

Deadhorse Creek Rare Earth Property

Walsh and Grain Townships

Thunder Bay Mining Division, Ontario

48° 51' 7.671" N, 86 39' 45.028" W

NTS Mapsheet 42D and 42E

Assessment Report Prepared for
Canadian International Minerals Inc.

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Report Prepared by:



31 October, 2011

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4 Summary

The Deadhorse Creek property (“The Property”) is an intermediate stage exploration property, prospective for rare earth elements (REE). The Property is located in Walsh and Grain Townships of the Thunder Bay Mining Division. The Property consists of 16 contiguous claim groups, henceforth referred to as the Deadhorse Creek block. The claim blocks total 3120 hectares and can be accessed by the Deadhorse Creek dirt road that joins the Trans-Canada Highway 43 km east of the Town of Terrace Bay and 25 km west of the town of Marathon in Northern Ontario. Property boundaries are marked with corner posts located at the corners of the claim blocks and the boundaries are blazed and marked with flagging tape. The claim posts are currently un-surveyed.

Canadian International Minerals Inc. (CIN) entered an agreement to acquire 100% interest in all the claims, subject to a 3% Net Smelter Royalty (NSR) on July 31, 2009. CIN is obligated to issue 600,000 common shares and pay a total of \$250,000 over a four year period. There are no back-in rights and the NSR may be reduced to 1.5% by paying the vendor an additional \$1,500,000.

The property was mapped in the 1950’s by the Ontario Geological Survey and then again in 1967 by the Ontario Department of Mines (Walker, 1967). The area was staked and explored for uranium in 1977 by Gulf Minerals Canada; Gulf also conducted geological mapping, trenching and drilling. Highwood Resources Ltd. staked the property in 1985 and explored for beryllium, yttrium and cerium. Unocal Canada acquired the property in 1988 and channel sampled existing surface trenches.

The Deadhorse Creek property is located in the Archean Superior Structural Province of Northern Ontario. The Archean rocks consist of metasedimentary and metavolcanic rocks of the Schreiber-White River greenstone belt which are located adjacent to the Proterozoic Coldwell alkaline complex (Potter and Mitchell, 2005). The Proterozoic Deadhorse Creek volcanoclastic breccia complex was emplaced in the Schreiber-White River greenstone belt (Potter and Mitchell, 2005). The western sub-complex of the Deadhorse Creek breccia contains a U-Be-Zr-rich main mineralized zone and a Zr-Y-Th-rich carbonate vein (Potter and Mitchell, 2005). Beryllium, thorium, uranium, first and second row transition elements and rare earth elements are enriched in the main mineralized zone (Potter and Mitchell, 2005).

Current exploration work on the property commenced May 19, 2011 and was completed July 28, 2011. Work involved prospecting, geological mapping, rock sampling, spectrometer (radiometric) surveys, trenching and channel sampling. Work was carried out by personnel of both Canadian International Minerals Inc. and Mackevoy Geosciences Ltd.

5 Introduction

Canadian International Minerals (CIN) retained Mackevoy Geoscience Ltd. to conduct work on the Deadhorse Creek Property during the summer of 2011 and to prepare an assessment report for the Ontario government. Field work was completed in the summer of 2011 by Mackevoy Geosciences Ltd. CIN was responsible for permits, trenching, subcontractors and reclamation work.

6 Reliance on other experts

Mackevoy Geosciences Ltd. has confirmed that all the claims are registered to either CIN or John Ternowsky, the property vendor. No other opinions or experts were relied upon for preparation of this report

7 Property description and location

The Deadhorse Creek property is located along the Deadhorse Creek all-weather dirt road that extends north of Provincial Highway 17 (Figure 1). The property consists of 16 mineral groups, containing 195 claims that comprise a total area of 3,120 hectares (Table 1 and Figure 2). The claims are located in Walsh and Grain Townships, which are contained in the Thunder Bay Mining Division. The approximate center of the claim blocks is 524758 mE, 5411073 mN (Nad83 Zone 16N). Note that grid north is used on all maps. The claims are unsurveyed, but the property boundaries are marked with blazed trees and flagging tape. Each claim corner is marked with a corner post. Surface rights are maintained by the Province of Ontario, and the mineral claims extend only to the mineral rights.

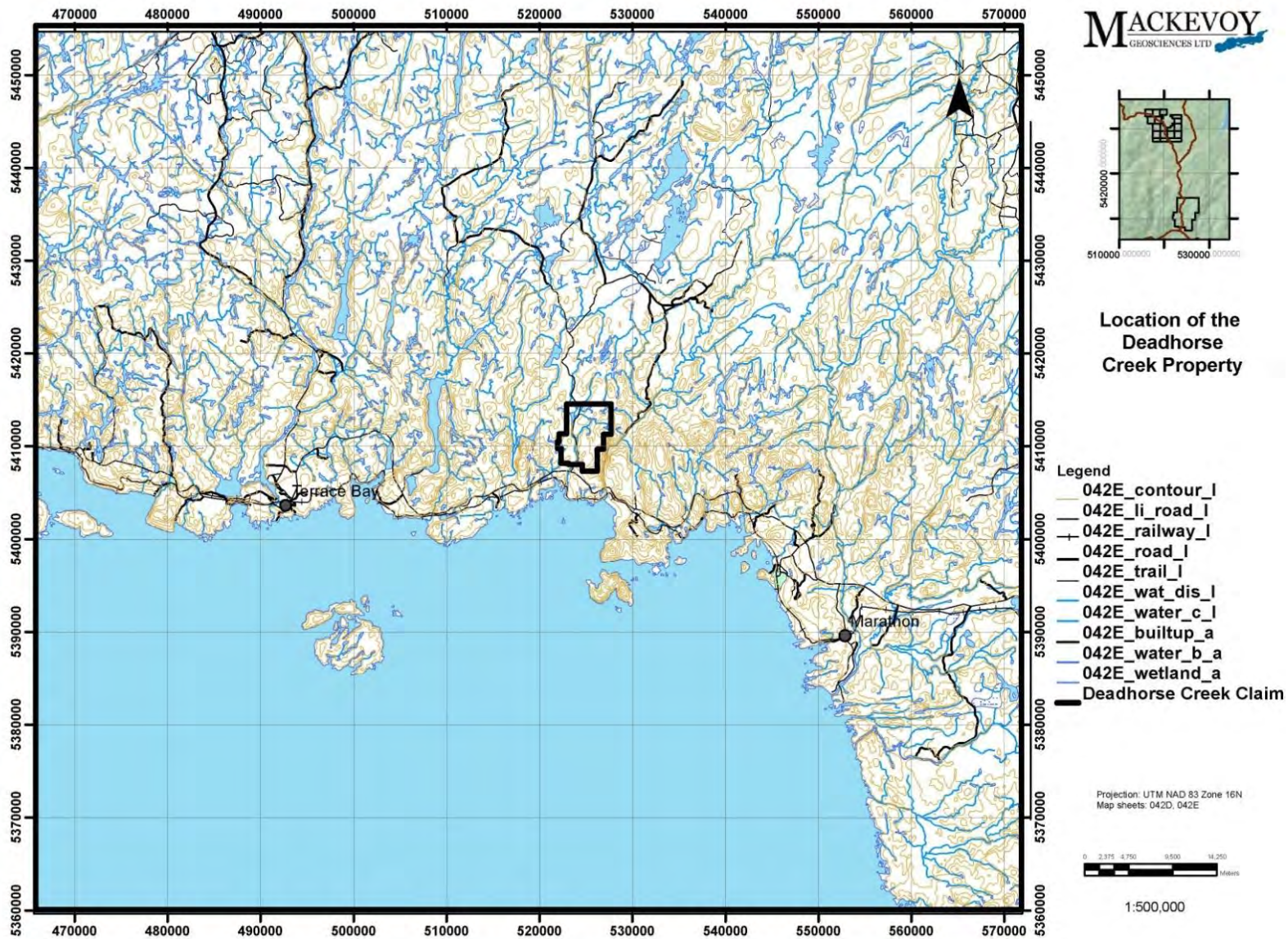


Figure 1. Location of the DHC property.

Mackevoy Geosciences Ltd. 2011

Deadhorse Creek Property

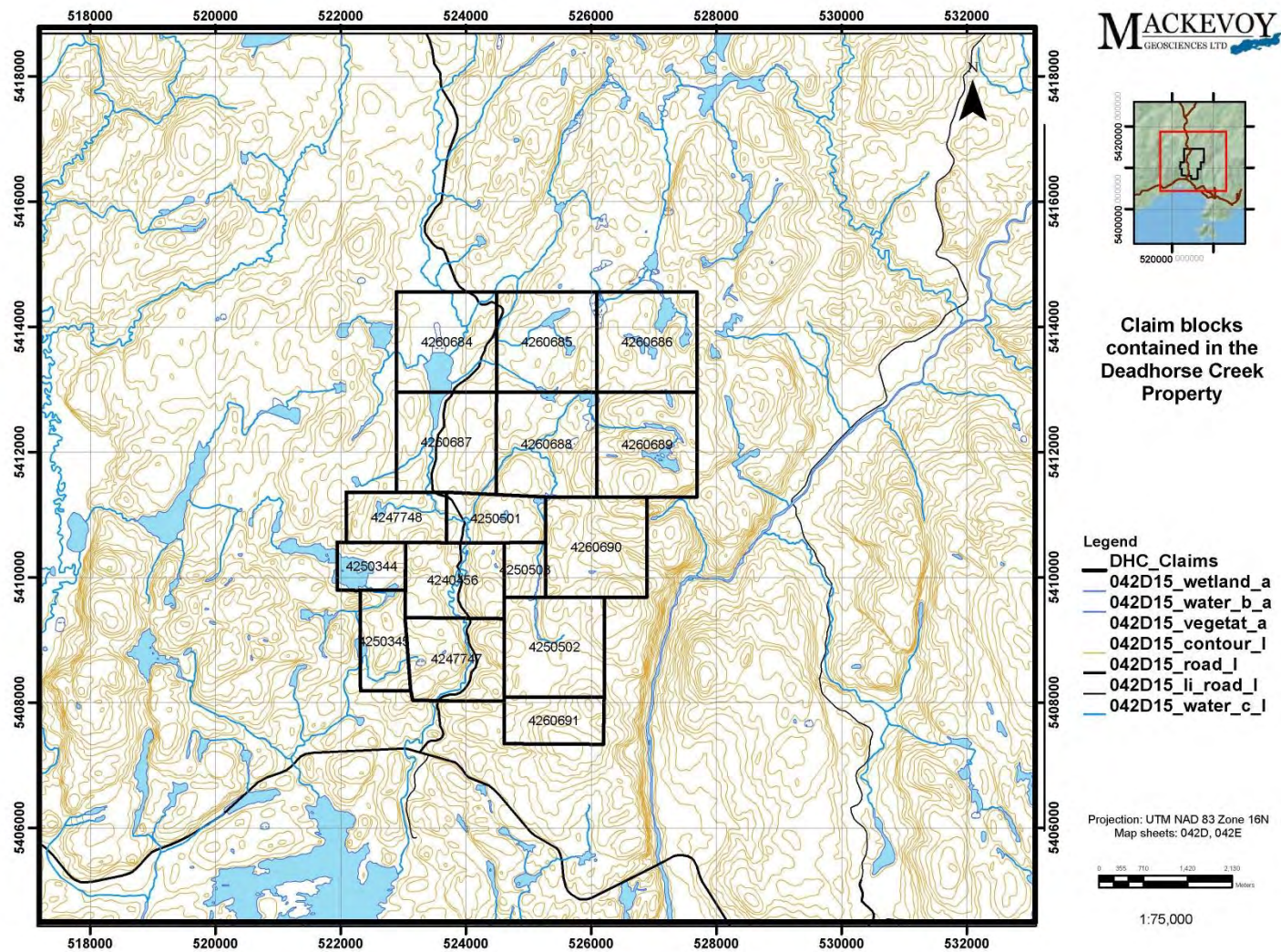


Figure 2. Claim groupings contained in the Deadhorse Creek Property.

Table 1. List of mineral blocks in the Deadhorse Creek Property

Claim number	Expiry date	Work required (\$)	Claim units	Ownership	Township	Area (hectares)
4240456	2012-Dec-11	4800	12	Canadian International Minerals (100%)	Walsh	192
4247747	2012-Jun-17	5200	13	Canadian International Minerals (100%)	Walsh	208
4247748	2012-Jun-17	3200	8	Canadian International Minerals (100%)	Walsh	128
4250344	2012-Jun-17	2400	6	Canadian International Minerals (100%)	Walsh	96
4250345	2012-Jun-17	3600	9	Canadian International Minerals (100%)	Walsh	144
4250501	2012-Sep-18	3200	8	Canadian International Minerals (100%)	Walsh	128
4250502	2012-Sep-19	6400	16	Canadian International Minerals (100%)	Walsh	256
4250503	2012-Sep-18	1200	3	Canadian International Minerals (100%)	Walsh	48
4260684	2012-Dec-24	6400	16	Canadian International Minerals (100%)	Walsh	256
4260685	2012-Dec-25	6400	16	Canadian International Minerals (100%)	Walsh	256
4260686	2012-Dec-26	6400	16	Canadian International Minerals (100%)	Grain	256
4260687	2012-Dec-27	6400	16	Canadian International Minerals (100%)	Walsh	256
4260688	2012-Dec-28	6400	16	Canadian International Minerals (100%)	Walsh	256
4260689	2012-Dec-29	6400	16	Canadian International Minerals (100%)	Grain	256
4260690	2012-Dec-23	6400	16	Canadian International Minerals (100%)	Grain	256
4260691	2012-Dec-23	3200	8	Canadian International Minerals (100%)	Walsh	128

8 Accessibility, climate, local resources, infrastructure and physiography

The Property can be accessed by the Deadhorse Creek road which begins at Provincial Highway 17, the Trans-Canada Highway, about 43 km east of the town of Terrace Bay and 25 km west of the town of Marathon in Northern Ontario. The Dead Horse Creek block is about 1 km north of Highway 17 along the dirt road.

The Deadhorse Creek Property is located in the Precambrian Shield of Northern Ontario. Physiographically, the region consists mainly of low terrain, including swamps separated by hills that rise 100-200 m above the swamps. The Property contains rugged hills and cliffs, most of which are north-south trending; the maximum elevation is approximately 400 m above sea level. Aspen, birch and spruce cover the claim area; low lying areas are covered in thick alders and underbrush. Overburden on the property is quite thin on the hills (between 0-20 cm on average) and consists mainly of sand and clay-sized particles, overlain by a thin organic layer. In the valleys and swamps, the overburden and organic layers can be substantially thicker. There are small sand and gravel deposits located nearby which are used to construct gravel roads, but there are no deposits on the property.

9 Geological setting

The Deadhorse Creek property is located in the Archean Superior Structural Province of Northern Ontario. The Archean rocks consist of metasedimentary and metavolcanic rocks of the Schreiber-White River greenstone belt which are located adjacent to the Proterozoic Coldwell alkaline complex (Potter and Mitchell, 2005). The Proterozoic Deadhorse

Creek volcanoclastic breccia complex was emplaced in the Schreiber-White River greenstone belt (Potter and Mitchell, 2005). The western sub-complex of the Deadhorse Creek breccia contains a U-Be-Zr-rich main mineralized zone and a Zr-Y-Th-rich carbonate vein (Potter and Mitchell, 2005). Beryllium, thorium, uranium, first and second row transition elements and rare earth elements are enriched in the main mineralized zone (Potter and Mitchell, 2005). Table 2 presents a summary of the rock units present on the property.

Table 2. Geological summary of the rock units present at the Deadhorse Creek property (Pederson and Trueman, 1986)

Rock Unit	Description and sub-unites
1 Meta-volcanic and Meta-sedimentary Rocks (Called Schreiber-White River greenstone belt within the Wawa subprovince):	<p>1.1 Meta-volcanic rocks: Andesitic (likely grey color composed mainly of plagioclase with other minerals such as hornblende, pyroxene and biotite). Distinguished from meta-sedimentary rocks by darker color, greater hardness, and locally by evidence of flow-banding and preserved pillow structures, otherwise massive. Fine to medium grained.</p> <p>Some are re-crystallized to massive to layered amphibolite with weak foliation. Weathered surfaces are dark grey with occasional ribbed or vermicular weathering. Fresh surfaces are dark greenish-black, commonly with euhedral feldspar and minor disseminated pyrite.</p> <p>Northwest trending through the center of the property.</p>
	<p>1.2 Meta-sedimentary rocks: Composed of quartz-feldspar-biotite with chlorite alteration. Generally medium grey and fine-grained. Consists mostly of greywackes and schists. Can exhibit partially preserved bedding with moderate foliation where biotite commonly imparts weak lineation. Tend to be the predominant rock type, contacts with meta-volcanics are obscure, contacts with syenite are sharp and commonly brecciated.</p> <p>Occur in two separate belts bisected by meta-andesite and with plutonic syenitic rocks to the northeast and east.</p>
	<p>1.3 Stringers, blebs, filled fractures within above rocks: Numerous concordant quartz and quartz-carbonate. Locally common small white feldspathic prophyroblasts (large mineral crystal in a metamorphic rock which has grown within finer grained groundmass) stretched and aligned parallel to foliation. Quartz-filled tension fractures are proximal to diatremes (common to the west).</p>
2 Coldwell Complex (Syenites)- these intrude the meta sedimentary and volcanics.	<p>2.1 Massive, fine grained to medium-grained, light pink to grey. Composition and texture varies locally. Generally biotite-bearing alkali (potassium) feldspar syenodiorite (so some plagioclase) predominates. Quartz is rare, appearing only in minute blebs. Country rock xenoliths are common near contacts.</p>
	<p>2.2 Intrusions of Grey biotite-rich diorite (more plagioclase) or monzo-diorite (less plagioclase) which display schistosity may cross-cut meta-sedimentary rocks (originally seen in the east).</p>
	<p>2.3 Syenite (high alkaline feldspar) east-west trending dikes (1-5 m wide) also intrude meta-sedimentary rock as well. Feldspar porphyry has a light grey groundmass with 1-2 mm subhedral pinkish-grey to white feldspar phenocrysts. Accessory biotite is 1-10% and commonly defines vague lineation. Dikes do not appear to intrude Coldwell Complex but may be relate to Coldwell intrusion, perhaps late stage intrusive activity.</p>
3 Diatreme Breccia (30 m by 70 m to 350 m by 600 m) (red breccias)	<p>3.1 Red breccias (generally clast supported): Bright red angular clasts generally 0.30 m but can be 1.0 m. Rims are more intensely altered than centers. Could be due to hematite addition or K-feldspar introduction during metasomatism (chemical alteration of a rock by hydrothermal and other fluids).</p>

Rock Unit	Description and sub-unites
and carbonate-rich breccias) (A diatreme is a breccias filled volcanic pipe formed by a gaseous explosion).	3.2 Carbonate breccias (generally matrix supported): Clasts tend to show positive weathering relief compared to matrix. Matrix formed of interlocking mosaic of anhedral fine-grained calcite. Fragments depend on composition of surrounding country rock, can be polymictic
	3.3 Matrix: variable, generally dark, siliceous with local hematization, Random weathering relief likely reflects different levels of carbonate in matrix.
	3.4 Clasts (fragments): Angularity of fragments varies but in general suggests minimal transport. No composition origin other than country rock has been observed to date. There are alteration halos around some fragments. Hematization and silicification of both matrix and clasts is pervasive (red rusty colour).
	3.5 General: Abundant breccia dykes occur on margins or larger diatreme structures, a few centimeters to several meters wide. Contacts with country rock are obscure due to nature of fracture patterns. Limited diamond drilling indicates they are steeply dipping to vertical stockworks and narrow at depth. Hematized zones tend to be more radioactive and mineralized.
	3.6 <i>Deadhorse Creek breccias</i> : are located along Big Bay-Ashburton Fault. Significant U-Be-Zr mineralization lies in W. Western subcomplex, but not genetically related. Max dimensions (determined by overburden removal) ~ 130 m x40 m. The western complex is composed of three separate units: A. Unmineralized volcanoclastic breccia. B. Cross-cutting main U-Be-Zr mineralized zone (see 3.1 above). C. Carbonate dyke. (Fig on page p. 214, <i>Mineralogy of deadhorse creek volcanoclastic breccia complex...</i> Potter and Mitchell 2005). The unmineralized zone is metasomatically altered to a point where only K-feldspar, hematite, and quartz are preserved. The main U-Be-Zr mineralized zone is easily recognized by its chocolate-brown color and aphanitic-to-vitreous texture, which contrasts strongly with the leucocratic breccia. The mineralized zone is only 82 m long 1.5 m wide. The breccia complex was originally called a carbonatite due to carbonate dominance, but better referred to as a <i>carbothermal vein</i> Allan and Knox (July 1985) recognized fenites and vein mineralization in DHC with concentrations of thorite (radioactive, naturally brown/rusty colored). Breccias are heavily decorated with calcite, country rocks only show traces. Breccias with brick red clastic fragments and carbonate rich matrices contain high radioactive anomalies.
4 Mafic and felsic dykes (Lamprophyre)	4.1a Lamprophyre (alkaline silica-undersaturated, ultramafic rocks with high magnesium oxide, >3% potassium oxide, high sodium oxide) dikes: 1-5m wide, very fine-grained, weather to dark grey to black, all contain subhedral mafic phenocrysts 2-5mm (generally biotite). Generally trend north-northWest and east-West
	4.1b <i>McKellar Harbour (close to Ripple Lake) lamprophyres</i> (Platt et al, 1983) genetically related to Coldwell Complex. Generally less than 1m with predominant north-south strike. Intrude metasediments and volcanics, and cross-cut structural elements of Schriber/White River greenstone belt. Fine to medium grained, and when fresh they are dark grey-green. Weathered surfaces typically dull brown. Chilled margins rare. Small phlogopite phenocrysts, olivine phenocrysts and their pseudomorphs are readily apparent. Phlogopite can be a cm across. Also can contain: carbonate, spinel, apatite, perovskite, andradite (garnet), and melilite. Zirconium-rich titanium garnets also observed

Rock Unit	Description and sub-unites
	<p>4.2a Trachytic diabase dykes: Dark greenish grey with fine grained groundmass. Generally east-West trending and cross cut country rocks and diatreme breccias. White tabular plagioclase phenocryst grains 0.5 to 2 cm comprise up to 40% of rock and have subparallel alignment. Non-radioactive.</p> <p>4.2b <i>Marathon dykes</i> (might not extend into DHC, or may be same as 4.2a): Quartz tholeiites with equigranular to subophitic clinopyroxenes and plagioclase in near equal proportions. Also with amphibole, magnetite, myrmekite, quartz, biotite, and apatite in order of decreasing abundance.</p> <p>Plagioclase is variably altered to saussurite, and clinopyroxene to swollen aggregates. Pyroxene is locally rimmed by green amphibole especially in proximity to myrmekite development. Zircon and baddeleyite (zirconium oxide) with pleochroic halos can occur in coarse-grained interiors, particularly in the amphibole but also the biotite. (Buchan et al. 1996)</p> <p>4.3 Aphanitic dykes: Light pinkish-brown, cross cut diatremes. Homogeneous and commonly contain diatreme fragments</p>
<p>5 Carbonatites</p>	<p>5.1 Commonly associated with alkali complexes such as Coldwell Complex. Occur as sills, dikes and small plugs and may not be associated with other alkaline rocks. Elevated concentrations of pyrochlore, apatite, REE, magnetite, fluorite, calcite, bornite, chalcopryrite and vermiculite may be found.</p> <p>5.2 Host rocks may include: calcite carbonatite (sovite), dolomite carbonatite (beforsite), ferroan or ankeritic calcite-rich carbonatite (ferrocarbonatite), magnetite-olivine-apatite+/- phlogopite rock, nephelinite, syenite, pyroxenite, peridotite, and phonolite.</p> <p>5.3 Elliptical cross-sections can be up to 3-4 km in diameter. Magmatic mineralization is commonly found in crescent-shaped and steeply dipping zones. Metasomatic mineralization occurs as irregular forms or veins. Residual and other weathering-related deposits are controlled by topography, depth of weathering and drainage development.</p> <p>5.4 REE minerals form pockets and fill fractures within ferrocarbonatite bodies. Pyrochlore is disseminated; apatite can be disseminated to semi-massive; bastnaesite occurs as disseminated to patchy accumulations, fluorite forms veins and masses; hematite is semi-massive disseminations; chalcopryrite and bornite are found in veinlets.</p> <p>5.5 Mineralization: REE and beryllium mineralization seemed to be associated with uranium and thorium-bearing minerals, and thus highest scintillometer readings. All mineralization is associated with diatreme structures, especially with red oxidized, hematitic breccia.</p> <p>The main ore bearing minerals are thorite, Ce-bearing monazite and xenotime. Gangue minerals (calcite, ankerite, dolomite, quartz, feldspar). Chrichtonite and niobium-vanadium bearing rutile is also found. KM23 mineralization seems to be associated with brecciated syenite and not all that dissimilar to diatremes in DHC claim.</p>

10 Mineralization

Rare earth mineralization on the property appears to be associated with areas containing the red breccia unit. Minerals identified by Potter and Mitchell (2005) on the property includes albite, potassium feldspar, quartz, calcite, apatite, phenakite, aegirine-jervisite, aegirine-natalyite, allanite, barite, barylite, coffinite, Ca-Mn-silicate, magnetite, monazite-(Ce), niobian vanadium rutile, pyrite, thorite, thoro-gummite, thortveitite, uraninite, vanadium crichtonite, xenotime-(Y), ankerite-dolomite and zircon.

11 Prospecting

Prospecting occurred on the property between May 19, 2011 and July 28, 2011. Prospecting focused on areas that had a high radiometric signature, as delineated from available radiometric maps and from results from the hand-held spectrometers (Geophysics). Prospecting was carried out based on access via several old roads leading into the property, and on constructed grids. The prospecting grids were also walked with the hand-held radiometric spectrometers. Figure 3 and Figure 4 show the location of the prospecting and spectrometer grids. The first grids surveyed contained 100 m by 100 m and varied in area. Tighter grids with 50 m by 50 m spacing were superimposed over the original grids to fill in gaps in the data. Figure 5 is a 1:20,000 scale index map of the completed geological prospecting maps and Figure 6, Figure 7, Figure 8, Figure 9, Figure 10, Figure 11, Figure 12, Figure 13, Figure 14, Figure 15, and Figure 16 are individual 1:5,000 scale prospecting maps of individual claim blocks. Select claim blocks have been split into multiple maps in order to maintain a 1:5,000 scale. Figure 17, Figure 18, Figure 19, Figure 20, Figure 21, Figure 22, and Figure 23 are maps of rock samples collected on the property. Figure 24, Figure 25, Figure 26, Figure 27, Figure 28, Figure 29, Figure 30, Figure 31, Figure 32, Figure 33, and Figure 34 are maps of outcrops identified on the property.

Table 3 contains sample IDs, assay numbers, locations, descriptions, daily logs and grid references for rock samples collected while prospecting on the Deadhorse Creek Property. A total of X samples were collected, of which Y were submitted for assay. Table 4 contains outcrop descriptions, locations and a daily log of rock showings that were encountered during prospecting.

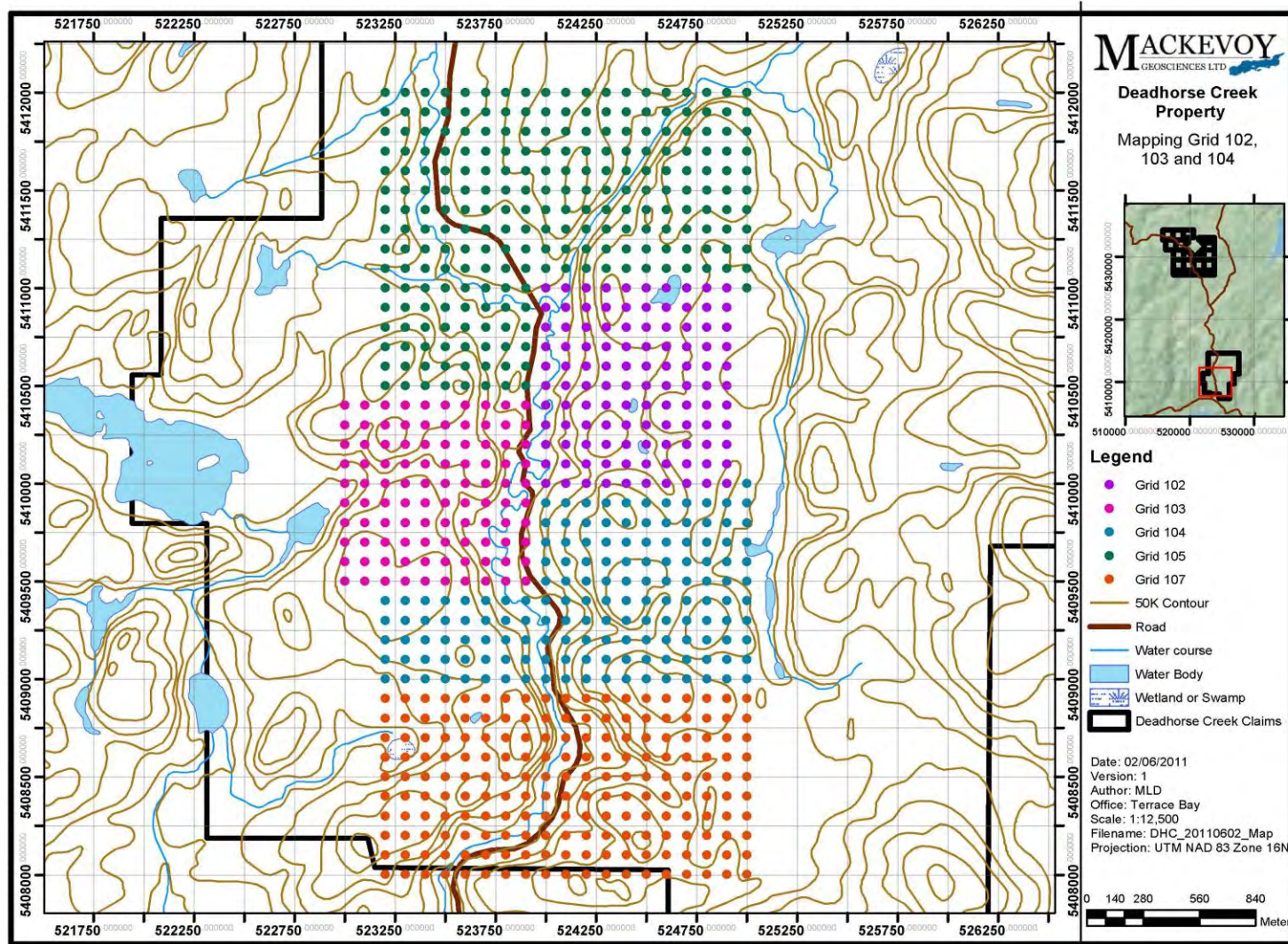


Figure 3. Location map of some of the larger prospecting/radiometric grids on the Deadhorse Creek Property.

