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#### Assessment Report on Geology and Sampling of the "B-Zone" Chromite Occurrence, Chrome Property, Thunder Bay South District, Ontario

Patented Claims PAT-16032 (TB8423), PAT-16033 (TB8424), PAT-16035 (TB10827), PAT-16036 (TB10828) Obonga Lake Area (G-0100), Thunder Bay Mining Division Latitude 49° 58' 28" N, Longitude 89° 30' 21" W; UTM WGS84 Zone 16U 320328 mE, 5538810 mN; NTS 52H 14 - Gull Bay

> For: Pavey Ark Minerals Inc. Client number 411465

Prepared By: Richard H. Sutcliffe, Ph.D., P.Geo. (Client number 225603) 130 Foxridge Drive, Ancaster, ON, L9G 5B9

October 17, 2019

#### **Executive Summary**

This assessment report documents geological mapping, sampling, and assays from the "B-Zone" chromite occurrence on the Chrome Property, Thunder Bay Mining Division, Ontario. The exploration targets chromite mineralization and associated nickel, platinum group metal (PGM) mineralization potential in serpentinite intrusion that hosts the past-producing Chrome Lake mine.

The Chrome Property is located 179 km north of the city Thunder Bay, 49 km southwest of the town of Armstrong Station, and 1,043 km northwest of Toronto, Ontario. Highway 527, a paved highway that extends north from Thunder Bay to Armstrong, is located 25 km east of the Property. The property is accessed from the Obonga Lake and Scalp Creek roads and then a 2.2 km long hiking/snowmobile trail that extends SW to the Property from the west end of the Scalp Creek road.

Field work and sampling for this report was carried out from September 25 to October 2, 2019 on patented claims PAT-16032 (TB8423), PAT-16033 (TB8424), PAT-16035 (TB10827), and PAT-16036 (TB10828). Outcrops were power washed and sampled by A-Star Prospecting of Thunder Bay, Ontario. The author was in the field from September 28 to 30, 2019. Samples were submitted to Activation Laboratories Ltd. ("ActLabs"), Ancaster, Ontario, for analysis on October 7, 2019 and reporting was completed on October 17, 2018. Total expenditures (excluding HST) were \$20,163.

The Chrome Property is underlain by the Chrome-Puddy serpentinite intrusion. Historically, exploration in the eastern portion of the serpentinite on which this work was performed has targeted chromite. Following the discovery of chromite at Chrome Lake in 1928, Consolidated Chromium Corporation completed trenching, drilling and shaft sinking at the Chrome Lake mine where 7,672 tons of chromite were mined between 1934 and 1938. The ultramafic rocks have been completely altered to serpentine, talc, chlorite, carbonate, magnetite, and amphibole. Medium-grained, strongly foliated biotite tonalite bounds the serpentinite to the north and east.

Rock analyses were done at ActLabs, Ancaster, Ontario. Thirty two (32) ultramafic rocks were analyzed for Pt, Pt, Au by fire assay and for Cr, Ni and other elements by ICP-OES following peroxide fusion.

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#### 1.0 Introduction

This assessment report documents geological mapping, sampling, and assays from the "B-Zone" chromite occurrence on the Chrome Property, Thunder Bay Mining Division, Ontario.

Field work and sampling for this report was carried out September 25 to October 2, 2019 on patented claims PAT-16032 (TB8423), PAT-16033 (TB8424), PAT-16035 (TB10827), PAT-16036 (TB10828). Outcrops were power washed and sampled by A-Star Prospecting of Thunder Bay, Ontario. The author was in the field from September 28 to 30, 2019. Samples were submitted to Activation Laboratories Ltd. ("ActLabs"), Ancaster, Ontario, for analysis on October 7, 2019 and reporting was completed on October 17, 2018. Total expenditures were \$20,163.

The exploration targets chromite mineralization and associated nickel, platinum group metal (PGM) mineralization potential in serpentinite intrusion that hosts the past-producing Chrome Lake Mine.

#### 2.0 Location and Access

The Chrome Property is located in the Thunder Bay Mining District of northwestern Ontario. The property is 179 km north of the city Thunder Bay, 49 km southwest of the town of Armstrong Station, and 1,043 km northwest of Toronto, Ontario. Highway 527, a paved highway that extends north from Thunder Bay to Armstrong, is located 25 km east of the Property.

Logging roads east of the Property come to within 2.2 km of Chrome Lake. The logging road access route is from the "Obonga Lake Road" which is a signed gravel road west of highway 527 and located 30 km south of Armstrong Station. From the Obonga Lake Road, the property is accessed from the Scalp Creek Road and then a hiking/snowmobile trail. The trail is approximately 2.2 km long and extends SW to the Property from the west end of the Scalp Creek road.

A gasoline powered fire pump and fire hose for power washing, and the rock saw for sampling with fuel and accessories were carried manually for several km from the termination of the Scalp Creek road to the exploration site. This work required strenuous manual labour.

Figure 1. Chrome Property Location



Source: Google Earth 2016

#### 3.0 Claim Holdings and Property Disposition

The work for this assessment was completed on patented claims PAT-16032 (TB8423), PAT-16033 (TB8424), PAT-16035 (TB10827) and PAT-16036 (TB10828) in the eastern part of Pavey Ark's Chrome-Puddy Property. The Property includes a total of 11 contiguous patented claims and 77 contiguous staked cell claims. All claims are 100% owned by Pavey Ark Minerals Inc., a private company. The complete list of patented and staked claims that forms the Chrome – Puddy Property is provided in Appendices 1 and 2.

#### 4.0 Previous Work

Historically, exploration and development in the eastern portion of the Chrome-Puddy serpentinite has targeted chromite, while the western portions of the intrusion have been

explored for nickel and precious metals. Historic exploration activity on the property, as documented by Puumala et al. (2012) is summarized below.

Chromite was first discovered in the vicinity of Chrome Lake in 1928 by W.K. Keefe and R.A. MacDonald who staked the occurrence and transferred ownership to Golden Centre Mines Inc. of New York. In 1930 Consolidated Chromium Corporation, a subsidiary of Golden Centre Mines, began development work, including stripping, trenching, drilling and shaft sinking. The shaft was sunk to a depth of 350 feet, with levels at 100 and 225 feet. Operations ceased in late fall of 1930 and did not resume until 1933, when new owner Chromium Alloy Co. sent 70 tons of ore to Niagara Falls, New York, for beneficiation tests. Chromium Mining and Smelting Corp. Ltd. was formed and took control of the property in 1934 and re-commenced operations in 1936. Underground work was discontinued in 1937 because of poor ore recovery, and all activities on the site ceased in 1938. The Chrome property has been inactive since 1938.

Between 1964 and 1967, Commerce Nickel Mines carried out the first significant exploration program targeting nickel in the western portion of the Puddy serpentinite, including trenching, geological mapping, geochemical and geophysical surveys and diamond drilling (24 diamond-drill holes, totalling 5,590 feet). Between 1967 and 1968, Newmont Mining Corp. of Canada completed trenching, electromagnetic surveying and diamond drilling (10 holes, totalling 3106 feet). By the mid- to late-1980s, the area began to receive attention for its PGE potential. Between 1985 and 1993, K. Kuhner carried out prospecting, outcrop stripping, surface sampling and ground geophysical surveys on claims located on the south side of Puddy Lake. The property was transferred to Obongo Precious Metals Ltd. in 1993, and Obongo completed approximately 20 diamond-drill holes between 1993 and 1996. Imperial Platinum Corp. carried out geological mapping, sampling and ground geophysical surveys in 1987 and 1988 over an adjacent property encompassing areas west, north and southeast of Puddy Lake.

The OGS completed airborne magnetic and electromagnetic surveys with the Dighem EM system in 2000 with 200m line spacing and a nominal 58m terrain clearance (OGS 2000). The most recent exploration activity includes ground magnetic and electromagnetic surveys conducted by Vale Inco Ltd. in 2007 over a property covering the western half of the Puddy Lake serpentinite that identified a number of east west trending conductors, particularly north of Puddy Lake. D. Plumridge has carried out prospecting and sampling of a claim near the southeast end of Puddy Lake since 2004.

Pavey Ark Minerals Inc reported results of mapping, portable XRF analysis and prospecting in 2014 and 2015. Pavey Ark conducted geological mapping and VLF-EM surveying on a 3.7 km grid west of the Chrome Mine shaft in 2016. This grid was extended to the northwest in 2017 with an additional 2.75 km of grid combined with geological mapping and VLF-EM surveying by Pavey Ark. The survey identified a VLF-EM anomaly that is concident with an airborne EM response and the northern contact of the ultramafic. Petrographic and SEM studies by Pavey Ark in 2018 confirmed that the ultramafic rocks east of Chrome Lake consist of serpentinized dunite and peridotite with relict olivine cumulate textures and locally intercumulus amphibole that likely replace pyroxenes. Disseminated oxide phases in the serpentinite are primarily Cr-

bearing magnetite with minor amounts of Mn-bearing ilmenite. Chromite is locally present as massive layers.

