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### **Abstract**

Canadian Exploration Services Limited (CXS) performed a grass roots prospecting program for Val D'Or Mining Corporation over the Shamrock Prospect in the fall of 2021. The prospecting survey was designed to locate historic showings and any outcrops encountered during the traverse. To accomplish this, traverses were performed to target these previously mentioned points of interest. Also, random traverses were performed over the prospecting areas to try and cover as much ground as possible. Any outcrop encountered had a representative rock sample taken. A total of 10 samples were collected and sent to the client.

### **Val D'Or Mining Corporation**

**Q2937 – Shamrock Prospect  
Grass Roots Prospecting Program**

**C Jason Ploeger, P.Geol.  
Gun Hee You. GIT**

**December 17, 2021**

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## 1. SURVEY DETAILS

### 1.1 PROJECT NAME

This project is known as the **Shamrock Prospect**

### 1.2 CLIENT

Val d'Or Mining Corporation.

2864 Chemin Sullivan

Val D'Or, Quebec

J9P 0B9

### 1.3 SUMMARY

Canadian Exploration Services Limited (CXS) performed a grass roots prospecting program for Val D'Or Mining Corporation over the Shamrock Prospect in the fall of 2021. The prospecting survey was designed to locate historic showings and any outcrops encountered during the traverse. To accomplish this, traverses were performed to target these previously mentioned points of interest. Also, random traverses were performed over the prospecting areas to try and cover as much ground as possible. Any outcrop encountered had a representative rock sample taken. A total of 10 samples were collected and sent to the client.

All coordinates presented in this report are in UTM NAD83 Zone 17N.

## 1.4 LOCATION

The Shamrock Prospect is located in Teck Township approximately 2.7km north of Kirkland Lake, Ontario. The survey area covers multiple cell claims located within the Larder Lake Mining Division of Ontario. The prospecting area covers cell claims 332793, 245057, 205334, 197884, 186498 and 152727.



***Figure 1: Location of the Shamrock Prospect***

## 1.5 ACCESS

Access to the property was attained with a 4x4 truck by traveling on highway 66 in Kirkland Lake. From here a series of ATV trails were used to access the traverse areas.

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**1.6 OWNERSHIP**

<b>Claim Number</b>	<b>Provincial ID</b>	<b>Holder</b>	<b>Township</b>
332793	42A01H008	Val d'Or Mining Corporation	TECK
245057	42A01H027	Val d'Or Mining Corporation	TECK
205334	42A01H009	Val d'Or Mining Corporation	TECK
197884	42A01H007	Val d'Or Mining Corporation	TECK
186498	42A01H028	Val d'Or Mining Corporation	TECK
152727	42A01H029	Val d'Or Mining Corporation	TECK

**Table 1: List of Cell Claims**

**1.7 GENERAL GEOLOGY**

The Kirkland Lake area lies within the south-central part of the Abitibi Subprovince of the Archean-age Superior Province of the Canadian Shield. Jensen and Langford (1985) recognize the presence of two distinct volcanic cycles characterized by a lower komatiitic sequence, progressing stratigraphically upwards through tholeiitic and calc-alkaline volcanosedimentary rocks and culminating in alkalic volcanics with associated sediments and intrusives. The property area is underlain by lithologies of the Kinojevis Group, the tholeiitic member of the upper of the two volcanic cycles.

---

## 1.8 PROPERTY HISTORY

A lot of historical exploration has been carried out over the years all over the survey area. The following list describes details of the previous geoscience work which was collected by the Mines and Minerals division and provided by OGSEarth (MNDM & OGSEarth, 2021).

- **1977: Goshawk Mines Ltd (File 31D09NW8543):  
Diamond Drilling – Teck Township**

In 1977, Goshawk Mines drilled 6 drill holes totalling 818 feet.

- **1988: Trinity Explorations (File 42A01NE0144):  
Airborne Geophysics – Teck Township**

In 1988, Trinity Explorations performed airborne magnetometer and VLF EM.

