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Technical Report for MNDM Assessment,

Element 79 Inc. Dale Gold Property

Thunder Bay Mining Division, Northwestern Ontario

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Fladgate Exploration Consulting Corporation

Date: February 24, 2022

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2 Introduction

This report details a gold exploration program on Element79's Dale Property. This program consisted of bedrock trenching and soil sampling. It was designed to follow up on several prospecting samples taken by the vendor of the Dale Property, which indicated the presence of elevated gold up to 4 g/t. It was completed over several weeks in the fall of 2021.

3 Property Description, Location, Accessability

The Dale Property is located approximately 100 km southwest of Timmins, Ontario (Figure 3-1), in the Porcupine Mining District, Dale Township. The claims are centered over the southern arm of Horwood Lake towards the south boundary of Dale Township. Access to all sides of the property is gained by a series of logging roads that can be entered from Highways 101, 144 and 129. Access to the north from Highway 101 traveling south onto the Kukatush forest road to the east part of the Property which also accesses a boat landing for the north part of Horwood Lake. The Property can be accessed year-round by air using a float plane with skis or a combination of trucks, boat, all-terrain vehicle or snow machine.

The geographic coordinates of the main mineral occurrence within the Property, are 47° 54′ 21″ North latitude by 82° 18′ 57″ West longitude, or UTM NAD83 Zone 17 T 5306600 m North by 401600 m East.





Figure 3-1 – Provincial location map



The Property is easily accessed by driving along Hwy 101 West from Timmins for approximately 90 km, then turning south onto Foleyete Timber Access Road. From the Foleyete Road, major access points include Sultan Road to Dore Forest Haul Road north to the west part of the property and the Kukatush Forest Haul Road to access the east part of the property. Water access is best gained utilizing landings on the north part of Horwood Lake (Figure 3-2).

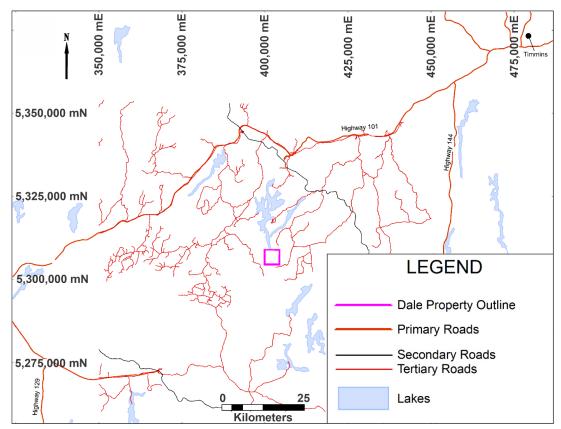


Figure 3-2 – Dale regional location map

These forest access roads and the landing allow for access to portions of the property, however a network of additional seasonal and temporary logging roads would permit easy access to other areas of the site by ATV in the summer and winter access via snowmobile (Figure 3-3).

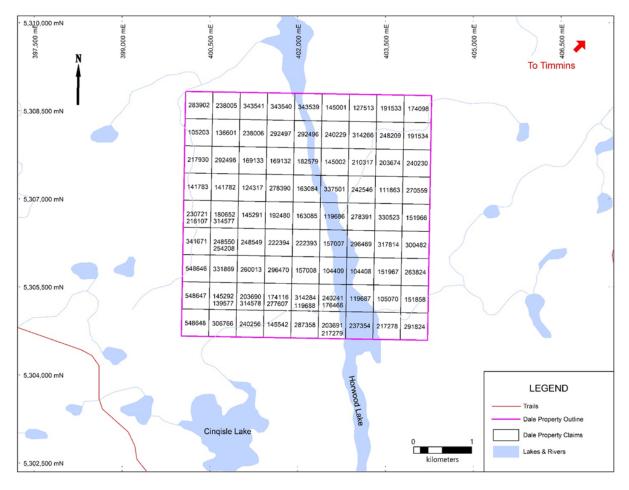


Figure 3-3 - Element 79 Dale claim map

4 Geological Setting

4.1 Regional Geology

The Dale Property lies within the Swayze greenstone belt ("SGB"). The SGB is a late Archean greenstone belt in northern Ontario, Canada. It is the southwestern extension of the Abitibi greenstone belt. The Abitibi greenstone belt is a 2,800-to-2,600-million-year-old greenstone belt that spans across the Ontario–Quebec border in Canada. It is mostly made of volcanic rocks, but also includes ultramafic rocks, mafic intrusions, granitoid rocks, and early and middle Precambrian sediments.



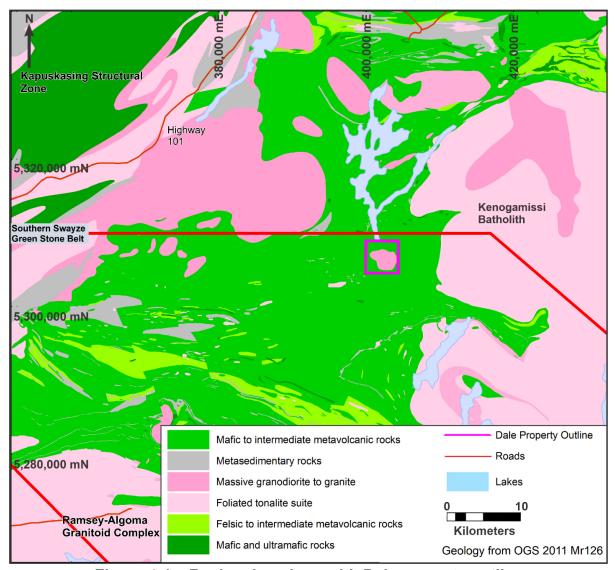


Figure 4-1 – Regional geology with Dale property outline

The SGB is dominated by granite-greenstones and contains metavolcanics of komatiitic, tholeiitic, and calc-alkaline composition, turbidite-dominated assemblages, and alkalic metavolcanics. Intrusive units include granitoids, tonalite-trondhjemite-granodiorite batholiths, granodiorite intrusions, and syenite stocks (Jackson and Fyon, 1991). Fabric and structures within the Abitibi subprovince are generally parallel to regional faults, batholiths and assemblage boundaries (Jackson and Fyon, 1991).