#### 5.0 Property Geology

The Chrome-Puddy Property is located in the Obonga metavolcanic and metasedimentary greenstone belt of the Archean Superior Province. The Obonga greenstone belt is a relatively small (approximately 10 x 40 km) greenstone belt, situated between the Sturgeon-Savant belt on the west and the Onaman-Tashota belt to the east, and has been considered to be part of the Wabigoon Subprovince (Percival and Stott 2000).

The Chrome Puddy Property is underlain by the Chrome-Puddy serpentinite intrusion that is exposed for 7 km along strike and is approximately 1 km in width (Figure 2). Whittaker (1986) reports that rocks of the intrusion include dunite, peridotite, and minor pyroxenite, all of which are serpentinized. Medium-grained, biotite tonalite bounds the Serpentinite to the north. South of Puddy Lake, the serpentinite intrusion is bound by mylonite and mixed metasedimentary and granitic rocks. North-striking and east-striking diabase dikes of probable middle Proterozoic age cut the Serpentinite.

**Figure 2. Chrome Puddy Property geology and claims.** Chrome Property patented claims that are the subject of the current assessment report are outlined in black.



Base map source: MLAS 2019

The ultramafic rocks have been completely altered to serpentine, talc, chlorite, carbonate, magnetite, and amphibole. The alteration, metamorphism and deformation of the serpentinite has made the interpretation of protoliths in the intrusion difficult (Graham 1930; Hurst 1931; Simpson and Chamberlain 1967; Whittaker 1986). Although no ultramafic rocks with primary mineralogy remain, the original rock types in some areas can be inferred with confidence by comparison with the results of studies on known types of serpentine pseudomorphs. The best preserved primary texture in the serpentinite is relict a relict olivine cumulate texture that locally exceeds 90% of the rock and indicates the original rock was probably a dunite. In some rocks, the presence of intercumulus poikilitic amphibole probably replaces pyroxene and is indicative of peridotite.

#### 6.0 "B-Zone" Geology

Hurst (1931) describes the "B Zone" and the "E-Zone" as being the two most important occurrences of chromitite on the Property, with the latter being the location of shaft and the past-producing Chrome Lake mine. Chromitite is an igneous cumulate rock composed mostly of chromite.

Using Hurst's (1931) sketch map, the "B-Zone" was relocated and was cleaned by power washing with gas powered fire pump. The power washing exposed several chromite occurrences beneath moss covered outcrops (Figure 3). The work also located a trench and a pit from the 1930's exploration (Map 2).

Hurst (1931) describes the "B-Zone" as follows:

"This zone is located near the northwest corner of claim TB 8424 and about 600 feet east of Chrome lake. It consists of a flat lying body of chromite having an average thickness of about 2 feet. It is exposed over an area 150 feet in diameter and estimated by the management to contain about 5,000 tons of material running 34 per cent chromic oxide. The underlying serpentinite contains some disseminated chromite. A diamond-drill hole directed north at an angle of 45 degrees for 196 feet intersected no chromite-bearing rock."

#### Figure 3. Photographs of "B-Zone" chromite occurrence



#### 7.0 Assay Samples

Thirty two (32) rock channel and chip samples were submitted for assay at Activation Laboratories Ltd. (ActLabs), in Ancaster Ontario.

A list of samples with UTM locations and descriptions is provided in Appendix 3. Sample locations are provided on Map 2. Sample intervals were nominally 1 m long and cut along the 030° trending axis of the outcrops. The main "B-Zone" occurrence occurs at the south end of the sampled outcrops. Samples numbered 677301 to 677315 were channel sampled with a portable gas-powered rock saw. A saw failure resulted in samples 677316 to 677332 being collected as chip samples.

The analytical certificate is presented as Appendix 5. All samples were submitted for fire assay with ICP finish for Pt, Pd, Au and multi-element analyses using a sodium peroxide fusion and ICP finish. The sodium peroxide fusion was used to ensure total dissolution of refractory minerals such as chromite.

Cr is the element of most interest in the samples. The chromite-bearing peridotite and chromitite from the main B-Zone occurrence (samples 677319 to 677332) ranged from 3.6 to 19.8% Cr with a 10 m interval averaging 10.4% Cr. This interval may not be representative of true thickness as the samples are interpreted to have been collected along a south sloping surface that is approximately parallel to the south dip of layering.

Three channel samples (677301 to 677303) from the northern extent of the sample section have 3.4 to 5.1% Cr and average 4.1% Cr over 3 m. These samples are from a distinct south dipping chromite rich lens that was uncovered during power washing and is separate from the main B-Zone mineralization.

All of the ultramafic samples contained relatively low precious metal values. Weakly anomalous Pt concentrations up to 39 ppb are observed associated with some chrome-rich peridotite (samples 677320 and 677321. Pt is generally higher than Au and Pd, with the latter generally being below detection limit. Ni concentrations range from 0.04 to 0.13% with higher values toward the north end of the sampled outcrops. Cu values were mostly below detection limits.

#### 8.0 Conclusions and Recommendations

This work located and sampled the B-Zone chromite occurrence described by Hurst in 1931. B-Zone chromitite and chromite-peridotite samples ranged from 3.6 to 19.8% Cr with a 10 m interval averaging 10.4% Cr. A smaller chromite-rich lens was found at the north end of the outcrops with samples ranging from 3.4 to 5.1% Cr. Highest nickel values occur toward the north end of the sampled outcrops.

Further work on the ultramafic intrusion should focus on identification of massive chromite layers similar to those found at the Chrome mine and on potential base metal sulphide mineralization at the basal contact of the intrusion.

#### 9.0 References

Graham, A.R., 1930, Obonga Lake Chromite Area, District of Thunder Bay, in the Thirty-Ninth Annual Report of the Ontario Department of Mines, Vol. XXXIX, Part II, pp. 51-60.

Hurst, M.E., 1931, Chromite Deposits of the Obonga Lake Area, District of Thunder Bay, in the Fortieth Annual Report of the Ontario Department of Mines, Vol. XL, Part IV, pp. 111-119.

Ontario Geological Survey, 2000, Airborne magnetic and electromagnetic surveys, Garden-Obonga area, Ontario Geological Survey, Map 82-097, Scale 1:20,000.

Percival, J.A., and Stott, G.M. 2000, toward a revised stratigraphy and structural framework for the Obonga Lake greenstone belt, Ontario, Geological Survey of Canada, Current Research 2000-C22, 8 p.

Puumala, M., et al. 2013, Report of Activities 2012, Resident Geologists Program, Thunder Bay South District, Ontario Geological Survey P6285.

Simpson, P.R., and Chamberlain, J.A., 1967: Nickel Distribution in Serpentinites from Puddy Lake, Ontario; Geo. Assoc. Canada Proceedings, Vol. 18, p.67-91.

Whittaker, P.J., 1986, Chromite Deposits in Ontario, Ontario Geological Survey, Study 55, 97p.

#### **10.0 Statement of Qualifications**

I, Richard H. Sutcliffe, of 130 Foxridge Drive, Ancaster, Ontario, do hereby certify that:

I am a graduate of University of Toronto (B.Sc. Geology, 1977, M.Sc Geology 1980), and a graduate of University of Western Ontario (Ph.D. Geology, 1986) and I have been practising my profession as a geologist since.

I am a member with the Association of Professional Geoscientists of Ontario (#852). I have direct knowledge of the exploration work performed for this assessment and I am indirectly the owner of the claims on which the work was performed.