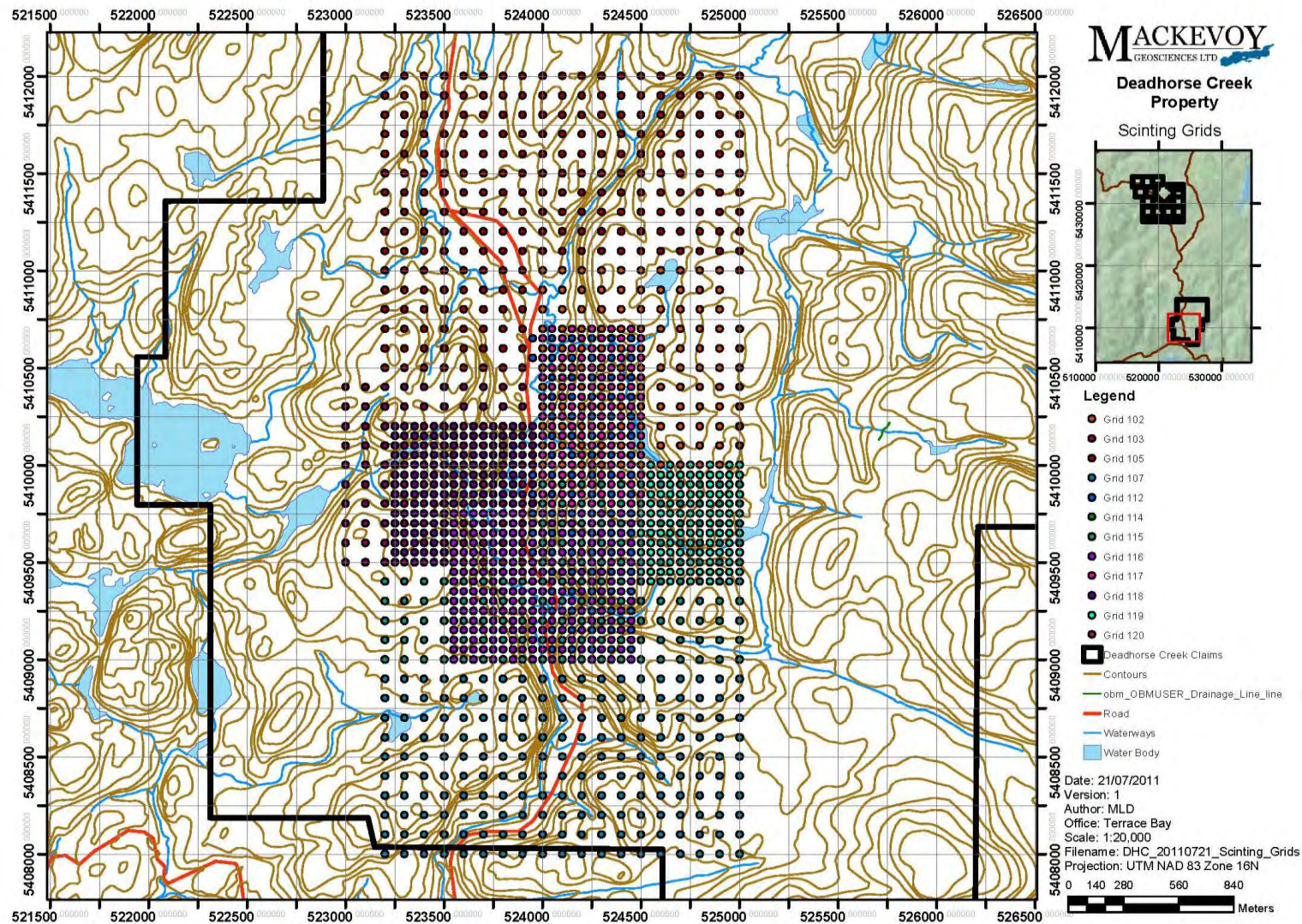


Figure 4. Index map of prospecting and geophysics grids on Deadhorse Creek. Not all grids were completed due to difficulty with access.

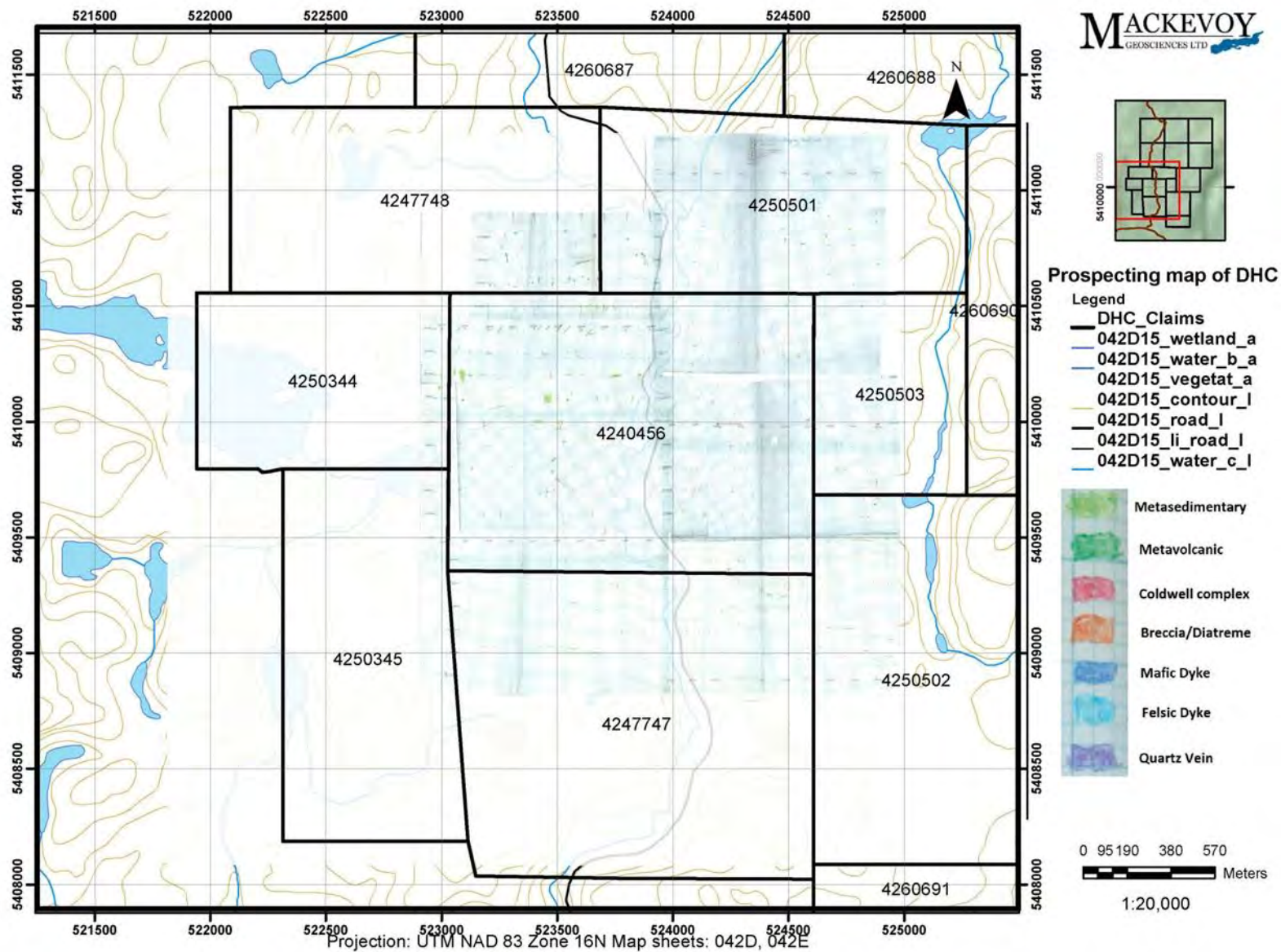


Figure 5. Index map of prospecting mapping.

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Deadhorse Creek Property

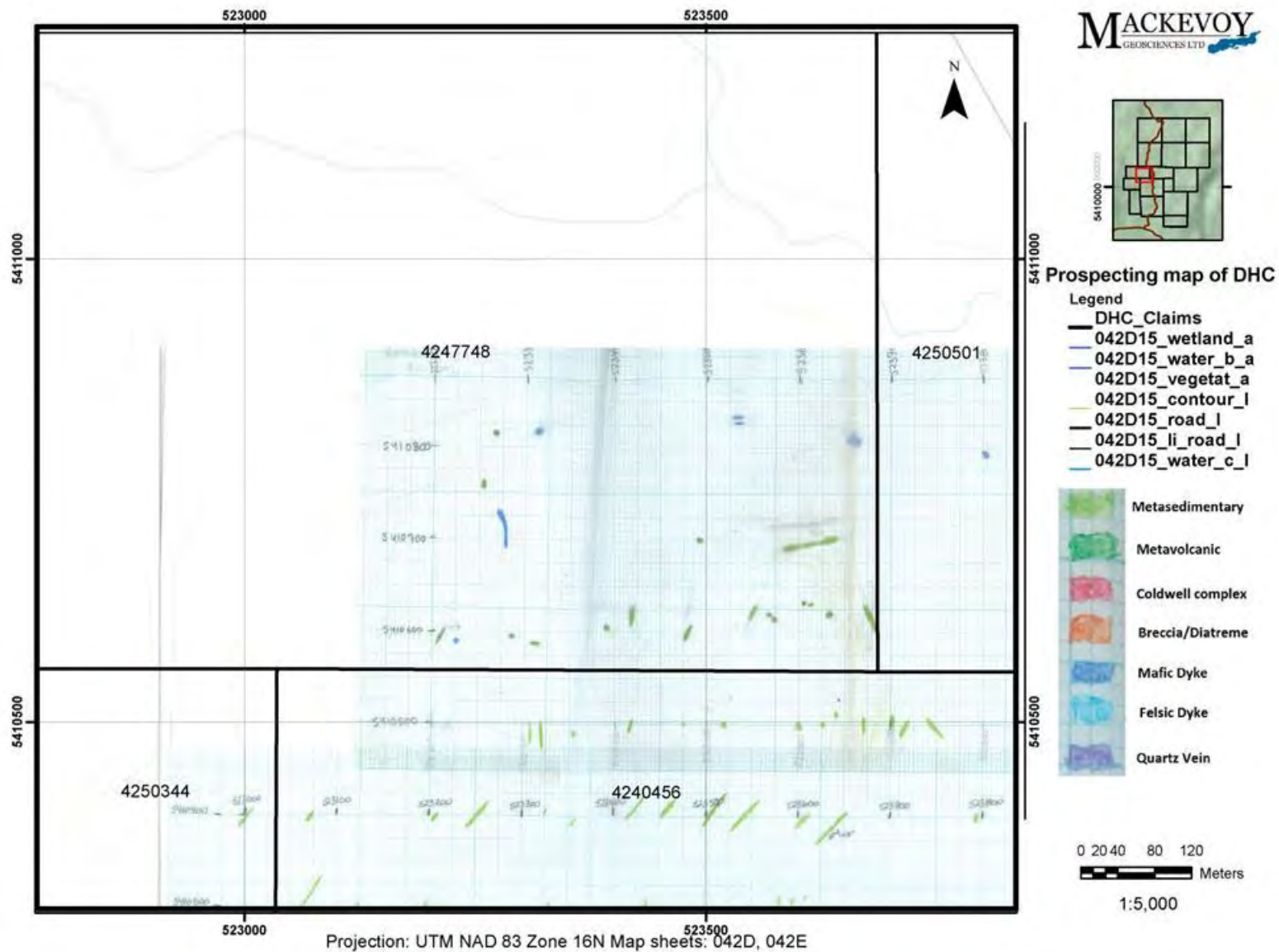


Figure 6. Prospecting map of claim block 4247748.

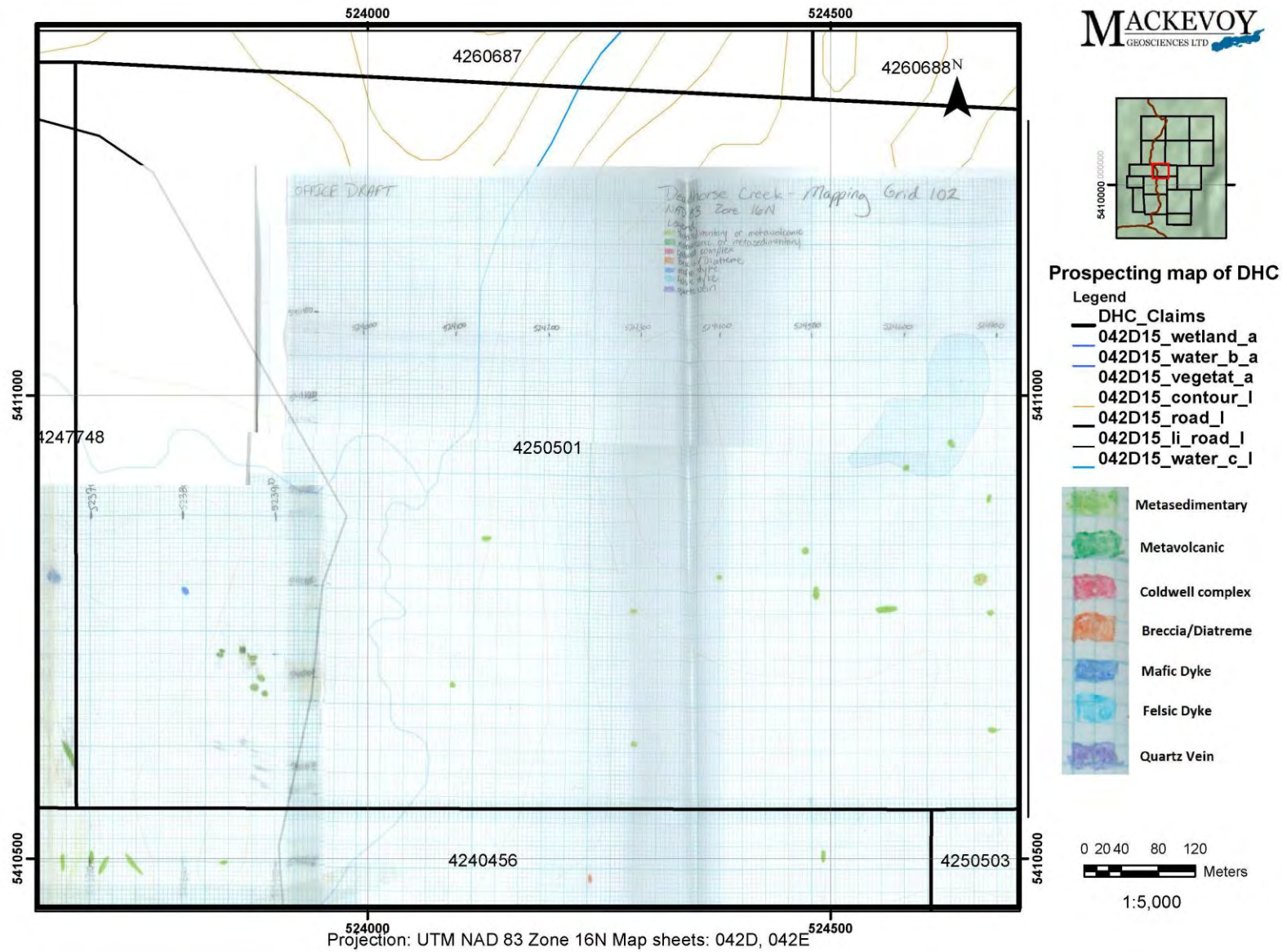


Figure 7. Prospecting map of claim block 4250501 (1 of 2).

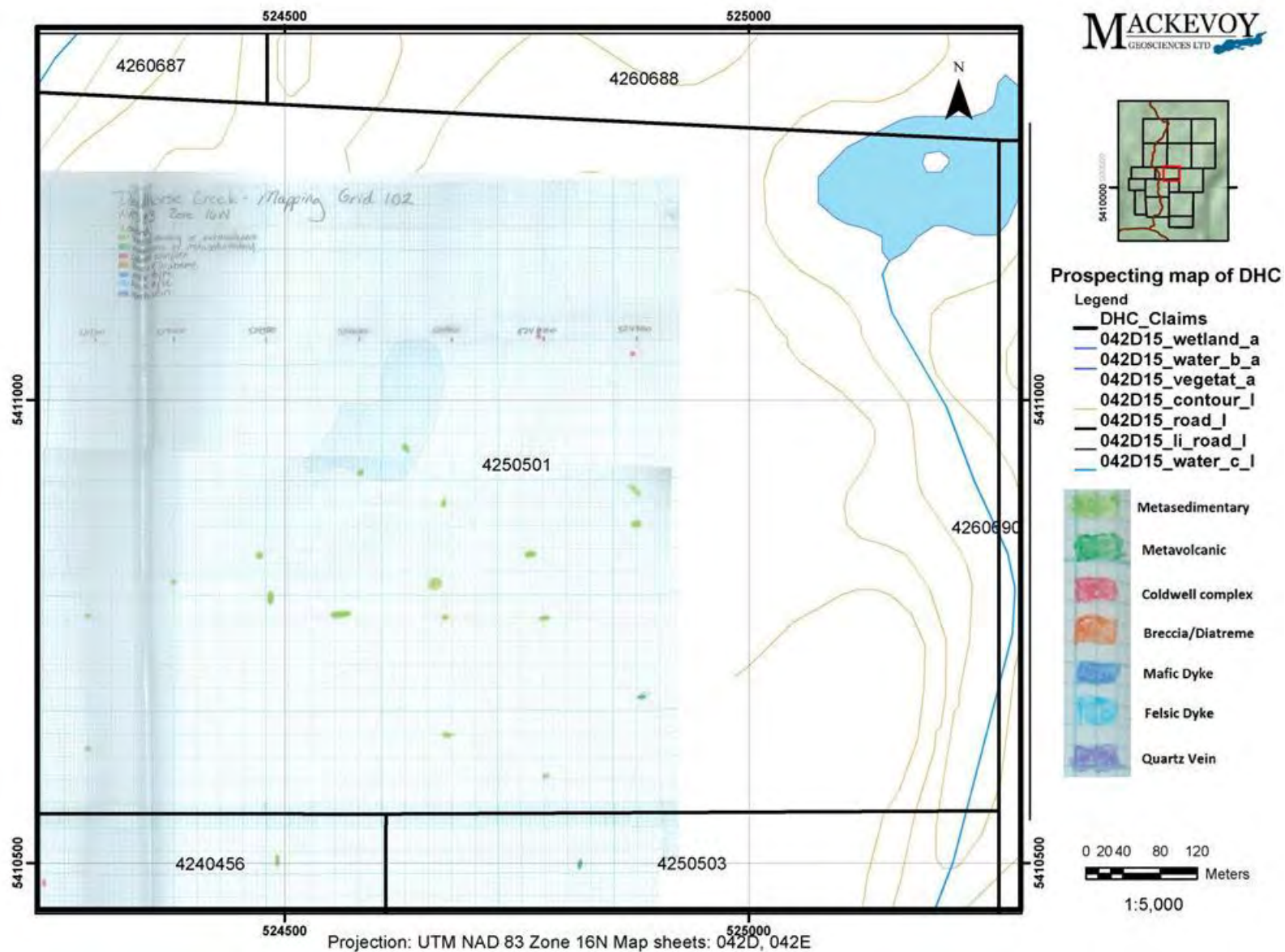


Figure 8. Prospecting map of claim block 4250501 (2 of 2).

Mackevoy Geosciences Ltd. 2011

Deadhorse Creek Property

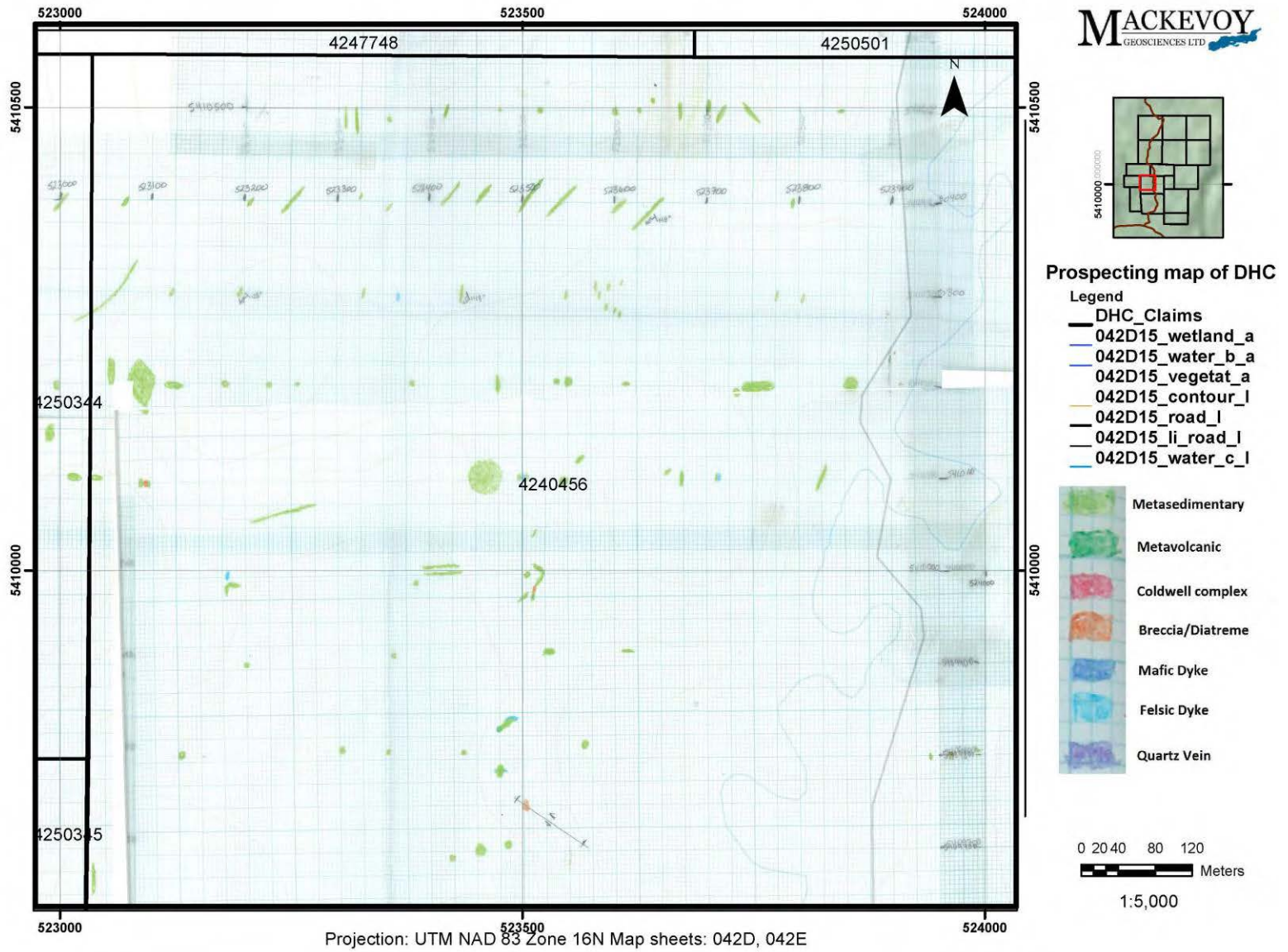


Figure 9. Prospecting map of claim block 4240456 (1 of 4).

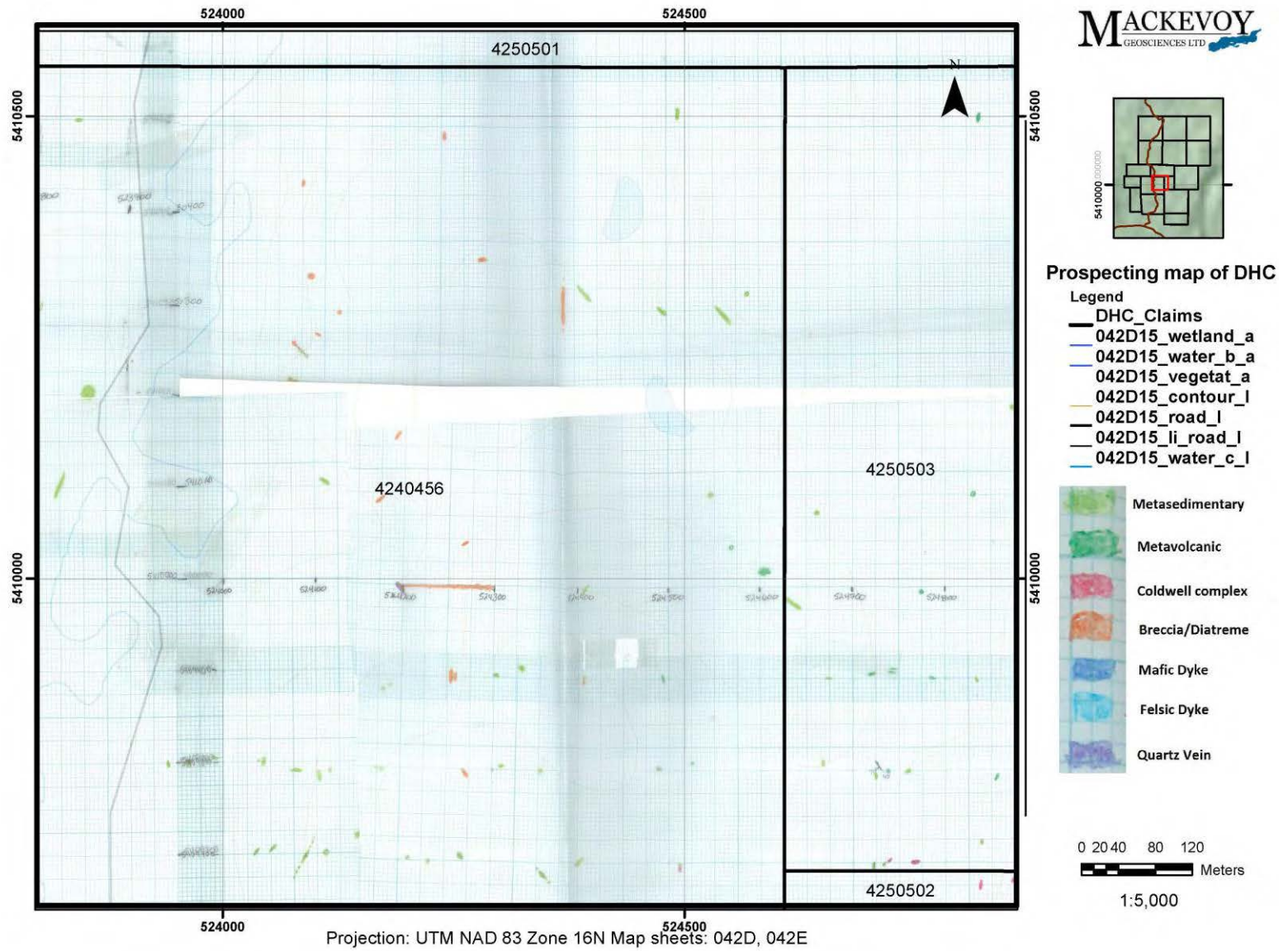


Figure 10. Prospecting map of claim block 4240456 (2 of 4).

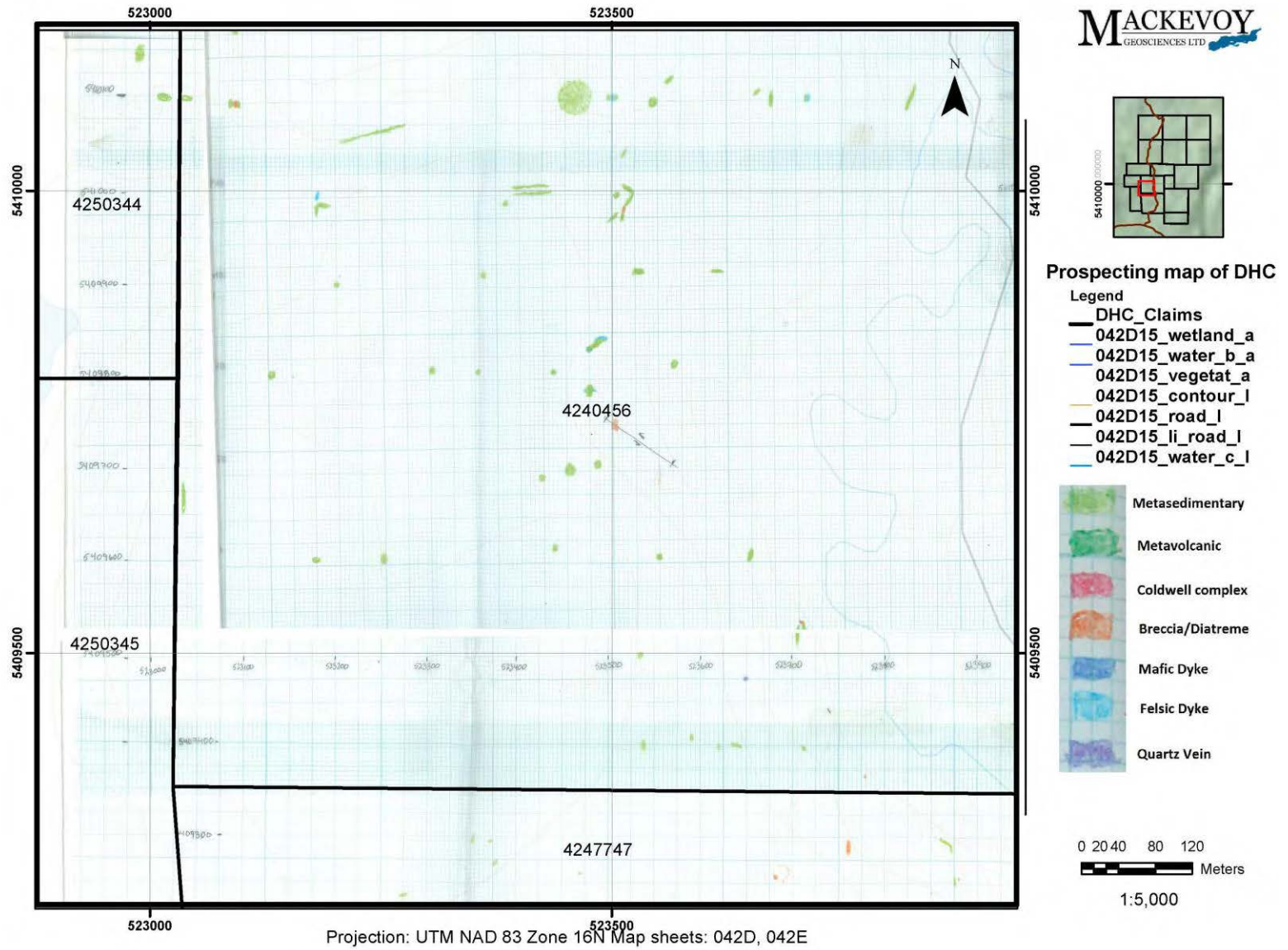


Figure 11. Prospecting map of claim block 4240456 (3 of 4).