The SGB is bordered to the north by the Nat River Granitoid Complex and the Kapuskasing Structural Zone, to the east by the Kenogamissi Batholith and to the south by the Ramsey Algoma Granitoid Complex (Figure 4-1).



The SGB contains intrusive and extrusive rocks of ultramafic to felsic composition and both chemical and clastic metasedimentary rocks, which together range from 2,739 to 2,695 Ma (Heather, 2001; van Breemen, Heather and Ayer, 2006). Recent work (Ayer, Ketchum and Trowell, 2002) indicates the presence of alkalic volcanic rocks of age 2670±2 Ma in Swayze Township along an east-trending string of gold occurrences such as the Kenty and Rundle deposits. These volcanic rocks are temporally equivalent to the Timiskaming-type basins (2,676 to 2,670 Ma) found in the Abitibi greenstone belt, which are dominated by coarse clastic sedimentary rocks and minor alkalic metavolcanic rocks.

Two gold-rich fault systems, termed the "Rundle high-strain zone" and the "Ridout high-strain zone" (Heather, 2001), extend across the central and southern portions of the SGB, respectively, and both have been proposed as the possible westward extensions of the Larder–Cadillac deformation zone (Atkinson, 2013).

4.2 Local Geology

The Dale Property includes the area surrounding the southern arm of Horwood Lake in the north-central part of Dale Township. Mafic volcanics surround the roughly circular, 2,500 m diameter, 2680 Ma, granodioritic stock known as the Dale Stock which has been the focus of exploration (Gaudreau, 2017) (Figure 4-2). A detailed map of the Horwood Lake and surrounding area including the Dale stock was created by Heather et al. (1995). The stock is described in the Induced Polarization Report (Gaudreau, 2017) as a multi-phased hornblende granodiorite to porphyritic-granodiorite with a potassium feldspar megacrystic core and a massive, equigranular margin. Both phases are hematitic and contain hornblendic enclaves.

Mineralization targeted on the property has been primarily Archean lode-gold, quartz vein type mineralization associated with sheared, carbonatized and mineralized wall rock and some brecciation with very little observed sulphide alteration associated. Epidote has been observed in many locations in the Dale Stock however is never present in the mineralized discovery zones



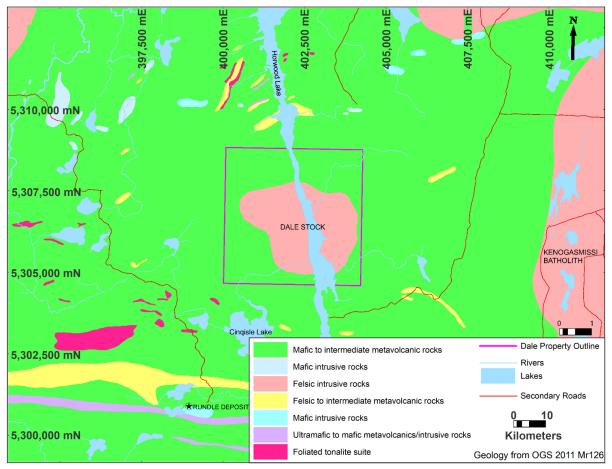


Figure 4-2 – Dale property scale geology

5 Current Work Program

From September 16 to October 22 (excluding October 1 -12) bedrock trenching and soil sampling was completed on the Dale property under Exploration Permit PR-10-000127. A total of 83 rock samples and 49 soil samples were taken. The first portion of the program (September 16-30th) was based out of Foleyete, Ontario. During the first three days Fladgate staff worked with Marc Goudreau (one of the vendors) to assess the property and identify locations to be excavated. It was decided that five locations would be cleared and sampled. On September 27th T Bell Transportation Ltd. Arrived with a 200 Komatsu excavator. Over the Next 4 days, 5 trenches were cleared on 5 different claims; 141783, 314577, 222394, 230721, 341671. The second part of the program (October 13-22) was based out of Timmins, Ontario and included washing and channel sampling of the exposed trenches.



Name	Working Title	Responsibilities	From/To Dates on Project
Ryan Hrkac	Project Geologist	Trench layout and mapping	16-Sep-2021 to 30-Sep-2021 and 13-Oct-2021 to 22-Oct-2021
Joel Cordes	Geotechnician	Channel cutting, soil sampling	16-Sep-2021 to 30-Sep-2021 and 13-Oct-2021 to 22-Oct-2021
Marc Goudreau	Prospector	Property Orientation	16-Sep-2021 to 19-Sep-2021

5.1 Bedrock Trenching

From September 27th to September 30th 2021 a total of 5 trenches were excavated. Two were not washed and only chip sampled due to long pumping distances from the nearest water source, which made mapping difficult due to lack of clean rock exposure (Trench 3 and 5). A total of 83 channel/chip samples were taken. The excavator and float truck were provided by T. Bell Transportation inc. of Nairn Centre, Ontario. The excavator was in operation for a total of 4.5 days from September 27th - October 1st, 2021.

