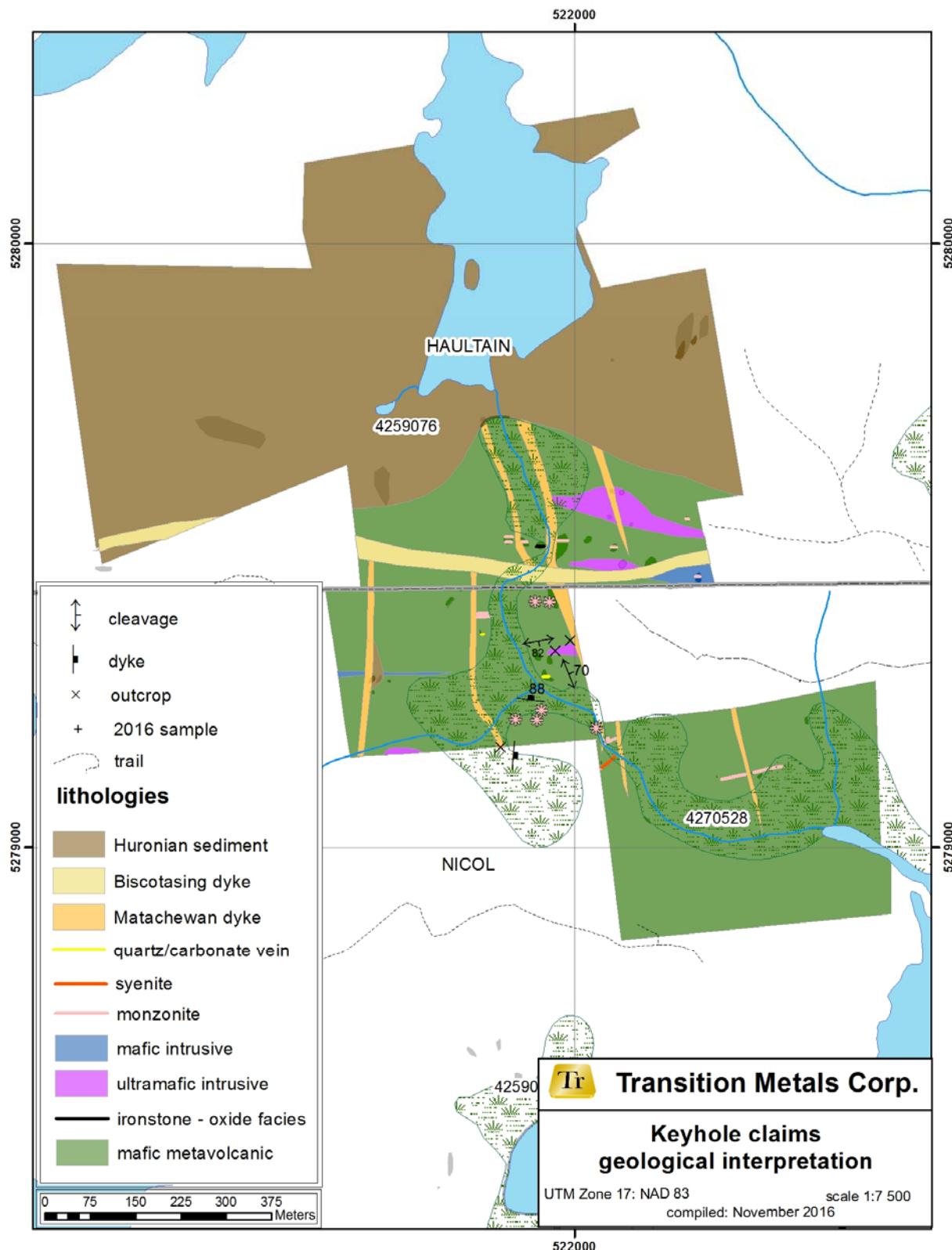


Figure 3: Revised interpreted geology of the Keyhole claims based on 2016 work

Table 3: Sample and Station Descriptions (coordinates in UTM Zone 17, NAD83)

Station	East	North	Lithology	Lithology2	XRF	Sample	Comments
16SF-001	521993	5279341	Diabase		N		Fine grained diabase with weak to moderate magnetism, trace sulfides. Outcrop is a hill approximately 30x15m, long axis runs at ~338°.
16SF-002	521968	5279324	Peridotite		N		Low lying outcrop of f.g magnetic ultramafic intrusion. Two strong cleavages at 338/-70 and 80/-82 respectively
16SF-003	521959	5279407	Mafic Lapillistone		Y	311, 312, 313	Outcrop appears strongly foliated (possible shear) which large up to 15cm elongate rounded inclusions/clasts. Rock is weakly to moderately magnetic. Sample taken for XRF analysis.
16SF-004	521935	5279408	Amygdular Basalt		Y	314, 315, 316	Fine grained Basalt that appears foliated, rock is non magnetic and contains calcite amygdules. Sulfides are present as 1mm euhedral pyrite crystals at less than 1%.
16SF-005	521946	5279227	Amygdular Basalt	Monzonite dyke	Y	317, 318, 319	Monzonite appears as a dyke approximately 80cm wide and in contact with the Basalt at 277/88N. Monzonite is non magnetic with a subtle foliation in the bladed minerals (biotite), sulfide present at ~1.5%. Basalt is fine grained, non magnetic, and amygdular (calcite fill) (XRF).
16SF-006	521938	5279211	Monzonite	Basalt	Y	320, 321, 322, L781542 (326, 327, 328)	Monzonite rubble pile on slope towards beaver pond. Rubble is composed of moderately silicified angular boulders with quartz veining throughout, 2-4% euhedral pyrite. Adjacent to the rubble pile is a strongly magnetic fine grained basalt with visible disseminated magnetite.
16SF-007	521903	5279212	Monzonite		Y	L781543, (329, 330, 331)	Monzonite rubble pile on slope towards beaver pond. Rubble is composed of non magnetic, strongly silicified with minor K-alteration, angular boulders with quartz veining throughout, 2-4% disseminated euhedral pyrite.