Signed

"R.H. Sutcliffe"

Richard H. Sutcliffe, Ph.D., P.Geo. October 17, 2019 Ancaster, Ontario

MLAS Mining	Patent Number	Recorded Claim Number	Area (acres)	Area (hectares)
<b>Rights Number</b>				
PAT-16029	TB 8420	TB 14414 & TB14413	88.55	35.84
PAT-16030	TB 8421	TB 14415	50.91	20.60
PAT-16031	TB 8422	TB 14412	33.90	13.72
PAT-16032	TB 8423	TB 10835	66.41	26.88
PAT-16033	TB 8424	TB 10836	69.24	28.02
PAT-16034	TB 8425	TB 10826	44.63	18.06
PAT-16035	TB 8426	TB 10827	41.87	16.94
PAT-16036	TB 8427	TB 10828	31.88	12.90
PAT-16037	TB 8428	TB 10883	17.83	7.22
PAT-16038	TB 8814	TB 8814	74.67	30.22
PAT-16039	TB 9294	TB 19207	40.56	16.41
			Total 560.45	226.81

Appendix 1.	List of Patented Claims owned by	Pavey	/ Ark
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#### Appendix 2. List of Staked Claims comprising the Chrome Puddy Property

Legacy Claim Id	Township / Area	Tenure ID	Tenure Type	Anniversary Date	Work Required
4254345	OBONGA LAKE AREA	233023	Single Cell Mining Claim	2019-10-20	400
4254345	OBONGA LAKE AREA	121686	Single Cell Mining Claim	2019-10-20	400
4285401	OBONGA LAKE AREA	341225	Single Cell Mining Claim	2019-10-20	400
4285401	OBONGA LAKE AREA	328866	Single Cell Mining Claim	2019-10-20	400
4285401	OBONGA LAKE AREA	328865	Single Cell Mining Claim	2019-10-20	400
4285401	OBONGA LAKE AREA	289661	Single Cell Mining Claim	2019-10-20	400
4285401	OBONGA LAKE AREA	282278	Single Cell Mining Claim	2019-10-20	400
4285401	OBONGA LAKE AREA	270180	Single Cell Mining Claim	2019-10-20	400
4285401	OBONGA LAKE AREA	262224	Single Cell Mining Claim	2019-10-20	400
4285401	OBONGA LAKE AREA	262223	Single Cell Mining Claim	2019-10-20	400
4285401	OBONGA LAKE AREA	214260	Single Cell Mining Claim	2019-10-20	400
4285401	OBONGA LAKE AREA	195573	Single Cell Mining Claim	2019-10-20	400
4285401	OBONGA LAKE AREA	195572	Single Cell Mining Claim	2019-10-20	400
4285401	OBONGA LAKE AREA	179678	Single Cell Mining Claim	2019-10-20	400
4285401	OBONGA LAKE AREA	179677	Single Cell Mining Claim	2019-10-20	400
4285401	OBONGA LAKE AREA	160829	Single Cell Mining Claim	2019-10-20	400
4244587	OBONGA LAKE AREA	164485	Single Cell Mining Claim	2019-10-22	200
4244587	OBONGA LAKE AREA	279745	Single Cell Mining Claim	2019-10-22	200
4244587	OBONGA LAKE AREA	268426	Single Cell Mining Claim	2019-10-22	200
4244587	OBONGA LAKE AREA	261066	Single Cell Mining Claim	2019-10-22	200
4244587	OBONGA LAKE AREA	261065	Single Cell Mining Claim	2019-10-22	400

4254343	PUDDY LAKE AREA	339676	Single Cell Mining Claim	2019-10-22	400
4254343	PUDDY LAKE AREA	178105	Single Cell Mining Claim	2019-10-22	400
4265987	PUDDY LAKE AREA	106244	Single Cell Mining Claim	2019-10-22	400
4265987	PUDDY LAKE AREA	341568	Single Cell Mining Claim	2019-10-22	400
4265987	PUDDY LAKE AREA	319502	Single Cell Mining Claim	2019-10-22	400
4265987	PUDDY LAKE AREA	302819	Single Cell Mining Claim	2019-10-22	400
4265987	PUDDY LAKE AREA	302818	Single Cell Mining Claim	2019-10-22	400
4265987	PUDDY LAKE AREA	302817	Single Cell Mining Claim	2019-10-22	400
4265987	PUDDY LAKE AREA	282627	Single Cell Mining Claim	2019-10-22	400
4265987	PUDDY LAKE AREA	234611	Single Cell Mining Claim	2019-10-22	400
4265987	PUDDY LAKE AREA	234610	Single Cell Mining Claim	2019-10-22	400
4265987	PUDDY LAKE AREA	234609	Single Cell Mining Claim	2019-10-22	400
4265987	PUDDY LAKE AREA	199015	Single Cell Mining Claim	2019-10-22	400
4265987	PUDDY LAKE AREA	186806	Single Cell Mining Claim	2019-10-22	400
4265987	PUDDY LAKE AREA	186805	Single Cell Mining Claim	2019-10-22	400
4265987	PUDDY LAKE AREA	134829	Single Cell Mining Claim	2019-10-22	400
4265987	PUDDY LAKE AREA	134828	Single Cell Mining Claim	2019-10-22	400
4265987	PUDDY LAKE AREA	132895	Single Cell Mining Claim	2019-10-22	200
4265987	PUDDY LAKE AREA	106245	Single Cell Mining Claim	2019-10-22	400
4265988	PUDDY LAKE AREA	280709	Single Cell Mining Claim	2019-10-22	200
4265988	PUDDY LAKE AREA	178104	Single Cell Mining Claim	2019-10-22	200
4265988	PUDDY LAKE AREA	164572	Single Cell Mining Claim	2019-10-22	200
4254343	PUDDY LAKE AREA	106762	Single Cell Mining Claim	2019-11-27	400
4254343	PUDDY LAKE AREA	340260	Single Cell Mining Claim	2019-11-27	400
4254343	PUDDY LAKE AREA	301526	Single Cell Mining Claim	2019-11-27	400
4254343	PUDDY LAKE AREA	233274	Single Cell Mining Claim	2019-11-27	400
4254343	PUDDY LAKE AREA	225269	Single Cell Mining Claim	2019-11-27	400
4254343	PUDDY LAKE AREA	121453	Single Cell Mining Claim	2019-11-27	400
4254343	PUDDY LAKE AREA	121452	Single Cell Mining Claim	2019-11-27	400
4254345	OBONGA LAKE AREA	106043	Single Cell Mining Claim	2019-11-27	200
4254345	OBONGA LAKE AREA	340354	Single Cell Mining Claim	2019-11-27	400
4254345	OBONGA LAKE AREA	281892	Single Cell Mining Claim	2019-11-27	200
4254345	OBONGA LAKE AREA	252884	Single Cell Mining Claim	2019-11-27	400
4254345	OBONGA LAKE AREA	179321	Single Cell Mining Claim	2019-11-27	400
4254345	OBONGA LAKE AREA	179320	Single Cell Mining Claim	2019-11-27	400
4254345	OBONGA LAKE AREA	166580	Single Cell Mining Claim	2019-11-27	400
4254345	OBONGA LAKE AREA	149533	Single Cell Mining Claim	2019-11-27	400
4254345	OBONGA LAKE AREA	134085	Single Cell Mining Claim	2019-11-27	200
4254346	PUDDY LAKE AREA	290692	Single Cell Mining Claim	2019-11-27	400
4254346	PUDDY LAKE AREA	282629	Single Cell Mining Claim	2019-11-27	200
4254346	PUDDY LAKE AREA	180062	Single Cell Mining Claim	2019-11-27	400

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4254346	PUDDY LAKE AREA	180047	Single Cell Mining Claim	2019-11-27	200
	OBONGA LAKE				
4254346	AREA, PUDDY LAKE AREA	341571	Single Cell Mining Claim	2019-11-27	200
	OBONGA LAKE				
4254346	AREA, PUDDY LAKE AREA	180061	Single Cell Mining Claim	2019-11-27	400
	OBONGA LAKE				
4254346	AREA, PUDDY LAKE AREA	Y LAKE AREA 134850 Single Cell Mir   IKE AREA 302837 Single Cell Mir   E AREA 184717 Single Cell Mir	Single Cell Mining Claim	2019-11-27	400
4254346	OBONGA LAKE AREA		Single Cell Mining Claim	2019-11-27	400
4254343	PUDDY LAKE AREA	184717	Single Cell Mining Claim	2020-03-21	400
4254346	PUDDY LAKE AREA	301445	Boundary Cell Mining Claim	2020-10-22	200
4265979	PUDDY LAKE AREA	289296	Boundary Cell Mining Claim	2020-10-22	200
4265987	PUDDY LAKE AREA	289295	Boundary Cell Mining Claim	2020-10-22	200
4265987	PUDDY LAKE AREA	252204	Boundary Cell Mining Claim	2020-10-22	200
4265988	PUDDY LAKE AREA	121380	Boundary Cell Mining Claim	2020-10-22	200
4254346	PUDDY LAKE AREA	120740	Boundary Cell Mining Claim	2021-03-21	200
	PUDDY LAKE AREA	548954	Single Cell Mining Claim	2021-04-24	400
	PUDDY LAKE AREA	548955	Single Cell Mining Claim	2021-04-24	400
	PUDDY LAKE AREA	548972	Single Cell Mining Claim	2021-04-26	400