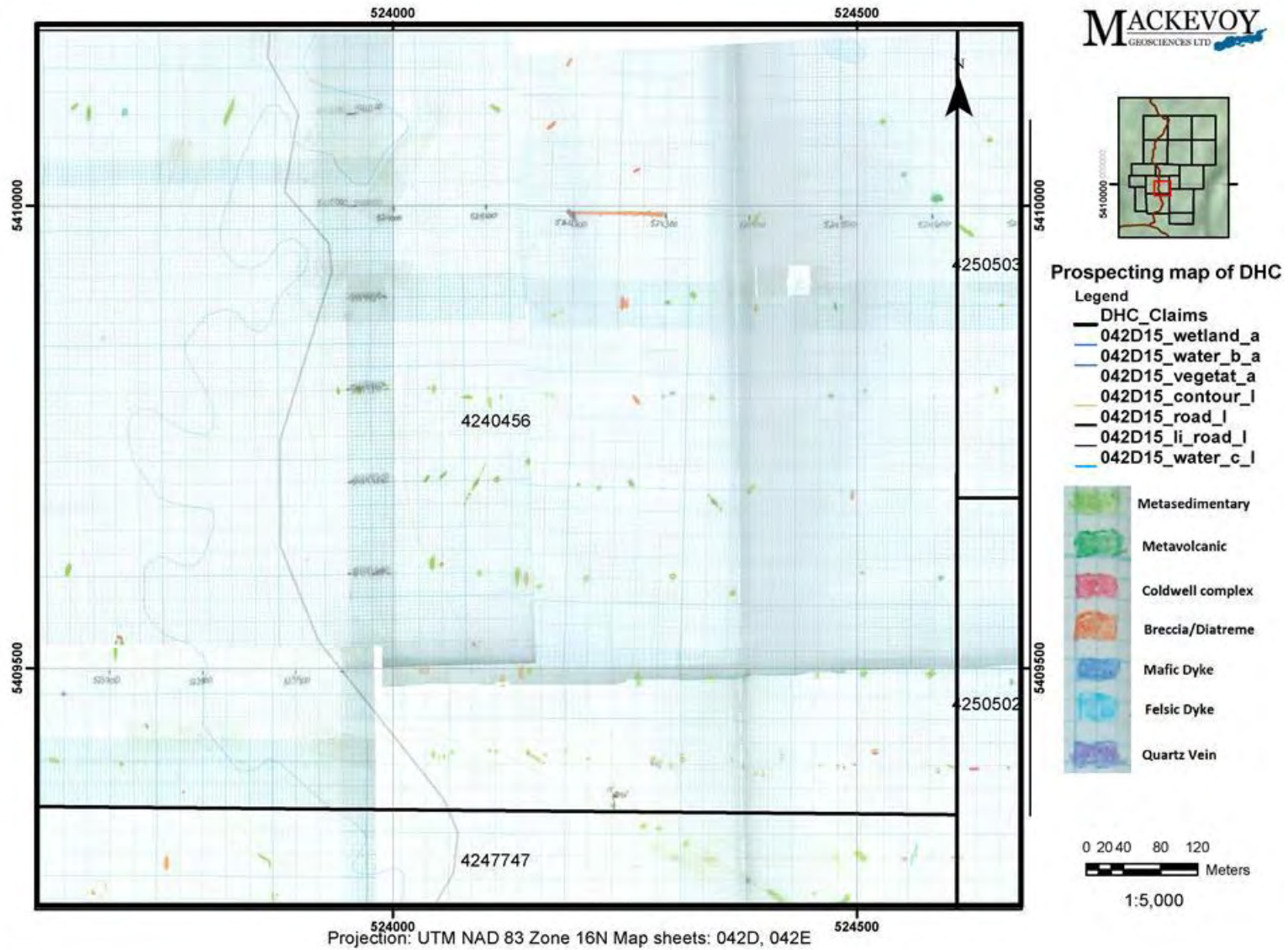


Figure 12. Prospecting map of claim block 4240456 (4 of 4).

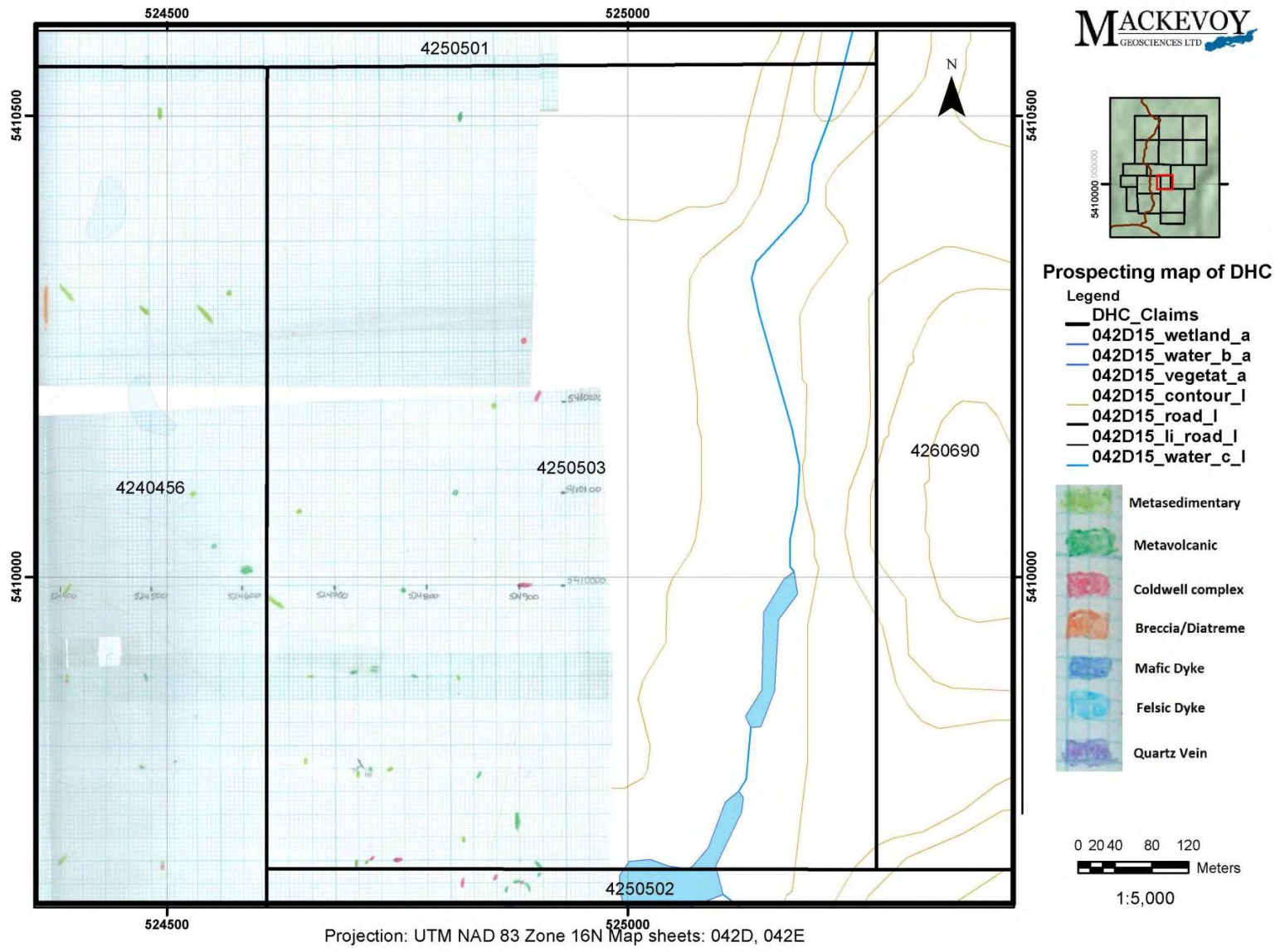


Figure 13. Prospecting map of claim block 4250503.

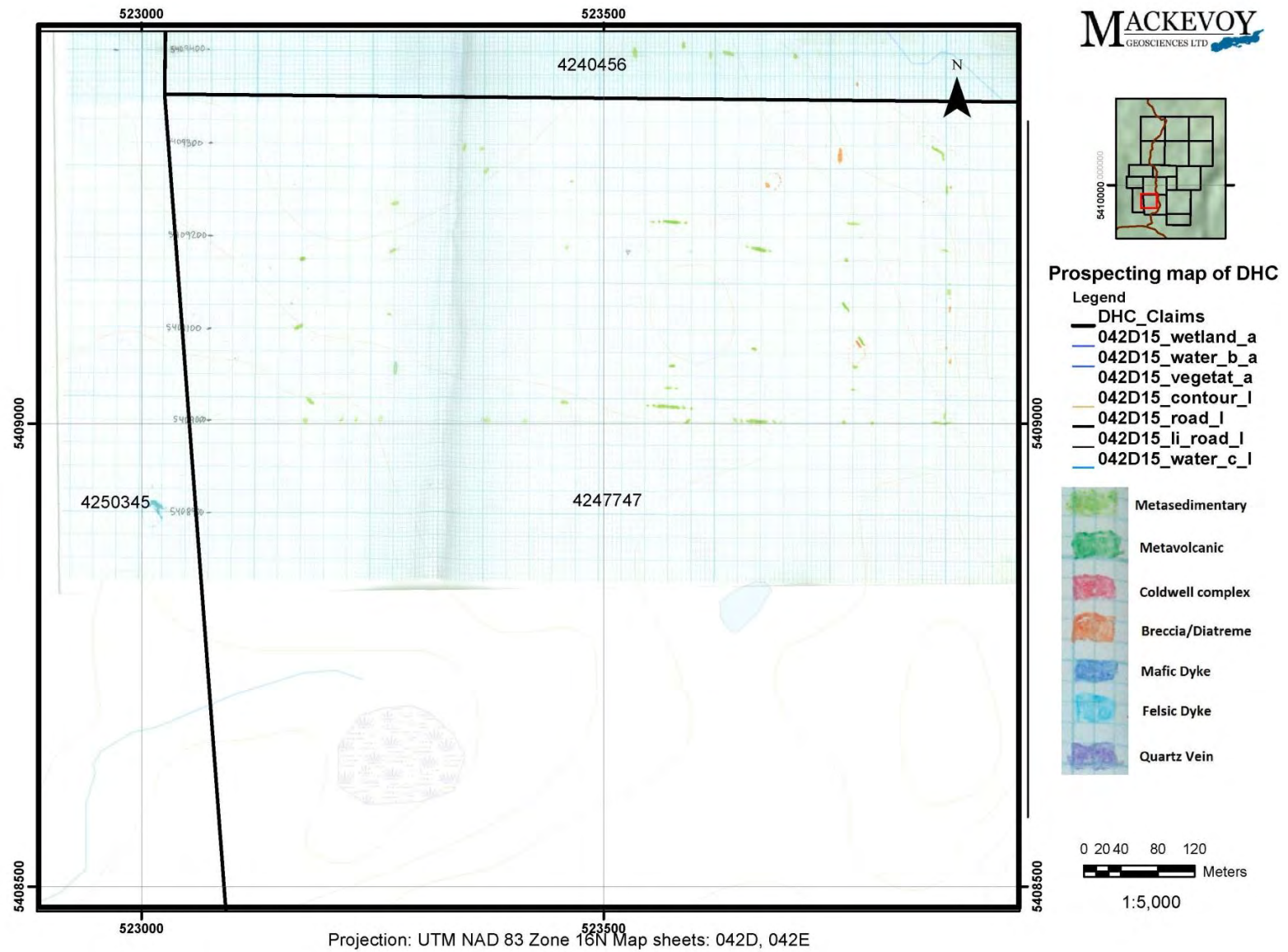


Figure 14. Prospecting map of claim block 4247747 (part 1 of 2).

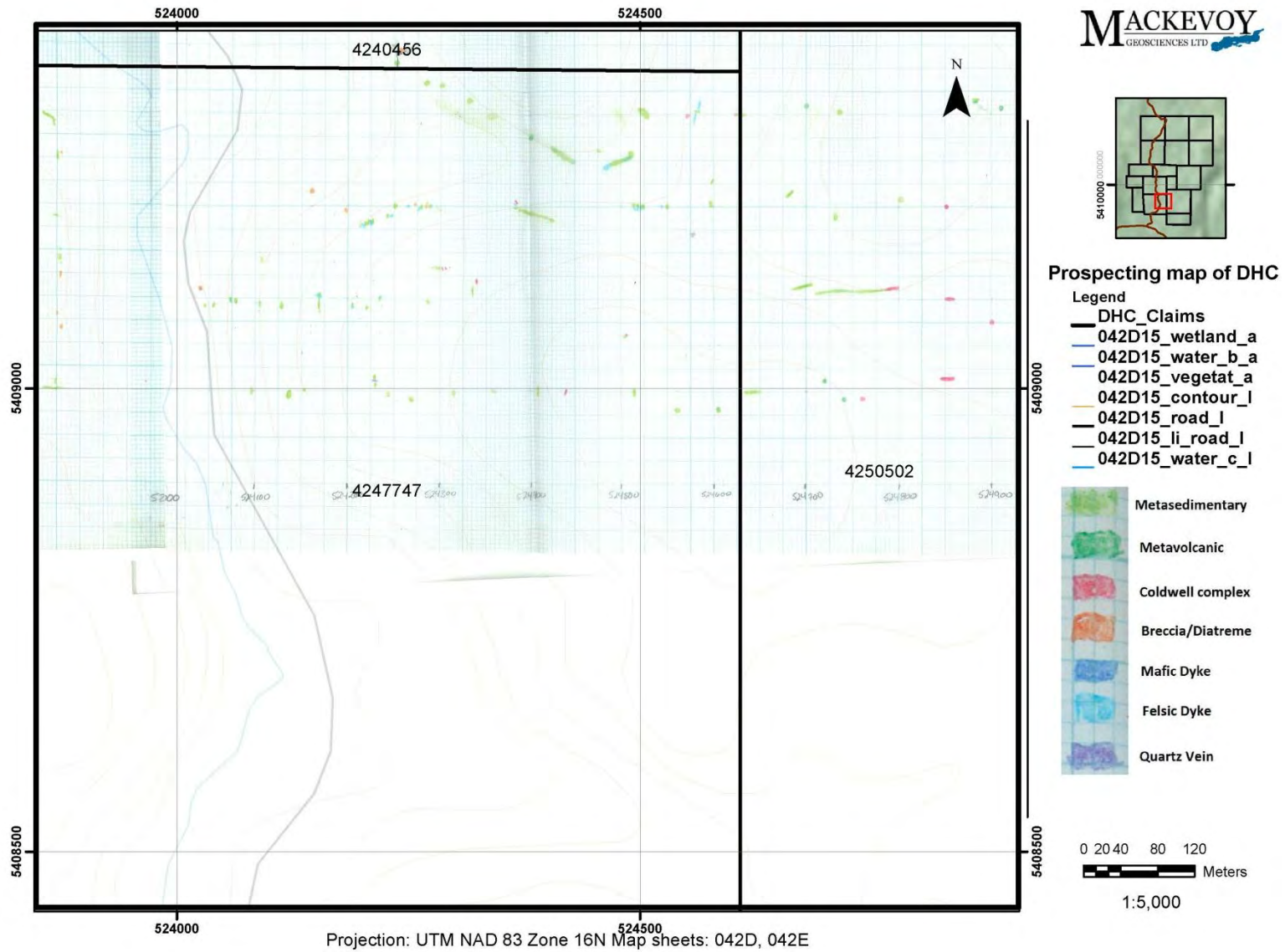


Figure 15. Prospecting map of claim block 4247747 (part 2 of 2).

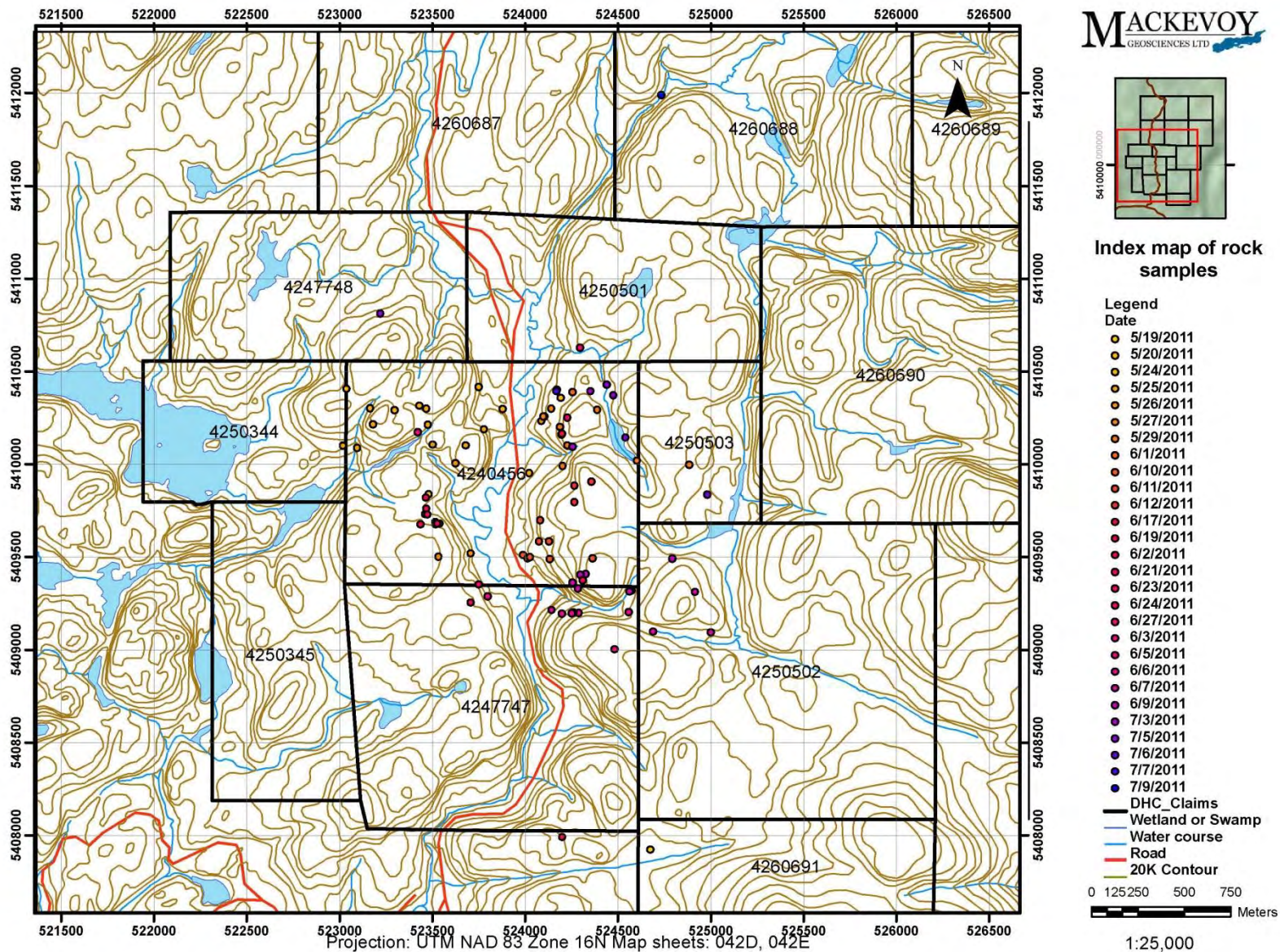


Figure 17. 1:25,000 index map of rock samples collected from the Deadhorse Creek Property.

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Deadhorse Creek Property

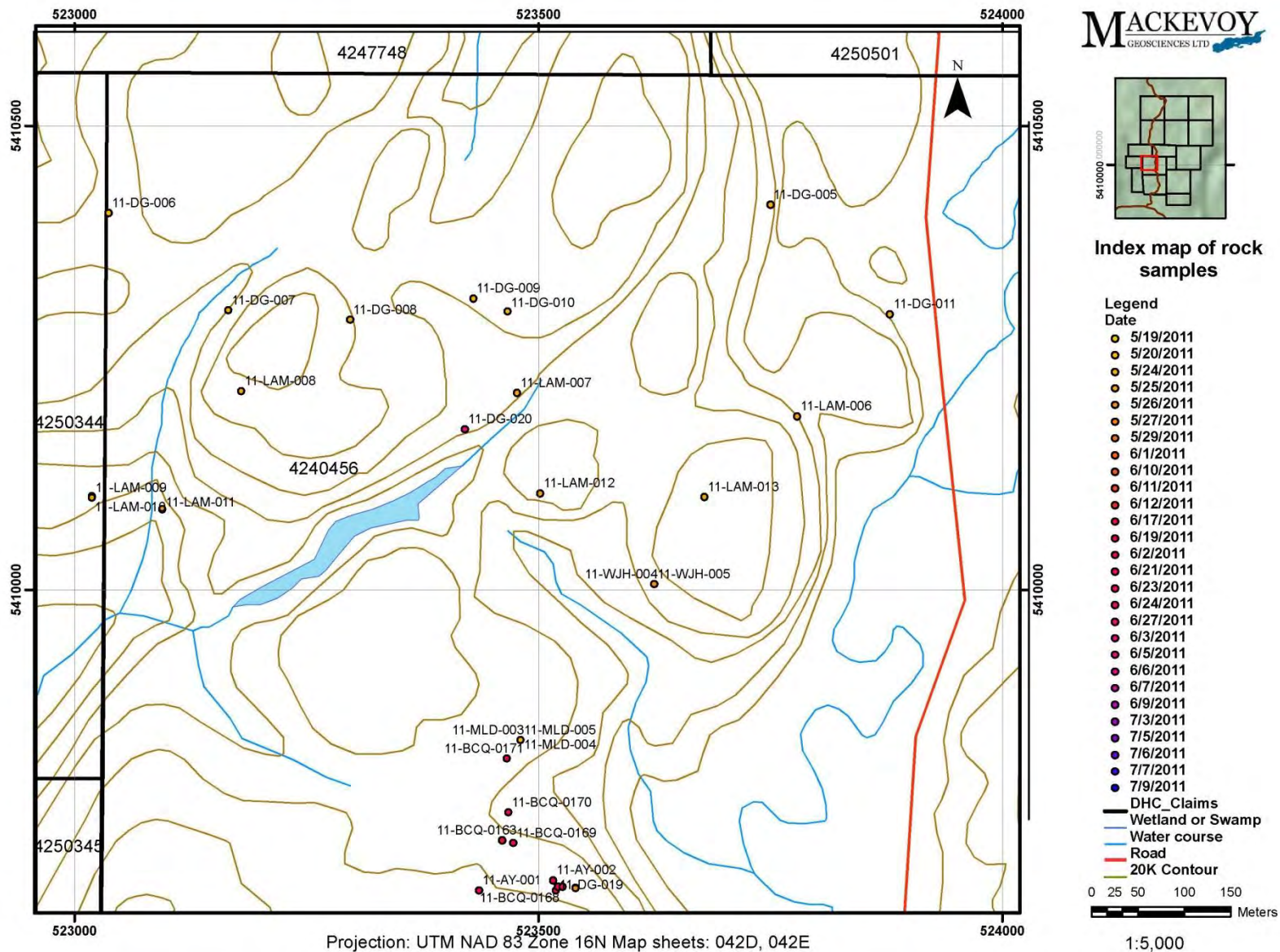


Figure 18. Rock samples collected from claim block 4240456 (1 of 4).

Mackevoy Geosciences Ltd. 2011
 Deadhorse Creek Property

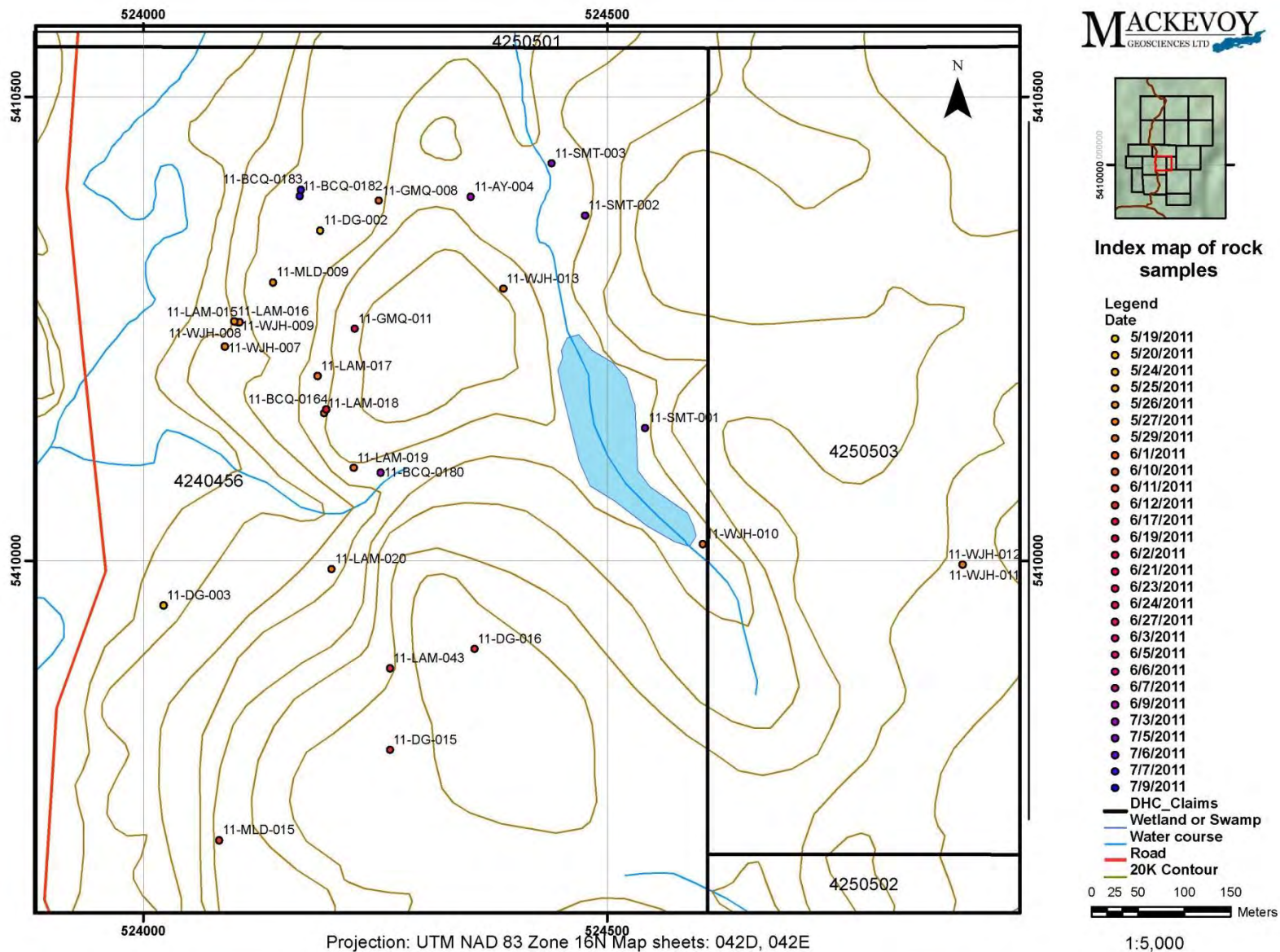


Figure 19. Rock samples collected from claim block 4240456 (2 of 4).

Mackevoy Geosciences Ltd. 2011
 Deadhorse Creek Property

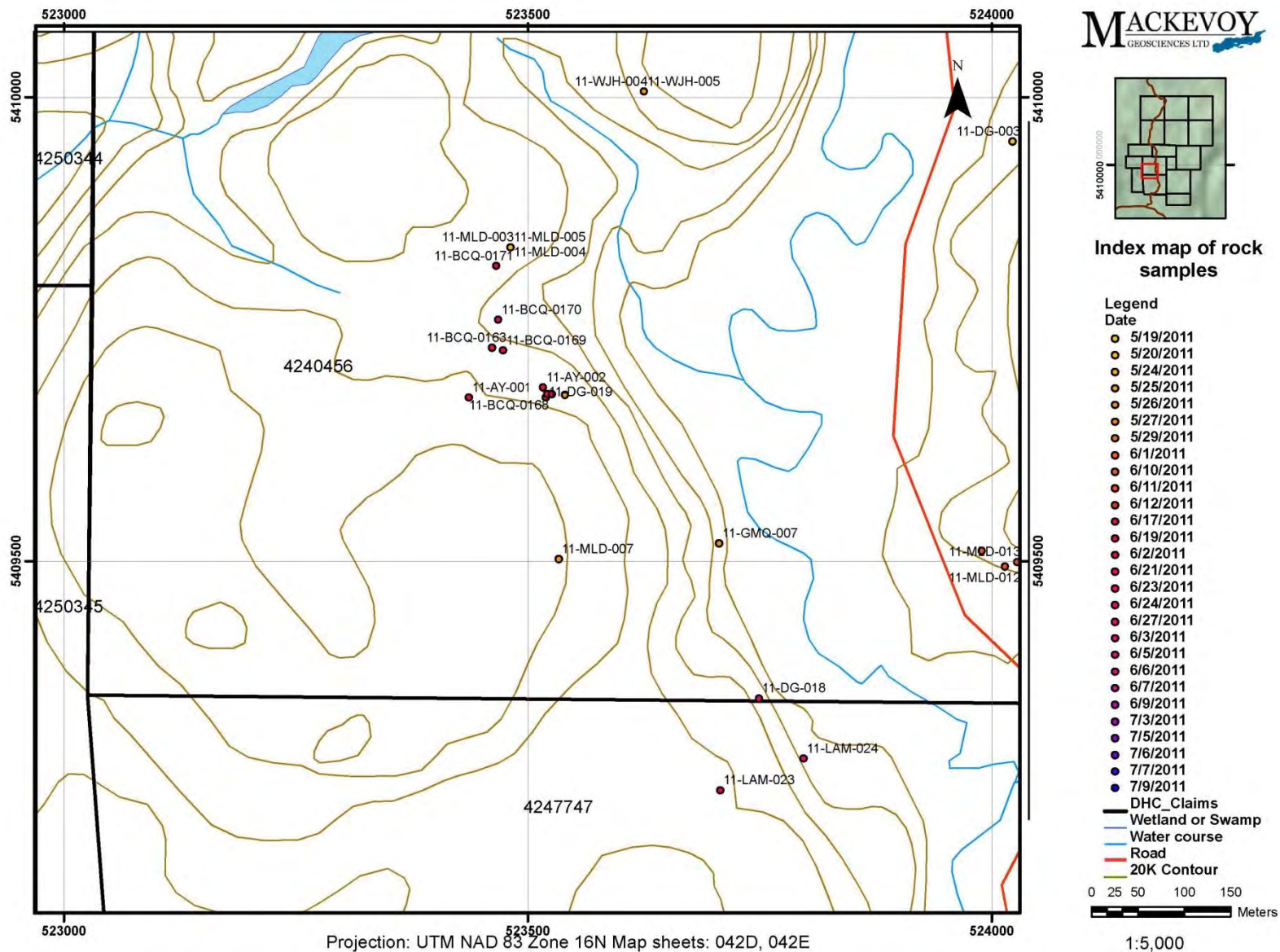


Figure 20. Rock samples collected from claim block 4240456 (3 of 4).