Station	East	North	Lithology	Lithology2	XRF	Sample	Comments
16SF-008	521878	5279165	Diabase	Mafic Volcaniclastic	N		Large outcrop of diabase intruding mafic lapillistone. Diabase trends at 5 degrees.
16SF-009	522036	5279197	Mafic Lapillistone		Y	332, 333, 334	Foliated and folded moderately magnetic mafic volcanic outcrop that appears to have chlorite lenses.

Table 4: Summary of analytical results – median values in ppm with standard deviations (sd) for three readings

SAMPLE	Cu	sd	Mg	sd	Si	sd	Al	sd	S	sd
16SF-003	55.24	14.81	17214.70	3585.84	179263.48	3050.97	38393.54	1093.28	<LOD	
16SF-004	249.29	20.50	11600.10		125444.01	1234.46	47647.07	2009.98	<LOD	
16SF-005	<LOD		4246.73	184.17	249814.95	8190.05	34264.06	1879.40	<LOD	
16SF-006	127.44		14148.70	5866.97	189011.95	1357.58	57094.04	3883.08	<LOD	
L781542	<LOD		<LOD		60583.13	1298.66	10267.05	329.14	2096.13	89.07
L781543	<LOD		3342.36		294542.03	1094.00	41372.97	964.33	<LOD	
XRF009	131.70	9.12	11647.57	1845.54	221050.56	12547.00	48367.30	3564.07	363.02	53.60
SAMPLE	Fe	sd	Ca	sd	P	sd	K	sd	Zn	sd
16SF-003	128280.27	3963.64	16466.58	583.49	983.85	55.95	2611.60	94.46	264.50	1.67
16SF-004	142347.73	815.34	99775.62	706.69	885.95	170.61	5109.70	86.18	152.36	6.92
16SF-005	12503.37	119.86	1993.54	99.09	558.02	171.80	7212.80	115.78	28.60	1.71
16SF-006	146778.50	1694.60	24466.01	1571.47	890.89	165.57	918.00	104.28	81.94	2.76
L781542	1262.60	86.93	134945.98	773.82	<LOD		1112.09	56.20	<LOD	
L781543	10709.53	69.97	6580.59	154.72	897.76	44.26	<LOD		<LOD	
XRF009	95784.77	1033.08	41909.65	1320.68	1037.01	41.20	4188.13	107.73	167.30	7.35