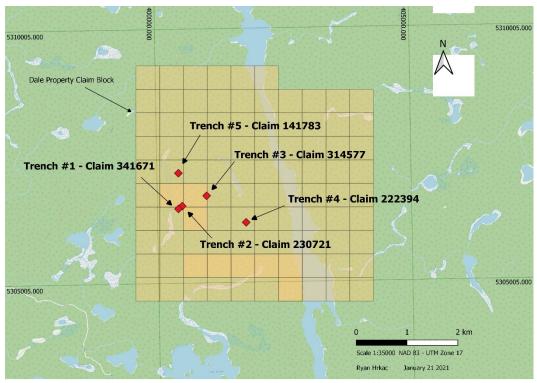


Figure 5-1 – 2021 trench locations on the Dale property





Figure 5-2 – Excavating trench #2



Figure 5-3 – Joel Cordes washing trench #2

5.1.1 Trench 1

Cleared on September 27th. This trenched area is near the western extent of the Dale Stock. It consists of hydrothermally altered medium grained porphyritic diorite intruded by a mafic magmatic breccia. These lithologies were cut by two east-west trending shear zones which were 1cm wide and approximately 3 m apart (Figure 5-4). Only trace fine grained sulfides were observed.

5.1.2 Trench 2 - "Quartz Vein Trench"

Cleared on September 28th. This trench is located approximately 75m north west of trench 1. The excavation is centered on a ~2-3 m wide sheared gabbroic dyke with enclaves of foliated metagranodiorite. This sheared gabbro unit was cut by several smoky quartz veins which were 5-30 cm in width. Within the gabbro unit was several small shears which displayed a higher level of ductile deformation, increased iron-carbonate alteration, and increased sulfide mineralization (py>py>cpy). The contact zone between sheared gabbro and Dale Stock diorite is clear and sharp, the adjacent wall rock (diorite) is undeformed (Figure 5-5 & Figure 5-6).



Neither mineralization or deformation penetrate into the host intrusion. Veining and deformation associated with this unit strike 270 to 280 degrees, vertical dip. A set of north-south striking, milky white, coarse grained quartz veins are present but are barren and unaltered.

5.1.3 Trench 3 - "4-grammer Trench"

Cleared on September 29th This trench was the location of the highest gold assay provided by the vendor (4g/t gold). It consists of unaltered Dale Stock cut by a sheared gabbroic dyke with enclaves of foliated metagranodiorite, similar to trench 2. The gabbroic unit is strongly sheared, highly fissile near the west end but more competent elsewhere. Mineralization correlates with iron-carbonate alteration which is quite strong in the middle area. The strongest mineralization and highest assay values come from an area with up to 5% sulfide mineralization, strong to very strong carbonate alteration, and visible copper oxide on several cleavage faces (this is the same spot the 4g/t sample was taken). The sheared gabbro unit is approximately 2m wide and does not penetrate into the massive dioritic country rock (Figure 5-7).

5.1.4 Trench 4 "Far East Trench"

Cleared on September 29th and September 30th. This trench is approximately 1 km east of trench #3 and is the furthest east of the five trenches. This trench is geologically most similar to trench 2. A 2-3 m wide gabbroic dyke cuts massive medium grained Dale Stock diorite, within the dyke are enclaves of foliated metagranodiortie. The gabbroic unit has sharp contacts, mineralization and alteration do not extend into country rock (Figure 5-8). Strong iron-carbonate alteration is present and is associated with sulfide mineralization (py>po>cpy). An east-west striking smoky quartz vein is located 2m north of the shear zone and carries elevated gold values.

5.1.5 Trench 5 "Far North Trench"

Cleared on September 30th. This trench is approximately 1km north of trench 2. The trench exposes the contact between foliated metagranodiorite of the Dale Stock and a highly strained metavolcanic unit (possibly a part of the "Rundle High Strain Zone"). Here, the dale stock diorite to granodiorite is vertically foliated with a strike of 275 degrees (Figure 5-9). Weak to moderate carbonate alteration is present but inconsistent, this outcrop was not cleaned due to long pumping distances from available water sources. Minor sulfide mineralization was observed but did not contain elevated gold levels.