Sample	Lab #	Easting	Northing	Length (m)	Field comments
Channel start	677301	320415	5538897	1.02	Dunite
Channel	677302			1.05	Dunite with chromite
Channel	677303			0.98	Dunite with chromite
Channel	677304			0.99	Serpentinite
Channel	677305			1.05	Serpentinite
Channel end	677306	320416	5538887	0.72	Serpentinite
Channel start	677307	320414	5538885	0.98	Serpentinite
Channel	677308			1.06	Serpentinite
Channel end	677309			0.74	Serpentinite
Channel start	677310	320412	5538881	0.98	Serpentinite
Channel end	677311			1.10	Serpentinite
Channel start	677312	320388	5538873	0.92	Serpentinite
Channel	677313			1.00	Serpentinite
Channel	677314			1.03	Serpentinite
Channel end	677315			0.76	Serpentinite
Chip start	677316	320383	5538864	1.00	Peridotite
Chip end	677317			1.00	Peridotite
Chip start	677318	320376	5538850	1.20	Peridotite
Chip start	677319	320374	5538846	1.00	Peridotite
Chip end	677320			1.00	Peridotite
Chip start	677321	320371	5538839	1.00	Peridotite
Chip	677322			1.00	Chromitite
Chip	677323			1.00	Peridotite, chromitite
Chip	677324			1.00	Peridotite, chromitite
Chip	677325			1.00	Peridotite, chromitite
Chip	677326			1.00	Chromitite
Chip	677327			1.00	Peridotite
Chip	677328			1.00	Peridotite, chromitite
Chip	677329			1.00	Peridotite
Chip	677330			1.00	Peridotite
Chip	677331			1.00	Peridotite, chromitite
Chip end	677332	320355	5538830	1.00	Peridotite, chromitite

Appendix 3. Sample Locations and field descriptions

Appendix 5. ActLabs Certificate

Quality Analysis ...



#### Innovative Technologies

Report No.:A19-13611Report Date:15-Oct-19Date Submitted:07-Oct-19Your Reference:Chrome lake Project

Pavey Ark Minerals Inc. 130 Foxridge Drive Ancaster ON L9G 5B9 Canada

ATTN: Richard H. Sutcliffe

### CERTIFICATE OF ANALYSIS

32 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1C-OES	QOP PGE-OES (Fire Assay ICPOES)	2019-10-15 12:30:13
8-Peroxide ICP	QOP Sodium Peroxide (Sodium Peroxide Fusion ICP)	2019-10-09 11:27:15

#### REPORT A19-13611

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Notes:

CERTIFIED BY:

Emmanuel Eseme, Ph.D. Quality Control Coordinator

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd.

#### Report: A19-13611

Analyte Symbol	Au	Pd	Pt	Al	As	Be	Ca	Co	Cr	Cu	Fe	К	Li	Mg	Mn	Ni	Pb	S	Sb	Si	Ti	W	Zn
Unit Symbol	ppb	ppb	ppb	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Lower Limit	2	5	5	0.01	0.01	0.001	0.01	0.002	0.01	0.005	0.05	0.1	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.01	0.005	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	FUS- Na2O2																			
677301	< 2	< 5	< 5	1.94	< 0.01	< 0.001	1.40	0.015	3.39	< 0.005	11.5	< 0.1	< 0.01	17.8	0.19	0.128	< 0.01	< 0.01	0.01	16.7	0.09	< 0.005	0.02
677302	7	7	8	2.39	< 0.01	< 0.001	1.30	0.017	5.12	< 0.005	10.8	< 0.1	< 0.01	17.5	0.24	0.113	< 0.01	0.01	0.02	15.5	0.10	< 0.005	0.03
677303	< 2	< 5	6	2.20	< 0.01	< 0.001	2.75	0.017	3.66	< 0.005	12.0	< 0.1	< 0.01	15.7	0.21	0.121	< 0.01	0.01	0.01	16.8	0.10	< 0.005	0.02
677304	4	6	8	1.94	< 0.01	< 0.001	3.13	0.012	0.46	< 0.005	9.38	< 0.1	< 0.01	17.5	0.10	0.128	< 0.01	< 0.01	< 0.01	19.5	0.10	< 0.005	< 0.01
677305	< 2	6	8	1.88	< 0.01	< 0.001	2.51	0.013	0.40	< 0.005	8.89	< 0.1	< 0.01	18.6	0.10	0.127	< 0.01	0.01	< 0.01	18.8	0.09	< 0.005	< 0.01
677306	5	< 5	< 5	1.84	< 0.01	< 0.001	1.93	0.014	0.38	0.038	8.77	< 0.1	< 0.01	19.1	0.10	0.118	< 0.01	0.03	< 0.01	18.7	0.09	< 0.005	< 0.01
677307	3	< 5	< 5	1.83	< 0.01	< 0.001	2.03	0.017	0.44	0.029	9.27	< 0.1	< 0.01	18.8	0.11	0.112	< 0.01	0.02	< 0.01	18.9	0.09	< 0.005	< 0.01
677308	3	< 5	< 5	1.74	< 0.01	< 0.001	1.69	0.017	0.78	0.025	9.47	< 0.1	< 0.01	18.7	0.12	0.118	< 0.01	0.03	< 0.01	18.8	0.08	< 0.005	0.01
677309	2	< 5	< 5	1.57	< 0.01	< 0.001	1.09	0.018	0.36	0.017	8.91	< 0.1	< 0.01	19.4	0.10	0.116	< 0.01	0.02	< 0.01	19.1	0.08	< 0.005	< 0.01
677310	< 2	< 5	7	2.15	< 0.01	< 0.001	3.18	0.011	0.15	< 0.005	8.53	< 0.1	< 0.01	17.9	0.10	0.105	< 0.01	< 0.01	< 0.01	19.9	0.10	< 0.005	< 0.01
677311	4	< 5	6	1.57	< 0.01	< 0.001	2.15	0.015	0.71	< 0.005	8.80	< 0.1	< 0.01	18.8	0.13	0.112	< 0.01	0.01	< 0.01	18.8	0.08	< 0.005	< 0.01
677312	4	< 5	7	2.28	< 0.01	< 0.001	4.56	0.009	0.94	< 0.005	8.17	< 0.1	< 0.01	15.8	0.15	0.038	< 0.01	< 0.01	< 0.01	20.9	0.11	< 0.005	< 0.01
677313	4	< 5	6	2.14	< 0.01	< 0.001	4.54	0.010	0.95	< 0.005	8.63	< 0.1	< 0.01	15.9	0.14	0.042	< 0.01	< 0.01	< 0.01	20.5	0.10	< 0.005	< 0.01
677314	< 2	< 5	5	1.73	< 0.01	< 0.001	3.15	0.012	0.62	0.011	8.76	< 0.1	< 0.01	17.3	0.13	0.053	< 0.01	< 0.01	< 0.01	19.4	0.08	< 0.005	< 0.01
677315	3	< 5	6	1.45	< 0.01	< 0.001	0.51	0.020	0.38	0.029	10.2	< 0.1	< 0.01	20.0	0.11	0.069	< 0.01	0.03	< 0.01	17.8	0.07	< 0.005	< 0.01
677316	< 2	< 5	< 5	1.52	< 0.01	< 0.001	0.14	0.014	0.29	0.028	9.49	< 0.1	< 0.01	20.6	0.08	0.089	< 0.01	< 0.01	< 0.01	18.0	0.07	< 0.005	< 0.01
677317	< 2	< 5	5	1.49	< 0.01	< 0.001	0.05	0.013	0.36	0.025	10.8	< 0.1	< 0.01	20.0	0.08	0.092	< 0.01	< 0.01	< 0.01	17.4	0.07	< 0.005	< 0.01
677318	8	< 5	< 5	1.34	< 0.01	< 0.001	0.95	0.010	0.31	< 0.005	9.24	< 0.1	< 0.01	20.4	0.11	0.071	< 0.01	< 0.01	< 0.01	17.6	0.05	< 0.005	< 0.01
677319	< 2	< 5	7	5.38	< 0.01	< 0.001	0.13	0.024	18.3	< 0.005	17.7	< 0.1	< 0.01	10.4	0.51	0.059	< 0.01	< 0.01	0.07	7.33	0.18	< 0.005	0.07
677320	< 2	< 5	39	2.16	< 0.01	< 0.001	3.29	0.010	3.89	< 0.005	7.64	< 0.1	< 0.01	15.9	0.17	0.088	< 0.01	< 0.01	0.01	16.8	0.09	< 0.005	0.01
677321	< 2	< 5	39	3.12	< 0.01	< 0.001	1.06	0.015	8.45	< 0.005	10.4	< 0.1	< 0.01	15.6	0.27	0.084	< 0.01	< 0.01	0.03	14.8	0.12	< 0.005	0.03
677322	< 2	< 5	10	5.75	< 0.01	< 0.001	0.45	0.026	19.8	< 0.005	16.8	< 0.1	< 0.01	9.88	0.50	0.053	< 0.01	< 0.01	0.07	6.69	0.20	< 0.005	0.08
677323	< 2	< 5	16	3.66	< 0.01	< 0.001	1.09	0.019	10.7	< 0.005	12.6	< 0.1	< 0.01	14.0	0.36	0.091	< 0.01	< 0.01	0.04	12.2	0.14	< 0.005	0.06
677324	< 2	< 5	< 5	3.12	< 0.01	< 0.001	0.76	0.015	7.84	< 0.005	11.4	< 0.1	< 0.01	15.7	0.29	0.099	< 0.01	0.01	0.03	14.9	0.12	< 0.005	0.03
677325	< 2	< 5	15	2.16	< 0.01	< 0.001	1.45	0.010	3.60	< 0.005	6.69	< 0.1	< 0.01	18.6	0.19	0.101	< 0.01	< 0.01	0.01	19.8	0.09	< 0.005	0.01
677326	< 2	< 5	< 5	3.51	< 0.01	< 0.001	0.45	0.016	9.82	< 0.005	11.2	< 0.1	< 0.01	15.2	0.29	0.078	< 0.01	< 0.01	0.04	14.2	0.14	< 0.005	0.03
677327	< 2	< 5	< 5	3.34	< 0.01	< 0.001	1.21	0.017	8.33	< 0.005	11.4	< 0.1	< 0.01	16.3	0.29	0.097	< 0.01	0.08	0.03	16.7	0.13	< 0.005	0.03
677328	< 2	< 5	16	5.23	< 0.01	< 0.001	0.27	0.026	18.1	< 0.005	17.0	< 0.1	< 0.01	10.8	0.47	0.062	< 0.01	< 0.01	0.07	7.97	0.19	< 0.005	0.07
677329	< 2	< 5	5	2.75	< 0.01	< 0.001	1.24	0.013	6.48	< 0.005	9.18	< 0.1	< 0.01	16.7	0.22	0.088	< 0.01	< 0.01	0.02	16.1	0.11	< 0.005	0.02
677330	< 2	< 5	< 5	2.61	< 0.01	< 0.001	1.47	0.012	6.28	< 0.005	9.33	< 0.1	< 0.01	16.7	0.23	0.084	< 0.01	< 0.01	0.02	16.0	0.11	< 0.005	0.02
677331	< 2	< 5	31	2.67	< 0.01	< 0.001	0.37	0.013	7.14	< 0.005	9.71	< 0.1	< 0.01	16.6	0.23	0.092	< 0.01	< 0.01	0.02	17.1	0.11	< 0.005	0.02
677332	13	< 5	16	5.04	< 0.01	< 0.001	0.12	0.024	17.2	< 0.005	15.9	< 0.1	< 0.01	11.3	0.44	0.063	< 0.01	< 0.01	0.06	9.07	0.18	< 0.005	0.07