Mackevoy Geosciences Ltd. 2011
 Deadhorse Creek Property

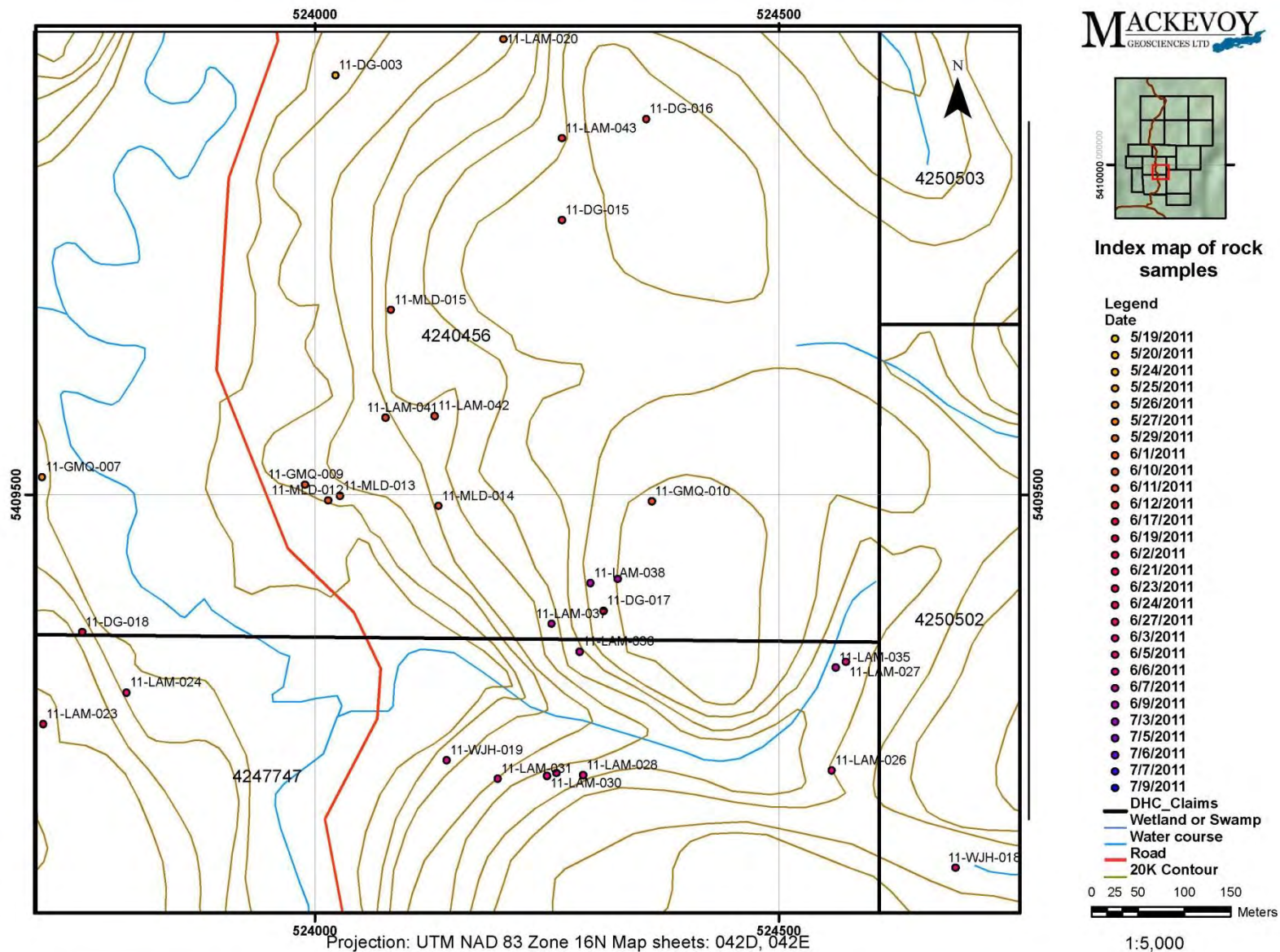


Figure 21. Rock samples collected from claim block 4240456 (4 of 4).

Mackevoy Geosciences Ltd. 2011
Deadhorse Creek Property

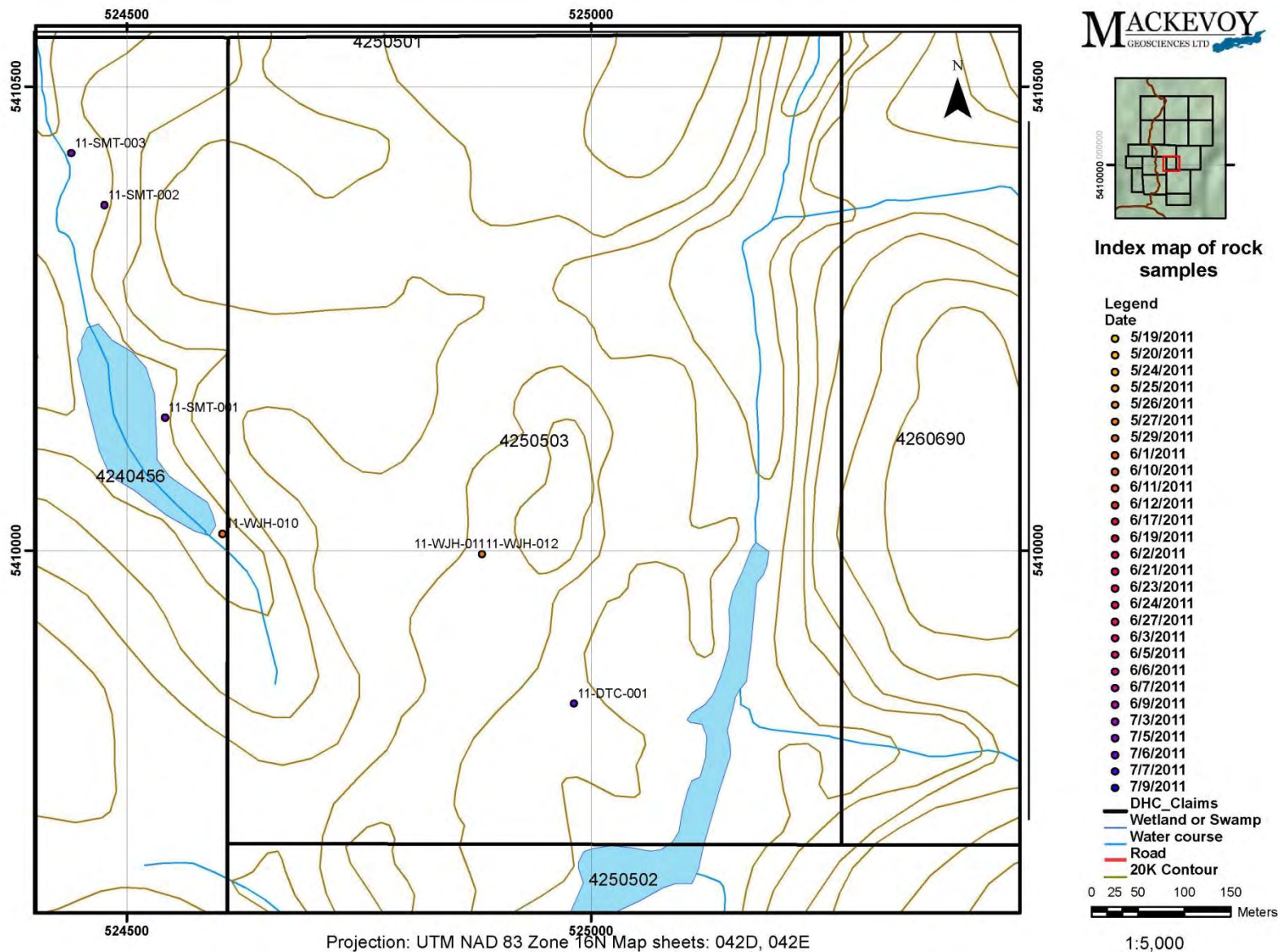


Figure 22. Rock samples collected from claim block 4250503.

Mackevoy Geosciences Ltd. 2011

Deadhorse Creek Property

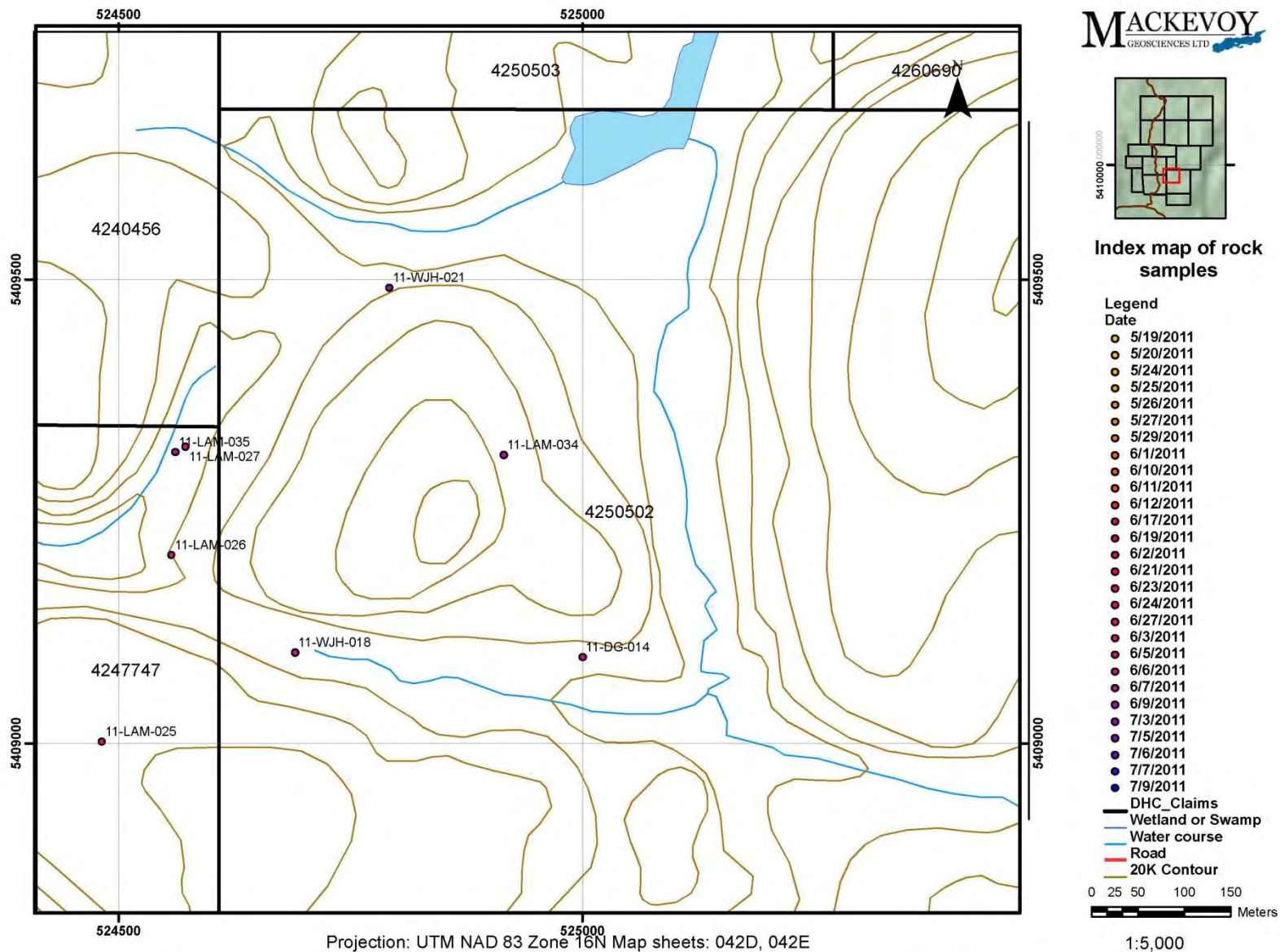


Figure 23. Rock samples collected from claim block 4250502.

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Deadhorse Creek Property

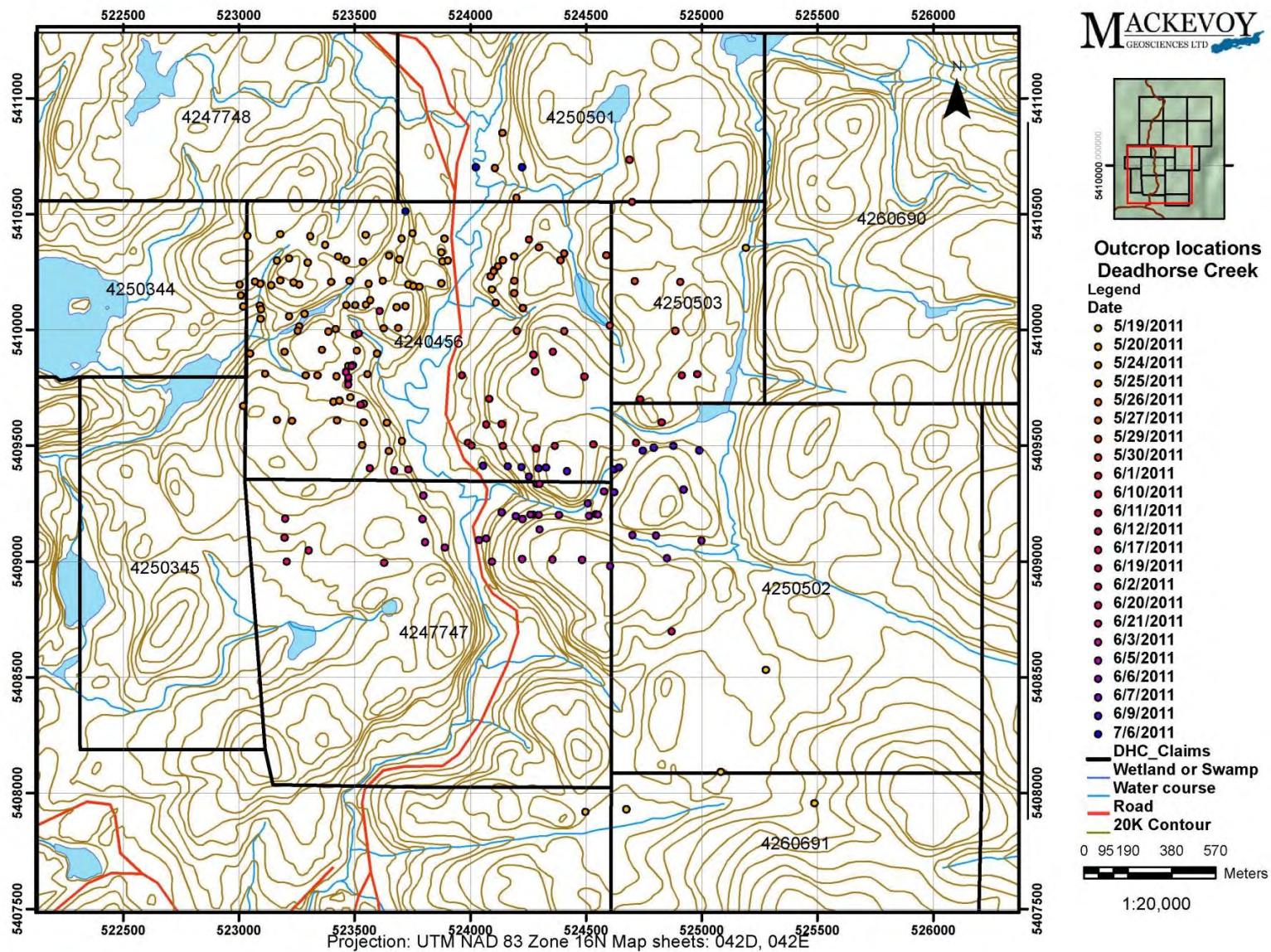


Figure 24. Index map of outcrops encountered while prospecting.

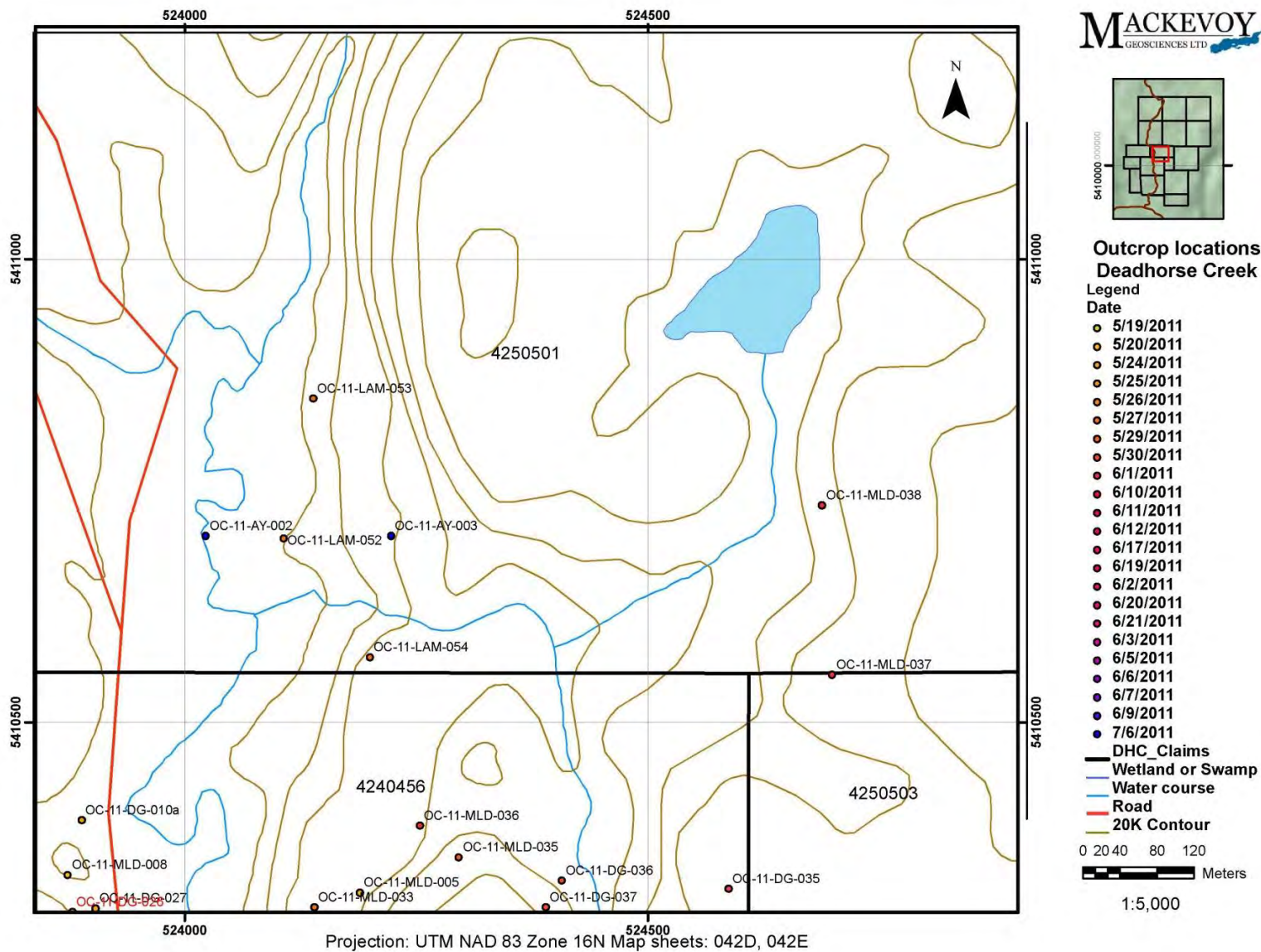


Figure 25. Outcrop map of claim block 4250501.

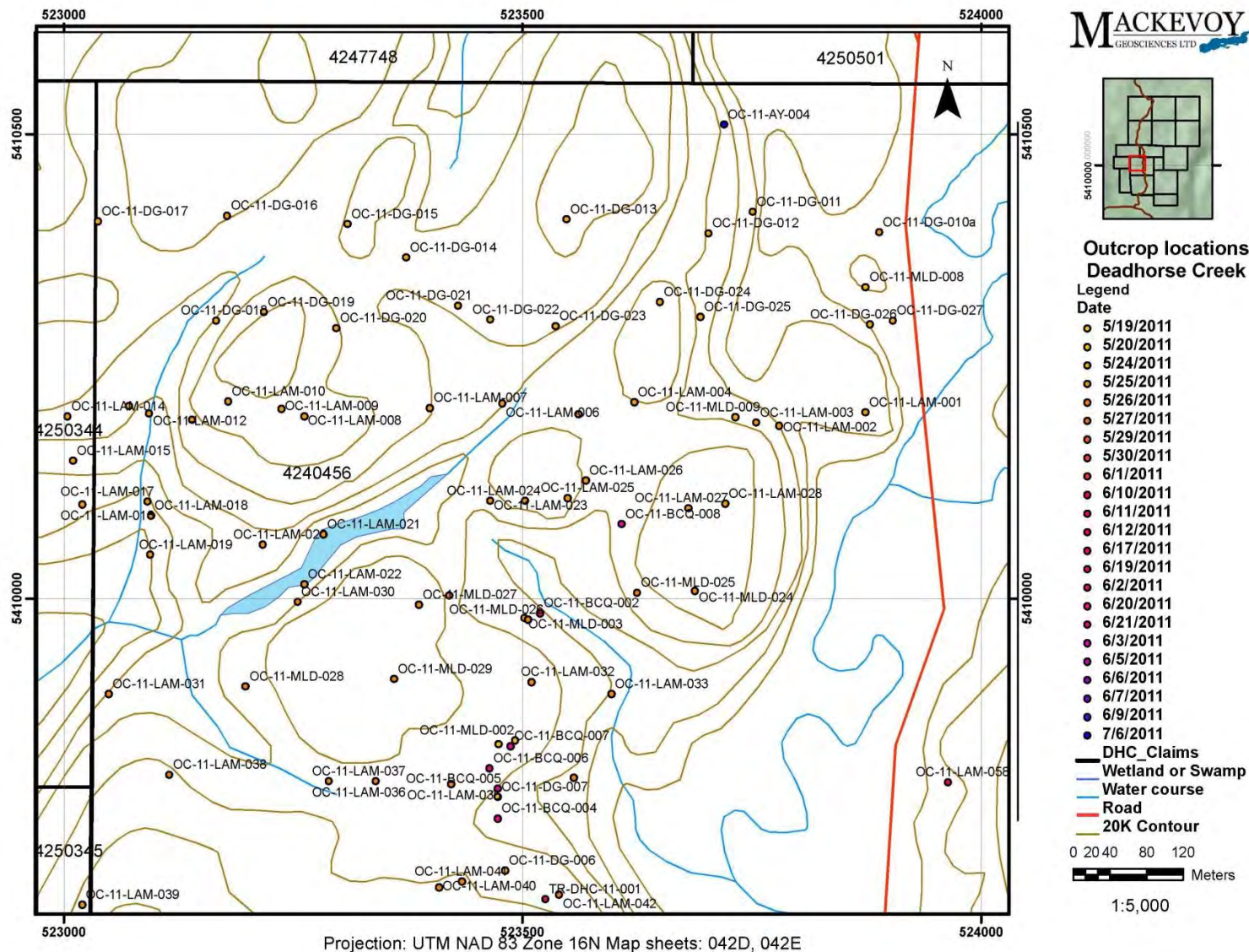


Figure 26. Outcrop map of claim block 4240456 (part 1 of 4).

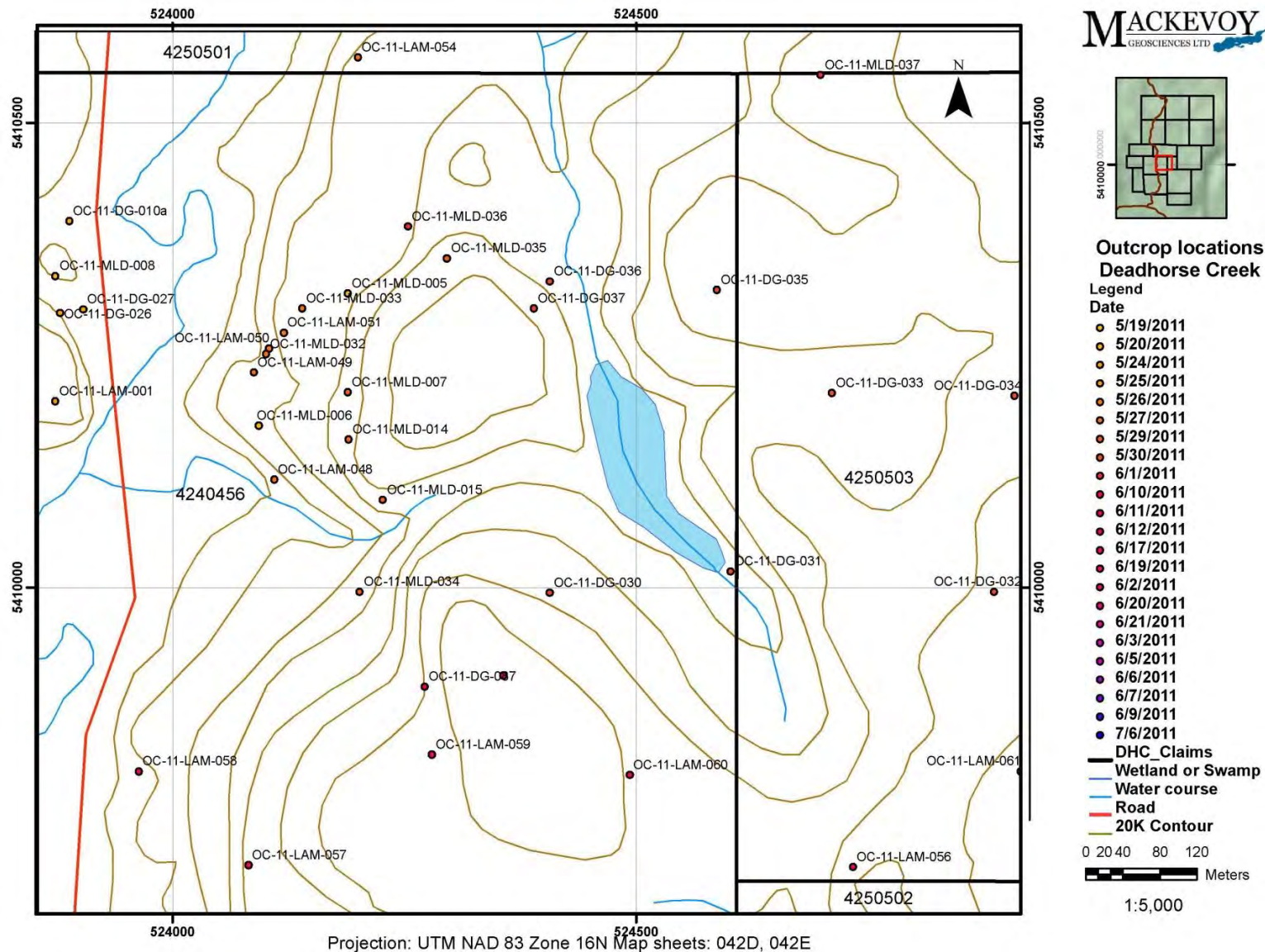


Figure 27. Outcrop map of claim block 4240456 (part 2 of 4).

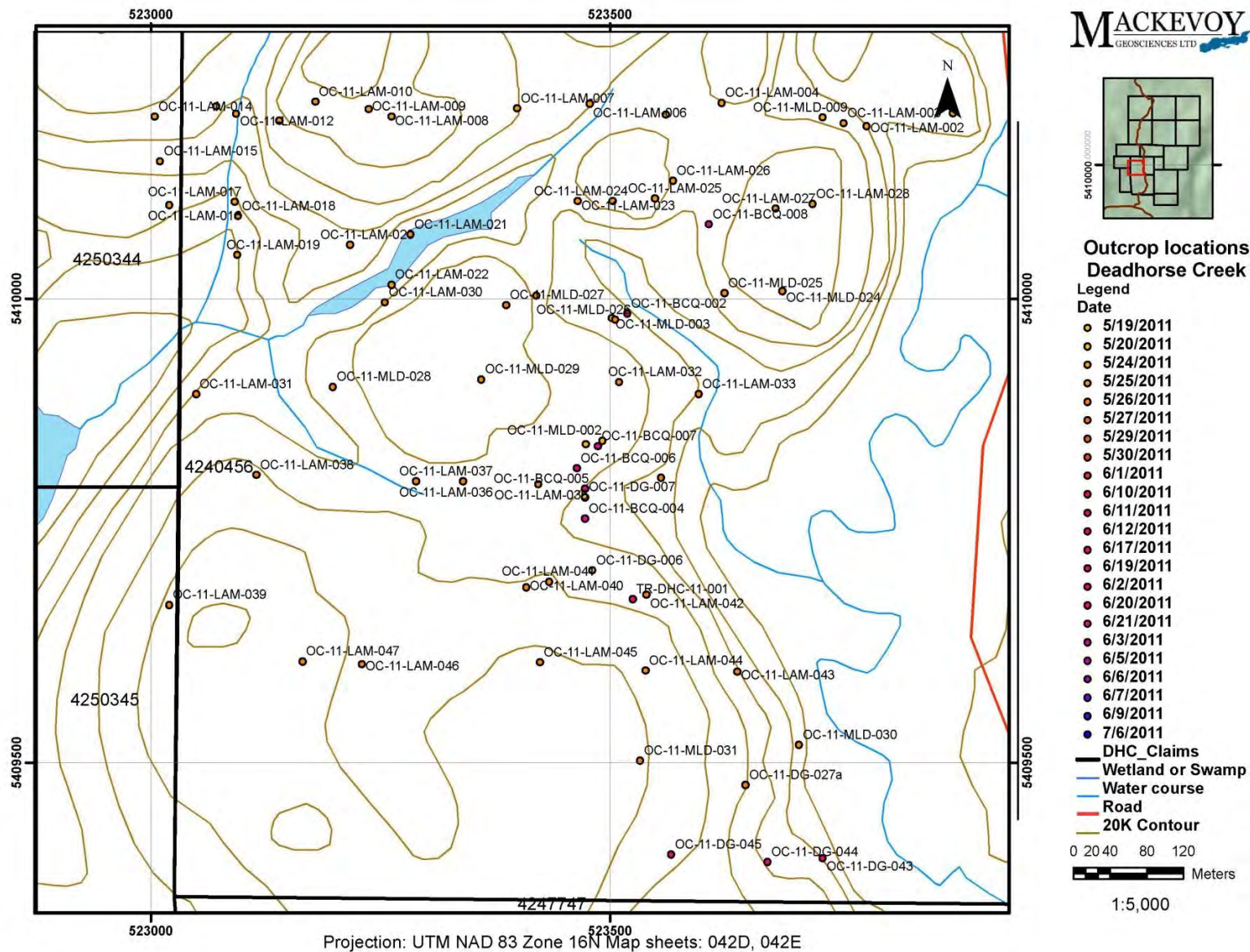


Figure 28. Outcrop map of claim block 4240456 (part 3 of 4).