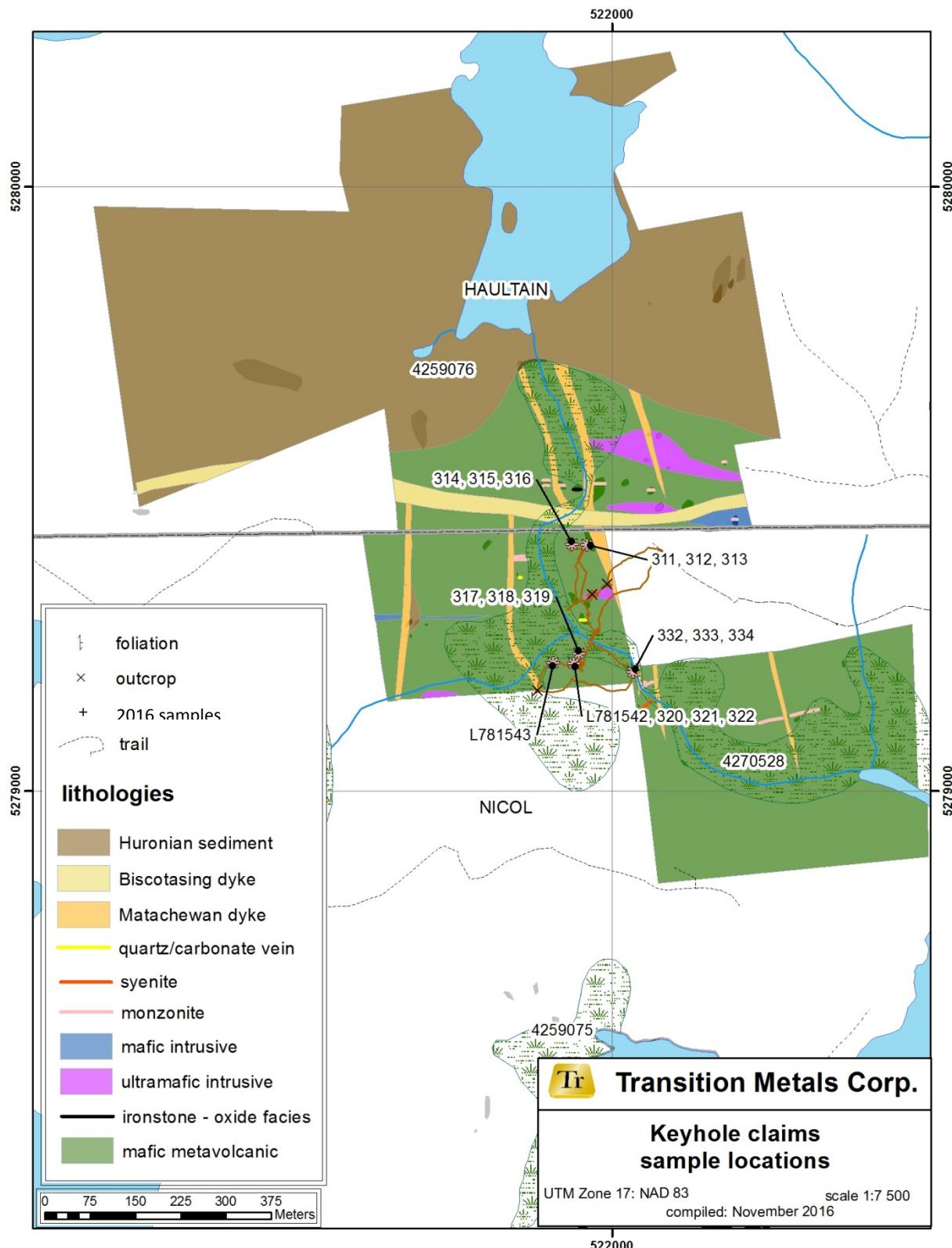


Figure 4: Location of samples collected in 2016

5.0 STATEMENT OF EXPENDITURE

The total value of work done on the Keyhole Claims is summarized in Table 5. The cost for the geologists is \$500/day and for the pXRF is \$500.

Table 5: Summary of expenditures

Category	Cost
Geologists	\$1,250
Food & Accommodations	\$360
field supplies	\$45
Vehicle expenses	\$200
Gas	\$170
pXRF rental - 2 days	\$1,000
Report Writing	\$625
Total	\$3,650

6.0 CONCLUSIONS

Gold mineralization on the west portion of the Haultain Property are hosted by quartz veining cutting syenite dykes that are closely associated with ultramafic rocks and quartz monzonite dykes. The rocks observed on the Keyhole claims appear to be comparable to the associated lithologies. The discovery of a syenite dyke on claim 4270528, and on adjacent claims, suggest that there is a high potential for the dykes underlie portions of the Keyhole claims.

The use of the portable XRF was being tested on core and outcrop samples from the west portion of the property to determine the usefulness of the instrument in planned diamond drill and field programs. Further use of the portable XRF may assist in the identification of lithologies and alteration associated with the quartz +/- fe-carbonate veining hosting the majority of the gold mineralization. The analyses collected during this program will be completed to the analytical results received from ALS and included as part of the larger study. Initial indications are that the pXRF may assist in the identification of the micaeous alteration haloes to the auriferous veins. Further work is required to determine if the haloes are extensive enough to be of use in a mapping program.

7.0 RECOMMENDATION

- 1) A trenching program is recommended for southeast corner of claim 4259076 and the west side of claim 4270528 to determine if there are syenite dykes similar to those that host gold mineralization on the western portion of the Haultain Property.

8.0 REFERENCES

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9.0 STATEMENT OF THE AUTHOR

I, Thomas Hart do hereby certify that:

- 1) I reside at 2404 Algonquin Road, Sudbury, Ontario P3E 5V1,
- 2) I graduated with a M.Sc. (Geology) degree in 1984 from the University of Toronto.
- 3) I have been practicing my profession in Canada since 1984, as an exploration geologist (an employee and independent consultant) on precious and base metal projects with exploration/mining companies in Canada, and as a mapping geologist with the Ontario Geological Survey.
- 4) I am the proprietor of Hart Geoscience Inc., a consulting company based in Sudbury Ontario contracted by Transition Metals Corp. to provide management services with respect to on-going exploration and development activities on their properties in Ontario. In this capacity, I am authorized to act as an Agent of the Company.
- 4) I am a member of the Association of Professional Geoscientists of Ontario
- 7) I supervised the portions of this work program and writing of the technical report.

Signed this 14 of November, 2016 in the City of Sudbury, Ontario

Thomas Hart, M.Sc., P. Geo.