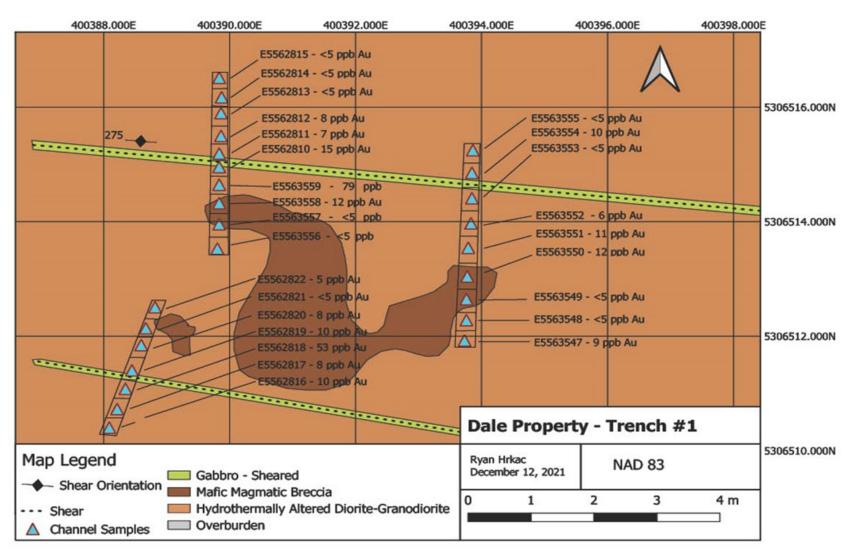


Figure 5-4 - Trench 1 sample locations and results



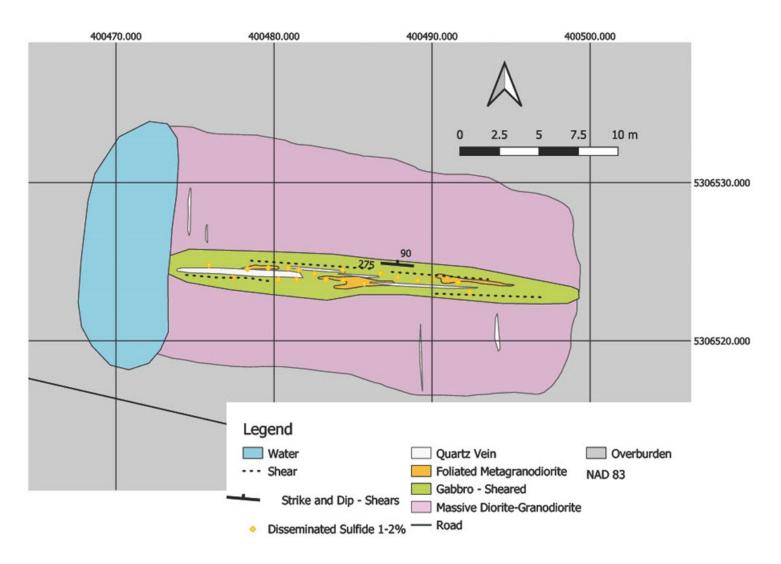


Figure 5-5 - Trench 2 overview



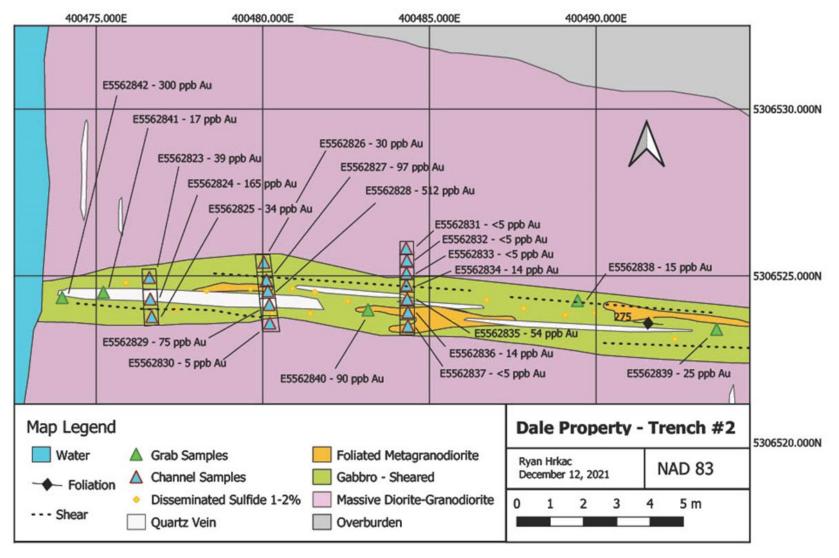


Figure 5-6 – Trench 2 sample locations and results



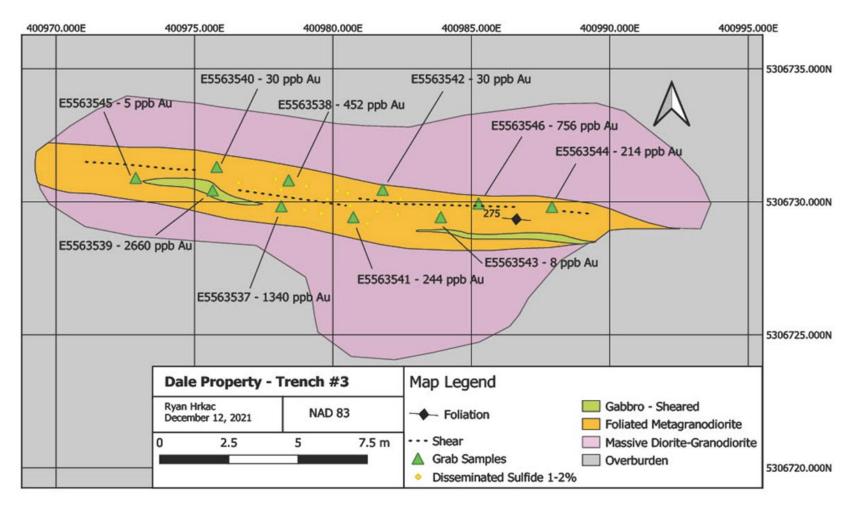


Figure 5-7 – Trench 3 sample locations and results



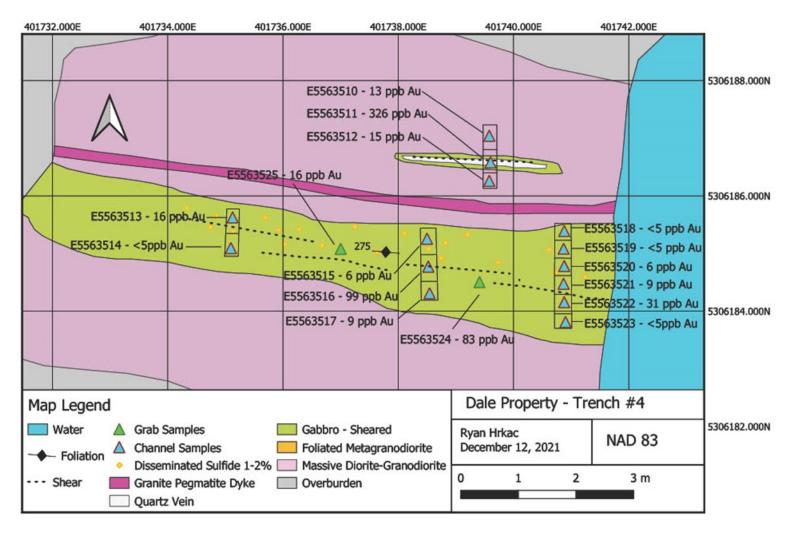


Figure 5-8 - Trench 4 sample locations and results



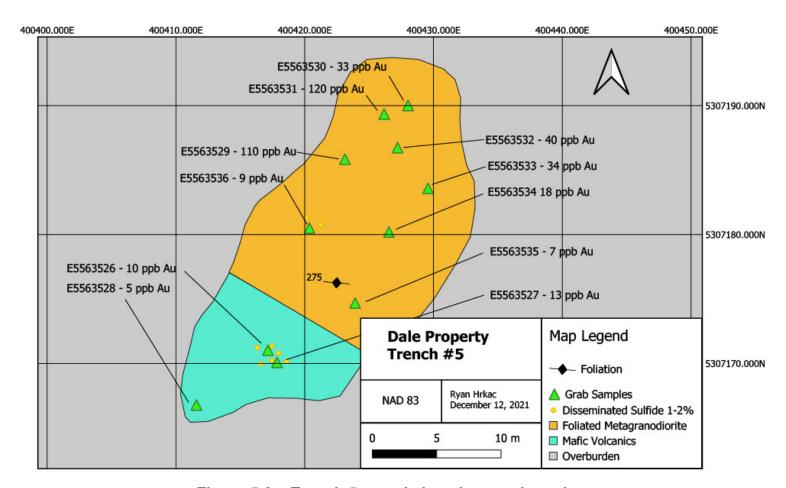


Figure 5-9 – Trench 5 sample locations and results



5.2 Soil Sampling

A total of 49 soil samples were taken. Most were taken in the area adjacent to trench 3. Samples E5562405-E5562409 were taken in the vicinity of trench 5. Sampling targeted the B-horizon, were taken using a soil auger then put in a paper kraft bag, a location was taken using a Garmin 64s GPS unit and flagging tape with the sample number was hung from a nearby branch.