Mackevoy Geosciences Ltd. 2011

Deadhorse Creek Property

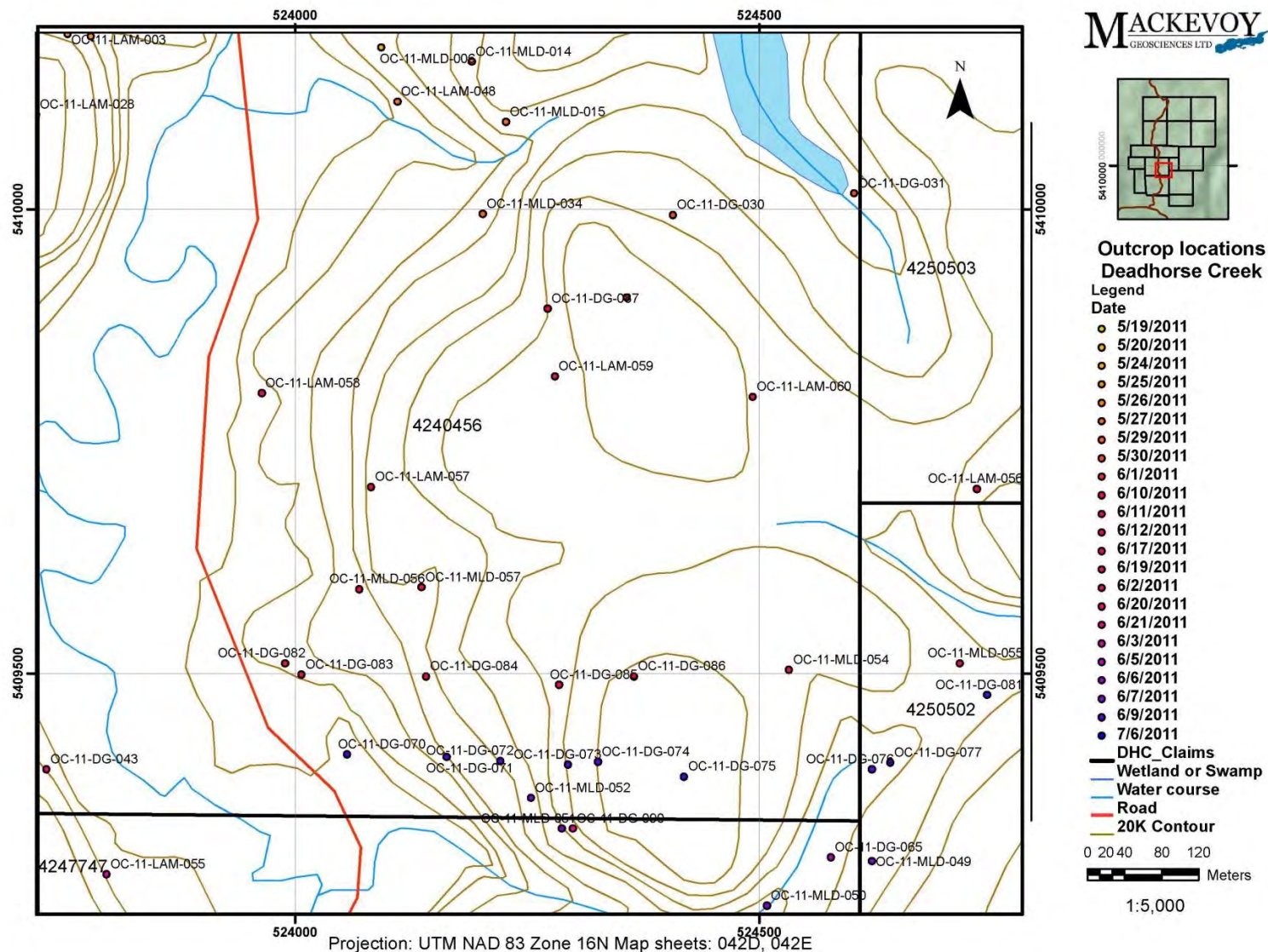


Figure 29. Outcrop map of claim block 4240456 (part 4 of 4.)

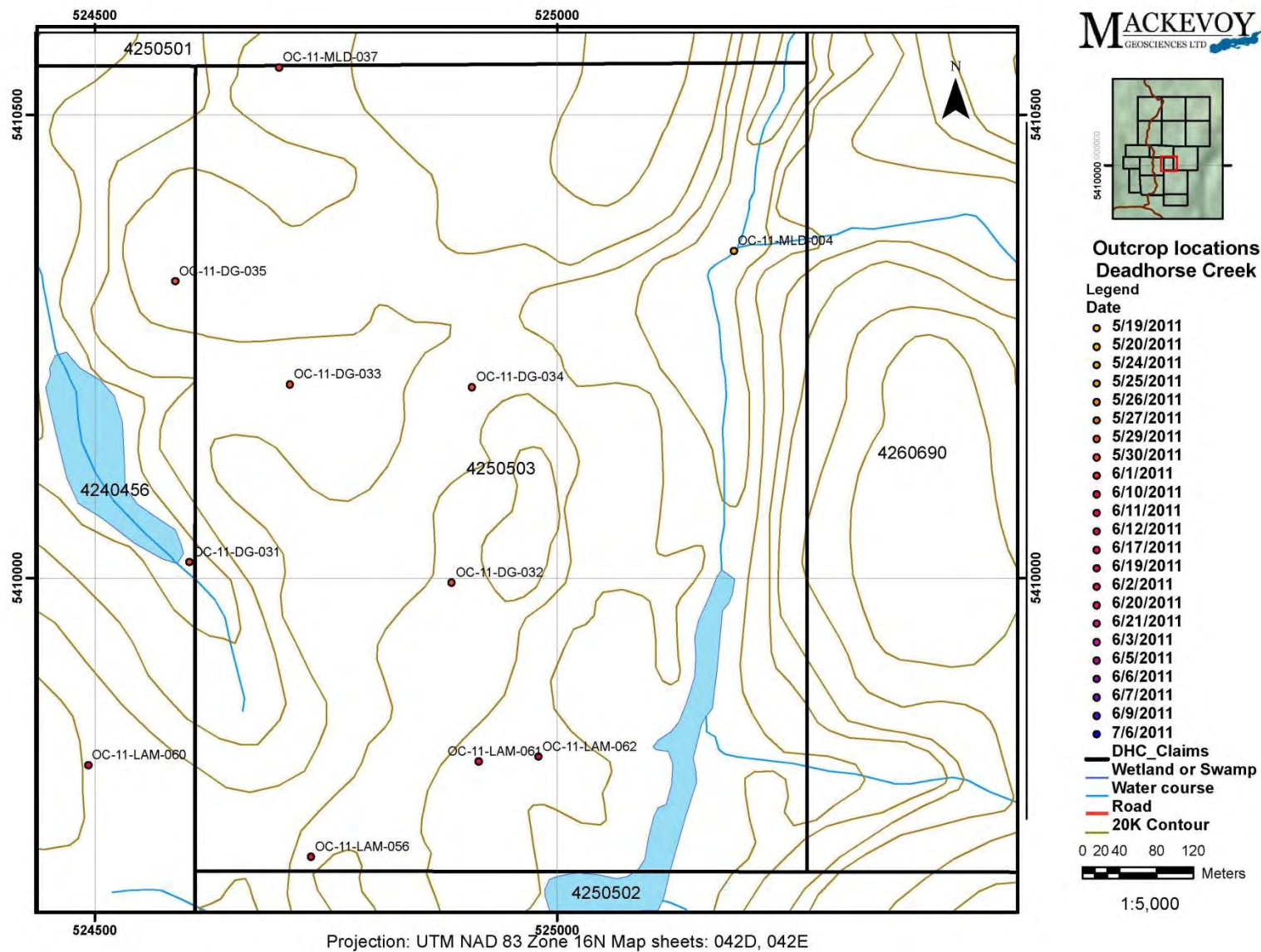


Figure 30. Outcrop map of claim block 4250503.

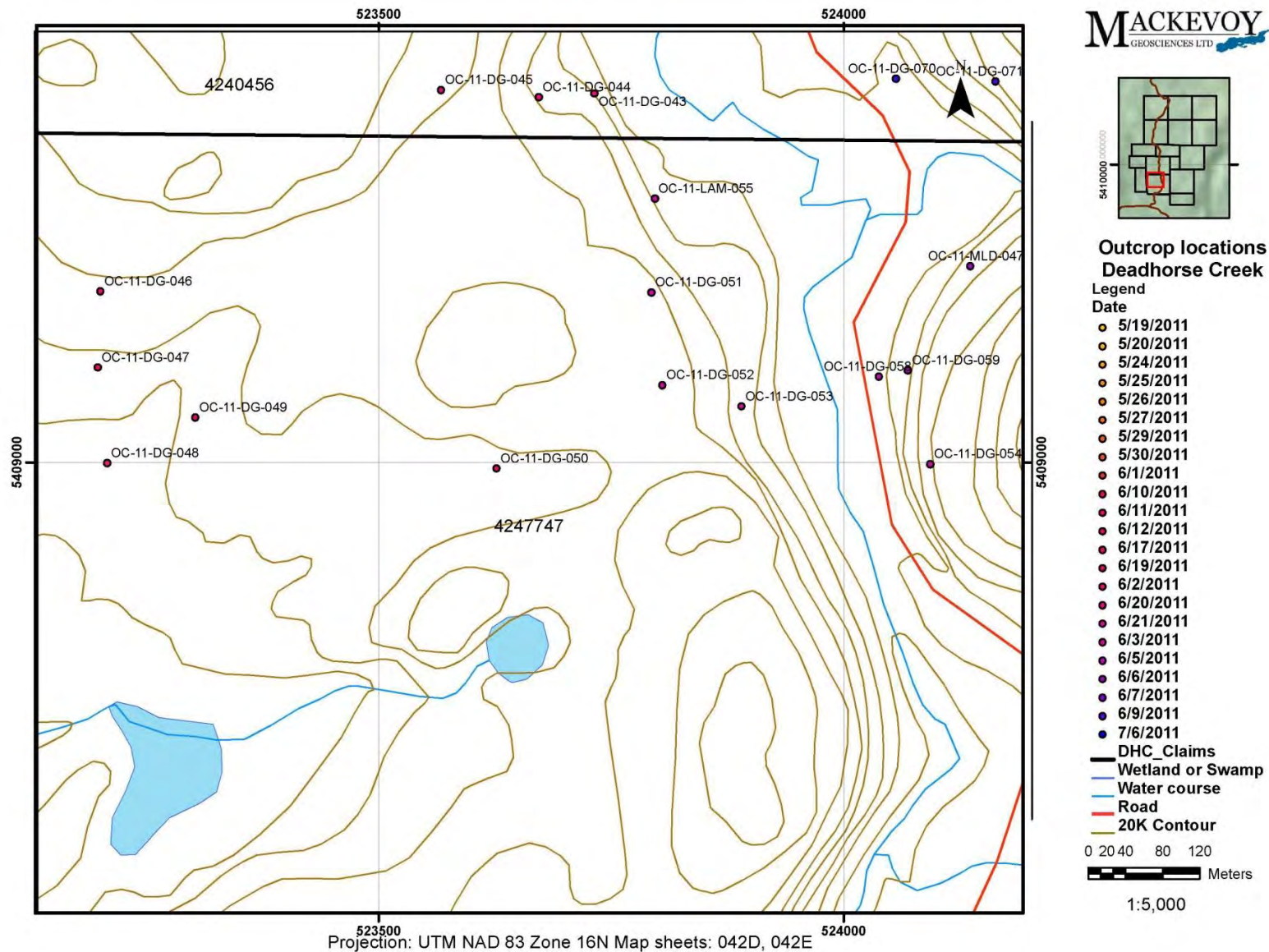


Figure 31. Outcrop map of claim block 4247747 (part 1 of 2).

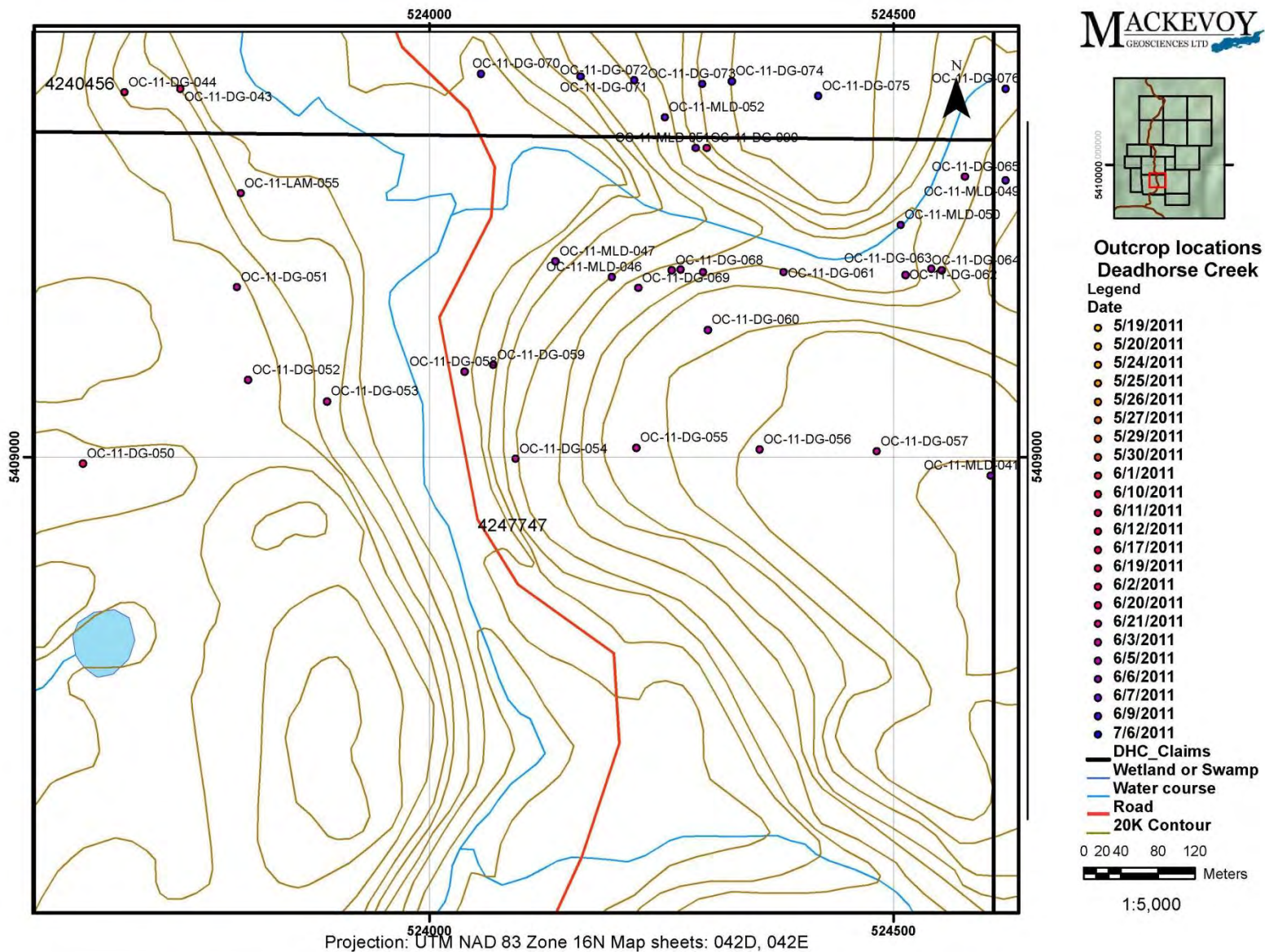


Figure 32. Outcrop map of claim block 4247747 (part 2 of 2).

Mackevoy Geosciences Ltd. 2011

Deadhorse Creek Property

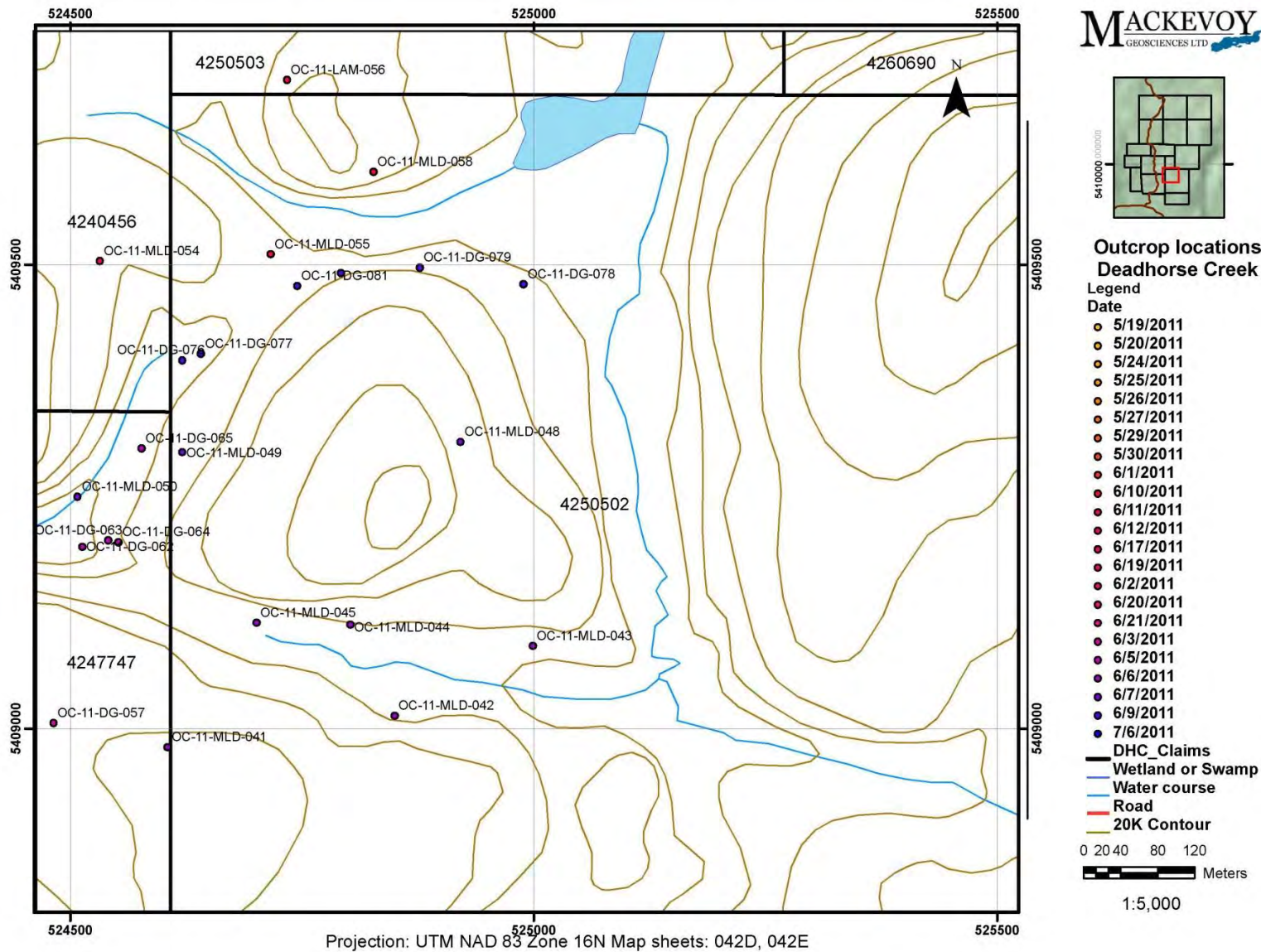


Figure 33. Outcrop map of claim block 4250502.

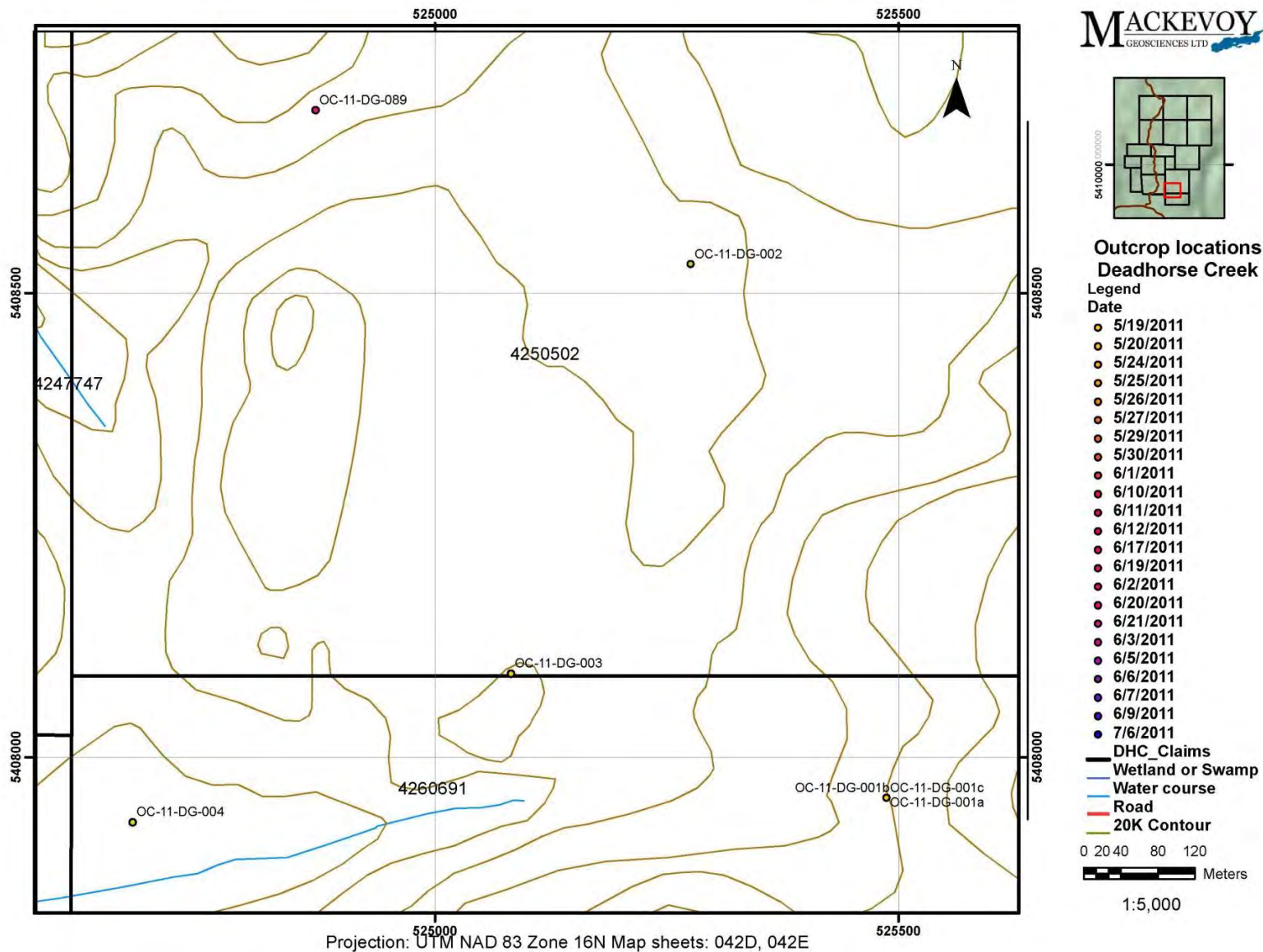


Figure 34. Outcrop map of claim block 4260691.

Table 3. Table of rock samples collected from the DHC Property. Note the Actlabs Sample ID which corresponds to assay results in the appendix.

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
19-May-11	D. Gritsaenko	M. Dalsin	11-DG-001	No Assay			524674	5407923	Up big hill at start of DHC property,	pink outcrop with lighter pink/gray vein	quartz vein?	OC-11-DG-004	Sketch in notes
20-May-11	D. Gritsaenko	M. Dalsin	11-DG-002	985251			524191	5410356	Road 2	fine grained, pink outcrop with breccia structure -> clasts are semi-angular, size variation sm-ext large. Huge clasts of quartz.		OC-11-MLD-005	Polimaster Values >30µR/h
20-May-11	M. Dalsin	D. Gritsaenko	11-MLD-004	985252			523481	5409838	along side road, aprox 20 m	weathered beige/brown, fresh surface is fairly fine grained, includes biotite, Quartz, plagioclase? And shows a contact with the green	Biotite, quartz, plagioclase, K-feldspar	OC-11-DG-006	
20-May-11	D. Gritsaenko	M. Dalsin	11-DG-003	No Assay			524022	5409952					

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
20-May-11	M. Dalsin	D. Gritsaenko	11-MLD-003	No Assay			523481	5409838	along side road, aprox 2 0m	weathered green colour, very fine grained, with white irregular veins, high schistosity and has a gray dike with chilled margins. //Furthest unit to the right (green) has another gray dike, same as one seen to left side(?) though contact is more irregular.		OC-11-DG-006	
20-May-11	M. Dalsin	D. Gritsaenko	11-MLD-005	No Assay			523481	5409838	along side road, aprox 20 m	pink mafic intrusive assumed to be same as previously seen. Has visible plagioclase, K-feldspar, and is fine grained. Shows jointing, Dip: 78°, Strike: 18°.		OC-11-DG-006	

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
24-May-11	D. Gritsaenko	L. Marshall	11-DG-005	985253	103	J	523750	5410415	up hill, near clearing type area with small trees	Meta-sedimentary? bedding! weathers same as OC-11-DG-010, fresh surface is gray colour, schistosity very defined on sample taken. Very fine grained with small dark green inclusions	visible quartz, minor magnetite and cm hornblende	OC-11-DG-011	Picture #Outcrop OC-11-DG-011, 523750 541041 and #Outcrop OC-11-DG-011, 23750 541041 2 Sample #11-DG-005. Mostly massive with some preserved bedding and slight schistosity. Outcrop bearing 220, 50m across and 1-3m up. S0 148/58
24-May-11	D. Gritsaenko	L. Marshall	11-DG-008	985254	103	I	523297	5410291	backside of OC-11-DG-019 – walked around left side and down hill	large part of unit is same stuff (meta-sed), layer approx 1m of light brown/brown weathered // very obviously layered (bedding?), *8m across by 4m high. Metasedimentary	fresh surface gray colour with 'sparkles' – muscovite? Pyrite? Small section of chlorite? Mica causing slight lineation. Minor magnetite	OC-11-DG-020	Strike: 128° Dip: 60° // 10 µR/h (*if turned upside down, goes nuts!) // (weathered brown stuff that went off on Poly),, Pictures (x3) #Outcrop OC-11-DG-020, #Outcrop OC-11-DG-020 2 and #Outcrop OC-11-DG-020 3 Some bedding (130/60) persevered

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
24-May-11	D. Gritsaenko	L. Marshall	11-DG-010	985255	103	I	523467	5410300	exposed outcrop approx 1 mx1 m (partially covered by moss)	pink/orange weathered surface, lighter pink is fresh surface --> same stuff as in OC-11-DG-001 (1 st day) Mostly massive	quartz, K-feldspar, biotite? Mostly K-feldspar	OC-11-DG-022	polimaster up to 44 μ R/h, small chance that this is buried float,, sample 11-DG-010 (has 2 samples separately in bag) photo #Outcrop OC-11-DG-022
24-May-11	D. Gritsaenko	L. Marshall	11-DG-011	985256	103	I	523879	5410297	Went ~95 degrees past muddy road, around a cliffside, saw puddle with ice by cliff face and noticed schisosity/microfolding		little bit of magnetite in some parts	OC-11-DG-026	microfolding/sc histosity -> folding obvious, alternating layers of gray, brown, lighter brown // Strike approx N-S /// Photo #Outcrop OC-11-DG-026
24-May-11	D. Gritsaenko	L. Marshall	11-DG-006	No Assay	103	J	523037	5410406	down moss covered cliff	folding! Dark grey/brown spots weathered surface/ fresh surface dark grey. quartz vein (?) weathered to light brown colour	Quartz (?) vein incl	OC-11-DG-017	-->Picture #Outcrop OC-11-DG-017, 523037 5410406 and #Outcrop OC-11-DG-017, 230377 5410402 -->Sample # 11-DG-006 end of line1

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
24-May-11	D. Gritsaenko	L. Marshall	11-DG-009	No Assay	103	I	523430	5410314	clearing with 'underground river' :)	5m w x 2m h. Very fine grained light grey meta-volcanic or meta sed. Mostly massive with possible chill margin.	sample has layer of chlorite and K-feldspar, rest of it consists of biotite, muscovite, quartz (?), Minor chlorite in microfractures	OC-11-DG-021	saw boulder with pink (K-feldspar! - same as up 1 st hill in DHC) 10m back. Sample 11-DG-009 (has layer of chlorite and K-feldspar). Large alkaline intrusive float 10m away
24-May-11	D. Gritsaenko	L. Marshall	11-DG-007	No Assay	103	I	523166	5410301	outcrop 15-20 m height, up to 100 m in length (possibly more?)	same stuff (looks the same but less layering, mostly massive)		OC-11-DG-018	sample taken (up 10m from coordinate), picture #Outcrop OC-11-DG-018, 523166 5410301
25-May-11	L. Marshall	D. Gritsaenko	11-LAM-006	985257	103		523779	5410187	small area to get beside outcrop		hematite crystals? Appear silvery with hint of purple	OC-11-LAM-002	
25-May-11	L. Marshall	D. Gritsaenko	11-LAM-007	985258	103		523477	5410212	uphill past birch trees, lots of deadfall	dark grey meta-sed		OC-11-LAM-006	breaking along cleavage perp. To bedding picture** Left side of fault has minor fault cracks Fault Strike: 120 dip: 74 photo** Bedding strike: 290 dip: 50

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
25-May-11	L. Marshall	D. Gritsaenko	11-LAM-010	9852 59	103		5230 19	5410 101	after this point, on top of the cliff, there is a grassy opening	surface light gray/brown, fresh surface dark gray, courser grained -> shiny massive but appears to have little crystals of hblnd (?) (shiny silver stuff) foliated?		OC-11-LA-M-016	photo associated with OC LAM-016
25-May-11	L. Marshall	D. Gritsaenko	11-LAM-011	9852 61	103		5230 95	5410 087	by stream, in ravine	breccia!! (?)fresh surface gray with veins of white and pearly white (quartz?), other bits have irregular veins of red.		OC-11-LA-M-018	56 mR/h -> up to 70mR/h!
25-May-11	L. Marshall	D. Gritsaenko	11-LAM-012	9852 62	103		5235 02	5410 104			muscovite, quartz, black mineral aligned/foliated?	OC-11-LA-M-024	alkalic dyke
25-May-11	L. Marshall	D. Gritsaenko	11-LAM-008	No Assay	103	H	5231 80	5410 214	boreal forest, Deadhorse Creek	Very fine grained dark grey (slate color), with dark green patches. metased (siltstone?).	hbl?	OC-11-LA-M-010	lineation on fresh surface, Appears waxy (v. sparkly)
25-May-11	L. Marshall	D. Gritsaenko	11-LAM-013	No Assay	103		5236 79	5410 100		gray/dark grey and shiny (fibrous)		OC-11-LA-M-027	