APPENDIX A: PORTABLE XRF ANALYTICAL RESULTS

Station	Reading	Time	Type	Duration (sec)	Units	Sequence	SAMPLE	LOCATION	Pd	Pd Error	Cu	Cu Error	Mg	Mg Error	Ni	Ni Error	Co
	308	10/11/2016 22:09	Mining	65	ppm	Final	BLANK		<LOD	5.6	<LOD	26.63	<LOD	4687.49	<LOD	45.24	<LOD
	309	10/11/2016 22:12	Mining	65	ppm	Final	NIST2780PP		<LOD	6.52	253.63	35.48	<LOD	4470.51	<LOD	57.7	<LOD
	310	10/11/2016 22:15	Mining	65	ppm	Final	NIST2709aPP		<LOD	5.52	<LOD	44.13	<LOD	4704.92	<LOD	56.28	<LOD
16SF-003	311	10/11/2016 22:23	Mining	65	ppm	Final	XRF004	521959E-5279407N	<LOD	8.89	55.24	34.65	22324.25	6018.59	<LOD	79.42	<LOD
16SF-003	312	10/11/2016 22:24	Mining	65	ppm	Final	XRF004	521959E-5279407N	<LOD	8.61	85.31	35.11	13582.26	4935.25	<LOD	111.43	<LOD
16SF-003	313	10/11/2016 22:26	Mining	65	ppm	Final	XRF004	521959E-5279407N	<LOD	8.67	52.71	33.53	17214.7	5114.68	<LOD	76.89	<LOD
16SF-004	314	10/11/2016 22:36	Mining	65	ppm	Final	XRF005	521935E-5279408N	<LOD	7.55	210.06	38.93	<LOD	12737.33	87.14	49.31	<LOD
16SF-004	315	10/11/2016 22:37	Mining	65	ppm	Final	XRF005	521935E-5279408N	<LOD	8.09	256.82	40.59	<LOD	13939.21	<LOD	74.33	<LOD
16SF-004	316	10/11/2016 22:39	Mining	65	ppm	Final	XRF005	521935E-5279408N	<LOD	8.22	249.29	42.32	11600.1	5630.48	<LOD	80.58	<LOD
16SF-005	317	10/11/2016 22:46	Mining	65	ppm	Final	XRF006	521946E-5279227	<LOD	7.19	<LOD	30.7	<LOD	3600.08	<LOD	52.61	<LOD
16SF-005	318	10/11/2016 22:48	Mining	65	ppm	Final	XRF006	521946E-5279227	<LOD	5.75	<LOD	31.72	4430.9	2282.94	<LOD	51.59	<LOD
16SF-005	319	10/11/2016 22:49	Mining	65	ppm	Final	XRF006	521946E-5279227	<LOD	5.17	<LOD	30.9	4062.56	2614.46	<LOD	51.99	<LOD
16SF-006	320	10/11/2016 22:59	Mining	65	ppm	Final	XRF007	521938E-5279211N	<LOD	8.36	127.44	36.91	14148.7	4761.22	<LOD	103.5	<LOD
16SF-006	321	10/11/2016 23:01	Mining	65	ppm	Final	XRF007	521938E-5279211N	<LOD	10.34	<LOD	51.62	24194.92	5882.07	<LOD	79.07	<LOD
16SF-006	322	10/11/2016 23:02	Mining	65	ppm	Final	XRF007	521938E-5279211N	<LOD	7.61	<LOD	63.62	10272.3	5057.51	<LOD	77.25	<LOD
	323	10/11/2016 23:06	Mining	65	ppm	Final	BLANK		<LOD	6.51	<LOD	26.73	<LOD	3005.01	<LOD	46.49	<LOD
	324	10/11/2016 23:08	Mining	65	ppm	Final	NIST2780PP		<LOD	6.23	267.76	37.02	<LOD	5934.27	<LOD	57.33	<LOD
	325	10/11/2016 23:11	Mining	65	ppm	Final	NIST2709aPP		<LOD	5.75	<LOD	33.97	7972.08	3356.95	<LOD	87.29	<LOD
16SF-006	326	10/11/2016 23:15	Mining	65	ppm	Final	L781542	521938E-5279211N	<LOD	5.38	<LOD	47.39	<LOD	6237.69	<LOD	50.08	<LOD
16SF-006	327	10/11/2016 23:17	Mining	65	ppm	Final	L781542	521938E-5279211N	<LOD	5.61	<LOD	35.87	<LOD	8470.99	<LOD	50.52	<LOD
16SF-006	328	10/11/2016 23:18	Mining	65	ppm	Final	L781542	521938E-5279211N	<LOD	5.48	<LOD	31.23	<LOD	5648.86	<LOD	52.17	<LOD
16SF-007	329	10/11/2016 23:27	Mining	65	ppm	Final	L781543	521903E-5279212N	<LOD	5.26	<LOD	31.05	<LOD	3173.03	<LOD	51.46	<LOD
16SF-007	330	10/11/2016 23:29	Mining	65	ppm	Final	L781543	521903E-5279212N	<LOD	5.43	<LOD	30.79	3342.36	2179.33	<LOD	51.82	<LOD
16SF-007	331	10/11/2016 23:30	Mining	65	ppm	Final	L781543	521903E-5279212N	<LOD	4.75	<LOD	29.76	<LOD	4055.08	<LOD	52.3	<LOD
16SF-009	332	10/11/2016 23:39	Mining	65	ppm	Final	XRF009	522036E-5279197N	<LOD	8.38	131.7	36.48	<LOD	6243.29	<LOD	106.21	<LOD
16SF-009	333	10/11/2016 23:40	Mining	65	ppm	Final	XRF009	522036E-5279197N	<LOD	7.35	141.57	34.5	13493.11	5198.25	<LOD	89.63	<LOD
16SF-009	334	10/11/2016 23:42	Mining	65	ppm	Final	XRF009	522036E-5279197N	<LOD	8.76	119.27	34.06	9802.03	5056.33	<LOD	97.28	<LOD