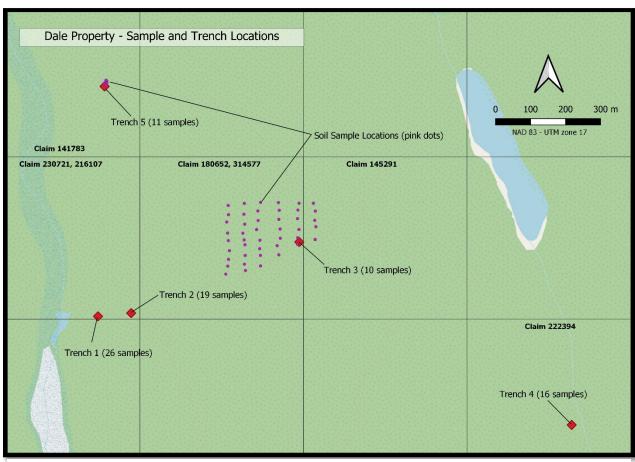


Figure 5-10 – Locations of soil samples in relation to trenches



Table 2 – Soil sample location and results

		mple location an	G 10001		D-4-	C 1 15	6-11
X	У			Description	Date	Sample ID	Gold ppb
	47.90621118	-82.32455242		b horizon, 15cm, spruce forest, dry	2021-09-24		< 5
	47.90654068	-82.32452527		30cm, b horizon, spruce forest, dry	2021-09-24		< 5
	47.90670442	-82.32456668		c horizonv, spruce forest, 30cm, dry	2021-09-24		17
	47.90694085	-82.32454353		b horizon, 25cm, dry, spruce foredt	2021-09-24		< 5
	47.90714335	-82.32461884		b hkrizon, 30cn, dry, spruce foreet	2021-09-24		< 5
	47.90714548	-82.32516434		bhorizon, 20 cm, dry, spruce forest	2021-09-24		< 5
	47.90696831	-82.32521147		b horizonv, 20cm, dry, spruce forest	2021-09-24		- 6
	47.9067477	-82.32522949		35cm, c horizon, dry, spruce forest	2021-09-24		- 6
	47.90646712	-82.32516808	420.711	49 cm, b, moist, spruce forest	2021-09-24		< 5
	47.90625807	-82.32521827		a horizkm, 30cm, spruce forest moist	2021-09-24	E5562669	17
	47.90608761	-82.32522734	411.511	a/b horizon, 40cm, spruce forest, dry	2021-09-24	E5562670	13
	47.90713938	-82.32725626	409.11	a/b horizon, mixedwood, flat, moist	2021-09-24	E5562395	< 5
	47.9070851	-82.32787495	411.11	grey, wet, 50cm, a horizon cedar swamp	2021-09-24	E5562396	7
	47.90684864	-82.32786478	340.01	a/b, 30cm, dry, hill, mixedwood	2021-09-24	E5562397	< 5
	47.90666262	-82.3279312	416.709	b horizon, 20cm, hill, dry, mixedwood	2021-09-24	E5562398	< !
	47.90637699	-82.32789788	412.609	A/b hoeizon, dry, 30cm, flat, micedwood	2021-09-24	E5562399	
	47.90618425	-82.32786931	414.809	a horizon, grey, damp, flat, 20cm	2021-09-24	E5562400	< !
	47.90592489	-82.32782997	416.609	b horizon, dry, flat, mixedwood, 25cm	2021-09-24	E5562401	7
	47.90570111	-82.32786395	410.609	a horizon, dry, flat, 35cm, grayish tan, m	2021-09-24	E5562402	(
	47.90552884	-82.32789102	425.409	25cm, b horizon, flat, dry, mixedwood	2021-09-24	E5562403	< !
	47.90532244	-82.32796806	417.009	30cm, damp, brown, a horizon mixedwo	2021-09-24	E5562404	16
	47.91012004	-82.33265872	421.005	B horizon, hill, dry, reddish brown	2021-10-22	E5562405	3
	47.91012004	-82.33265872	421.005	b horizon, hill, dry, orange	2021-10-22	E5562406	
	47.91012004	-82.33265872		b horizon, hill, dry, brown	2021-10-22	E5562407	2
	47.91012004	-82.33265872		B horizon, hill, dry, reddish brown	2021-10-22	E5562408	54
	47.91012004	-82.33265872		B horizon, hill, dry, reddish brown	2021-10-22		
	47.90581951	-82.32594218		a horizon, dry, mixed wood, 30cm	2021-10-17	E5562410	
	47.90605405	-82.32600282		b horizon, 20 cm, mixed wood, dry, flat	2021-10-17		< !
	47.90624296	-82.32588226		a/b horizon, 30cm, dry, mixedwood flat	2021-10-17		1:
	47.90648063	-82.32589135		b horizon, 35cm, dry, mixedwood slight	2021-10-17		(
	47.90673055	-82.32593894		a horizon, 20cm, grayish brown, dry, mix			
	47.90696197	-82.3259232		a/b , brownish orange, mixedwood, flat			< !
	47.90716764	-82.32600947		b, 30cm, dry, hill, micedwood	2021-10-17		
	47.90711426	-82.3265663		b, 20cm, hill, dry, micedwood	2021-10-17		-
	47.90687682	-82.32660619		40cm, moist, a horizon, alder, flat	2021-10-17		< !
	47.90661372	-82.32657166		b horizon, 20cm, dry, hill, mixedwood	2021-10-17		< !
	47.90644436	-82.32652542		a horizon, 40cm, dry, flat, mixedwood	2021-10-17		< !
	47.90624423	-82.32651415		b horizon, dry, 20cm, flat, mixedwood	2021-10-17		8
	47.90598843	-82.32647393		b horizon, dry, 25cm, flat, mixedwood	2021-10-17		< !
	47.90576466	-82.32654606		a/b horizon, 30cm, flats mixedwood	2021-10-17		(