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
25-May-11	L. Marshall	D. Gritsaenko	11-LAM-009	No Assay	103		523019	5410099	after this point, on top of the cliff, there is a grassy opening	surface light gray/brown, fresh surface dark gray, courser grained -> sample has vein of actinolite		OC-11-LAM-016	photo associated with OC LAM-016
26-May-11	W. Harman	L. Marshall	11-WJH-004	985263	103	F	523625	5410006	Beside our road	Grey with pink breccia	biotite	OC-11-MLD-025	
26-May-11	W. Harman	L. Marshall	11-WJH-005	985264	103	F	523625	5410006	Beside our road	grey rock with zinolith	biotite	OC-11-MLD-025	
26-May-11	L. Marshall	W. Harman	11-LAM-014	985265	103		523540	5409679	grey rock with red beccia clasts	grey rock with red breccia clasts	possible hematization of the breccia clasts	OC-11-LAM-042	
26-May-11	M. Dalsin	D. Gritsaenko/G. Quist	11-GMQ-007	985266	103	A	523706	5409519	Along a cliff	high spectrometer values from outcrop		OC-11-MLD-030	up to 2000cps locally
26-May-11	M. Dalsin	D. Gritsaenko/G. Quist	11-MLD-007	985267	103	A	523533	5409502	small outcrop w/ one area spectrometer is very high, nearby clearing	metasedimentary w/ some possibly hematized clasts. Some very fine grained lines of bright pink to coral (possible REE minerals).	K-feldspar, plagioclase, quartz, and biotite. Local pyrite	OC-11-MLD-031	

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
27-May-11	W. Harman	Mal, L. Marshall	11-WJH-007	985268	102	B	524088	5410231	on edge of hill with valley below	rocks sample from metaseds with pink folding. At ductile brittle transformation zone		OC-11-LAM-049	from OC-11-LAM-049
27-May-11	W. Harman	Mal, L. Marshall	11-WJH-008	985269	102	B	524102	5410257	Side of Hill	Piece of quartz vein on right		OC-11-MLD-032	taken from under the highest spectrometer readings near bottom of showing outcrop
27-May-11	W. Harman	Mal, L. Marshall	11-WJH-009	985271	102	B	524102	5410257	Side of Hill, right below the tree on top of the outcrop	Country rock		OC-11-MLD-032	taken from middle of the outcrop between the two quartz veins
27-May-11	M. Dalsin	L. Marshall, W. Harman	11-MLD-009	985272	102	B	524140	5410300	Outcrop in small clearing	dark grey metasedimentary rock with some fine pink str and extremely high spectrometer values up to 3900cps	something is making the crazy spectrometer values (xenotime??)	OC-11-MLD-033	sample sent as a research sample

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
27-May-11	L. Marshall	Mal/W. Harman	11-LAM-015	985273	102	B	524104	5410257	2-3 m cliff on opposite side of ravine to outcrop (049)	~2 meter quartz vein running more or less vertically through the fg dark-grey meta-sed/volcanic host rock. Quartz vein contains cm-scale fg orange intrusive veins with cross-cutting relationships, whit perhaps REE mineralization	Quartz vein with felsic (REE) cm scale intrusive veins	OC-11-MLD-032	spectrometer to 1120 cps. Sample sent as a research sample
27-May-11	L. Marshall	Mal/W. Harman	11-LAM-016	985274	102	B	524098	5410258	2-3 m cliff on opposite side of ravine to outcrop (049)	More dark-grey meta-sed/volcanic than felsic orange intrusive 'blotches'	magnetite present	OC-11-LAM-050	

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
29-May-11	L. Marshall	M. Dalsin, D. Gritsaenko	11-LAM-017	985275	120	C	524188	5410199	On hillside, partial clearing	Dark grey meta-sed/volcanic (greywacke) host rock with orange-pink breccia clasts containing 0.5-2 cm quartz veins and magnetite-rich veins cross-cutting brecciation. Quartz veins also crosscut host rock which appeared to contain flow-banding or schistosity	host rock aphanite, brecciation perhaps hematite-rich	OC-11-MLD-007	
29-May-11	L. Marshall	M. Dalsin, D. Gritsaenko	11-LAM-018	985276	120	C	524195	5410159	Buried under moss in partial clearing	Dark grey meta-sed/volcanic (greywacke) host rock 0.2-0.5m orange-pink breccia clasts and associated beige sheen patches and veins.	Host rock aphanite and magnetite rich. Possible hematization of the breccia clasts. Some beige mineralization on surface	OC-11-MLD-014	OC spectrometer up to 6000 cps. Beige patched scratched easily and may represent weathered thorium mineralization?
29-May-11	L. Marshall	M. Dalsin, D. Gritsaenko	11-LAM-019	985277	120	C	524227	5410100	Outcrop on brow of hillside, not much clearing,	same dark-grey meta-sed host rock with brick-red cm-scale breccia clasts	aphanite	OC-11-MLD-015	

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
29-May-11	L. Marshall	M. Dalsin, D. Gritsaenko	11-LAM-020	985278	120	C	524203	5409991	10 m cliff in ravine	Orange to red meter-scale patches in same dark-grey meta-sed host rock. May show brecciation	mm to cm scale quartz and magnetite-rich veins. Possible hematization of the clasts or patches	OC-11-MLD-034	
29-May-11	W. Harman	Dash, M. Dalsin	11-WJH-010	985279	102		524603	5410018	Across the swamp, lower section of outcrop	Meta-Volcanic, medium grained	Quartz, Feldspar, 35% Mafics, fine grained pyrite	OC-11-DG-031	OC spectrometer 90-140
29-May-11	W. Harman	Dash, M. Dalsin	11-WJH-011	985281	102	J	524883	5409996	Red section on left of outcrop	hematized red rock medium grained	hematization	OC-11-DG-032	OC spectrometer 550-600
29-May-11	W. Harman	Dash, M. Dalsin	11-WJH-012	985282	102	J	524883	5409996	From where it looks like the big rock would fall	medium grained pink grey rock	mafics	OC-11-DG-032	OC spectrometer 250-320
29-May-11	W. Harman	Dash, M. Dalsin	11-WJH-013	985283	102		524388	5410293	Cliff area after swampy clearing	Breccia on top with grey country rock underneath		OC-11-DG-037	OC spectrometer 300
1-Jun-11	G. Quist	L. Marshall, M. Dalsin	11-GMQ-008	985284	102		524254	5410388	Side of incline, right side of outcrop	dark grey host with red clasts	aphanite	OC-11-MCD-036	High spectrometer, brecciation, picture (same as sample name)
2-Jun-11	L. Marshall	D. Gritsaenko	11-LAM-023	985285	104	D	523707	5409253	Clearing under moss, not true outcrop	Dark grey, meta-sed aphanite host with cm-scale subhedral brick-red breccia clasts	aphanite		~1500 cps against rock

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
3-Jun-11	L. Marshall	D. Gritsaenko	11-LAM-024	985286	105	D	523797	5409287	Ravine coming down from cliff with stream, outcrop being incised by stream.	Spectacular brick red/orange ortho breccia, 1-20 cm clasts. A bit of algae on it as this rock was surprisingly well indurated and that was the only sample I could hammer off.	Both breccia clast and minor dark grey meta-sed were both too fine-grained to tell	OC-11-LAM-055	This area appears to be downslope from another area of breccia, and wondering if it might be part of same massive breccia dyke or perhaps glacial outwash area?
3-Jun-11	L. Marshall	D. Gritsaenko	11-LAM-025	985287	105	A	524482	5409002	very small outcrop in clearing, mostly moss/soil covered	pink/grey igneous intrusive (dyke/Coldwell Complex?), mg with k-spar, quartz and minor amphibole	k-spar, quartz, minor amphibole	OC-11-DG-057	~500 cps on rock face.
5-Jun-11	L. Marshall	D. Gritsaenko, G. Quist	11-LAM-026	985288	104	C	524557	5409203	Hillside in mixed mature hardwood/softwood cover	Dark grey, very fine grained. Has what appears to be cm relict bedding or parallel schistosity with olive green patches and bronze foliation surfaces	Mostly aphanite, dark grey magnetitic areas have patches of olive green "staining" (amphibole?)(mafic dyke?). Schistosity appears to be caused by bronze colored aligned mineralization (chalcopryite?)	OC-11-DG-064	outcrop also had ~5 cm wide quartz vein.
5-Jun-11	L. Marshall	D. Gritsaenko, G. Quist	11-LAM-027	985289	104	D	524572	5409320	side of valley, not much clearing	pink/orange fine grained alkalic intrusive (Coldwell Complex?)	k-spar. Quartz, amphibole	OC-11-DG-065	~900 cps on outcrop

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
5-Jun-11	L. Marshall	D. Gritsaenko, G. Quist	11-LAM-028	9852 91	104	C	5242 89	5409 198	side of gully, moss covered	light grey aphanite meta-sed with light pink/orange fine grained felsic cm-scale brecciation, also with darker grey aphanite cm-scale brecciation.	Felsic clasts are mainly k-spar, quartz, and minor amphibole, some smaller clasts are rounded	OC-11-DG-066	~700 cps on outcrop
5-Jun-11	L. Marshall	D. Gritsaenko, G. Quist	11-LAM-029	9852 92	104	C	5242 60	5409 200	moss covered side of valley	grey meta-sed with felsic intrusive	couldn't tell for sure, has magnetite	OC-11-DG-068	~700 cps on outcrop
5-Jun-11	L. Marshall	D. Gritsaenko, G. Quist	11-LAM-030	9852 93	104	C	5242 50	5409 197	moss covered side of valley	mixture of dark grey meta-sed with patches & veins of yellow/orange/cream-colored felsic intrusions	meta-sed aphanite with magnetite. Couldn't say for sure in felsic intrusive part,	OC-11-DG-069	up to 2000 cps on outcrop, only able to break off small chips
5-Jun-11	L. Marshall	D. Gritsaenko, G. Quist	11-LAM-031	9852 94	104	C	5241 97	5409 194	moss covered side of gully	dark grey breccia up to 10 cm clasts vfg, with 'weird" veins that are vfg dark grey but seem to weather to a cream felsic intrusive-like color on the outside.	mostly aphanite with tiny areas of purple/red mineralization (unknown), minor pyrite and magnetite	OC-11-ML-D-046	up to 2000 cps on outcrop

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
6-Jun-11	W. Harman	D. Gritsaenko, M. Dalsin	11-WJH-018	985295			524690	5409098	From left hand quartz vein	Quartz with meta-sed host	K-feldspar, quartz, possible others	OC-11-MLD-045	
6-Jun-11	W. Harman	D. Gritsaenko, M. Dalsin	11-WJH-019	985296			524142	5409214	on incline left hand side of outcrop	Meta-volcanic, meta-sedimentary, pink breccia class	very fine grained pink and meta-sed, mafics in medium grained meta-volcanics.	OC-11-MLD-047	
6-Jun-11	D. Gritsaenko	W. Harman, Mal	11-DG-014	985297	104	B	525000	5409093	NE side of OC, breccia side	black angular clasts 2-5cms big, matrix is coarse grained and pink	Pink --> K-feldspar, pag. Black --> v.f.gr	OC-11-MLD-043	
7-Jun-11	L. Marshall	G. Quist & M. Dalsin	11-LAM-034	985298	104	D	524915	5409311	outcrop in small clearing	Coarse grained mix of both mafic&felsic intrusion, dark grey to orange	amphibole, k-spar, plagioclase/oclase, magnetite	OC-11-MLD-048	200 cps
7-Jun-11	L. Marshall	G. Quist & M. Dalsin	11-LAM-035	985299	104	D	524561	5409314	bottom of cliff face in large ~100 m valley	dark grey, aphanite, with possible greenschist metamorphism (chlorite) and high magnetite	chlorite? And magnetite	OC-11-MLD-050	Cliff continues along valley for many tens of meters.
7-Jun-11	L. Marshall	G. Quist & M. Dalsin	11-LAM-036	985301	104	D	524285	5409331	middle of cliff/hill on W. west face of hill close to main road	light to dark grey foliated meta-sed on either side of a ~15 cm re-sealed mostly massive meta-sed fault. Fault rock sampled	aphanite with magnetite	OC-11-MLD-051	~1700 cps on fault face. Fault is parallel to foliation with 270 strike and 80 dip

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
7-Jun-11	L. Marshall	G. Quist & M. Dalsin	11-LAM-037	9853 02	104	D	5242 55	5409 361	middle of cliff/hill on W. west face of hill close to main road	fg orange felsic breccia with fg dark grey metased/vol host, braccia clasts up to ~30 cm	aphanite with magnetite	OC-11-MLD-052	~100 cps on outcrop face
9-Jun-11	W. Harman	D. Gritsaenko, L. Marshall	11-WJH-020	9853 03			5243 26	5409 409	Near to the crazy spectrometer high	Grey meta-sed with breccia	magnetite, minor pyrite	OC-11-DG-074	Powder from the broken rock fizzes slightly
9-Jun-11	W. Harman	D. Gritsaenko, L. Marshall	11-WJH-021	9853 04			5247 92	5409 491	Side of cliff near flat area with the big tree	Coarse grained pink and Grey intermixed together	K-spar, amphibole, pyrite flecks	OC-11-DG-080	

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
9-Jun-11	L. Marshall	D. Gritsaenko and W. Harman	11-LAM-038	985305	104	E	524297	5409405	Contact outcrop on hillside in small clearing	On top was 1 m dark grey aphanite meta-sed overlying pink/orange fg to aphanite felsic intrusive (Coldwell Complex?) proximal to the contact and within the felsic intrusion was a ~ 7cm mostly aphanite light green/gray (mafic?) vein which caused proximal brecciation of the felsic intrusion. At the junction between the meta-sed, felsic intrusive and vein was a triangular pocket of quartz. The (mafic) vein was sampled as it was the only part of the outcrop that seemed to be radioactive.	Meta-sed was aphanite with minor magnetite, Felsic intrusive was mainly k-spar and minor amphibole.	OC-11-DG-073	The overburden in the outcrop locality had pockets of radioactivity and could be other such veins.

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Eastings	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
10-Jun-11	M. Dalsin	D. Gritsaenko, G. Quist	11-GMQ-009	985306	104	F	523989	5409511	rock sample taken on a cleared part of the outcrop just outside the main outcrop clearing	breccia with a metased host rock and red clasts	metased is very fine grained and the fragments are very fine grained and possibly hematized	OC-11-DG-082	spectrometer to 1500 cps
10-Jun-11	M. Dalsin	D. Gritsaenko, G. Quist	11-MLD-012	985307	104	F	524014	5409494	taken from exposed, visible breccia	metased is the dark grey host rock with red fragments	metased is very fine grained and the fragments are very fine grained and possibly hematized	OC-11-DG-083	spectrometer to 500 cps
10-Jun-11	M. Dalsin	D. Gritsaenko, G. Quist	11-MLD-013	985308	104	F	524027	5409499	not sure if this is outcrop or float as there are some boulders around and lots of moss cover	breccia with a metased host rock and red fragments	metased is very fine grained w/ fine grained pyrite. Clasts are moderately hematized and very fine grained		spectrometer over soil is 1500 cps, spectrometer on cleared exposure is 3000 cps
10-Jun-11	M. Dalsin	D. Gritsaenko, G. Quist	11-MLD-014	985309	104	F	524133	5409488	taken from the breccia part of the outcrop.	breccia has a metased host rock w/ pink to red fragments that are 5-20cm in size	host rock is very fine grained with very fine grained partially hematized fragments	OC-11-DG-084	
10-Jun-11	M. Dalsin	D. Gritsaenko, G. Quist	11-GMQ-010	985311	104	F	524363	5409493	rock sample from a 10cm band of dark grey rock.	rock is very fine grained dark grey and magnetic. This is possibly a fault or dyke	very fine grained and magnetic (magnetite) w/ some fine grained pyrite	OC-11-DG-086	
11-Jun-11	M. Dalsin	L. Marshall, W. Harman	11-MLD-015	985312	104	H	524082	5409699	taken from the breccia (fault?) on the outcrop	Clast supported breccia. The host appears to be metased with pink clasts that are angular to sub angular and 1-5cm in width	both the host and clasts are very fine grained. The clasts appear to be mostly K-feldspar.	OC-11-LA-M-057	

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
11-Jun-11	L. Marshall	M. Dalsin, W. Harman	11-LAM-041	9853 13	104	G	5240 76	5409 583	Relatively steep hillside, slight clearing	Dark grey, mostly aphanite except for abundant fine grained biotite mineralization	biotite	OC-11-MLD-056	
11-Jun-11	L. Marshall	M. Dalsin, W. Harman	11-LAM-042	9853 14	104	G	5241 29	5409 585	~20 m ravine with ~5 m cliff face on either side	Mostly dark grey aphanite, magnetite-rich meta-sed with sporadic occurrences or patches aphanite orange felsic breccia which was what was sampled as it gave the highest spectrometer readings 400-500 cps	k-spar, magnetite	?	
12-Jun-11	L. Marshall	D. Gritsaenko and G. Quist	11-LAM-043	9853 15	104	J	5242 66	5409 884	~ 1 m high by 3-4 m outcrop on side of steep incline with birches and spruces	dark grey aphanite meta-sed host with 1-5 cm aphanite red breccia	meta sed had magnetite and minor pyrite	OC-11-DG-087	no high cps
12-Jun-11	D. Gritsaenko	L. Marshall, G. Quist	11-DG-015	9853 16	104	I	5242 66	5409 796	middle of uncovered OC	brecciated metased host with pink felsic veins and clasts	K-feldspar? Minor magnetite, otherwise very fine grained	OC-11-LA-M-059	Associated Assay of Area: 1320-A1150

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
12-Jun-11	D. Gritsaenko	L. Marshall, G. Quist	11-DG-016	9853 17	104	J	5243 57	5409 905	side of OC, near jagged area of rock	grey, aphanite sample with pink clasts aprox. 3-4cm, with small inclusions of dark minerals (amphibole?)	magnetite, K-feldspar? Amphibole?	OC-11-LA-M-063	
17-Jun-11	B. Quist	M. Dalsin	11-BCQ-0164	9853 19			5241 97	5410 163	on PT-DHC-001	weird mineral that is looks bladed and weathers white on one axis and is hexagonal on a different axis	unweather the mineral is translucent grey-green	Pt-DH-C-11-001	
17-Jun-11	B. Quist	M. Dalsin	11-BCQ-0163	9853 21			5234 61	5409 730	north end of Trench.	purple in color, black vitrious areas (pitchblende?), bright yellow minerals (uraninite)	unknown dark cubic crystal	TR-DH-C-11-001	fluoresces bright yellow-green under UV light
19-Jun-11	D. Gritsaenko	A. Ya'acoby	11-DG-019	9853 18	104?		5235 19	5409 676	TR-11-DHC-001, 10m mark	lamprophyre? Gray with scattered white aphanite matrix (quartz?plagioclase?dark mafics?) with elongated black phenocrysts (biotite? Hrnblnd?)	quartz?plagioclase?hrnb lnd?biotite?	TR-11-DH-C-001	No spectrometer high, but may help us understand structure.

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
19-Jun-11	A. Ya'acoby	D. Gritsaenko	11-AY-002	9853 22	??	? ?	5235 16	5409 687	TR-DHC-11-001	Brecciated metavolcanic/gr eenshist rocks; gray to black; weathered to brownish shades; fine grains;	Pyroxene, epidote, chlorite, unidentified red mineral, hornblende	TR-DH C-11-001	
19-Jun-11	A. Ya'acoby	D. Gritsaenko	11-AY-001	9853 23	??	? ?	5234 36	5409 676	TR-DHC-11-001	Brecciated metavolcanic/gr eenshist rocks; gray to black; weathered to brownish shades; fine grains;	Pyroxene, epidote, chlorite, unidentified red mineral, hornblende	TR-DH C-11-001	
19-Jun-11	W. Harman	G. Quist	11-WJH-022	9853 27	107	K	5242 01	5407 990	Top of mossy incline, under dying spruce tree	Possibly coldwell, pink with black spots	mafics, k-feldspar, quartz(?)	N/A	Assay from this area is 2483-A16182
21-Jun-11	B. Quist	A. Ya'acoby	11-BCQ-0170	9850 36			5234 68	5409 760	biotite-rich granitic dyke, just east of TR-DHC-11-001	biotite-rich granite	pyrite, chloritized	OC-11-BC Q-004	
21-Jun-11	B. Quist		11-BCQ-0171	9850 45			5234 66	5409 818	Sample of quartz in metased vein			OC-11-BC Q-007	
21-Jun-11	W. Harman	D. Gritsaenko	11-DG-017	9853 25	116	P	5243 11	5409 375	Edge of small dried up swamp on top of cliff	Dark grey magnetic, very fine grained with pyrite clusters	Pyrite clusters, magnetic	OC-11-DG-091	

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
21-Jun-11	B. Quist	A. Ya'acoby	11-BCQ-0167	9853 26			5235 21	5409 680	Taken from TR-DHC-11-001	breccia showing finely and coarsely disseminated sulphides, pyrite, marcasite?, breccia clasts are red, angular, hematitic alteration, rock is super hard to crack	sulphides, pyrite, marcasite ?	TR-DH C-11-001	
21-Jun-11	B. Quist	A. Ya'acoby	11-BCQ-0168	9853 29			5235 26	5409 680	Taken from TR-DHC-11-001	Breccia, with a possible lamprophyre dyke; it may be a transition zone, but it does show alignment of grains (hornblende ~ 5mm long and porphyritic), sulphides, oxidation on the cleavage face	hornblende, sulphides	TR-DH C-11-001	
21-Jun-11	B. Quist	A. Ya'acoby	11-BCQ-0169	9853 33			5234 73	5409 727	Taken from TR-DHC-11-002	rock is purple with bright yellow crystals, probably uraninite in pitchblende		TR-DH C-11-001	rock spectrometers up to 30 000 cps

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
23-Jun-11	D. Gritsaenko	W. Harman	11-DG-018	985332	116	8	523749	5409352	near cliff, kind of covered by low light green leafy trees, scattered pines. OC: covered by dead leaves and dirt:Breccia	Breccia: grey, aphanite host (metased?), clasts are pink, sub angular up to 7mm long.	K-feldspar, pyrite flecks, quartz, gold(or weathered pyrite!) and vitreous black crystals		had been spectrometering relatively high for last 50m before this point, spectrometering at 1500
24-Jun-11	W. Harman	G. Quist	11-GMQ-011	985328	117		524228	5410250	on hillside with birch trees and spruce	highly brecciated with red/pink clasts	Pyrite, qrtz, k-spar, fine grained red		Possibly two types of clasts: red circling black-grey-green rock, and one just red, 2483-A18988
24-Jun-11	W. Harman	G. Quist	11-GMQ-012	985331	117		524296	5410627	Beaver dam, hidden area	Meta-sed like dark grey rock	low pyrite, VFG		
27-Jun-11	D. Gritsaenko	A. Ya'acoby	11-DG-020	985334	118	14	523421	5410173	Top of cliff near lake.	metased (green schist?), aphanite, dark gray, weathers rusty brown/red colour --> slight alignment of minerals?	too fine grained to tell, possibly chlorite	OC-11-AY-001	sample from area which showed pattered when K + Th were overlain
3-Jul-11	B. Quist	L. Marshall	11-BCQ-0180	985335	116		524256	5410095	end (south) of PT-DHC-11-004.	Breccia, matrix supported (fine grained dark), matrix = magnetic, clasts = red -> hematite alteration, very fine grained.			OC is a cliff, both fizz

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
3-Jul-11	A. Ya'acoby	D. Gritsaenko	11-AY-004	9853 36	119-120		5243 53	5410 392	tall spruce + birch trees. Slight slope facing E tall moss + ferns	volcanogenic breccia, magnetic, cubic; px>80%, fizzes slightly (carbonates, fine grained, massive, dark gray and purplish, sulfides, weathered. Slight hematization. Rock is float?	mag, carbonated, sulphides, hematiation		Associated Assay: 2424-A3547
5-Jul-11	S. Todd	D. Gritsaenko	11-SMT-003	9853 37	102	E	5244 40	5410 428	Northeast side of Marsh, along shore line	Aphanitic, Blackish grey, with red mineral, massive	quartz, pyrite?		
5-Jul-11	S. Todd	D. Gritsaenko	11-SMT-002	9853 38	102	F	5244 76	5410 372	East of swamp, south of ridge line	Aphanitic. Finely foliated, black, visible red grains, some yellow and blue tint seen			Sample taken from near site of 700 cps, due to lack of able to get sample. Area sample gather had 500 cps
5-Jul-11	S. Todd	D. Gritsaenko	11-SMT-001	9853 39	102	G	5245 41	5410 143	Northeast side of Marsh, Near top of ridge	Aphanitic, Blackish grey	quartz, hornblende		
5-Jul-11	S. Todd	D. Cameron	11-DTC-002	9854 01	114	B	5232 21	5410 811	South side of a large valley approx half way up.	Aphanitic, grey, metasedimentary, minor striations	to fine		

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
6-Jul-11	D. Cameron	G. Quist	11-DTC-001	9853 41	119	K	5249 82	5409 835	Slight gully with exposed sides. Possible faults? Slopes N. Taken at West wall	2 ft. Thick pink intrusion between salt and peppery rocks. Small grains. Rock underneath is greener and has larger grains.			
7-Jul-11	B. Quist	L. Marshall, D. Gritsaenko	11-BCQ-0183	9854 02			5241 70	5410 400	West end of trench	Aphanitic, contains very fine grained sulphides (finely disseminated), silvery->arsenopyrite? Rock is dark blue with some small hematite staining.	sulphides (finely disseminated, silvery->arsenopyrite), hematite.	TR-DH C-11-003	High spectrometer in g rock ~9000cps, fizzes rapidly with acid, magnetic
7-Jul-11	B. Quist	L. Marshall, D. Gritsaenko	11-BCQ-0182	9854 03			5241 69	5410 393	West end of trench	Sample is a breccia -> dark aphanite matrix, with red hematized clasts.	Sulphides (silvery-gold -> arsenopyrite?) are present in clasts in matrix. Some crosscutting quartz veinlets present.	TR-DH C-11-003	Spectrometers ~7000cps

Date	Name	Name 2	Sample Name	ActLabs Sample ID	Grid #	Line #	Easting	Northing	Rock Sample Location Description	Rock Sample Description	Mineralogy	Assoc Outcrop	Comments
9-Jul-11	D. Gritsaenko	D. Cameron	11-DTC-003	985404	114		524733	5411988	East side of large cliff near river, surrounded by fairly small deciduous trees.	Med gr – coarse gr, peachy pink coloured with quartz, dark minerals (amphiboles?) and K-feldspar(?) some green-gray mineral with a 5mm wide vein of black running through it (amphiboles?). Entire rock is magnetic, and minor fizzing occurs with acid.	quartz, amphiboles? K-feldspar?, mag, carbonate	n/a	OC spectrometers about 3700cps. Associated assay is 2483-A24245. *Note: Higher up on OC, spectrometers around 500, possibly coldwell.