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#### Activation Laboratories Ltd.

Analyte Symbol	Au	Pd	Pt	AI	As	Be	Ca	Co	Cr	Cu	Fe	к	l i	Ma	Mn	Ni	Ph	S	Sh	Si	Ti	W	Zn
I Init Symbol	nnh	nnh	nnh	o∕_	%	0/_	%	%	%	%	%	%	0/_	%	0/_	o/_	%	%	%	%	%	o/_	2/I
Lower Limit	2	5 5	5	<sup>70</sup>	<sup>70</sup>	0.001	<sup>70</sup>	0 002	0.01	0.005	0.05	<sup>70</sup>	<sup>70</sup>	<sup>70</sup>	0.01	0.005	<sup>70</sup>	<sup>70</sup>	<sup>70</sup>	<sup>70</sup>	<sup>70</sup>	<sup>70</sup> 0.005	<sup>/0</sup>
Method Code				FUS-	FUS-	FUS-	5.01 FUS-	0.002	FUS-	6.005 FUS-	0.00 FUS-	FUS-	FUS-	FUS-	FUS-	0.003 FUS-	FUS-	FUS-	FUS-	FUS.	FUS-	0.003 FUS-	FUS-
				Na2O2	Na2O2	Na2O2	Na2O2	Na2O2	Na2O2	Na2O2	Na2O2	Na2O2	Na2O2	Na2O2	Na2O2	Na2O2	Na2O2	Na2O2	Na2O2	Na2O2	Na2O2	Na2O2	Na2O2
PTM-1a Meas					0.21			2.04		24.9						48.0		22.8					
PTM-1a Cert					0.220			2.05		24.96						47.44		22.4					
CD-1 Meas					0.65														3.57				
CD-1 Cert					0.660														3.57				
DTS-2b Meas				0.22			0.08	0.013	1.64	< 0.005				31.7	0.08	0.385	< 0.01		< 0.01	18.7			< 0.01
DTS-2b Cert				0.240			0.0900	0.0120	1.55	0.00030 0				29.8	0.0830	0.378	0.00040 0		0.00006 00	18.4			0.00450
DTS-2b Meas									1.57														
DTS-2b Cert									1.55														
Oreas 74a (Fusion) Meas					< 0.01			0.055	0.18	0.122	13.6					3.21		7.26		15.1			
Oreas 74a (Fusion) Cert					0.005			0.058	0.18	0.124	13.7					3.24		7.25		15.14			
OREAS 131b (Fusion) Meas					< 0.01			0.002		0.024	5.78						1.87	4.87	< 0.01				3.02
OREAS 131b (Eusion) Cert										0.022	5.85						1.90	5.01					3.05
MP-1b Meas					2.24		2.59			3.12	8,12			0.03			2.10	13.3		167		0.109	16.4
MP-1b Cert					2.30		2 47			3.07	8.19			0.024			2 09	13 79		16 79		0.100	16.7
NCS DC73304 (GBW 07106) Meas					< 0.01	< 0.001		< 0.002	< 0.01	< 0.005			< 0.01		0.02	< 0.005	< 0.01	0.08	< 0.01	42.9	0.16	< 0.005	< 0.01
NCS DC73304 (GBW 07106) Cert																		0.09		42.24	0.16		
AMIS 0129 Meas											44.3				0.27					4.64	13.7		
AMIS 0129 Cert											43.573				0.28					4.47	13.75		
NCS DC86303 Meas													0.21									< 0.005	
NCS DC86303 Cert													0.21									0.0009	
NCS DC86314 Meas													1.80									0.008	
NCS DC86314 Cert													1.81										
PK2 Meas	4860	6090	4880																				
PK2 Cert	4785	5918	4749																				
CPB-2 Meas				0.07						0.127	6.94			0.10			64.8						5.84
CPB-2 Cert				0.074						0.1213	7.065			0.0683			63.52						6.04
CZN-4 Meas				0.08	0.04			0.011		0.424							0.19	34.8		0.28			58.7
CZN-4 Cert				0.0715	0.0356			0.0094		0.403							0.1861	33.07		0.295			55.07
W 106 Meas																						2.11	
W 106 Cert																						2.16	
OREAS 922 (Peroxide Fusion) Meas				7.57			0.47	0.003	< 0.01	0.223	5.66	2.6	< 0.01	1.58	0.09	< 0.005	< 0.01	0.37		31.0	0.43		0.02
OREAS 922 (Peroxide Fusion) Cert				7.59			0.49	0.002	0.009	0.222	5.71	2.60	0.003	1.61	0.09	0.004	0.006	0.389		30.51	0.439		0.03
CCU-1e Meas				0.13	0.10	İ 👘	l	0.031	İ 👘	21.8	31.8		İ	0.74	< 0.01		0.70	35.5	< 0.01				3.02
CCU-1e Cert			İ	0.139	0.101	İ	l	0.0301	İ	22.9	30.7		l	0.706	0.00960		0.703	35.3	0.0104				3.02
CDN-PGMS-27 Meas	4850	2080	1320																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				