	47.90558312	-82.32651009		a horizon, 30cm, mixedwood	2021-10-17		
	47.90541509	-82.32724714		b hirizon, 20cm, mixedwood, dry, flat	2021-10-17		< !
	47.90553777	-82.32719522		b horizon, dry, 30cm, mixedwood,	2021-10-17		
	47.90575701	-82.32718092		a horizon, 20cm, dry, mixedwood, flat,	2021-10-17		< !
	47.90597516	-82.3272228		30cm, a/b, dry, mixedwood, flat	2021-10-17		
	47.90618236	-82.32722528		b horizon, 40cm, dry, flat mixedwood	2021-10-17		
	47.90641286	-82.32725163		a/b horizon, wet, 30cm, mixedwood,	2021-10-17		8
	47.90668035	-82.32725632		b horizon, dry, flat, mixedwood, 25cm	2021-10-17		8
	47.90688834	-82.32731624		nbrowniwh gray, a horizon, moist, 30cm			



4.4 Cost Breakdown

Expense	Amount in CAD	
Fladgate Invoice - September	\$41359.06	
Fladgate Invoice - October	\$33600.37	
Excavator Rental	\$16657.56	
Assays	\$2704.26	
Foleyet Cabin Rental	\$1875	
Report Writing	\$11675	
Total Expenditures	\$107 871.25	

6 Results

The reults of the program were comparable to earlier prospecting samples collected by the Vendor of the Dale Property. Pervious sampling by the Vendor returned up to 4 g/t Au sample at outcrop 3. The highest assay values from the current trenching program did come from the location and returned 2.6g/t Au. Of the 83 rock samples 2 returned gold values above 1 g/t, 2 were between 1.0 and 0.5 g/t and several above 0.1 g/t . Soil sampling was limited in scope, but did return an anomalous signature in the vicinity of known gold mineralization. The highest assay values (54 and, 24, 34 ppb gold) all came from the trench 5 area. Since trench 5 was not washed 5 soil samples were taken of b horizon soil from the cleared area to help identify mineralization.

7 Conclusion and Recommendations

4 of 5 trenches were exposed on east-west striking shear zones that cut though massive unaltered granodiorite of the Dale Stock. These shear zones are composed of gabbro dykes with enclaves of foliated metagranodiorte (rafted country rock). Mineralization and alteration are confined to these local shear structures and do not penetrate in the undeformed host metagranodiorite of the Dale Stock. This leads to the conlcusion that this was a late stage mineralizing event that exploited pre existing structural weakness in the Dale Stock. Though narrow (0.01 - 3 m wide) these east-west trending mineralized deformation zones seem to be common across the property and have elevated gold values. If area came be located with sufficent densities of these shears with more intense alteration they have potential to form an economic mineral resource.

The fall trenching and soil sampling program largely reproduced ealier reconnaissance prospecting results by the Vendors of the property. The current program greatly expanded the understanding of mineralization processes on the property. Next steps should consist of further exposing the east-west mineralization/deformation zones that cut the Dale Stock granodiorite to see if they can be exposed



over a large area. An extensive mapping prospecting and soil sampling program is warrented over the property area to identify additional mineralized shear zones.

8 References

Armitage, A., and Dupere, M., 2021 - NI 43-101 Technical Report on the DALE PROPERTY, Porcupine Mining District, Dale Township, Ontario, Canada, available on SEDAR.

Heather et al., 1995 – Heather, K.B., Percival, J.A., Moser, D., and Bleeker, W. 1995. Tectonics and metallogeny of Archean crust in the Abitibi – Kapuskasing - Wawa region. Geological Survey of Canada. Open File 3141.