Table 4. Description, location and daily log of outcrops encountered while prospecting on the Deadhorse Creek property

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
19-May-11	D. Grits aenk o	M. Dalsin	OC-11-DG-001a			5254 87	54079 56	Left of the road	pink intrusive with mafic xenolith and irregular contact with mafic unit	Pink intrusive: white mineral (quartz?) 15-20%, pink mineral (K-feldspar?) 70%, black mafic min(hblnd?) 2-5%, other 2%.// Mafic unit at contact: fine grained, black, few felsic minerals	Xenoliths + contact			2 photos of contact, 1 of xenoliths
19-May-11	D. Grits aenk o	M. Dalsin	OC-11-DG-001b			5254 87	54079 56	past pink intrusive, past broken up rock pile	dark unit appears to be same as mafic unit at contact, and its being crosscut by pink intrusive – reaction margin // within black rock, pronounced, less weathered veins of pink unit (?) that crosscut each other & have no specific orientation. //pink dike aprox 3cm across (avg), fraction margin ~4mm.		crosscutting pink unit, dip: 50°, strike: ~4° (though a little irregular)			3 photos
19-May-11	D. Grits aenk o	M. Dalsin	OC-11-DG-001c			5254 87	54079 56	dark mafic unit of other side of road	same as before – visible irregular pink veins. Also has pronounced green veins (chlorite?) // pink unit same but more weathered	dark mafic unit that's in contact with pink intrusive has a few clear, white	contact on right side of pink between pink and black is sharp// DIP: 70° //contact			4 photos of area

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
									(weathering looks metallic)	(calcite?) crystals	between pink and black on left side of pink // DIP: 70°, STRIKE: 314°			
19-May-11	D. Grits aenk o	M. Dalsin	OC-11-DG-002			5252 76	54085 31		pink rock looks same					sample taken from area
19-May-11	D. Grits aenk o	M. Dalsin	OC-11-DG-003			5250 82	54080 90	darker mafic rock scattered in chunks						possible outcrop under woodchips?
19-May-11	D. Grits aenk o	M. Dalsin	OC-11-DG-004			5246 74	54079 30	pink outcrop, same as before	pink outcrop with lighter pink/gray vein (quartz?)	quartz/	Crosscutting veins aprox 23 and 7 cm wide (avg)	11-DG-001		Quartz vein further down outcrop, with chilled margin
19-May-11	D. Grits aenk o	M. Dalsin	OC-11-DG-005			5244 98	54079 18		same black material with intruding pink units, which also show reaction margins.		pink unit has xenoliths of black unit. Pink, DIP: 58°, STRIKE: 70°			
20-May-11	D. Grits aenk o	M. Dalsin	OC-11-DG-006			5234 81	54097 07	up from the end of the road	outcrop is weathered to a beige green colour, fresh surface is dark gray, very fine grained.			11-MLD-003, 11-MLD-004, 11-MLD-005		Possibly same grey/green rock as seen on May 19th.
20-May-11	D. Grits aenk o	M. Dalsin	OC-11-DG-007			5234 73	54097 86	slightly off the road, which has a lot of water flowing through, and exposed mafic unit	mafic intrusive, weathered colour is beige/brown		schistosity, Dip: 50-60°, Strike: 95°			green beds visible on either side, shortly after is volcanic with folded vein
20-May-11	D. Grits	M. Dalsin	OC-11-MLD-001			5234 74	54098 43	along side road	Aprox 20m across – first unit is weathered	plagioclase, K-feldspar,	Jointing in pink mafic intrusive,			Sketch in Notes, 3 rock

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
	aenk o								green colour, very fine grained, with white irregular veins, high schistosity and has a gray dike with chilled margins. // The next unit is weathered beige/brown, fresh surface is fairly fine grained, includes biotite, Quartz, plagioclase? And shows a contact with the green./// The next unit is a pink mafic intrusive assumed to be same as previously seen. Has visible plagioclase, K-feldspar, and is fine grained. Shows jointing, Dip: 78°, Strike: 18°. // Furthest unit to the right (green) has another gray dike, same as one seen to left side(?) though contact is more irregular.	quartz, biotite	Dip:78°, Strike:18°			samples
20-May-11	M. Dalsin	D. Gritsaenk o	OC-11-MLD-002			5234 92	54098 47	Same site as above.	outcrop shows a mix of units (green schistosity chlorite altered, vigreous grey unit, weathered pk unit w/jointing					Several photos, 3 samples were taken of the 3 observed units 11-MLD-003 o 11-MLD-005
20-	D.	M. Dalsin	OC-11-			5235	54099	along side road	large cliff with mafic					Have seen

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
May-11	Grits aenk o		MLD-003			02	79		intrusive, local visible fabric, rest appears massive,					this for 30m before this point. Further on, unit becomes green with schistosity. Couldn't be reached due to mud.
20-May-11	D. Grits aenk o	M. Dalsin	OC-11-MLD-004			525191	5410353	Road 2	fine grained, pink outcrop with breccia structure (clasts are semi angular, size variation small->extr large//also have clasts of quartz)	quartz				
20-May-11	D. Grits aenk o	M. Dalsin	OC-11-MLD-005			524189	5410316	few meters closer to main road from site 5	same unit as site 5. Breccia, but faulted (diatrems?)		middle part faulted, Dip: ~40°, Strike: West (measurements taken from distance due to inaccessibility)	11-DG-002		Sketch in Notes.
20-May-11	D. Grits aenk o	M. Dalsin	OC-11-MLD-006			524093	5410174	next to darker gray unit with pink veins coming through	outcrop weathered to green/gray (fresh surface gray), contains asicular inclusions of white (aprox1-2cm long, 1-2mm wide). (more circular, blob-like, same white colour further right)	some form of amphibole (possibly actinolite)	inclusions (check rock descriptions)			
20-May-11	D. Grits aenk o	M. Dalsin	OC-11-MLD-008			523874	5410335	Back on road 1	2 mafic units (one that weathers? Beige, other weathers green)		obvious folds, Strike 211°			one side of outcrop is more finely bedded than

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
														the other that has thicker beds
20-May-11	D. Grits aenk o	M. Dalsin	OC-11-MLD-009			523732	5410195	Further up Road 1	Beige unit has fabric to it	Boudin has quartz vein	Boudin/ Dip: 50°, Strike: 120°			
24-May-11	D. Grits aenk o	L. Marshall	OC-11-DG-010a	103	J	523889	5410394	just off road, by 3 birch trees	-->Meta-sedimentary? outcrop aprox 2m x 6m revealed (possibly a lot more under moss) weathered gray surface with moss					Picture #Outcrop OC-11-DG-010, 523888 5410394
24-May-11	D. Grits aenk o	L. Marshall	OC-11-DG-011	103	J	523751	5410416	up hill, near clearing type area with small trees	-->Meta-sedimentary? bedding! weathers same as OC-11-DG-010, fresh surface is gray colour, schistosity very defined on sample taken (11-DG-005), vfg dark grey (slate color) metasedimentary (siltstone?) with small dark green intrusions	visible quartz, Minor magnetite, minor cm hornblende viens	Strike: 148° Dip: 60°, Mostly massive, some preserved bedding, slight schistosity	11-DG-005		Picture #Outcrop OC-11-DG-011, 523750 541041 and #Outcrop OC-11-DG-011, 23750 541041 2 Sample #11-DG-005, Dark brown on weathered surface, outcrop bearing ~220. 50 m x 1-3 m high. Bedding: 148/58
24-May-11	D. Grits aenk o	L. Marshall	OC-11-DG-012	103	J	523703	5410393		appears to be same unit as OC-11-DG-011					

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
24-May-11	D. Grits aenk o	L. Marshall	OC-11-DG-013	103	J	523548	5410408	further uphill, cliff (outcrop) aprox 10m high	same unit as prev 1 (meta-sed?)					same unit 10m up from OC-11-DG-011 (probable continuation , no way point) further up past OC, another 10m cliff (total `25m of outcrop revealed) --> same strike and dip
24-May-11	D. Grits aenk o	L. Marshall	OC-11-DG-014	103	J	523373	5410367		same stuff! (same descriptions)					
24-May-11	D. Grits aenk o	L. Marshall	OC-11-DG-015	103	J	523309	5410403		same stuff (aprox 1.5m exposed)					
24-May-11	D. Grits aenk o	L. Marshall	OC-11-DG-016	103	J	523178	5410412		same stuff! ~4m exposed length wise, 1m height					
24-May-11	D. Grits aenk o	L. Marshall	OC-11-DG-017	103	J	523037	5410406	down moss covered cliff	folding! Dark grey/brown spots weathered surface/ fresh surface dark grey. quartz vein (?) weathered to light brown colour, vfg dark grey (slate color) metasedimentary	Quartz (?) vein incl	folding, schistosity	11-DG-006		-->Picture #Outcrop OC-11-DG-017, 523037 5410406 and #Outcrop OC-11-DG-017, 230377 541040 2

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
									(siltstone?).					-->Sample # 11-DG-006 end of line1, meter scale folding
24-May-11	D. Grits aenk o	L. Marshall	OC-11-DG-018	103		523166	5410299	outcrop 15-20m height, up to 100m in length (possibly more?)	same stuff (looks the same but less layering, mostly massive), vfg dark grey (slate color) metasedimentary (siltstone?).	grains too small to tell	mostly massive			From this point extended 260°, swings around at 220° --> sample taken 11-DG-007 (up 10m from coordinate), picture #Outcrop OC-11-DG-018, 523166 5410301, 100 m X 2-25 m high
24-May-11	D. Grits aenk o	L. Marshall	OC-11-DG-019	103		523218	5410308	outcrop ~10m across, ~3m high in high spot.	vfg dark grey (slate color) metasedimentary (siltstone?).	grains too small to tell	mostly massive			(when we walked up small hill after taking sample DG-007) 10 m X 3m high
24-May-11	D. Grits aenk o	L. Marshall	OC-11-DG-020	103		523297	5410291	backside of OC-11-DG-019 – walked around left side and down hill	large part of unit is same stuff (meta-sed), layer aprox 1m of light brown/brown weathered // very obviously layered (bedding?), *8m across by 4m high, vfg dark	fresh surface gray colour with 'sparkles' – muscovite? Small section of chlorite? flecks of pyrite?	Strike: 128° Dip: 60°, Some bedding preserved, pyrite? Causing slight lineation	11-DG-008		Sample # 11-DG-008 (weathered brown stuff that went off on Poly),, Pictures (x3) #Outcrop

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
									grey (slate color) metasedimentary (siltstone?).	Causing slight lineation, minor magnetite				OC-11-DG-020, #Outcrop OC-11-DG-020 2 and #Outcrop OC-11-DG-020 3, Bedding: 130/60, Sample taken of ~1m radioactive light brown to rusty bed
24-May-11	D. Grits aenk o	L. Marshall	OC-11-DG-021	103	I	523430	5410315	clearing with 'underground river' :)	5m w x 2m h, vfg light grey (slate color) metasedimentary (siltstone?).	<1mm muscovite/quartz/k-feld/biotite. Minor chlorite in micro fractures.	mostly massive	11-DG-009		saw boulder with pink (K-feldspar! - same as up 1 st hill in DHC) 10m back. Sample 11-DG-009 (has layer of chlorite and K-feldspar) Chilled margin? Large alkaline intrusive float 10m away. 2m high 5m long, bearing N-S

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
24-May-11	D. Grits aenk o	L. Marshall	OC-11-DG-022	103		523465	5410300	exposed outcrop aprox 1mx1m (partially covered by moss)	pink weathered surface, lighter pink is fresh surface --> same stuff as in OC-11-DG-001 (1 st day), pink/orange alkaline intrusive (Coldwell?)	quartz, K-feldspar, biotite?, mainly k-spar	mostly massive	11-DG-010		small chance that this is buried float,, sample 11-DG-010 (has 2 samples separatly in bag) photo #Outcrop OC-11-DG-022
24-May-11	D. Grits aenk o	L. Marshall	OC-11-DG-023	103		523536	5410293	~3m high, visible 10m across (up to ~50m?)	same stuff! 5M up to left quartz vein (~10cm across), vfg dark grey (slate color) metasedimentary (siltstone?).	minor magnetite	Strike: 148° Dip: 60°			40m long x 3-10 m high. Bedding: 148/60
24-May-11	D. Grits aenk o	L. Marshall	OC-11-DG-024	103		523650	5410319	other side of ravine	same meta-sed?	irregular quartz veining (mm scale)				
24-May-11	D. Grits aenk o	L. Marshall	OC-11-DG-025	103		523694	5410303	other side of outcrop? On huge hill, so lots of it	Meta-sed, vfg dark grey (slate color)	Magnetic – has magnetite *assuming all meta-sed previously has magnetite, but we did not confirm (only realized to check now)	mostly massive			float near by has magnetite, and same white asicular crystals as seen with Mal dow Road 2 (Picture #Outcrop OC-11-DG-025)
24-May-11	D. Grits aenk o	L. Marshall	OC-11-DG-026	103		523879	5410295	Went ~95 degrees past muddy road,		little bit of magnetite in some parts	microfolding/schistososity -> folding obvious,	11-DG-011		Sample # 11-DG-011, Photo

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
	o							around a cliffside, saw puddle with ice by cliff face and noticed schisosity/microf olding			alternating layers of gray, brown, lighter brown // Strike aprox N-S			#Outcrop OC-11-DG-026
24-May-11	D. Grits aenk o	L. Marshall	OC-11-DG-027	103	I	523904	5410299	~20m away from road	meta sed – metasil/sandstone. Aphanitic /// aprox 10m wide	slightly magnetic (magnetite?)				Photo # Outcrop OC-11-DG-027
25-May-11	D. Grits aenk o	L. Marshall	OC-11-LAM-001	103	H	523874	5410200	top of large cliff near river	Meta-sed, dark grey sparkly	Possibly magnetite/sp ecular hematite				easiest to enter from north side
25-May-11	D. Grits aenk o	L. Marshall	OC-11-LAM-002	103	H	523780	5410186	small area to get beside outcrop		hematite crystals? Appear silvery with hint of purple	outcrop contains vesicles, strike: 110 dip: 70	11-LAM-006		Picture *** Sample11-LAM-006 taken
25-May-11	D. Grits aenk o	L. Marshall	OC-11-LAM-003	103	H	523755	5410189	continuation of OC-11-LAM-002						10m up in elevation from OC-11-LAM-002
25-May-11	D. Grits aenk o	L. Marshall	OC-11-LAM-004	103	H	523622	5410211		same meta-sed,	large quartz vein 10-15cm wide	Strike:105 Dip:58			Picture***
25-May-11	D. Grits aenk o	L. Marshall	OC-11-LAM-005	103	H	523561	5410198		same meta-sed,					
25-May-11	D. Grits aenk o	L. Marshall	OC-11-LAM-006	103	H	523478	5410210	uphill past birch trees, lots of deadfall	dark grey meta-sed	breaking along cleavage perp. To bedding picture**	Left side of fault has minor fault cracks Fault Strike: 120 dip: 74 photo** Bedding strike:	11-LAM-007		Outcrop ~ 4m high

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
											290 dip: 50			
25-May-11	L. Mars hall	D. Gritsaenk o	OC-11-LAM-007	103	H	523399	5410205	boreal forest, Deadhorse Creek	vfg dark grey (slate color) metased (siltstone?).	too fine grained to tell, minute sparkly (silicates, specular hematite?) throughout	mostly massive			
25-May-11	L. Mars hall	D. Gritsaenk o	OC-11-LAM-008	103	H	523262	5410196	boreal forest, Deadhorse Creek	vfg dark grey (slate color) metased (siltstone?).	too fine grained to tell, minute sparkly (silicates, specular hematite?) throughout	mostly massive, some bedding			
25-May-11	L. Mars hall	D. Gritsaenk o	OC-11-LAM-009	103	H	523237	5410204	boreal forest, Deadhorse Creek	vfg dark grey (slate color) metased (siltstone?).	quartz vein	quartz boudin, cm scale			
25-May-11	L. Mars hall	D. Gritsaenk o	OC-11-LAM-010	103	H	523179	5410212	boreal forest, Deadhorse Creek	vfg dark grey (slate color), with dark green patches. metased (siltstone?).	hornblende	lineation on fresh surface, Appears waxy (v. sparkly)	11-LAM-008		
25-May-11	L. Mars hall	D. Gritsaenk o	OC-11-LAM-011	103	H	523140	5410192	boreal forest, Deadhorse Creek	vfg dark grey (slate color) metased (siltstone?).	too fine garined to tell, minute sparkly (silicates, specular hematite?) throughout				
25-May-11	L. Mars hall	D. Gritsaenk o	OC-11-LAM-012	103	H	523093	5410199	boreal forest, Deadhorse Creek	fg dark grey (slate color) metased (siltstone?).					West side of giant cliff, lots of cave-like areas and base boulders

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
25-May-11	L. Mars hall	D. Gritsaenk o	OC-11-LAM-013	103	H	523071	5410207	boreal forest, Deadhorse Creek	vfg to fg dark grey (slate color) metased (siltstone?).					quartz vein 10 cm with pyrite, host rock becomes more coarse grained around quartz vein
25-May-11	L. Mars hall	D. Gritsaenk o	OC-11-LAM-014	103	H	523004	5410196	boreal forest, Deadhorse Creek	vfg dark grey (slate color) metased (siltstone?).					
25-May-11	L. Mars hall	D. Gritsaenk o	OC-11-LAM-015	103	H/G	523010	5410148	boreal forest, Deadhorse Creek	vfg dark grey (slate color) metased (siltstone?).					
25-May-11	D. Gritsaenk o	L. Marshall	OC-11-LAM-016	103	G	523020	5410101	after this point, on top of the cliff, there is a grassy opening	surface light gray/brown, fresh surface dark gray, courser grained -> shiny massive but appears to have little crystals of hnbldn (?) (shiny silver stuff) foliated? [sample 11-LAM-010] other sample [11-LAM-009] has vein of actinolite (?) (diff rock?)			11-LAM-009		photo ***
25-May-11	D. Gritsaenk o	L. Marshall	OC-11-LAM-017	103	G	523091	5410104	other side of stream/ravine	same meta-sed,					beginning of oc
25-May-11	D. Gritsaenk o	L. Marshall	OC-11-LAM-018	103	G	523095	5410089	by stream, in ravine	breccia!! (?)fresh surface gray with veins of white and pearly white (quartz?), other bits have irregular veins of red.			11-LAM-11		outcrop continued from 017 // sample and photo ***
25-	D.	L.	OC-11-	10	G	5230	54100	end of OC 017 +						

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
May-11	Grits aenk o	Marshall	LAM-019	3		94	47	018						
25-May-11	D. Grits aenk o	L. Marshall	OC-11-LAM-020	103	G	523217	5410058		start of long cliff, same meta sed					
25-May-11	D. Grits aenk o	L. Marshall	OC-11-LAM-021	103	G	523283	5410069	North side of Lake!						continuation of path we took
25-May-11	D. Grits aenk o	L. Marshall	OC-11-LAM-022	103	G	523262	5410015	other side of lake (south)	white dyke cutting through gray metased (?)					photo ***
25-May-11	D. Grits aenk o	L. Marshall	OC-11-LAM-023	103	G	523465	5410105	rock climbed to get here	same meta-sed					
25-May-11	D. Grits aenk o	L. Marshall	OC-11-LAM-024	103	G	523503	5410105			muscovite, quartz, black mineral aligned/foliated?	alkalic dyke	11-LAM-012		Sample 11-LAM-012 taken photo**
25-May-11	D. Grits aenk o	L. Marshall	OC-11-LAM-025	103	G	523549	5410108		same meta-sed, not as many glitters					10m length
25-May-11	D. Grits aenk o	L. Marshall	OC-11-LAM-026	103	G	523569	5410127		same meta-sed,					
25-May-11	D. Grits aenk o	L. Marshall	OC-11-LAM-027	103	G	523681	5410097		gray/dark grey and shiny (fibrous)			11-LAM-013		sample 11-LAM-013 taken, where L. Marshall got shot in the leg,

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
														Photo***
25-May-11	D. Grits aenk o	L. Marshall	OC-11-LAM-028	103	G	523721	5410102		Same rock unit as OC-11-LAM-024					
26-May-11	D. Grits aenk o	Mal/G. Quist	OC-11-DG-027a	103	A	523648	5409476		quartz veins					cliff cont
26-May-11	L. Mars hall	W. Harman	OC-11-LAM-029	103	F	523420	5410003	two parallel outcrops on either side of traverse line	Dark grey fg meta-sed/volcanic, minor biotite/magnetite	biotite/magne tite/amphibol e, grains to small to say for sure	mostly massive, irregular faulting			
26-May-11	L. Mars hall	W. Harman	OC-11-LAM-030	103	F	523255	5409996	generally surrounded by spruce and birch	Dark grey fg meta-sed/volcanic, with m-scale felsic orange/pink (Coldwell?) intrusion	biotite/magne tite/amphibol e, grains to small to say for sure. Felsic appears to be k-spar/plagiocla seioclase/bioti te all fg	mostly massive, irregular faulting			
26-May-11	L. Mars hall	W. Harman	OC-11-LAM-031	103	E	523049	5409897	generally surrounded by spruce and birch	Dark grey mg meta-sed/volcanic, minor biotite/amphibolite	biotite/magne tite/amphibol e, grains to small to say for sure	mostly massive, irregular faulting			
26-May-11	L. Mars hall	W. Harman	OC-11-LAM-032	103	E	523510	5409910	generally surrounded by spruce and birch	Dark grey fine grained/mg meta-sed/volcanic, minor biotite/amphibolite	biotite/magne tite/amphibol e, grains to small to say for sure	mostly massive, irregular faulting			
26-May-11	L. Mars hall	W. Harman	OC-11-LAM-033	103	E	523597	5409897	generally surrounded by spruce and birch	Dark grey fine grained meta-sed/volcanic, minor biotite/amphibolite	biotite/magne tite/amphibol e, grains to small to say	mostly massive, irregular faulting			

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
										for sure				
26-May-11	L. Mars hall	W. Harman	OC-11-LAM-034	103	D	523556	5409807	generally surrounded by spruce and birch	Dark grey fine grained meta-sed/volcanic, with m-scale felsic orange/pink (Coldwell?) intrusion	biotite/magne tite/amphibol e, grains to small to say for sure	mostly massive, irregular faulting			
26-May-11	L. Mars hall	W. Harman	OC-11-LAM-035	103	D	523422	5409800	generally surrounded by spruce and birch	Dark grey very fine grained meta-sed, minor biotite/ green amphibolite	biotite/magne tite/amphibol e, grains to small to say for sure	mostly massive, irregular faulting			
26-May-11	L. Mars hall	W. Harman	OC-11-LAM-036	103	D	523340	5409803	generally surrounded by spruce and birch	Light grey, fine grained meta-sed	aphanite (grains too small), minor quartz veins (mm scale)	mostly massive, irregular faulting			
26-May-11	L. Mars hall	W. Harman	OC-11-LAM-037	103	D	523289	5409803	generally surrounded by spruce and birch	Light grey, fine grained meta-sed	aphanite (grains too small), minor quartz veins (mm scale)	mostly massive, irregular faulting			
26-May-11	L. Mars hall	W. Harman	OC-11-LAM-038	103	D	523115	5409810	generally surrounded by spruce and birch	Light grey, fine grained meta-sed	aphanite (grains too small), minor quartz veins (mm scale)	mostly massive, irregular faulting			
26-May-11	L. Mars hall	W. Harman	OC-11-LAM-039	103	C	523020	5409670	in a bit of a ravine	Light grey, fine grained meta-sed	aphanite (grains too small), minor quartz veins (mm scale)	mostly massive, irregular faulting			
26-May-11	L. Mars hall	W. Harman	OC-11-LAM-040	103	C	523409	5409689	generally surrounded by spruce and birch	Light grey, fine grained meta-sed	aphanite (grains too small), minor quartz veins (mm scale)	mostly massive, irregular faulting			
26-May-11	L. Mars	W. Harman	OC-11-LAM-041	103	C	523434	5409695	In a clearing on top of an	Light grey, fine grained meta-sed	aphanite (grains too	mostly massive, irregular faulting			Old Drill core box found,

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
	hall							outcrop		small), minor quartz veins (mm scale)				with bits of core.
26-May-11	L. Mars hall	W. Harman	OC-11-LAM-042	103	C	523540	5409681	In clearing on brow of small slope, close to trench near end of CIM road	Red cm-scale parabreccia (matrix supported) in dark grey matrix	breccia unknown (perhaps hematitic. Matrix aphanite (too fine-grained to tell)	mostly massive, irregular faulting	11-LAM-014		contains CaCo3
26-May-11	L. Mars hall	W. Harman	OC-11-LAM-043	103	B	523639	5409598	In clearing on brow of large slope	Dark to light grey fine grained meta-sed/vol	minor biotite/amphibole, generally aphanite	mostly massive, irregular faulting			
26-May-11	L. Mars hall	W. Harman	OC-11-LAM-044	103	B	523539	5409599	generally surrounded by spruce and birch	Dark to light grey fine grained meta-sed/vol	minor biotite/amphibole, generally aphanite	mostly massive, irregular faulting			
26-May-11	L. Mars hall	W. Harman	OC-11-LAM-045	103	B	523424	5409608	generally surrounded by spruce and birch	Dark to light grey fine grained meta-sed/vol	minor biotite/amphibole, generally aphanite	mostly massive, irregular faulting			
26-May-11	L. Mars hall	W. Harman	OC-11-LAM-046	103	B	523230	5409606	generally surrounded by spruce and birch	Dark to light grey fine grained meta-sed/vol	minor biotite/amphibole, generally aphanite	mostly massive, irregular faulting			
26-May-11	L. Mars hall	W. Harman	OC-11-LAM-047	103	B	523165	5409609	generally surrounded by spruce and birch	Dark to light grey fg meta-sed/vol	minor biotite/amphibole, generally aphanite	mostly massive, irregular faulting			
26-May-11	M. Dalsi	L. Marshall/	OC-11-MLD-024	103	F	523688	5410008	outcrop on cliff	green metasedimentary rock	chlorite and micas				7m across

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
	n	W. Harman							with obvious schistosity					
26-May-11	M. Dalsin	L. Marshall/W. Harman	OC-11-MLD-025	103	F	523625	5410006	outcrop next to built road	mostly green metaseds with obvious schistosity and cgr biotite w/ mgr xenoliths. Faulted zone with red breccia clasts and some possible hematization present. Breccia clasts range from 1cm to 20cm's	chlorite, cgr biotite, mgr xenoliths with amphiboles	irregular fault	11-WJH-004, 11-WJH-005		2 rock samples taken 1 with a xenolith
26-May-11	M. Dalsin	L. Marshall/W. Harman	OC-11-MLD-026	103	F	523506	5409977		metasedimentary					
26-May-11	M. Dalsin	L. Marshall/W. Harman	OC-11-MLD-027	103	F	523387	5409993		metasedimentary					
26-May-11	M. Dalsin	L. Marshall/W. Harman	OC-11-MLD-028	103	E	523198	5409905		metasedimentary					
26-May-11	M. Dalsin	L. Marshall/W. Harman	OC-11-MLD-029	103	E	523360	5409913		metasedimentary					
26-May-11	M. Dalsin	D. Gritsaenko/G. Quist	OC-11-MLD-030	103	A	523706	5409519	large cliff face w/ smaller rock showings and high spectrometer values to the northWest	several faults through the outcrop and various angles main fault at around 10degrees others are possibly splays (?) Appears to be mostly massive metasedimentary or metavolcanic Some hematite alteration. High spectrometer area	chlorite, biotite, amphibole, hematite	faulting @ ~10 degrees	11-GMQ-007		cliff is 25-30m across. 7 photos. End of outcrop at 523721E 5409488N. High spectrometer at 523703E,

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
									appears to be a weak breccia					5409531N.
26-May-11	M. Dalsi n	D. Gritsaenk o/G. Quist	OC-11-MLD-031	103	A	523533	5409502	small outcrop w/ one area spectrometering very high, nearby clearing	metasedimentary w/ some possibly hematized clasts. Some very fine grained lines of bright pink to coral (possible REE minerals).	K-feldspar, plagioclase, quartz, and biotite. Local pyrite		11-MLD-007		
27-May-11	L. Mars hall	Mal/W. Harman	OC-11-LAM-048	102	B	524110	5410116	generally surrounded by spruce/birch	Dark grey to light grey meta-sed/volcanic	generally aphanite, with tiny shiny specs (biotite/hematite/magnetite?)	mostly massive			5m outcrop
27-May-11	L. Mars hall	Mal/W. Harman	OC-11-LAM-049	102	B	524088	5410231	2 meter cliff along the edge of a ravine	Dark grey to light grey meta-sed/volcanic, folded on a cm/scale with pink/orange felsic bands or clasts interfolded within. Breccia visible on the West side of the outcrop	2 cm quartz vein present	Chaotic Folding	11-WJH-007		Perhaps a brittle ductile transition zone associated with a fault, as some felsic clasts (breccia) are undeformed. 5m outcrop bearing 340
27-May-11	L. Mars hall	Mal/W. Harman	OC-11-LAM-050	102	B	524104	5410257	2-3 m cliff on opposite side of ravine to outcrop above (049)	~2 meter quartz vein running more or less vertically through the fine grained dark-grey meta-sed/volcanic host rock. Quartz vein contains cm-scale fine grained orange intrusive veins with cross-cutting			11-LAM-016		Quartz vein fractures quite easily, perhaps due to weathering. 10m outcrop bearing 300

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
									relationships, whit perhaps REE mineralization					
27-May-11	L. Marshall	Mal/W. Harman	OC-11-LAM-051	102	B	524120	5410274	generally surrounded by spruce and birch	Partially meta-sed/vol mixed with pink orange felsic breccia	generally aphanite,	mostly massive			10m outcrop bearing 300
27-May-11	L. Marshall	Mal/W. Harman	OC-11-LAM-052	102	B	524107	5410698	generally surrounded by spruce and birch	Meta-sed/vol mixed with pink orange brecciation with larger (up to 20 cm) anhedral clasts	generally aphanite,	mostly massive			3m outcrop parallel to line
27-May-11	L. Marshall	Mal/W. Harman	OC-11-LAM-053	102	B	524139	5410849	generally surrounded by spruce and birch	Meta-sed/vol mixed with pink orange brecciation with larger (up to 20 cm) anhedral clasts	Minor biotite, mm crystals	mostly massive			15m outcrop bearing 200
27-May-11	L. Marshall	Mal/W. Harman	OC-11-LAM-054	102	B	524200	5410570	Along >50m long ~5-10m cliff face	Meta-sed/vol mixed with pink orange brecciation with larger (up to 20 cm) anhedral clasts	Minor biotite, mm crystals	mostly massive			smelled smoke from Nippigon forest fire, ~50m outcrop bearing 225
27-May-11	M. Dalsin	L. Marshall/W. Harman	OC-11-MLD-032	102	B	524101	5410251	across the valley from OC-11-LAM-049, on hill. Great outcrop with large quartz veins and metaseds	Country rock is metaseds with some possible hematite alteration of local breccia clasts and very fine grained veinlets of REE mineralization. Xcutting the country rock are thick irregular quartz veins with visible REE mineralization (beige, peach and pink). There are 3 apparent quartz veins.	Possible hematization. REE mineralization in bands at no particular orientation through the quartz veins. Margins of the bands are straight and parrallel to eachother so mineralization	Outcrop is striking at 320 degrees but vn structures have no apparent orientation	11-WJH-008, 11-WJH-009, 11-LAM-015		start of outcrop 524107E, 5410257N. End outcrop 524092E, 5410264N. Multiple photos. Possible fault in the valley between this outcrop and OC-11-LAM-

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
										is possibly following fractures or vein like and maybe xcutting the quartz.				049. 4 rock samples. Amazing outcrop!
27-May-11	M. Dalsin	L. Marshall/W. Harman	OC-11-MLD-033	102	B	524140	5410300	Outcrop in small clearing with crazy high spectrometer values coming from one area of the outcrop	mostly dark grey to green meta sed host rock with some pink to red breccia fragments. One area w/ little pink has spectrometer readings to 3900cps. Clasts in breccia are sub angular and vary in size	pink clasts appear to have some REE mineralization and K-feldspar. High spectrometer values are caused by something		11-MLD-009		rock sample and assay
29-May-11	M. Dalsin	L. Marshall, D. Gritsaenko	OC-11-MLD-007	102	C	524189	5410210	uphill of build road and close to the turn in the road	Country rock is metaseds with red/pink breccia fragments and some irregular veining of what might be quartz (nepheline?) and potential REE mineralization. Country rock is aphanite. Breccia fragments are 1cm to 10cm, red to pink red and may be hematized	REE minerals? K-feldspar	mostly massive with some weak foliation	11-LAM-017	A1086, A1087	
29-May-11	M. Dalsin	L. Marshall, D. Gritsaenko	OC-11-MLD-014	102	C	524190	5410159	small clearing with small trees	Cleared outcrop area was about 2m across. Host rock is dark grey metaseds with large zones of mineralization and brecciation. Rock is magnetic.	Mineralization is dominantly beige to pink on the weathered surface. Beige mineral	massive and brecciated	11-LAM-018	A1088	spectrometer started to get high values so we started to dig and clear away moss

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									Mineralization zones are patchy	scratches to dark grey. Magnetite present in the country rock and possible hematization in the breccia clasts				to expose the outcrop
29-May-11	M. Dalsin	L. Marshall, D. Gritsaenko	OC-11-MLD-015	102	C	524227	5410094	on the edge of the hill	exposed outcrop with high spectrometer values. Red to redish pink brecciation. Red colour may be due to hematization of the clasts. This looks similar to OC-11-MLD-014. Dark grey country rock (metaseds). This outcrop extends downhill w/ varying degrees of spectrometer values	Possible hemitization of the breccia clasts. Some possible REE minerals visible and K-feldspar. Magnetite	massive to brecciated	11-LAM-019	A1089	
29-May-11	M. Dalsin	L. Marshall, D. Gritsaenko	OC-11-MLD-034	102	C	524202	5409995	looking up at a cliff. Lots of moss and deadfall. Had to clear in order to help expose outcrop.	host rock is dark grey w/ quartz veins hosting pink mineralizations and brecciation. Mineralization is irregular veins or breccia w/ some veins composed of quartz.	Mineralization is associated with the quartz veins and is mostly red in colour. Some of it looks hematized or K-feldspar rich. Some possible REE minerals. Xcutting the red hematised	massive to brecciated	11-LAM-020	A1090, A1091	Outcrop extends from here all the way to Grid 102 point D01.