QC

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#### Report: A19-13611

Analyte Symbol	Au	Pd	Pt	Al	As	Be	Ca	Co	Cr	Cu	Fe	К	Li	Mg	Mn	Ni	Pb	S	Sb	Si	Ti	W	Zn
Unit Symbol	ppb	ppb	ppb	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Lower Limit	2	5	5	0.01	0.01	0.001	0.01	0.002	0.01	0.005	0.05	0.1	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.01	0.005	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2
677310 Orig	< 2	< 5	8	2.15	< 0.01	< 0.001	3.19	0.011	0.15	< 0.005	8.51	< 0.1	< 0.01	17.9	0.10	0.105	< 0.01	< 0.01	< 0.01	20.1	0.10	< 0.005	< 0.01
677310 Dup	< 2	< 5	6	2.15	< 0.01	< 0.001	3.17	0.011	0.15	< 0.005	8.56	< 0.1	< 0.01	17.9	0.10	0.104	< 0.01	< 0.01	< 0.01	19.8	0.11	< 0.005	< 0.01
677320 Orig	< 2	< 5	41	2.16	< 0.01	< 0.001	3.28	0.010	3.88	< 0.005	7.64	< 0.1	< 0.01	15.8	0.17	0.088	< 0.01	< 0.01	0.01	16.7	0.09	< 0.005	0.01
677320 Dup	< 2	< 5	36	2.16	< 0.01	< 0.001	3.30	0.010	3.91	< 0.005	7.64	< 0.1	< 0.01	16.0	0.17	0.088	< 0.01	< 0.01	0.01	16.9	0.09	< 0.005	0.01
677328 Orig									17.9														
677328 Dup									18.3														
677330 Orig	< 2	< 5	< 5	2.62	< 0.01	< 0.001	1.47	0.012		< 0.005	9.35	< 0.1	< 0.01	16.6	0.23	0.084	< 0.01	< 0.01	0.02	15.9	0.11	< 0.005	0.02
677330 Dup	< 2	< 5	9	2.60	< 0.01	< 0.001	1.48	0.012		< 0.005	9.31	< 0.1	< 0.01	16.7	0.23	0.085	< 0.01	< 0.01	0.02	16.0	0.11	< 0.005	0.02
Method Blank				< 0.01	< 0.01	< 0.001	< 0.01	< 0.002	< 0.01	< 0.005	< 0.05	< 0.1	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.005	< 0.01
Method Blank				< 0.01	< 0.01	< 0.001	< 0.01	< 0.002	< 0.01	< 0.005	< 0.05	< 0.1	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank									< 0.01														