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Station	Reading	Co Error	Si	Si Error	Al	Al Error	S	S Error	Fe	Fe Error	Cr	Cr Error	Ca	Ca Error	P	P Error	Cl	Cl Error
	308	30.66	445568.53	6548.21	1899.64	894.23	<LOD	105.78	371.13	62.51	<LOD	30.42	127.09	55.23	739.83	373.43	<LOD	51.56
	309	131.84	254843.27	4219.33	73272.27	3059.27	23178.56	607.08	29322.57	735.89	70.62	46.13	2134.02	415.02	767.6	337.5	<LOD	72.75
	310	137.87	236272.5	4050.61	51458.69	2513.92	1245.3	138.72	36609.33	852.05	208.99	40.83	22021.31	878.08	1011.24	321.99	<LOD	70.24
16SF-003	311	275.66	174428.16	3633.84	39864.8	2777.24	<LOD	173.55	134012.02	3204.07	231.27	74.94	17640.05	1034.41	887.34	302.93	<LOD	86.08
16SF-003	312	269.75	181780.66	3702.5	37191.32	2498.86	<LOD	162.88	128280.27	3071.99	225.99	73	16466.58	1000.11	983.85	292.6	<LOD	81.05
16SF-003	313	263.32	179263.48	3630.43	38393.54	2508.66	<LOD	162.4	124359.6	2944.37	214.85	72.68	16346.72	1007.13	1019.86	287.23	<LOD	79.72
16SF-004	314	274.57	125444.01	2720.8	47647.07	3420.84	2251.52	201.24	143061.45	3452.6	299.39	88.69	99775.62	2699.93	885.95	302.84	<LOD	83.42
16SF-004	315	277.9	127227.65	2692.55	50695.16	3461.22	2278.99	194.41	142347.73	3456.81	231.86	91.53	101191.49	2723.48	544.22	285.23	<LOD	78.94
16SF-004	316	286.65	124221.24	2570.54	45822.7	2941.34	2063.48	167.92	141089.2	3524.41	156.79	93.24	99621.09	2731.8	923.42	257.11	<LOD	69.91
16SF-005	317	92.91	259511.8	4815.33	36570.16	1590.09	<LOD	105.13	12461.23	362.29	<LOD	61.74	2188.95	231.83	905.23	244.71	<LOD	50.6
16SF-005	318	91.04	239454.02	4642.22	31966.59	1587.69	<LOD	123.23	12733.93	371.6	<LOD	38.66	1993.54	222.16	525.71	255.39	<LOD	57.44
16SF-005	319	89.97	249814.95	4900.13	34264.06	1817.46	<LOD	145.21	12503.37	370.49	40.63	26.22	1966.57	227.9	558.02	296.13	<LOD	66.2
16SF-006	320	278.44	189349.09	3635.44	52557.09	2919.2	<LOD	149.01	143473.44	3327.58	258.25	73.93	21394.2	1149.59	1113.84	279.5	<LOD	110.26
16SF-006	321	287.8	189011.95	3749.03	62065.35	3480.77	<LOD	157.4	147300.83	3544.52	250.8	72.78	24939.04	1239.3	890.89	291.64	<LOD	78.71
16SF-006	322	281.89	186315.5	3685.49	57094.04	3334.78	<LOD	157.96	146778.5	3418.48	243.15	72.92	24466.01	1229.53	708.98	304.83	<LOD	85.69
	323	29.58	444691.19	6453.98	2576.67	922.75	<LOD	104.99	309.16	60.25	<LOD	30.72	109.3	55.38	943.65	376.51	<LOD	51.66
	324	136.71	261011.91	4391.26	70965.99	3196.82	24069.62	648.24	29991.1	769.09	93.09	46.2	2266.99	438.89	775.01	363.26	<LOD	78.21
	325	137.63	239237.56	4045.35	51903.63	2453.83	1221.46	131.02	36334.42	846.23	141.12	45.49	22096.98	914.89	874.53	304.44	<LOD	66.81
16SF-006	326	41.97	58938.29	1571.28	10734.31	1222.73	2184.65	168.21	1207.54	91.53	<LOD	40.06	134945.98	2760.72	<LOD	294.04	<LOD	65.73
16SF-006	327	41.04	60583.13	1610.16	9931.68	1200.29	1967.69	163.03	1262.6	95.08	<LOD	41.95	135050.75	2802.93	<LOD	289.29	<LOD	66.8
16SF-006	328	42.09	62118.71	1641.03	10267.05	1203.89	2096.13	166.33	1413.21	99.26	<LOD	67.93	133359.36	2798.54	<LOD	283.84	<LOD	66.27
16SF-007	329	85.76	296139.28	5375.15	41372.97	1863.18	<LOD	113.54	10803.06	326.88	<LOD	36.31	6893.49	364.97	973.16	293.99	<LOD	55.02
16SF-007	330	94.31	294542.03	5341.2	42437.42	1880.55	<LOD	109.83	10709.53	323.39	<LOD	34.95	6551.84	341.86	868	288.93	<LOD	54.28
16SF-007	331	84.61	293477.22	5307.33	40079.03	1823.19	<LOD	113.96	10631.91	320.85	<LOD	36.06	6580.59	354.93	897.76	290.1	<LOD	54.2
16SF-009	332	244.9	196738.14	3818.47	41230.93	2494.84	255.69	122.17	97581.77	2426.09	165.14	67.93	39241.7	1522.16	1037.01	296.17	<LOD	82.13
16SF-009	333	231.14	221050.56	4006.31	49154.08	2985.16	374.85	135.22	95784.77	2260.31	222.09	65.58	41909.65	1539.58	1048.99	342.24	<LOD	91.01
16SF-009	334	234.51	225176.31	4150.79	48367.3	3032.31	363.02	139.76	95140.3	2293.55	206.06	66.08	42160.12	1544.36	956.21	355.96	<LOD	93.37