- **1989: Trinity Explorations and Tundra Gold Mines Ltd (File 32D04NW8988):  
Ground Geophysical, Geochemical and Physical – Munro Township**

In 1989, Trinity Explorations and Tundra Gold Mines performed ground geophysical magnetic / magnetometer survey; geochemical assaying and analyses; and physical open cutting.

- **1989: G J Mullan (File 42A01NE0137):  
Diamond Drilling – Teck Township**

In 1989, G J Mullan drilled 2 drill holes totalling 810 feet.

- **1990: Battle Mountain Canada Ltd (File 42A01SE0002):  
Airborne Geophysics– Teck Township**

In 1990, Battle Mountain Canada performed airborne magnetometer, VLF EM, and gradiometer.

- **1991: G J Mullan (File 42A01NE0109):  
Geochemical – Teck Township**

In 1994, G J Mullan performed geochemical assaying and analyses.

- **1993: G J Mullan (File 42A01NE0085 and 42A01NE8931):  
Geochemical and Geological – Bernhardt Township**

In 1993, G J Mullan performed geological survey / mapping and geochemical sampling.

- **1997-1998: Kinross Gold Corp (File 42A01NE2007 and 42A01NE2014):  
Ground Geophysical and Physical – Teck Township**

In period 1997 to 1998, Kinross Gold performed ground geophysical IP and magnetic / magnetometer survey; and physical line cutting.



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• **2004: Zenda Capital Corp (File 42A01NE2061):  
Physical and Geochemical – Teck Township**

In 2004, Zenda Capital performed physical bedrock trenching; and geochemical assaying and analyses.

• **2006: Vault Minerals Inc (File 20000001686 and 20000001534):  
Geochemical and Geological – Teck Township**

In 2006, Vault Minerals performed geochemical assaying and analyses; and geological survey / mapping.

• **2009: Golden Valley Mines Ltd (File 20000004241):  
Ground Geophysical and Physical – Teck Township**

In 2009, Golden Valley Mines performed ground geophysical IP and magnetic / magnetometer survey; and physical line cutting.

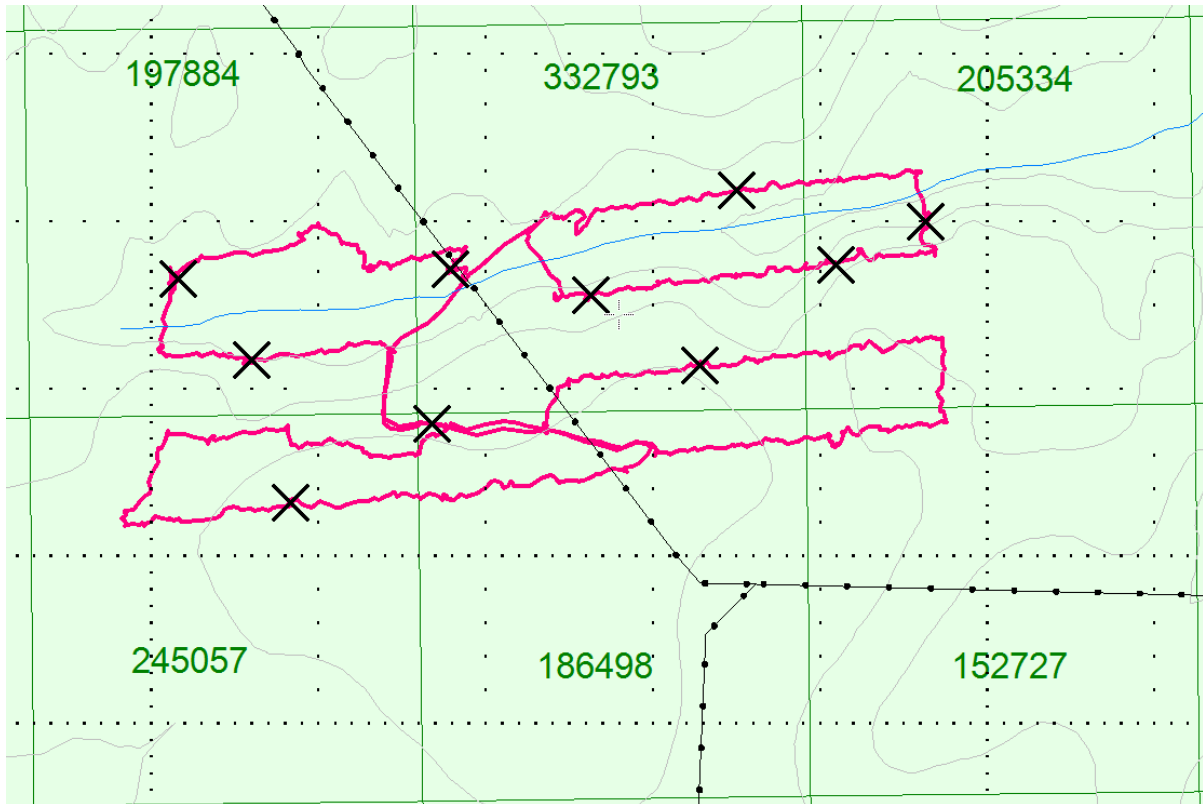
• **2020: Agnico Eagle Mines Ltd (File 20000019013):  
Geochemical – Teck Township**