52104A224	52104A225	52104A226	52104A227	52104A228	52104A229	52104A230	52104A231	52104A232	52104A233	52104A234	52104A235	52104A 236	52104A237	52104A238	52104A239	52104A240	52103D221	5203D222	52103D223	5203D 224	52103 0225	5203D 226	52103 D227	52103 D228	52103D229	0 5203D230	-52103D 231	52103D232 Zone 16	52103D233	5203D234	5203D 235	5203D236 Zo 325	52103D237 one 16 33000 E
52104A244	52104A245 Zone 16	52104A246	52104A247	52/04A248	52104A249	52104A250 Zone 16 316000E	52104A251	52104A252 Zone 16 317000E	52104A253	52104A254 2008-16 318000 E 5545000 N	52104A255	52104A2582ne 3190 55450	16 <b>5204A257</b> 00E 00N	52104A258	Zone <mark>5 <sup>12</sup>04A259</mark> 32090002 545000 N	52104A260	Zone 16 35210000241 5545000N	5203D242	Zone 16 52/03/22000E 52/03/2000 N	52103D244	20ne 3 2300 52103 [2346:00	16 0E 0N 5210310 246	52/03D247	cne-16 24000 E 450000 9203 D248	52103D249	325000E 5545000M 5203D250	52103D 251	326000E 5545000N 5203D252	52103 D 253	5545000 52103 D254	5203D255	5203D256	52103 D 257
52104A264	3140001 5545000 52104A265	52104A266	52104A267 52 04/	5000N 52104A268 A	52D4A269	5545000 N 52104A270	52104A271	52104A272	52104A273 AREA	52104A274	52104A275	52104A276	52104A277	52104A278	52104A279	52104A280	52103 D261	52030.262	52103D263 52103D	52103D 264	52103D265	5203D266	52103 D267	52103 D268	52103 D269	52103 D270	52103D 271	52103D272	52103 D 273 52103 D	52/03/0274 MAGO	5203D275	5203D276	5203D277
52104A284	52104A285	52104A286	52104A287	52104A288	5204A289	52104A290	52104A291	52104A292	52104A293	52104A294	52104A295	52104A296	52104A297	52104A298	5204A299 Zone 16 3 20000E	52104A300	5 <u>2193</u> D291 321000E	52103D 282	5210976909316 3220900E 55440001	5203D 294	52103D28530	16 00 E <b>52103 D 286</b> 00 N	52103D287	Zone 16 24099503D288 544000N	440 52103 D289	Zone 16 325000 E 5(52)(08)00	52103D 291	Zone 16 325000E 5203113999N		Zone 1 327000 554400 521030294	6 (E <u>0 N 52103 D 295</u>	233 55 5203D296	ione 16 23000 E 544000 N 52103 D 297
	Zone 314000 554400 52104A305	16 0 E <u>0 N</u> 52104A306	27 31 55 52104A307	cne 16 1 5000 E 4 4000 N 5 210 4 A 308	52104A309	Zone 16 316000E 5544000N %2 52104A310	52104A311	Zone 16 317000E 5544000N 52104A312	52104A313	52104A314	52104A315	319 554 52104A316	000E 1000N 52104A317	52I04A318	5544000N 52104A319	52104A320	52103 D301	52030302	52103D303	52103D304	52103D305	52103D306	52103D307	52103 D308	52103D309	52103D310	5203D311	52p3D312	5203D313	52/03D814	5203D315	52103 D316	52103D317
52104A304	521044305	52104A306	52104A307	52104A308	52104A309	52104A310	521044311	52104A312	52104A313	52104A314	52104A315	52104A316	52104A317	52104A318	52104A319	52104A320	\$2103 D301	52030302	52103D303	5203D304	521030305	52103 D 306	52103D307	52103 D308	52103 D309	52103D310	52103 E311	5203D312	52103D313	52103D314 Zone 32700	5203D315	52103 D316	5203D317 Zone 16 328000 E
52104A324	52104A325	52104A326	52104A327	20ne 16 315000 E	52104A329	52104A330 20ne 16 316000E	52104A331	52104A332 Zone 16 317000E 5543000N	52/04/4333	52104(A334 Zane 1 319000 554300	52104A335	52104A336 Z: 31 55-	5204A337 the 16 9000E 13000N	52104A338	5204A339 Zone 16 330000E 5543000N	52104A340	52103 D3 21 Zone 16 3 21000 E 5543000 N	5203D322	52103 D3 23 2000 1 322000 5543000	52103D324 E NN	52103 D3 25 <sub>20</sub> 3 23 5543	e 16 <b>52103 D326</b> 000 E 3000 N	52103 D3 27	250 <b>62163 D3 28</b> 324000 E 5543000 N	52103 D3 29	\$2\$3;5320 5543000N	52l03D331	52103E2920E	52103 D333	52103 0099430	<u>101,52103D335</u>	5203D336	52030337
52104 <u>A344</u>	3140 5204A3555130	00E 00015204A346	52104A347 52104	543000 N 52104A348 A	52104A349	52104A350	52104A351	52104A352	52104A353 460	52104A354	82104A355	52104A356	52104A357	52104A358	52104A359	52104A360	52103 0341	5203D342	52103D343 52103D	52103D344	52103D345	52103D346	52103D347	52103 D348	52103 D349	52103 D3 50	52103D351	52103 D3 52	52103 D353 52103 D	52/03D354	5203D355	5203 D3 56	5203D357
52104A364	52104A355	52104A366	52104A367	52104A368	52104A369	52104A370	52104A371	52104A372	52104A373	52104A374	52104A375	52104A376	52104A377	52104.4378	52104A379	52104A380	52103D361 Zone 16 321009E	5203D362	52103 D363 Zone 3 2200	5203D364	52103D365 Z: 32 55	52103 D366 the 16 3000 E 12000 N	52103 D367	52103.D368 Zone 16 324000 E 5542000 N	52103D369	52030270 325000E 5542000N	52103D371	52103 63792 16 3 25000 E 55420001	52103 D373	52103 D37 4 270 5542	# 16 100[ <b>52103D375</b> 000N	52103 D376	Zone 16 362930377 5542000N
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52H131004	52H131005	52H131006	52H131007	52H131008	52H131009	52H13I010	52H131011	52H13I012	52H131013	52H13I014	52H131015	52H131016	52H131017	52H13I018	52H131019	52H131020	52H14L001	52H14L002	52H14L003	52H14L004	52H14L005	52H14L006	52H14L007	52H14L008	52H14L009	52H14L010	52H14LD11	52H14L012 Zone 1/ 325000	52H14L013	52H14L014	ne 52H14L015 7000 E	52H14L016	52%141.017 328000E 5541000N
52H13I024	52H131025 Z: 31	one <b>52H1310.26</b> 4000 E	52H131027	Z3100000028	52H131029	Zone 16 52H690038 5541000N	52H131031	52H13105	52H131033	Zon 3180 52H131035541	e 16 100E 000E2H131035	52H131036	Zone 16 319000E 55410001 52413037	52H131038	Zone 16 3 20000 E 5541000 N 52H13 D39	52H13I040	Zone 16 321000E 55410001 52H14L021	52H14L022	Zone 3220 55410 52H14L0 23	9 16 00 E 000 N 52H14L024	52H14L025	23000 E 341000 N 52H14L0 26	52H14L027	324000 E 5541000N 52H14L028	52H14L029	52H14L030	52H14L031	5541000 52H14_032	52H14L033	52H14L034	52H14L035	52H14L036	52H14L037
52H13I044	52H13I045	52H13D46	52H131047	52H13I048	52H131049	52H13I050	52H131051	52H131052	52H131053	52H131054	52H131055	52H131056	52H131057	52H131058	52H131059	52H131060	52H14L041	52H14L042	52H14L043	52H14L044	52H14L045	52H14L046	52H14L047	52H14L048	52H14L049	52H14L050	52H14L051	52H144052	52H14L053	52H14L054	52H14L055	52H14L056	\$2H14L057
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52H131004	33	20113000 Zone 16 114000E 540000N	32H131007	2011 3000 2010 10 31 5000 E 5540000 N		316000E 5540000N		554000		554	400,		55406004,011	321131076	380-	22131080			5211-1005	52H14L064	52H14L065	52H14L066	52H14L067	32114000	52H14L009		Jami Hum	521146072	52114073	52H140/4	32HI4W/3	32114L0/0	
52H13I084	52H131085	52H131086	52H131087	52H131088	52H131089	52H13I090	52H13I091	52H13 092	52H131093	52H13I094	52H131095	52H13I096	52H131097	52H131098	52H131099	52H13I100	52H14L081	52H14L082	52H14L083	289661 52H14L084	328865 52H14L085	270180 52H14L086 Zone 16	195573 52H14L0875	52H14L088 alp Creek Rd	52H14L089	52H 4L090 Zone 16 325000E	52H14L091	52H14L092	52H14L093	52H14L094	52H14L095 Zone 16 327000E 539000N	52H14L096	52H14L097
516163 52H131104	516136 52H131105	52H13H06 Zane 16 314000E 539000N	52H131107	52H13I108 Zone 16 315000 E 5539000 N	52H131109	52H13H10 Zone-16 316000E 5539000P	52H13H11	52H13/112 Zone 3170( 55390	52H13I113	52H13I114 2 3 55	5ne <b>548954</b> 80000N 89000N	280709 52H13I116	548972 A 3116103PAT	548955 -16102PAT-16 -52H131118	521131119 031 PA1-1603	52H13I120 5 PA T-1 603	52H14L201e 2 68 432400 PAT-16037	00E 00N 52H14L102	2 52 8 8 455 52H14L103	52H14L104	262223 52H14L105	323000E 5539008 328866 52H14L106	282278 52H14L107	5539000N 52H14L108	52H14L109	52H14L110	52H14L111	52H14L112	52H14L113	52H14L114	52H14L115	52H14L116	52H14L117
<b>516172</b> 52H13I124	<b>516157</b> 52H131125	52H131126	52H131127	52H13I128	52H131129	52H13I130	<b>134828</b> 52H13I131	<b>1062 44</b> 52H131132	<b>341568</b> 52H131133	<b>199015</b> 52H131134	PAT-1610 132895 52H13I135	4 164572 52H13I136	52H13137 178104 PAT-1	52H13I138 603 0PAT-1 602	52-1131139	52H13I140 2 PA T-1 603	52H14L121 279745 3 PAT-16034	<b>261066</b> 52H14L122	<b>134085</b> 52H14L123	<b>233023</b> 52H14L124	380 341225 52H14L125	<b>262224</b> 52H14L126	<b>179678</b> 52H14L127	52H14L128	52H14L129	52H14L130	52H14L131	52H14L132	52H14L133	52H14L134	52H14L135	52H14L136	52H14L137
<b>516162</b> 52H13I144	<b>516156</b> 52H131145	52H131146	52H13I147	52H13I148	52H131149	52H13I150	<b>234610</b> 52H13I151	302 81 7 52H1311 52 200	234609	<b>1062 45</b> 52H131154	52H13I155 300852 25ng \$9295 18000E	52H13I156 299299 121380	52H13I157 301445 31966298 5538000N	282629 52H131158	180244716 52H320000	341571 52H13I160	PAT 164485 3210 52H14L 53380	P/ 16038 10 000 106043 000 152H14L142	AT-16039 281892 52H14L143 5	Zane 16 822000 <b>IZ 932 0</b> 538069981 4L144	52H14L145	Zone 16 3520994E146 5538000N	52H14L147	Zone 16 324000E 5245830#9	52H14L149	2 ne 1 32 k000 52 H14 L 7 32 000	6 E UN 52H14L151	52H14L152	524141153	52H14L154	327000E 5538000N 52H14L155	52H14L156	52H14L157
516155 52H131164	<b>516164</b> 52H131165	Zene 16 314000 E 5538000 N 52H131166	52H13I167	315000E 5538000N 52H13I168	52H131169	5538000 52H13I170	302818 52H13I171	282 62 7 52H131172	134829 52H13I173	186805 52H13I174	52H13I175 252204 106594	52H13I176 244757 289296	52H13I177 120740 178013	290692 52H131178	180062 52H131179	180061 52H13I180	<b>340354</b> 52H14L161	166580 52H14L162	<b>179321</b> 52H14L163	149533 52H14L164	52H14L165	52H14L166	52H14L167	52414L168	52H14L169	52H14_170	52H14L171	52H14L172	52H14L173	52H14L174	52H14L175	62H14L176	300 52H14L177
516161	516149	52H131186	52H131187	52H13I188	52H131189	52H13I190	319502	302819	186806	234611	339676	178105	184717	233274	106762	134850	302837	<sup>3</sup> 40 52H14L182 ne 10	52H14L183	Zcn52+194L184	52H14L185	52947#419.86 323000 E	52H14L187	52H144488	52H14L189	Z:ne 52H14L \$96500 553700	16 9E 52H14L191	52H14L192	52H14L193	52H14L194	Zone 16 327000E 55370940195	52H14L196	52H14E197
520304	521113183	Zone 16 314000E 5537000N 52H13I206	52H131207	250e 16 31 5000 E 5537000 N 52H131208	52H13I209	2000 3 1600 553700 52H13 210	10 00E 00N 52H131211	52H13I31 52H13I31 553 52H13I21 2	52H13H55 7000E 37000N 52H13I213	52H131214	Zone 16 319000E 5537000N 301526	121453	121452	22 52 69	3 200001 553 20000 3 40/2 60	52H131250	52H14L201	1000E 7000 N 52H14L20 2	52H14L203	5537000N	52H14L205	52H14L206	2H14L 52H14L207	52H14L208	52H14L209	52H14L210	52H14L211	52H14L212	52H14L213	52H14L214	52H14L	52H14L216	52H14L217
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520310 52H13I244	52H131245	3143312F16	52H131247	52+5334901	52H13I249	52H13I250	000 N 52H131251	52H131252	52H13I253	52H131254	52H131255	52H131256	52H13I257	52H131258	52H131259	52H131260	52H14L24	52H14L242	52H14L243	52H14L244	52H14L245	52H14L246	52H14L247	52H14L248	52H14L249	52H14L250	52H14L251	52H14L252	52H14L253	52H14L254	52H14L255	52H14L256	52H14L257
<b>52 0313</b> 52H131264	<b>503963</b> 52H131265	<b>503964</b> 52H13I266	52H131267	52H131268	80-52H131269	52H13I270	52H131271	52H131272	52H131273	380 52H131274	52H13I275	52H131276	52H13I277	52H131278	52H13 279	252H131280 3 40	52H14L261	52H14L262 Zone 16 321000E	52H14L263	52H14L264	52H14L265	52H14L266 Zone 16 323000 E 553 5000 N	52H14L267	52H14L268 Zone 1 324000 5535000	52H14L269	52H14L270 22-6 325 553	52H14L271 19 16 000E 2000E	52H14L272	52H14L273	52H14L274	52%%+41.975 327000E 5535000H	52H14L276	52H14L277
52 031 6 52H131284	503 965 52H131285	5,73,9,6 P 5853,9,68 P	503 967 52H131287	Zone 1 503 98900 52H15135900	52H131289	52H13I29316 52H13I29316	ne 16 5000 <b>52113 1291</b>	52H131292	Zone 16 317000E 5535696(1)81293	524131204	20ne 16 3 13000 E 5:3:5000 E 5:2:51000 E 5:2:1131295	52H131296	319000 E 553 5000 N 52H131297	52H131298	55350 52H13I299	00N52H13I300	52H14L281	52H14L282	52H14L283	52H14L284	52H14L285	52H14L286	52H14L287	52H14L288	52H14L289	52H14L290	52H14L291	52H14L292	52H14L293	52H14L294	52H14L295	52H14L296	52H14L297
52H13I304	52H13I305	52H13B06	<b>503969</b> 52H131307	<b>503 970</b> 52H13 1308	<b>503 971</b> 52H13 1309	<b>503 972</b> 52H13I310	<b>541796</b> 52H13I311	<b>541801</b> 52H13I312	<b>541802</b> 52H13B13	<b>541799</b> 52H13I314	<b>541797</b> 52H13B15	52H13I316	52H13B17	52H13I318	52H13B19	52H131320	52H14L301	52H14L302	52H14L303	52H14L304	52H14L3050	52H14L306	52H14E307	52H14L308	52H14L309	52H14L310	52H14L311OE	onethautiter	T057H14L313	52H14L314	52H14L315 Zone 16 327000E	52H14L316	52H14L317
52H13I324	52H131325	52H13B26 2005 10 314000E	0 52H13I327	52H131229he 31500	16 <b>503 973</b> 0E 52H13B29	<b>503 974</b> Z 52H13I33055	cne 1§ <b>41800</b> 1≰000 <b>±</b> 418 <b>00</b> 340082H13B31	541798 52H13J332	Zone 16 3175400 <b>8004</b> 553490934333	541803 5211131334	Zane 16 3193005 55170071 521131335	52H131330	Zone 16 3,90004 52H 33337000	N 52H131338	Zon 3201 52H131355	e to 100 E 1000 H2H131340	52H14L321	Zone 16 321000E 5534000N 52H14L322	52H14L323	Zone 16 322000E 5534000N 52H14L324	52H14L325	200e 10 323000E 5534000N 52H14L326	52H14L327	52400 553400 52H14L328	52H14L329	52H14L330	52H14L331	52H14L332	52H14L333	52H14L334	52H14L335	52H14L336	52H14L337
52H13I344	52H131345	5534000N 52H13B46	52H13I347	52H13I348	541808	541806	541807	52H13I352	52H13B53	52H13I354	52H131355	52H13I356	52H131357	52H13I358	52H131359	52H13I360	52H14L341	52H14L342	52H14L343	52H14L344	52H14L345	52H14L346	52H14L347	52H14L348	52H14L349	52H14L350	52H14L351	52H14L352	52H14L353	52H14L354	52H14L355	52H14L356	52H14L357
52H131364	52H13I365	52H13B66	52H13I367	52H13I\$68	52H131349	52H13I370	52H13B371	52H13I372	52418373	52H131374	52141318712	52H131376	Zone 1	16 7F 52H13I378	52H13B7932	ne 16 000052H13I380	52H14L361	Zone 16 321000E 553 <b>\$21004L362</b>	52H14L363	Zone 16 322000E 521111000	52H14L365	Zone 10 320000 5533000 52H14L366	52H14L367	2cm 3 240 52H14L368	16 00 E M9951 52H14L369	52H14L370	2000 16 25000 E 33000 N 52H14L371	52H14L372	52H14L373		Zone 16 322000F 5533000N 52H14L375	52H14L376	52H14L377
Zone 16 313000E 5583000N	1_	Zine 16 314000E 5583000N		2506 3150 55330	= 16 00E 000N		Zone 16 316000E 533000N	5	317000E 6533000N	200	318000E 5533000N	~5	558300	AN S	28		P	P}		380					E P	10						5	6
52H13I384	52H131385	52H13B86	52H131387	52H131388	517188 52H131389	517187 52H13I390	52H13I391	52H13I392	52H13B93	52H13I394	52H131395	52H13I396	524133397	52H131398	52H131399	52H181400	52H14L381	52H14L382	52H14L383	52H14L384	52H14L385	Zcne	52H14L387	52H14L388	52H14L389	52H14L390	Zane 16 32400E	52H14L392	52H14L393	52H14L394	22H14L395 Zone 16. 327000E 5532000	52H14L396	92H14L397
52H13H004	52H13H005	52H13H006	52H13H007	52H13H008 Zor 315 553	52H13H009	52H13H010	52H13H011 Zine 16 316000E 5532000N	52H13H012	52H13H013 Zone 16 317000E 5532000N	52H13H014	52H13H015 Zone 16 318000 E 5532000 N	52H13H016	52H13H012 ne 31900 55320	10-52H13H018 00E 00N	52H13H019 3 355	0:52113H020 2000E 2000N	52H14E001	553,2000 N	52H14E003	52/3140004	52H14E005	52H14E096	52H14E007	52H14E00	5014E009	52H14E010	52H14E011	52H14E012	52H14E013	52H14E014	52H14E015	52H14E016	52H14ED17
52H13H024	52H13H025	52H13H026	521131027	52H13H028	52H13H029	52H13H030	52H13H031	52H13H032	521131033	52H13H034	52H13H035	52H13H036	52H13H037	52H13H038	52H13H039	52H13H040	52H14E021	52H14E022	52H14E023	52H14E024	52H14E025	52H14E026	52H14E027 2H14E	52H14E028	52H14E0 29	52H14E030	52H14E031	52H14E032	Western 52141(4E033	52H14E034	52H14E035	52H14E036	52H14ED37
52H13H044	52H13H045	52H13H046	52H13H047	52H13H048	52H13H049	52H13H050	52H13H051	52H13H052	52H13H053	52H13H054	52H13H055	52H13H056	52H13HC 57 Z2m 3190	52H13H058	521131059	52H13H060 2ne 16 20000E 81000N	52H14E041	52H14E042 321000E 5531000N	52H14E043	52H1438440 322000E 5531000N	52H14E045	52H14E072500 55310	16 6 52H14E047	52H14E048	na 18 10 <b>89114E049</b> 100011	52H14E050	Zone 16 325000 5580438605051	52H14E052	Zme 16 325000E 52910(20133	52H14E051	2016 16 823000 E 52111 E055	N 52H14E056	52H14ED57
Zone 16 313000 E 5531000 N 521113 H004	52H13H065	Zone 1 31.400 553100 52H13H066	52H13H067	52H13H068	52H13H069	52H13H070	316000E 5531000N 52H13H071	52H13H072	5531000N 52H13H073	52H13H074	52H13H075	52H13H076	52H13H077	52H13H078	52H13H079	52H13H080	52H14E061	52H14E062	52H14E063	52H14E064	52H14E065	52H14E066	52H14E067	52H14E068	52H14E069	52H14E070	52H14E071	52H14E072	52H14E073	52H14E074	52H14E075	52H14E076	52H14E077



Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources.

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Mining Lands Claim Man	one to	- 2	THE LAKE P	Zone 1
Mining Lando Claim Map	52103D297	52103 D296	52103D295	327000 5544000 - 5210310294
	52103D317	52103 D316	5210310315	52103D314
	52103D317 Zone 16	52103D316	52103D315	52103D814 Zone
Administra	52680337	52030336 55	N52103D335	52103 D3994300
Aurimisua	*	A	0}	
Townshin	52103D357	52103 D3 56	5203D355	52030354
		EA	TTE LAKE A	MAGG
Unknown	Zone 16 3 629/30/377 5542000N	52103 D376	5203D375	52103 D37 \$ 270
Mining Division	-	2	ON	00
	52103D397	5203 D396	52103D395	52103 D394
		2	2	201
Land Registry	524641017	521141016	524141.015	524141014
Unknown	328000E 5544000N	400-	10E 00N	327 554
MNRE District Office				T
	52H14L037	52H14L036	52H14L035	52H14L034
I nunder Bay	201	5		52
	52H14L057 ZE03 16 328000 E	52H14L056	52H14L055 e 16	52H14L054
	5540000N		000E	65
	52H14L077	52H14L076	52H14L075	52H14L074
Topographic	15			
Building as Symbol	52H14L097	52H14L096	52H14L095	52H14L094
Runway Heliport \ Hospital Heliport			ne 16 7000E	
Seaplane Base Ferry Route	52H14L117	52H14L116	52H14L115	52H14L114
Trail Head \ Trail Railway \ Train Station				-1
Railway with Bridge	52-1141 137	52H14L136	52H14I 135	524141134
Road (Major → Minor) Winter Road	021141137	211141130	SEITI4E135	J. J. J. J. J. J. J. J. J. J. J. J. J. J
Road with Tunnel			bne 16	JA



Map Datum: NAD 83



Date / Time of Issue: Tue Oct 15, 22:44:24 EST 2019

## inistry of Northern Development and Mines

## Administrative Districts



## Scale: 1:20,000

4.00 km

# Projection: Web Mercator



Map 2. B-Zone, Chrome Property Patented Claims TB10827, TB10828, TB10835, TB10836 G-0100, Obonga Lake area, Thunder Bay Mining Division NTS 52H 14 - Gull Bay Datum NAD83, UTM Zone 16U Mag declination 3° 53' W For: Pavey Ark Minerals Inc., Client 41165 Prepared By: R. H. Sutcliffe, P.Geo. October 16, 2019

Legend	
2a Sepentinite	Cr – chromite
2b Dunite (relict olivine cumulate texture)	Baseline — — — —
2c Serpentinite with chromite	Picket
Geological Contact — — — —	Sample Number 677301
Foliation $\longleftrightarrow$	Channel/chip sample 🛛 🧳
	Outcrop
Trench	Pit