Thurston et al., 1977 - Thurston, P.C., Siragusa, G.M., and Sage, R.P. 1977: Geology of the Chapleau Area, Districts of Algoma, Sudbury, and Cochrane; Ontario Div. Mines, GR157, 293p. Accompanied by Maps 2351 and 2352, scale 1:250,000, and Map 2221, Scale I inch to 4 miles (1:253,440).





9 Glossary of Terms and Units of Measure

Term	Meaning	Term	Meaning
AEM	Airborne Electromagnetic	Na	sodium
Ag	Silver	Na₂O	sodium oxide
Al	Aluminum	NAD 83	North American Datum of 1983
Al ₂ O ₃	aluminum oxide	NE	northeast
AW	apparent width	NI	National Instrument
As	Arsenic	Ni	nickel
Au	Gold	NSR	net smelter return
Ва	Barium	NTS	National Topographic System
Ве	Beryllium	OGS	Ontario Geological Survey
Bi	Bismuth	Р	phosphorous
С	carbon dioxide	P ₂ O ₅	phosphorous oxide
Ca	Calcium	Pb	lead
CaO	calcium oxide	Pd	palladium
Cd	Cadmium	рН	acidity
Со	Cobalt	Pt	platinum
CO ₂	carbon dioxide	QA/QC	Quality Assurance/Quality Control
Cr	Chromium	S	south
Cr ₂ O ₃	chromium oxide	S	sulphur
Cu	Copper	Sb	antimony
DDH	diamond drill hole	SE	southeast
DW	drilled width	Se	selenium
E	East	SiO ₂	silicon oxide
EM	electromagnetic	Sn	tin
Fe	Iron	SO ₂	sulfur dioxide
Fe ₂ O ₃	iron oxide (ferric oxide-hematite)	Sr	strontium
Fe ₃ O ₄	iron oxide (ferrous oxide-magnetite)	Sum	summation
HLEM	horizontal loop electromagnetic	SW	southwest
H ₂ O	hydrogen oxide (water)	Ti	titanium
IP	induced polarization	TiO ₂	titanium oxide
K	Potassium	TI	thallium
K ₂ O	potassium oxide	TW	true width
Li	Lithium	U	uranium
LOI	loss on ignition (total H ₂ O, CO ₂ and SO ₂ content)	U ₃ O ₈	uranium oxide (yellowcake)
Mg	Magnesium	UTM	Universal Transverse Mercator
MLAS	Mining Lands Administration System	V	vanadium
Mn	Manganese	V ₂ O ₅	vanadium oxide
MENDM	Ministry of Environment, Northern Development, Mines	VLF	very low frequency
MnO	manganese oxide	VLF-EM	very low frequency-electromagnetic
Мо	Molybdenum	W	west
Mt	millions of tonnes	Υ	yttrium
N	North	Zn	zinc
NW	northwest		



Units of Measure	Abbreviation	Units of Measure	Abbreviation
Above mean sea level	amsl	Litre	L
Ampere	A	Litres per minute	L/m
Annum (year)	а	Megabytes per second	Mb/s
Billion years ago	Ga	Megapascal	MPa
British thermal unit	Btu	Megavolt-ampere	MVA
Candela	cd	Megawatt	MW
Carat	ct	Metre	m
Carats per hundred tonnes	cpht	Metres above sea level	masl
Carats per tonne	cpt	Metres per minute	m/min
Centimetre	cm	Metres per second	m/s
Cubic centimetre	cm ³	Metric ton (tonne)	t
Cubic feet per second	ft³/s or cfs	Micrometre (micron)	μm
Cubic foot	ft³	Microsiemens (electrical)	μs
Cubic inch	in ³	Miles per hour	mph
Cubic metre	m³	Milliamperes	mA
Cubic yard	yd³	Milligram	mg
Day	d	Milligrams per litre	mg/L
Days per week	d/wk	Millilitre	mL
Days per year (annum)	d/a	Millimetre	mm
Dead weight tonnes	DWT	Million	M
Decibel adjusted	dBa	Million tonnes	Mt
Decibel	dB	Minute (plane angle)	1
Degree	0	Minute (time)	min
Degrees Celsius	°C	Month	mo
Degrees Fahrenheit	°F	Newton	N
Diameter	ø	Newtons per metre	N/m
Dry metric ton	dmt	Ohm (electrical)	Ω
Foot	ft	Ounce	OZ
Gallon	gal	Parts per billion	ppb
Gallons per minute (US)	gpm	Parts per million	ppm
Gigajoule	GJ	Pascal	Pa
Gram	g	Pascals per second	Pa/s
Grams per litre	g/L	Percent	%
Grams per tonne	g/t	Percent moisture (relative humidity)	% RH
Greater than	>	Phase (electrical)	Ph
Hectare (10,000 m2)	ha	Pound(s)	lb
Hertz	Hz	Pounds per square inch	psi
Horsepower	hp	Power factor	pF
Hour	h (not hr)	Quart	qt
Hours per day	h/d	Revolutions per minute	rpm
Hours per week	h/wk	Second (plane angle)	ıı
Hours per year	h/a	Second (plane aligie) Second (time)	S
Inch	"(symbol, not ")	Short ton (2,000 lb)	st
	(symbol, not)		
Joule Joules per kilowatt-hour	J/kWh	Short ton (US) Short tons per day (US)	t
•	• •		tpd
Kelvin	K	Short tons per hour (US)	tph
Kilo (thousand)	k	Short tons per year (US)	tpy
Kilocalorie	kcal	Specific gravity	SG
Kilogram	kg	Square centimetre	cm ²
Kilograms per cubic metre	kg/m³	Square foot	ft²
Kilograms per hour	kg/h	Square inch	in ²



10 Statement of Qualifications

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Email: ryan.hrkac@fladgateexploration.com

CERTIFICATE OF THE AUTHOR

I, Ryan Hrkac, do hereby certify that:

- 1. I am an employee of Fladgate Exploration Consulting Corporation, the geological consulting firm tasked with this report.
- 2. I am a graduate of Lakehead University (Hons. B.Sc., 2016).
- 3. I have practiced geology for 6 years in a variety of settings, mostly in Northwestern Ontario, Canada.
- 4. I have no previous involvement with the property that forms the subject of this Technical Report.
- 5. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.