Station	Reading	K	K Error	Ti	Ti Error	V	V Error	Mn	Mn Error	Zn	Zn Error	As	As Error	Se	Se Error	Rb	Rb Error	Sr	Sr Error	Y
	308	<LOD	115.37	141.92	89.08	<LOD	37.79	<LOD	118.01	<LOD	9.12	<LOD	5.13	<LOD	6.14	<LOD	1.5	110.33	4.65	12.1
	309	32300.69	892.22	7345.3	540.18	282.59	89.53	395.5	110.26	2066.49	71.07	<LOD	89.55	<LOD	18.23	107.19	4.84	240.14	9.46	15.44
	310	17348.23	559.97	3574.65	422.02	141.26	74.72	400.19	98.76	93.98	12.47	12.64	6.1	<LOD	7.57	53.83	2.82	237.54	8.54	19.43
16SF-003	311	2581.68	343.22	8925.35	800.42	552.1	131.21	1641.11	144.01	264.85	24.37	<LOD	9.6	<LOD	15.31	6.91	1.66	91.23	5.94	25.76
16SF-003	312	2611.6	343.71	8215.45	788.49	472.38	131.31	1684.1	144.74	264.5	24.2	<LOD	11.02	<LOD	12.65	5.81	1.57	90.7	5.87	28.35
16SF-003	313	2795.33	349.49	8337.74	784.91	440.21	129.78	1637.54	142.73	261.14	23.72	<LOD	9.12	<LOD	14.77	3.58	1.42	89.4	5.75	26.37
16SF-004	314	5109.7	451.88	11454.53	979.23	478.38	159.56	2125.42	154.81	154.09	18.52	9.6	6.16	<LOD	11.37	6.05	1.56	105.75	6.27	40.46
16SF-004	315	5140.28	455.56	12109.61	988.43	432.72	159.67	2089.02	155.11	138.62	17.95	14.49	6.11	<LOD	12.39	7.25	1.62	102.13	6.14	36.05
16SF-004	316	4944.11	451.82	11458.29	973.16	334.38	158.93	2169.62	162.94	152.36	19.31	16.71	6.46	<LOD	15.38	7.22	1.69	99.56	6.27	37.51
16SF-005	317	7457.19	300.24	1024.19	209.21	<LOD	89.41	<LOD	142.38	28.6	9.36	<LOD	5.89	<LOD	9.01	12.66	1.44	232.48	8.37	<LOD
16SF-005	318	7212.8	292.52	1065.07	199.2	<LOD	54.8	<LOD	141.6	26.32	9.43	<LOD	6.14	<LOD	7.45	12.96	1.47	221.66	8.15	<LOD
16SF-005	319	7210.37	300.72	1021.98	207.22	<LOD	86.14	<LOD	143.03	30.5	9.74	<LOD	6.25	<LOD	8.69	13.24	1.49	230.34	8.46	4.31
16SF-006	320	709.82	268.78	8291.34	787.58	445.78	129.78	776.28	118.23	81.94	15.27	9.85	6.23	<LOD	11.35	<LOD	1.5	177.38	8.9	41.44
16SF-006	321	918	270.05	8233.52	775.54	559.21	127.46	802.92	122.41	84.78	16.11	12.88	6.69	<LOD	14.03	<LOD	1.5	197.19	9.95	40.84
16SF-006	322	942.08	270.67	8172.34	778.63	441.52	129.04	795.26	118.22	78.04	15.16	11.83	5.82	<LOD	11.52	<LOD	1.5	199.72	9.71	37.67
	323	<LOD	112.73	150.83	86.77	<LOD	25.44	<LOD	116.53	<LOD	8.44	<LOD	4.89	<LOD	6.09	<LOD	1.5	105.79	4.48	12.76
	324	33478.84	935.8	7256.39	550.17	290.03	91.44	299.36	108.95	2015.05	71.38	<LOD	92.22	<LOD	15.81	113.72	5.15	233.36	9.49	14.04
	325	16859.51	570.78	3810.47	442.89	145.68	77.96	445.24	99.82	100.41	12.68	<LOD	9.24	<LOD	11.11	56.35	2.9	244.45	8.72	20.39
16SF-006	326	1112.09	156.98	2508.71	232.96	<LOD	70.51	<LOD	234.75	<LOD	9.73	<LOD	5.54	<LOD	8.34	<LOD	1.5	254.95	8.77	7.42
16SF-006	327	1044.65	152.99	2729.01	243.02	<LOD	81.73	183.61	100.73	<LOD	10.59	<LOD	7.16	<LOD	7.37	<LOD	1.5	258.07	9.05	4.56
16SF-006	328	1182.3	159.48	2666.29	245.94	<LOD	72.69	<LOD	149.65	<LOD	10.54	<LOD	6.15	<LOD	7.17	<LOD	1.5	248.88	8.82	4.12
16SF-007	329	<LOD	155.31	734.14	149.74	52.01	26.9	<LOD	188.77	<LOD	12.82	<LOD	8.92	<LOD	7.76	<LOD	1.5	475.13	14.71	4.68
16SF-007	330	<LOD	148.01	721.8	148.5	<LOD	40.56	<LOD	219.26	<LOD	11.16	<LOD	5.99	<LOD	7.17	<LOD	1.5	464.11	14.36	3.55
16SF-007	331	<LOD	194.72	623.91	151.01	47.6	27.53	<LOD	169.34	<LOD	11.03	<LOD	6.43	<LOD	8.46	1.84	1	473.23	14.56	3.79
16SF-009	332	4188.13	376.89	7303.1	691.52	400.39	112.98	1496.38	144.27	179.81	19.85	<LOD	9.16	<LOD	11.67	5.15	1.47	152.97	7.91	34.27
16SF-009	333	4309.57	372.83	7217.5	704.07	456.85	117.43	1549.75	138.8	162.35	18.06	<LOD	8.3	<LOD	10.71	5.54	1.41	150.39	7.43	31.67
16SF-009	334	4045.96	363.46	7211.61	683.91	427.7	112.63	1489.66	139.25	167.3	18.68	<LOD	8.42	<LOD	11.91	6.16	1.46	154.03	7.66	32.92