In 2020, Agnico Eagle Mines performed rock sampling, and geochemical assaying and analyses.

## 2. PROSPECTING

### 2.1 OVERVIEW

In October of 2021 prospecting was completed over the Shamrock Prospect, in order to investigate historic features such as shafts, pits, trenches, and stripped areas along with any outcrops and mineralization encountered.



***Figure 2: Areas Prospected***

### 2.2 PLANS & PERMITS

The prospecting work reported on here was surficial and did not require any plans or permits.

---

## 2.3 DAILY LOG

Date	Description
October 27, 2021	Locate and complete prospecting area.

***Table 2: Daily Prospecting Log***

## 2.4 PERSONNEL

Bruce Lavalley and Claudia Moraga, both of Dobie, Ontario, represented the prospecting crew.

## 2.5 TRAVERSE SPECIFICATIONS

The property boundary along with specific target areas were identified and uploaded to a GPS. This boundary acted as a constraint for the prospecting traverse.

At each sample site a long bright orange ribbon was hung with only the sample number listed in black marker. Below the ribbon the sample was taken. Using a rock hammer, rock was broken up and sampled. The sample was placed in a plastic sampling bag with a sample tag and taped closed. The sample number was recorded on the sampling bag as well. The sample is then put into a packsack for transportation.

While sampling a picture is taken of the satellite information on the GPS at that sample's specific location.

At the end of the day the samples are put into white "rice" bags. These bags are sealed and kept by the crew each day. The GPS's were also downloaded which identified sample locations and traverse routes.

### 3. RESULTS

**ALL SAMPLES WERE TAKEN FOR REFERENCE PURPOSES ONLY! ALL SAMPLES WERE PRESENTED TO VAL D'OR MINING.**

#### 3.1 SUMMARY OF SAMPLES COLLECTED

Rock Samples Collected	
Date	Sample Number
October 27, 2021	901516-901523
	901574-901578

**Table 3: Summary of Samples Collected**

A significant site was observed throughout the traverse were noted by the prospecting crew and the location was recorded.