February 24, 2022



Quality Analysis ...



Innovative Technologies

Report No.: A21-20176
Report Date: 09-Dec-21
Date Submitted: 26-Oct-21

Your Reference:

Fladgate Exploration 278 Bay St. Thunder Bay ON P7B 1R8 Canada

ATTN: Neil Pettigrew (new)

CERTIFICATE OF ANALYSIS

132 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-Tbay	QOP AA-Au (Au - Fire Assay AA)	2021-12-06 09:09:31

REPORT **A21-20176**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

SCC Accredited

LAB

LAB

Accredite CCN

LabID: 673

ACTIVATION LABORATORIES LTD.

1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6 TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613 E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com **CERTIFIED BY:**

Emmanuel Eseme , Ph.D. Quality Control Coordinator

[A]	1.
Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
E5563510	13
E5563511	326
E5563512	15
E5563513	16
E5563514	< 5
E5563515	6
E5563516	99
E5563517	9
E5563518	< 5
E5563519	< 5
E5563520	6
E5563521	9
E5563522	31
E5563523	< 5
E5563524	83
E5563525	16
E5563526	10
E5563527	13
E5563528	5
E5563529	110
E5563530	33
E5563531	120
E5563531	40
	34
E5563533	
E5563534	18 7
E5563535	
E5563536	9
E5563537	1340
E5563538	452
E5563539	2660
E5563540	30
E5563541	244
E5563542	30
E5563543	8
E5563544	214
E5563545	5
E5563546	756
E5563547	9
E5563548	< 5
E5563549	< 5
E5563550	12
E5563551	11
E5563552	6
E5563553	< 5
E5563554	10
E5563555	< 5
E5563556	< 5
E5563557	< 5
E5563558	12
E5563559	79
E5562810	15
	1

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
E5562811	7
E5562812	8
E5562813	< 5
E5562814	< 5
E5562815	< 5
E5562816	10
E5562817	8
E5562818	53
E5562819	10
E5562820	8
E5562821	< 5
E5562822	5
E5562823	39
E5562824	165
E5562825	34
E5562826	30
E5562827	
	97 512
E5562828	
E5562829	75 5
E5562830 E5562831	< 5
E5562832	< 5
E5562833	< 5
E5562834	14
E5562835	54
E5562836	14
E5562837	< 5
E5562838	15
E5562839	25
E5562840	90
E5562841	17
E5562842	300
E5562395	< 5
E5562396	7
E5562397	< 5
E5562398	< 5
E5562399	6
E5562400	< 5
E5562401	7
E5562402	6
E5562403	< 5
E5562404	16
E5562405	31
E5562406	5
E5562407	25
E5562408	54
E5562409	8
E5562410	9
E5562411	< 5
E5562412	12
E5562413	6
	1

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
E5562414	5
E5562415	< 5
E5562416	5
E5562417	7
E5562418	< 5
E5562419	< 5
E5562420	< 5
E5562421	8
E5562422	< 5
E5562423	6
E5562424	5
E5562425	< 5
E5562426	6
E5562427	< 5
E5562428	6
E5562429	7
E5562430	8
E5562431	8
E5562432	6
E5562660	< 5
E5562661	< 5
E5562662	17
E5562663	< 5
E5562664	< 5
E5562665	< 5
E5562666	6
E5562667	6
E5562668	< 5
E5562669	17
E5562670	13

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 238 (Fire	3070
Assay) Meas	
OREAS 238 (Fire	3030
Assay) Cert	
OREAS 238 (Fire	3100
Assay) Meas	2222
OREAS 238 (Fire	3030
Assay) Cert OREAS 238 (Fire	3080
Assay) Meas	3000
OREAS 238 (Fire	3030
Assay) Cert	
OREAS 238 (Fire	3050
Assay) Meas	
OREAS 238 (Fire	3030
Assay) Cert	
OREAS 238 (Fire	3080
Assay) Meas`	
OREAS 238 (Fire	3030
Assay) Cert	
Oreas E1336 (Fire	511
Assay) Meas Oreas E1336 (Fire	510
Assay) Cert	310
Oreas E1336 (Fire	491
Assay) Meas	101
Oreas E1336 (Fire	510
Assay) Cert	
Oreas E1336 (Fire	510
Assay) Meas	
Oreas E1336 (Fire	510
Assay) Cert Oreas E1336 (Fire	502
Assay) Meas	302
Oreas E1336 (Fire	510
Assay) Cert	
Oreas E1336 (Fire	500
Assay) Meas	
Oreas E1336 (Fire	510
Assay) Cert	_
E5563519 Orig	< 5
E5563519 Dup	< 5
E5563529 Orig	112
E5563529 Dup	107
E5563540 Orig	29
E5563540 Dup	30
E5563551 Orig	15
E5563551 Dup	7
E5563559 Orig	79
E5563559 Split	101
PREP DUP	
E5562812 Orig	6
E5562812 Dup	10
E5562825 Orig	35
E5562825 Dup	33
E5562838 Orig	16

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
E5562838 Dup	14
E5562400 Orig	< 5
E5562400 Dup	13
E5562411 Orig	< 5
E5562411 Dup	< 5
E5562422 Orig	< 5
E5562422 Dup	5
E5562661 Orig	6
E5562661 Dup	< 5
E5562668 Orig	< 5
E5562668 Dup	5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5