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Station	Reading	Y Error	Zr	Zr Error	Nb	Nb Error	Mo	Mo Error	Rh	Rh Error	Ag	Ag Error	Cd	Cd Error	Sn	Sn Error	Sb	Sb Error	Ba	Ba Error	La
	308	2.32	24.99	3.3	<LOD	3.03	<LOD	5.43	<LOD	6.55	<LOD	5.88	<LOD	14.86	<LOD	17.42	<LOD	23.01	<LOD	75.3	<LOD
	309	8.64	226.51	9.84	13.81	2.59	9.09	3.77	<LOD	6.99	22.86	7.44	<LOD	13.24	<LOD	24.21	169.61	24.37	1007.77	87.28	171.72
	310	3.38	172.28	7.49	8.17	2.15	<LOD	6.99	<LOD	5.88	<LOD	6.81	<LOD	10.57	<LOD	20.45	<LOD	25.16	760.75	71.28	<LOD
16SF-003	311	4.01	102.6	7.15	4.42	2.73	<LOD	5.27	<LOD	9.66	<LOD	10.55	<LOD	16.76	<LOD	42.51	<LOD	46.95	413.96	100.62	318.45
16SF-003	312	4.08	95.32	6.84	4.21	2.71	<LOD	6.21	<LOD	9.17	<LOD	10.85	<LOD	16.42	<LOD	33.72	<LOD	38.13	389.22	99.22	302.49
16SF-003	313	3.9	97.85	6.84	<LOD	3.96	<LOD	6.01	<LOD	9.44	<LOD	10.73	<LOD	15.89	<LOD	31.11	<LOD	37.14	348.85	97.03	181.45
16SF-004	314	4.42	113.29	7.28	<LOD	3.93	<LOD	5.08	<LOD	8.69	<LOD	11.09	<LOD	15.28	<LOD	30.84	<LOD	35.25	362.85	90.53	316.54
16SF-004	315	4.26	111.97	7.24	5.26	2.67	<LOD	6.19	<LOD	10.75	<LOD	14.83	<LOD	19.57	<LOD	31.14	<LOD	42.41	383.19	97.19	372.1
16SF-004	316	4.48	113.46	7.54	<LOD	5.53	<LOD	5.74	<LOD	11.2	<LOD	14.19	<LOD	20.68	<LOD	47.07	<LOD	47.21	363.42	92.98	317.15
16SF-005	317	3.6	131.57	6.45	3.02	2	<LOD	4.76	<LOD	9.12	<LOD	8.24	<LOD	11.08	<LOD	21.17	<LOD	26.38	435.11	68.23	<LOD
16SF-005	318	4.72	121.86	6.25	<LOD	3.01	<LOD	5.11	<LOD	10.07	<LOD	7.26	<LOD	11.28	<LOD	21.52	<LOD	26.19	488.52	69.78	145.66
16SF-005	319	2.49	127.97	6.47	5.42	2.09	<LOD	6.61	<LOD	6.18	<LOD	7.17	<LOD	11.46	<LOD	21.82	<LOD	27.11	511.03	70.47	<LOD
16SF-006	320	4.49	156.95	9	<LOD	5.48	<LOD	6.36	<LOD	11.18	<LOD	10.05	<LOD	15.74	<LOD	48.97	<LOD	36.46	208.99	91.57	288.07
16SF-006	321	4.62	123.7	8.31	<LOD	4.22	<LOD	6.48	<LOD	14.74	<LOD	10.82	<LOD	16.49	<LOD	31.22	<LOD	45.16	233.61	95.62	453.24
16SF-006	322	4.35	123.14	8.02	4.37	2.72	<LOD	8.6	<LOD	9.5	<LOD	17.52	<LOD	17.04	<LOD	29.9	<LOD	37.72	219.72	93.56	413.76
	323	2.31	25.48	3.26	<LOD	2.71	<LOD	3.14	<LOD	4.87	<LOD	5.85	<LOD	11.25	<LOD	22.27	<LOD	22.41	<LOD	88.15	<LOD
	324	8.91	237.81	10.38	12.86	2.63	11.55	3.92	<LOD	8.32	28.78	7.28	20.26	9.36	<LOD	24.6	188.1	23.42	1072.15	84.05	210.77
	325	3.43	163.03	7.28	7.55	2.14	<LOD	5.46	<LOD	6.1	<LOD	7.14	<LOD	11.45	<LOD	21.38	<LOD	31.15	806.46	72.91	<LOD
16SF-006	326	2.32	55.64	4.66	<LOD	3.1	<LOD	5.63	<LOD	7.23	<LOD	6.82	<LOD	10.88	<LOD	25.15	<LOD	26.08	149.69	64.28	167.77
16SF-006	327	2.27	57.64	4.81	<LOD	2.48	<LOD	4.62	<LOD	6.86	<LOD	7.12	<LOD	11.13	<LOD	21.89	<LOD	26.85	137.26	65.59	202.46
16SF-006	328	2.28	60.58	4.86	<LOD	2.01	<LOD	3.64	<LOD	6.22	<LOD	6.92	<LOD	11.45	<LOD	21.71	<LOD	26.28	<LOD	98.03	120.66
16SF-007	329	2.33	85.61	5.99	<LOD	3.74	<LOD	5.9	<LOD	5.48	<LOD	6.79	<LOD	10.29	<LOD	20.38	<LOD	24.39	127.95	60.35	135.06
16SF-007	330	2.3	86.75	5.96	<LOD	2.09	<LOD	3.64	<LOD	5.87	<LOD	6.97	<LOD	10.41	<LOD	20	<LOD	24.23	143.52	61.02	154.84
16SF-007	331	2.32	81.35	5.87	<LOD	3.4	<LOD	5.58	<LOD	5.53	<LOD	6.4	<LOD	10.15	<LOD	19.18	<LOD	23.67	190.93	58.41	215.65
16SF-009	332	4.18	112.32	7.39	7.42	2.73	<LOD	7.63	<LOD	11.92	<LOD	11.02	<LOD	16.65	<LOD	31.75	<LOD	38.88	320.76	97.21	270.75
16SF-009	333	3.88	107.62	6.87	4.6	2.51	<LOD	6.29	<LOD	8.14	<LOD	9.81	<LOD	15.42	<LOD	29.35	<LOD	36.16	406.48	92.49	304.95
16SF-009	334	3.98	112.12	7.11	<LOD	3.74	<LOD	5.39	<LOD	9.46	<LOD	11.38	<LOD	16.57	<LOD	31.23	<LOD	37.88	315.96	95.59	304.56