Feature	Easting	Northing
Old pit	568166	5334660

**Table 4: Feature Located**





**Figure 4: Old Pit Located**

---

Sample 901519

Rock Description:

- Mafic volcanic

Location:  
568700E  
5335037N



**Figure 5: Cross Section of Sample 901519**

---

Sample 901520

Rock Description:

- Mafic volcanic

Location:  
568926E  
5334999N



**Figure 6: Cross Section of Sample 901520**



---

Sample 901521

Rock Description:

- Mafic volcanic

Location:  
568819E  
5334948N



Figure 7: Cross Section of Sample 901521

---

Sample 901522

Rock Description:

- Mafic volcanic

Location:

568526E

5334911N



**Figure 8: Cross Section of Sample 901522**

---

Sample 901523

Rock Description:

- Mafic volcanic

Location:  
568656E  
5334828N



**Figure 9: Cross Section of Sample 901523**

---

Sample 901574

Rock Description:

- Quartz veining
- Sulphide mineralization

Location:  
568358E  
5334943N



**Figure 10: Cross Section of Sample 901574**

---

Sample 901575

Rock Description:

- Mafic volcanic

Location:  
568032E  
5334931N



**Figure 11: Cross Section of Sample 901575**

---

Sample 901576

Rock Description:

- Mafic volcanic

Location:  
568120E  
5334834N



**Figure 12: Cross Section of Sample 901576**

---

Sample 901577

Rock Description:

- Mafic volcanic

Location:

568336E

5334758N



**Figure 13: Cross Section of Sample 901577**

---

Sample 901578

Rock Description:

- Altered mafic volcanic

Location:  
568167E  
5334663N



**Figure 14: Cross Section of Sample 901578**



Client: Val d'Or Mining Corporation  
 Project: VSR  
 Sample type (s): rock/grab  
 Submitted By: Michael Rosatelli

## ANALYSIS CERTIFICATE

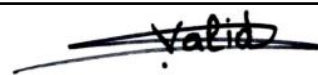
**A21-5384**

12/9/2021 12:00:00 AM

**RESULTS**

	CAS Number Method Code Units	Au	Au Chk
		FA-AAS g/Mt	FA-AAS g/Mt
1	L901519	< 0.01	
2	L901520	< 0.01	
3	L901521	0.01	
4	L901522	< 0.01	
5	L901523	< 0.01	
6	L901574	0.01	
7	L901575	< 0.01	
8	L901576	< 0.01	
9	L901577	< 0.01	
10	L901578	0.02	0.02

Certified  
by

  
Valid Abu Ammar

Client: Val d'Or Mining Corporation  
Project: VSR  
Sample type (s): rock/grab  
Submitted By: Michael Rosatelli

## ANALYSIS CERTIFICATE

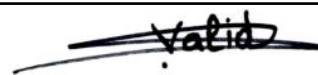
**A21-5384**

12/9/2021 12:00:00 AM

**QC RESULTS**

	<b>CAS Number</b>	Au
	<b>Method Code</b>	FA-AAS
	<b>Units</b>	g/Mt
1 OREAS 235 meas		1.60
2 Blank Value		< 0.01

Certified  
by

  
Valid Abu Ammar

## APPENDIX A

### STATEMENT OF QUALIFICATIONS

I, C. Jason Ploeger, hereby declare that:

1. I am a professional geophysicist with residence in Larder Lake, Ontario and am presently employed as a Geophysicist and Geophysical Manager of Canadian Exploration Services Ltd. of Larder Lake, Ontario.
2. I am a Practising Member of the Association of Professional Geoscientists, with membership number 2172.
3. I graduated with a Bachelor of Science degree in geophysics from the University of Western Ontario, in London Ontario, in 1999.
4. I have practiced my profession continuously since graduation in Africa, Bulgaria, Canada, Mexico and Mongolia.
5. I am a member of the Ontario Prospectors Association, a Director of the Northern Prospectors Association and a member of the Society of Exploration Geophysicists.
6. I do not have nor expect an interest in the properties and securities of Val D'Or Mining Corporation.
7. I am responsible for the final processing and validation of the survey results and the compilation of the presentation of this report. The statements made in this report represent my professional opinion based on my consideration of the information available to me at the time of writing this report.