Station	Reading	La Error	Ce	Ce Error	Hf	Hf Error	W	W Error	Pt	Pt Error	Pb	Pb Error	Bi	Bi Error	Bal	Bal Error
	308	91.41	<LOD	99.82	<LOD	39.98	<LOD	56.26	<LOD	21.97	<LOD	4.79	<LOD	4.9	550999.44	6438.77
	309	89.4	338.86	100.06	<LOD	106.43	129.8	72.01	<LOD	51	4883.92	141.63	<LOD	31.54	566430.19	7852.16
	310	181.69	<LOD	190.65	<LOD	62.37	<LOD	67.86	<LOD	26.54	11.25	5.44	10.2	6.45	624886.06	6563.9
16SF-003	311	119.82	547.65	135.11	87.35	52.65	<LOD	101.69	<LOD	42.11	<LOD	9.14	<LOD	9.87	594914.38	8854.15
16SF-003	312	118.46	396.81	131.08	<LOD	125.02	<LOD	119.13	<LOD	61.55	<LOD	9.62	<LOD	8.97	606837.19	8439.06
16SF-003	313	114.82	308.24	127.49	76.42	50.69	<LOD	98.44	<LOD	40.9	<LOD	8.58	<LOD	8.75	608457.25	8363.33
16SF-004	314	108.61	480.48	121.41	<LOD	120.96	<LOD	91.57	<LOD	56.36	<LOD	8.43	<LOD	8.94	559577.63	8923.25
16SF-004	315	117.14	451.12	129.38	<LOD	83.22	<LOD	115.28	<LOD	40.75	<LOD	8.14	<LOD	9.21	553768.88	9087.01
16SF-004	316	111.5	487	124.8	<LOD	80.25	<LOD	124.77	<LOD	39.33	<LOD	8.44	<LOD	10.61	553681.38	9485.25
16SF-005	317	117.09	175.76	85.82	<LOD	52.61	<LOD	62.59	<LOD	25.06	<LOD	5.54	<LOD	6.37	678696.44	6063.18
16SF-005	318	79.25	186.12	86.91	<LOD	63.64	<LOD	65.07	<LOD	26.18	<LOD	5.88	<LOD	10.55	699330.06	5852.02
16SF-005	319	119.01	220.96	87.91	<LOD	85.03	<LOD	66.02	<LOD	26.46	<LOD	5.9	<LOD	9.55	687307.44	6117.82
16SF-006	320	112.35	494.76	126.33	88.33	52.45	<LOD	92.02	<LOD	37.66	<LOD	8.6	<LOD	9.24	565799.31	9129.84
16SF-006	321	119.62	509.82	131.77	81.45	51.65	<LOD	118.55	<LOD	44.95	<LOD	9.11	<LOD	9.71	539021.81	10222.91
16SF-006	322	116.65	531.3	129.64	<LOD	66.53	<LOD	101.16	<LOD	44.06	<LOD	8.11	<LOD	9.57	562091.44	9232.76
	323	105.35	<LOD	117.48	<LOD	38.73	<LOD	57.47	<LOD	21.79	<LOD	4.76	<LOD	4.83	548228.75	6420.1
	324	84.15	288.74	93.02	<LOD	110.74	<LOD	106.97	<LOD	59.03	4983.68	147.96	<LOD	33.1	559710.31	8092.28
	325	150.32	128.79	83.93	<LOD	75.95	<LOD	65.95	<LOD	26.27	14.81	5.67	<LOD	9.71	617373.25	6722.01
16SF-006	326	78.17	228.09	85.97	<LOD	73.81	<LOD	59.94	<LOD	23.67	<LOD	5.27	<LOD	8.72	787219.06	3931.05
16SF-006	327	80.32	296.09	88.79	<LOD	57.46	<LOD	63.71	<LOD	34.7	<LOD	5.47	<LOD	5.95	786287.13	4025.58
16SF-006	328	79.65	137.29	87.04	<LOD	76.71	<LOD	64.33	<LOD	25.26	<LOD	9.81	<LOD	8.15	786124.63	4047.99
16SF-007	329	73.29	217.36	80.85	<LOD	52.18	<LOD	61.84	<LOD	24.42	<LOD	5.88	<LOD	8.23	639531.88	6675.2
16SF-007	330	74.11	191.78	81.21	<LOD	48.39	<LOD	64.47	<LOD	26.16	<LOD	6.65	<LOD	6.07	639722.19	6675.6
16SF-007	331	70.98	243.4	77.72	<LOD	51.68	<LOD	63.12	<LOD	24.82	<LOD	8.12	<LOD	6.74	646380.63	6488.36
16SF-009	332	116.78	360.38	129.14	<LOD	76.24	<LOD	92.86	<LOD	52.85	<LOD	7.99	<LOD	8.41	602530.5	8258.9
16SF-009	333	110.01	398.39	121.71	<LOD	114.78	<LOD	85.46	<LOD	47.23	<LOD	7.43	<LOD	7.81	561708.81	8532.92
16SF-009	334	115.49	379.28	127.43	<LOD	70.99	<LOD	114.32	<LOD	40.24	<LOD	7.56	<LOD	7.94	563000.38	8611.28