C. Jason Ploeger, P.Geo., B.Sc.  
Geophysical Manager  
Canadian Exploration Services Ltd.

Larder Lake, ON  
December 17, 2021

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## APPENDIX A

### STATEMENT OF QUALIFICATIONS

I, Gun Hee You, hereby declare that:

1. I am a Geoscience-in-Training with residence in Calgary, Alberta and am presently employed as a Geophysicist in Training with Canadian Exploration Services Ltd. of Larder Lake, Ontario.
2. I graduated with a Bachelor of Science degree in geophysics from the University of Calgary, in Calgary Alberta, in 2020.
3. I am a member of the Association of Professional Engineers and Geoscientists of Alberta (APEGA) as a Geoscientist-in-Training (Member ID 280049).
4. I have previous geophysical work experience during and following my education.
5. I do not have nor expect an interest in the properties and securities of Val D'Or Mining Corporation.
6. I am responsible for the final processing and validation of the survey results and the compilation of the presentation of this report. The statements made in this report represent my professional opinion based on my consideration of the information available to me at the time of writing this report.



Gun Hee You, G.I.T., B.Sc.  
Geophysicist in Training

Larder Lake, ON  
December 17, 2021

## APPENDIX B

### GARMIN GPS MAP 62S



Physical & Performance:	
Unit dimensions, WxHxD:	2.4" x 6.3" x 1.4" (6.1 x 16.0 x 3.6 cm)
Display size, WxH:	1.43" x 2.15" (3.6 x 5.5 cm); 2.6" diag (6.6 cm)
Display resolution, WxH:	160 x 240 pixels
Display type:	transflective, 65-K color TFT
Weight:	9.2 oz (260.1 g) with batteries
Battery:	2 AA batteries (not included); NiMH or Lithium recommended
Battery life:	20 hours
Waterproof:	yes (IPX7)
Floats:	no
High-sensitivity receiver:	yes
Interface:	high-speed USB and NMEA 0183 compatible
Maps & Memory:	
Basemap:	yes
Preloaded maps:	no
Ability to add maps:	yes
Built-in memory:	1.7 GB
Accepts data cards:	microSD™ card (not included)

Waypoints/favorites/locations:	2000
Routes:	200
Track log:	10,000 points, 200 saved tracks
<b>Features &amp; Benefits:</b>	
Automatic routing (turn by turn routing on roads):	yes (with optional mapping for detailed roads)
Electronic compass:	yes (tilt-compensated, 3-axis)
Touchscreen:	no
Barometric altimeter:	yes
Camera:	no
<u>Geocaching-friendly:</u>	yes (paperless)
<u>Custom maps compatible:</u>	yes
Photo navigation (navigate to geotagged photos):	yes
Outdoor GPS games:	no
Hunt/fish calendar:	yes
Sun and moon information:	yes
Tide tables:	yes
Area calculation:	yes
Custom POIs (ability to add additional points of interest):	yes
Unit-to-unit transfer (shares data wirelessly with similar units):	yes
Picture viewer:	yes
Garmin Connect™ compatible (online community where you analyze, categorize and share data):	yes

- *Specifications obtained from [www.garmin.com](http://www.garmin.com)*

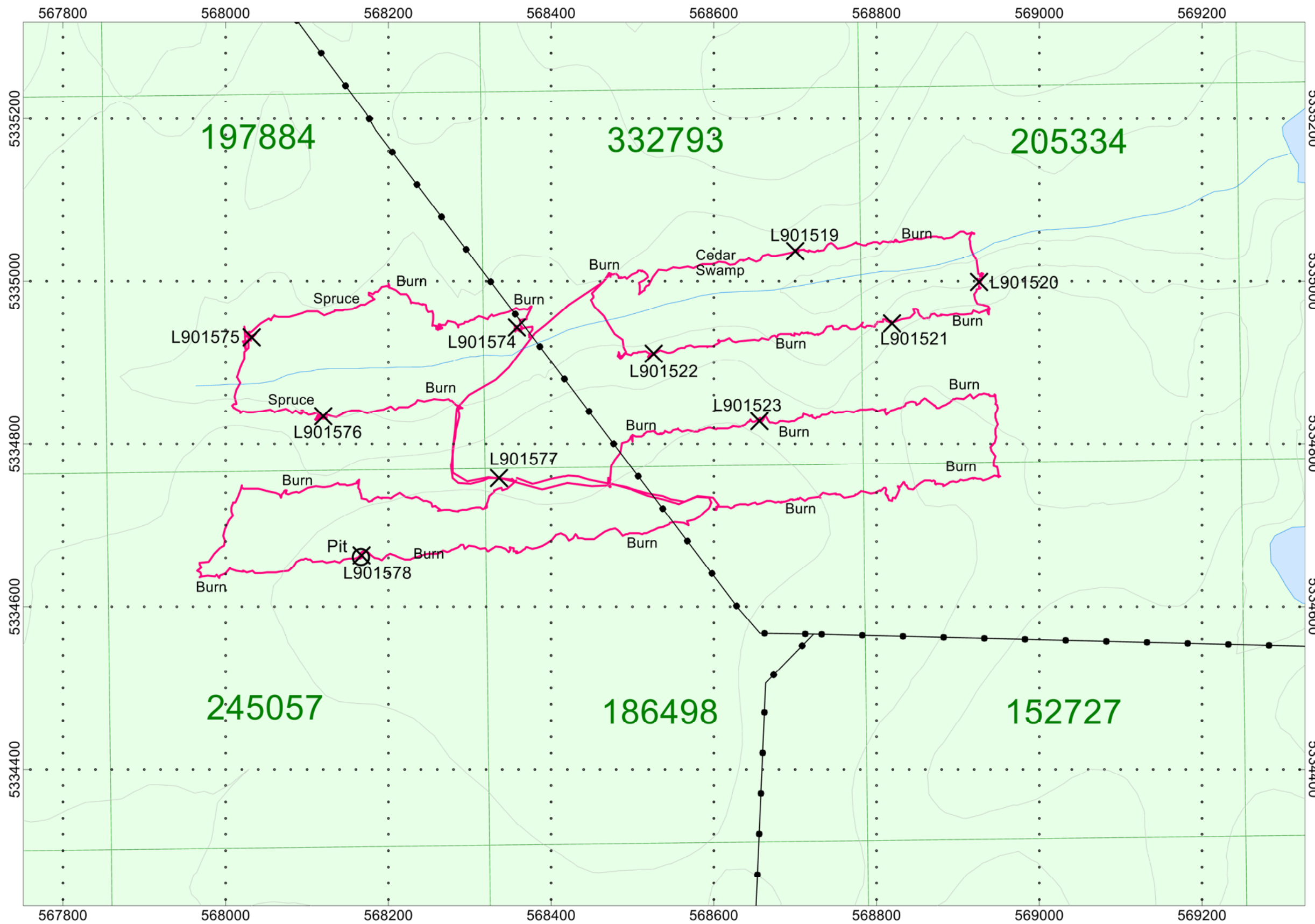
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**APPENDIX C**

**LIST OF MAPS (IN MAP POCKET)**

1) Q2937-ValDor-Shamrock-Prospecting (1:5000)

**Total Maps = 1**

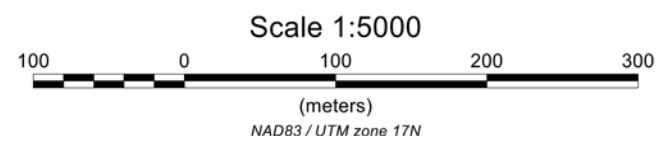


Traverse October 27, 2021



**SHAMROCK PROSPECT**  
Teck Township, Ontario

Prospecting Traverse Plan Map  
Notes and Observations



Traverses By: Claudia Moraga  
and Bruce Lavalley  
Processed by: C Jason Ploeger, P.Geo.  
Map Drawn By: C Jason Ploeger, P.Geo.  
December 2021



Drawing: Q2937-ValDor-Shamrock-Prospecting