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
										areas is magnetite rich veinlets and quartz veinlets				
29-May-11	M. Dalsin	L. Marshall, D. Gritsaenko	OC-11-MLD-035	102	D	524296	5410354	after two soil assays and lots of deadfall	Breccia outcrop with anomalous spectrometer values. Host rock is dark grey metaseds	large hematized clasts with some possible REE mineralization and K-feldspar.	massive to brecciated		A10931	
30-May-11	D. Gritsaenko	Mal, W. Harman	OC-11-DG-030	102	E	524407	5409994	By clearing at first point	dark grey, probably meta sed with white veins	K-feldspar				
30-May-11	D. Gritsaenko	Mal, W. Harman	OC-11-DG-031	102	G	524602	5410017	north side of bog	Meta-volcanic amphibolite, pinkish grey weathered surface	quartz, K-feldspar, hnbld, biotite and pyrite		11-WJH-010		vein could be dyke from Coldwell Complex
30-May-11	D. Gritsaenko	Mal, W. Harman	OC-11-DG-032	102		524886	5409995	clearing with lots of deadfall	Coldwell Complex (K-feldspar rich granite), one area more hematized (aprox 1-2m wide)	K-feldspar, quartz, hnbld and mafics		11-WJH-011 and 11-WJH-012	A1096	
30-May-11	D. Gritsaenko	Mal, W. Harman	OC-11-DG-033	102	H	524711	5410209	on small slope down hill in deadfall area, in front of clearing with alders	Meta-seds, aphanite (irregular contact with meta volcanics)	mafics, quartz and plagioclase	contact			
30-May-11	D. Gritsaenko	Mal, W. Harman	OC-11-DG-034	102		524908	5410206	by bog area, with dead fall	Meta-seds with irregular vein of quartz	K-feldspar, quartz	Dip: 50 Strike: 222			
30-May-11	D. Grits	Mal, W. Harman	OC-11-DG-035	102		524587	5410320	gully, outcrop on both sides	Meta-seds, NW side has asicular	amphibole, K-feldspar				

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
	aenk o								white/green amphibole crystals	quartz				
30-May-11	D. Grits aenk o	Mal, W. Harman	OC-11-DG-036	102		524407	5410329	up cliff near boggy clearing	Meta-sed					
30-May-11	D. Grits aenk o	Mal, W. Harman	OC-11-DG-037	102		524390	5410300	up cliff with lots of deadfall	breccia, irregular clasts, vary from ~1cm-30cms	quartz, K-feldspar, plagioclase, possible REEs, hematization				
1-Jun-11	M. Dalsi n	L. Marshall, G. Quist	OC-11-MLD-036	102		524254	5410388	on other side of alders on top of small hill	dark grey host rock with red breccia fragments that are angular to sub angular. Some fragments are grey with red rims. Host rock is aphanite	possible hematized clasts. Fine grained pyrite and weakly magnetic		11-GMQ-008	A1101	
1-Jun-11	M. Dalsi n	L. Marshall, G. Quist	OC-11-MLD-037	102		524699	5410551	in a clearing with lots of deadfall	grey metasedimentary		bedding strike-280, dip-50			
1-Jun-11	M. Dalsi n	L. Marshall, G. Quist	OC-11-MLD-038	102		524688	5410734	close to a small clearing	mostly grey metasedimentary with some localized breccia areas. Breccia fragments are hematized and sub angular with varying sizes					Soil assay taken close by
2-Jun-11	D. Grits aenk o	L. Marshall	OC-11-DG-043	104		523732	5409397	beginning of steep incline near river	aphanite, grey, hematization in micro fractures – metased	mafics				
2-Jun-11	D. Grits aenk o	L. Marshall	OC-11-DG-044	104		523672	5409393	along little valley that follows steep incline	meta-sed/meta-volcanic, med grained grey rock	mica?, mafics, quartz, magnetite				
2-Jun-	D.	L.	OC-11-DG-	10		5235	54094	partial clearing	aphanite, grey, meta-		cm scale parallel			

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11	Grits aenk o	Marshall	045	4		67	01	near top of hill	sed/meta-volcanic		cleavage			
2-Jun-11	D. Grits aenk o	L. Marshall	OC-11-DG-046	104		523201	5409184	area of pine trees with lots of dead branches	Meta-sed, aphanite,	minor quartz veins	possibly old bedding plains			
2-Jun-11	D. Grits aenk o	L. Marshall	OC-11-DG-047	104		523198	5409102	dead fall, sort of mossy area	grey fine grained, platy, schisty rock, foliated					
2-Jun-11	D. Grits aenk o	L. Marshall	OC-11-DG-048	104		523208	5408999	mossy area near creek	aphanite, meta-sed, dark grey, massive					
2-Jun-11	D. Grits aenk o	L. Marshall	OC-11-DG-049	104		523303	5409048	area with lots of standing dead trees	Meta-volcanic, coarse grained	K-feldspar, biotite, quartz, magnetite, plagioclase?				
2-Jun-11	D. Grits aenk o	L. Marshall	OC-11-DG-050	104		523627	5408993	by 4m high cliff	aphanite, grey, meta-sed					
3-Jun-11	D. Grits aenk o	L. Marshall	OC-11-DG-051	104	C	523793	5409183	up steep hill, through standing dead trees	Smal meta-sed outcrop covered by moss, grey and very fine grained – more so than usual					
3-Jun-11	D. Grits aenk o	L. Marshall	OC-11-DG-052	104	B	523805	5409083	mossy clearing with scattered trees and deadfall, slightly uphill	breccia, ortho-conglomerate, but has more matrix than previously seen				A1108	
3-Jun-11	D. Grits aenk o	L. Marshall	OC-11-DG-053	104		523890	5409060	along hill, birch tree revealing possible float or outcrop of breccia	breccia, smaller clasts and more rounded					

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3-Jun-11	D. Gritsaenko	L. Marshall	OC-11-DG-054	104	A	524093	5408998	up extremely steep cliff	Meta-sed, aphanite and grey.	Quartz vein 2-3cm vein				
3-Jun-11	D. Gritsaenko	L. Marshall	OC-11-DG-055	104	A	524223	5409010	clearing with several birch trees with a little bit of deadfall	Meta-sed, aphanite, grey, and somewhat schisty // intruded by aprox 2m wide Coldwell Complex dyke (light coral pink)	pink intrusion: quartz, plagioclase, K-feldspar, very minor amphibole (5%)/	dyke			
3-Jun-11	D. Gritsaenko	L. Marshall	OC-11-DG-056	104	A	524356	5409008	marshy area	Meta-sed, grey, aphanite	quartz and pyrite				
3-Jun-11	D. Gritsaenko	L. Marshall	OC-11-DG-057	104	A	524482	5409006	backside of small mossy hill with deadfall, trees grow fairly wide apart	pink, orangish colour, weathered with visible porphyroblasts of black minerals, mm scale --> metavolcanic/colwell complex?	K-feldspar, mm wide scale black minerals		11-LAM-025	A1109	
3-Jun-11	L. Marshall	D. Gritsaenko	OC-11-LAM-055	105	D	523797	5409284	Ravine coming down from cliff with stream, outcrop being incised by stream.	Spectacular brick red/orange ortho breccia, 1-20 cm clasts.	Both breccia clast and minor dark grey meta-sed were both too fine-grained to tell	massive orthobreccia (clast supported)	11-LAM-024		stream cutting breccia had bed full of breccia clasts.
5-Jun-11	D. Gritsaenko	L. Marshall, G. Quist	OC-11-DG-058	104	B	524038	5409092	10m past road near fallen logs, up steep cliff	small OC, dark grey, meta sed with mm quartz grains dispersed throughout	quartz grains and dark grey aphanite mins (too fine grained to tell)				
5-Jun-11	D. Gritsaenko	L. Marshall, G. Quist	OC-11-DG-059	104	B	524069	5409099	flat ledge on continuously rising steep hill, fairly clear with	felsic dyke (light brown, 10cm across) weathers slightly red, host rock is dark grey meta-sed	minor pyrite flecks, dark gray aphanite mins with			1320 - A1113	dug from under moss, found by spectromete

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								plant life		white flecks (quartz?)				r going off near by. Further up we dug up another OC with felsic dyke, running through meta-sed, spectromete r reading up to 800 in cracks
5-Jun-11	D. Grits aenk o	L. Marshall, G. Quist	OC-11-DG-060	104	B	524300	5409137	OC in fairly dense cover near crown of incline	W side of OC is metased, fine grained, aphanite. Sharp contact with pink rock (Coldwell Complex?)	K-feldspar with large black grains (amphiboles? Hrnblnd?)	contact			
5-Jun-11	D. Grits aenk o	L. Marshall, G. Quist	OC-11-DG-061	104	C	524382	5409199	sparse trees in valley between steep inclines	OC is 50m bearing E-W, 3m high, mostly covered by moss which was uncovered. West side reveals meta-sed broken up into vein breccia by felsic dyke. Where light felsic veins are thick, they're pink in the centre. East side has same thing overop a thick layer of same pink felsic alkalic unit.	Possibly K-feldspar (too fine grained to tell), could possibly include fine grained quartz,	breccia			3 Photos (1 st of W side, 2 nd of East, 3 rd of both.). Further down to the East, another contact was found under the moss (diagram in notes.)
5-Jun-11	D. Grits aenk o	L. Marshall, G. Quist	OC-11-DG-062	104	C	524513	5409196	slight plateau of incline, sparse trees, little deadfall	2m of OC exposed, underside is pink and seems coarse grained, possible Coldwell Complex, felsic intrusive? Too hard to	metavolcanic: aphanite grey, shiny flecks (micas?) K-feldspar. Pink is K-feldspar?				Further up, another meta-volcanic intruded by pink, 1-2cm

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									break off a fresh surface. Meta-volcanic is overlaying the pink though contact is not obvious, and not obvious whether it is float or felsic intrusion in meta-volcanic					wide. Intrusion is felsic intrusion, meta-volcanic has small black shiny mafic? Crystals
5-Jun-11	D. Grits aenk o	L. Marshall, G. Quist	OC-11-DG-063	104	C	524541	5409203	hillside, several birches with peeling bark, deciduous and coniferous trees scattered	pink weathered surface, covered by moss (pink felsic granite?)	K-feldspar medium grained with quartz			1320 - A1115	
5-Jun-11	D. Grits aenk o	L. Marshall, G. Quist	OC-11-DG-064	104	C	524552	5409201	same area as OC-11-DG-063	several meters long, meta-sed, layers of brown and brown aprox 2cm thick in vertical layers, with a large quartz sill(?)	aphanite grey and green, unknown minerals		11-LAM-026		
5-Jun-11	D. Grits aenk o	L. Marshall, G. Quist	OC-11-DG-065	104	D	524577	5409302	mossy area, sparse trees in valley	1m high, 15m long, under moss; weathered pink colour (dark coral pink), small fresh surface obtained - coral pink with black minerals (amphibole?) scattered throughout	K-feldspar? Hrnblnd? Quartz?		11-LAM-027	1320 - A1116	
5-Jun-11	D. Grits aenk o	L. Marshall, G. Quist	OC-11-DG-066	104	C	524295	5409199	side of gully on incline, mossy area by puddle (previously creek?)	side of 3m OC, weathered enough to form large indent to reveal pink/brown weathered surface with black clasts (2-15cms). Further to south side, there are pink clasts of breccia in white felsic	K-feldspar, plagioclase, amphiboles, quartz, unknown white/beige minerals. Most very fine grained.	breccia	11-LAM-028	1320 - A1117	colour of breccia varies – weathering differences? Magmatic fluid differences?

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
									intrusion. On fresh surface, matrix is meta-sed, (grey, greenish tinge) with white clasts – felsic intrusions.					
5-Jun-11	D. Grits aenk o	L. Marshall, G. Quist	OC-11-DG-067	104	C	524271	5409202	on top of incline, thick mossy area	East side is white felsic, fine grained quartz? 5Cm black breccia pieces. Top West corner is whiter colour with foliated amphiboles.		breccia			
5-Jun-11	D. Grits aenk o	L. Marshall, G. Quist	OC-11-DG-068	104	C	524261	5409201	same area as OC-11-DG-067, further up hill	under 2ft of moss, dug up when spectrometer went off. Weathered surface is brownish, dark grey, with pink felsic intrusion. A meter to the left, seperated by moss is same orangish pink as intrusion. 2M up spectrometer shows higher reading, under moss we find same brownish grey unit, but better shows large black clasts. Host rock of meta-sed with pink intrusion.	pink, possibly K-feldspar. Orange unknown – possibly weathering. Dark grey to fine grained to tell, possible meta-sed.	intrusion	11-LAM-029, 11-LAM-030	1320 - A1119	
5-Jun-11	D. Grits aenk o	L. Marshall, G. Quist	OC-11-DG-069	104		524225	5409182	down slope, mossy	15m long, 2m high outcrop. From North to South: Meta-volcanics, then 1m section of pink unit with black clasts, then meta-sed, then 2m of pink with black clasts, then to finer	Magnetite (metased highly magnetic,, whereas metavolcanic was not)				Not enough time to uncover more and search for contacts.

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
									grained meta-sed.					
6-Jun-11	M. Dalsin	D. Gritsaenko, W. Harman	OC-11-MLD-041	104	A	524605	5408980	small gully w/ meta sed and meta volcanic on either side. Possibly a fault through the middle	2 walls on either side of the gully with metased and metavolcanic. Low spectrometer values on the walls with 300-600cps on the floor (possibly float). Metased is very fine grained to mgr w/ some pyrite and weakly magnetic. Meta volcanic is fine grained to mgr, grey on weathered surface and dkgy to grey on fresh	possible magnetite in the meta sed. 60-70% plagioclase and quartz in the meta volcanic, with ~30% mafics (mostly amphibole with some bt). Some pyrite in both	possible fault between the gully			
6-Jun-11	M. Dalsin	D. Gritsaenko, W. Harman	OC-11-MLD-042	104	A	524850	5409014	at the edge of a cliff	pink on weathered and fresh surface. Appears to be the coldwell complex.	cgr K-feldspar with minor quartz and plagioclase and mafics				15m across to the east
6-Jun-11	M. Dalsin	D. Gritsaenko, W. Harman	OC-11-MLD-043	104	B	524999	5409089	up the hill from swamp w/ some deadfall	three lithologies present after clearing the moss away. Coldwell complex, metased and a breccia of the both.	The coldwell complex is pink on the weathered and fresh surface with mgr K-feldspar and minor quartz, plagioclase and mafics. The metased is dark grey on weathered and fresh with very fine grained		11-DH-014		Coldwell complex intruding in to the metased (?) colour slightly changed from normal due to brecciation or because its very cgr

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										mineralization and possible magnetite. The breccia has dark grey metased clasts. Clasts are angular to sub angular and 2cm to 20cm at depth. matrix is mgr to cgr K-feldspar but is more peach looking than pink, cgr grey quartz and mgr quartz with some minor plagioclase and mafics.				
6-Jun-11	M. Dalsin	D. Gritsaenko, W. Harman	OC-11-MLD-044	104	B	524802	540912	almost 100m of cliff with lots of water coming down the cliff	the most easterly part of the outcrop is all Coldwell complex with a 30cm wide mafic dyke. After this it appears to be interfingering of the coldwell complex with metased and metavolcanic. (contact?) with some irregular quartz veins	the Coldwell complex is pink to red on the weathered surface. Red could be from Fe oxide staining. Mostly mgr K-feldspar with some plagioclase and quartz and mafics.			A1123	end of outcrop 524709E, 5409108N

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										Metased is very fine grained dark grey and weak to moderately magnetic (magnetite?). Metavolcanic is grey to peach on the weathered surface, grey on fresh surface with >40% mafics and some plagioclase and quartz with some pyrite, mgr to fine grained.				
6-Jun-11	M. Dalsin	D. Gritsaenko, W. Harman	OC-11-MLD-045	104	B	524701	5409114	in a gully on the other side of the end of the previous outcrop	mostly grey metased w/ chaotic bedding. Some irregular xcutting quartz veins with K-feldspar and some xcutting K-feldspar veinlets	quartz veins with K-feldspar and some other possible fine grained mineralization . 1-3cm xcutting both metased and quartz veins K-feldspar veinlets		11-WJH-018		
6-Jun-11	M. Dalsin	D. Gritsaenko, W. Harman	OC-11-MLD-046	104	C	524197	5409194	in small clearing going down hill	mostly metased w/ pink felsic dyke intrusive. One rock sample has a high	mostly meta sed that is very fine grained with		11-LAM-031	A1119	previous rock sample taken but come back

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
									spectrometer (up to 2000cps) that was taken from the main outcrop. This seems to be localized	felsic dyke (K-feldspar, plagioclase and quartz). Metavolcanic on the lower ledge with mgr hbl, plagioclase and bt				for a closer look at the outcop
6-Jun-11	M. Dalsin	D. Gritsaenko, W. Harman	OC-11-MLD-047	104	C	524136	5409211	at the edge of the hill and can see the road below	breccia. Metased and metavolcanic w/ pink fine grained crystalline fragments. Metased is very fine grained and dark grey and hosts the majority of the larger clasts. The metavolcanic is mgr dark grey with smaller clasts. The breccia clasts are very fine grained crystalline pink to peach with some small xenoliths of fine grained mafics	metased is very fine grained, metavolcanic is mostly hbl and bt with some plagioclase and quartz. The fragments are to fine grained to tell		11-WJH-019		
7-Jun-11	M. Dalsin	L. Marshall, G. Quist	OC-11-MLD-048	104	D	524921	5409309	in pine trees w/ swarms of bugs	meta-volcanic that is grey on the weathered surface and peach on the fresh surface	mgr to cgr plagioclase, K-feldspar, quartz and mafics. The mafics appear to be mostly hbl. Moderately to strongly magnetic (magnetite).	massive	11-LAM-034		

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
7-Jun-11	M. Dalsin	L. Marshall, G. Quist	OC-11-MLD-049	104	D	524621	5409298	in clearing at the edge of a small cliff	mostly metased w/ some interfingering coldwell complex. The coldwell is pink and the meta sed is grey on both weathered and fresh surface. Contact between the 2 lithologies is sharp and irregular.	The coldwell complex is very fine grained to crystalline and the meta sed is very fine grained and moderately magnetic (magnetite)	foliation strike - 142, dip - 62			
7-Jun-11	M. Dalsin	L. Marshall, G. Quist	OC-11-MLD-050	104	D	524508	5409250	A very large cliff that was walked up and along off the line in order to see the most outcrop.	Started off at the bottom of the cliff with a strongly magnetic meta sed. It transitioned into metased w/ pink very fine grained felsic dykes to a mgr metavolcanic, to metased and then very fine grained pink volcanic. This then was metased w/ a small 30-40cm quartz vein and a 5-10cm felsic dyke. Finally there was metased all along until the top of the ridge where there was a dark grey to blk meta volcanic	The metased varies from weakly to strongly magnetic (magnetite present) and is dark grey and very fine grained. The metased is generally mgr to cgr with plagioclase, K-feldspar, quartz and abundant mafics (mostly hbl but some bt). The felsic dyke is pink to peach and very fine grained to crystalline	some localized folding	11-LAM-035		This overall outcrop is one large cliff with changing lithologies between felsic alkaline dykes, metasedimentary and metavolcanic rocks.
7-Jun-11	M. Dalsin	L. Marshall,	OC-11-MLD-051	104	D	524287	5409333	on the edge of the hill coming	Mostly a dark green schist (metased) w/ a	The metased has chlorite	schistosity strike 270 dip 80. The	11-LAM-036	A1126	

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
	n	G. Quist						down line D. Outcrop is exposed by overturned tree.	high spectrometering fault running through the middle. The fault is possibly resealed and looks to be massive metased. The fault is also more weathered and fractured than the surrounding rock. Fault is about 15cm across.	alteration and is very fine grained. Fault metased is fine grained with chlorite and Fe oxide alteration. Fault is also very magnetic (magnetite)	fault follows the same structure as the schistosity			
7-Jun-11	M. Dalsin	L. Marshall, G. Quist	OC-11-MLD-052	104	D	524254	5409366	going down the hill in a small clearing	Breccia. Metased host rock with red fragments. The fragments are 1cm to 20cm across. The metased is grey and the clasts are red on both the weathered and fresh surface.	The metased is very fine grained and moderately magnetic (magnetite). The fragments appear to be hematized and are very fine grained.		11-LAM-037	A1128	
9-Jun-11	D. Grits aenk o	L. Marshall, W. Harman	OC-11-DG-070	104	E	524056	5409413	up first super steep incline	Meta-sed, gray, aphanite, no magnetism	too fine grained for mineralogy, mafics?			1320 - A1129	
9-Jun-11	D. Grits aenk o	L. Marshall, W. Harman	OC-11-DG-071	104	E	524163	5409410	further up steep incline near road – near 2 fairly large birch trees	2-3m high, patched by moss, mainly metased (gray, aphanite) with areas intermixed with breccia (pink clasts, mostly 2-6cm, some slightly larger than 10cm) and metavolcanic (coarser grained gray rock, coarser grained especially around	metased: minor pyrite, greenish tinge (chlorite – green schist metamorphism?) metavolcanic: minor magnetite in gray breccia: K-feldspar,				

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
									breccia clasts)	minor amphiboles				
9-Jun-11	D. Grits aenk o	L. Marshall, W. Harman	OC-11-DG-072	104	E	524221	5409406	further up steep incline to the East beside road, sort of clearing, sparse trees, one large deadfall	1m high, about 5m long, fairly covered by moss, weathered brown and gray, some pink – could not break off piece (too flat) from where it gave highest spectrometer value	K-feldspar?			1320 - A1130	spectromete r high possibly because of micro fault
9-Jun-11	D. Grits aenk o	L. Marshall, W. Harman	OC-11-DG-073	104	E	524294	5409402	grass ledge with a couple of thin coniferous and deciduous trees, nearer to OC, further up steep cliff	aprox 1m high, meta-sed unit overlying another possibly different (or simply weathered-was covered by moss) brownish/gray coloured, which is further overlying the pink (coldwell complex?) unit with the same gray/brown vein intruded into it, with a medium mass of quartz collecting at the junction point. Vein unit could possibly be reaction margin between metased and coldwell	Coldwell: K-feldspar, and amphiboles. Metased: flecs of pyrite and quartz, very fine grained – mafics/magne tite		11-LAM-038	1320 - A1131	sketch in notebook
9-Jun-11	D. Grits aenk o	L. Marshall, W. Harman	OC-11-DG-074	104	E	524326	5409405	up steep incline, deadfall, dead leaves, dead trees, small clearing	3m high, ~20m long: S side is metased, N shows pink Coldwell Complex, close to N a smaller height and less steep incline covered by moss spectrometer high at 8300 cps.	magnetite in matrix or breccia? Minor pyrite		11-WJH-020	1320 - A1133	broken powder is slightly fizzy – dolomitic reaction?

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
									uncovered a gray, fairly shiny unit when broken – possibly gray breccia visible. Confirmed by appearance of broken OC left in jagged pieces.					
9-Jun-11	D. Grits aenk o	L. Marshall, W. Harman	OC-11-DG-075	104	E	524419	5409389	little valley, fairly scattered spruces	1m high, 10m long, metased with mafic vein: both slightly magnetic. Dark grey, some pink and shiny	mafics, scattered K-feldspar, hornblende, some magnetite in both				
9-Jun-11	D. Grits aenk o	L. Marshall, W. Harman	OC-11-DG-076	104	E	524621	5409397	clearing in valley-like area near many alders	5m long, 1m high – weathered beige/white and foliated (following ancient bedding?) metased. Quartz boudin visible	magnetite, otherwise very fine grained – quartz	Strike: 112 Dip: 60			further up, there is an upturned tree revealing pink coldwell and gray metased contact. Pink reads 550 cps
9-Jun-11	D. Grits aenk o	L. Marshall, W. Harman	OC-11-DG-077	104	E	524641	5409404	side of incline, toppled tree sparse tree cover	upturned tree revealing pink OC with white minerals (½ - ¾ cm long, mm wide) possibly plagioclase, (different from prev seen [white elongated in gray])	pink: plagioclase				
9-Jun-11	D. Grits aenk o	L. Marshall, W. Harman	OC-11-DG-078	104	F	524989	5409479	near swamp, last OC before swamp on line	coarse grained, orange/pink. 15M long, 1m high	K-feldspar, amphiboles, muscovite? Quartz				
9-Jun-11	D. Grits	L. Marshall,	OC-11-DG-079	104	F	524877	5409497	deadfall, grassy area, among	large OC, aprox 5m high by 50m long. Veins	coldwell: aphanite -> K-				

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
	aenk o	W. Harman						spruce trees	of pink coldwell running through metased. Veins are 10-20cm with large area of pink near top of OC	feldspar, with bits of amphiboles, metased: no magnetite, too fine grained to tell				
9-Jun-11	D. Grits aenk o	L. Marshall, W. Harman	OC-11-DG-080	104	F	524792	5409491	in mini vally, continuation of large cliff like OC	intermixed pink/gray – not sure if its Coldwell or mixture of felsic and metased	very coarse grained, K-feldspar + amphiboles -> half mafics, half felsics		11-WJH-021		
9-Jun-11	D. Grits aenk o	L. Marshall, W. Harman	OC-11-DG-081	104	F	524745	5409477	mossy area, mossy OC, sparse spruce trees	contact between metavolcanic (coarse grained, dark gray) and Coldwell (pink/orange, medium grained)	Coldwell: amphiboles, K-feldspar		1320 - A1134		
10-Jun-11	D. Grits aenk o	Mal, G. Quist	OC-11-DG-082	104	F	523989	5409511	up steep incline by road, clearing with grassy flat area	10m long, light gray, kinda blotchy white areas from weathering and moss --> metased (aphanite, gray) with breccia (pink clasts up to 5cm wide)	host rock and clasts are very fine grained, clasts appear hematized		11-GMQ-009	1320 - A1136	
10-Jun-11	D. Grits aenk o	Mal, G. Quist	OC-11-DG-083	104	F	524007	5409499	on a hill with lots of dead pointy trees, and fairly mossy	breccia, gray metased (aphanite) and pink clasts – fairly jagged OC surface	host rock: too fine grained to tell clasts: also very fine grained and appear hematized		11-MLD-012	1320 - A1137	
10-Jun-11	D. Grits aenk o	Mal, G. Quist	OC-11-DG-084	104	F	524141	5409497	up hill in clearing beside large overturned tree	under upturned treeroots, gradational contact between metased and breccia	very fine grained and possible hematization + K-feldspar?	gradational contact	11-MLD-014		
10-Jun-	D.	Mal, G.	OC-11-DG-	10	F	5242	54094	clearing, several	10m long, 2m high,	very fine				Spectromete

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easting	Northing	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectrometer Assay #	Comments
11	Gritsaenko	Quist	085	4		84	88	dead pokey trees with wall of metased	metased – alkalic dyke, pinkish, possibly a fault?	grained, no magnetite, possibly K-feldspar in alkalic dyke				r showed a lot of potassium
10-Jun-11	D. Gritsaenko	Mal, G. Quist	OC-11-DG-086	104	F	524365	5409497	larger clearing, several birch trees, fairly flat area	2m high, 10m long, an indent like area was cleared to reveal a magnetic band, approx 10cm wide – spectrometers high and could possibly be a fault	minor pyrite, magnetite and dark grey very fine grained		11-GMQ-010	1320-A1140	(double check 1320-A1140 – might be wrong assay #)
10-Jun-11	M. Dalsin	D. Gritsaenko, G. Quist	OC-11-MLD-054	104	F	524532	5409504	down a slope with some boulders and deadfall	The metased overlies a mafic dyke. The mafic dyke is pink on the weathered surface but grey on the fresh. The contact is at 45 degrees	The metased is very fine grained and the dyke is fine grained to very fine grained. The very fine grained part may be a mix of quartz, plagioclase and K-feldspar where as the fine grained part is amphibole and bt.	sharp contact at 45 degrees			
10-Jun-11	M. Dalsin	D. Gritsaenko, G. Quist	OC-11-MLD-055	104	F	524716	5409511	in a clearing	There is coldwell complex on either side of a 50cm metased band. Metased is dark grey and the coldwell is pink on the weathered and fresh. Both units	Metased is very fine grained. The coldwell is mgr to cgr with one side hosting more				

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
									are massive	mafics than the other. Composed mostly of K-feldspar.				
11-Jun-11	L. Marshall	M. Dalsin, W. Harman	OC-11-LAM-056	104	H	524734	5409699	clearing near hilltop	0.5 m high outcrop, 2-3 m long contact between meta-sed and Coldwell complex. Sharp contact with irregular fingering.	Coldwell (felsic) intrusive mostly aphanite with k-spar and minor quartz	massive (none observed)			
11-Jun-11	L. Marshall	M. Dalsin, W. Harman	OC-11-LAM-057	104	H	524082	5409701	cliff fa ce near top of hill near road	~4 m cliff face, looking at 4-5m horizontal. Mostly dark grey meta-sed with 0.5-1 m orange/pink breccia dyke with meta-sed host in middle with ~300 cps	the meta-sed is aphanite, with minor pyrite, and the breccia is mostly aphanite with k-spar, there is also a ~40cm diameter quartz inclusion within the brecciated dyke.	Fairly complex outcrop, the breccia appears to be situated in a ~1.4 m fault (~80 degrees), and on either side the meta-sed seems to be foliated in two similar (~50 degree) directions, most of the outcrop was slimey and moss covered to paint a true picture of what was happening with respect to structures	11-MLD-015	1320 - A1149	This line had minimal spectromete r highs. The minimal breccia at this point near the road may be again a continuation of the well defined brecciation on the other side (west) of the main road.
11-Jun-11	M. Dalsin	L. Marshall, W. Harman	OC-11-MLD-056	104	H	524069	5409591	large steepish hill	dark grey metased that is weakly to moderately magnetic.	mostly very fine grained with the exception of fine grained		11-LAM-041	1320 - A1144	

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
										biotite. Some magnetite present				
11-Jun-11	M. Dalsin	L. Marshall, W. Harman	OC-11-MLD-057	104	H	524136	5409593	in a valley w/ an old creek through it and some alders	the west side of the valley is mostly very fine grained, dark grey metased w/ some local areas of breccia. The east side is a mix of metased and breccia with metased on the bottom part of the cliff and breccia on the top (possible a fault?). The breccia is pink, very fine grained fragments that are angular to sub angular and irregular. Some areas appear to be more clast supported than others	Very fine grained metased that is weak to moderately magnetitic (magnetic). The breccia clasts are very fine grained and appear to contain K-feldspar, bt and some minor plagioclase and quartz				
11-Jun-11	M. Dalsin	L. Marshall, W. Harman	OC-11-MLD-058	104	H	524827	5409600	just off the slope with small spruce trees all around	This is a contact between the metavolcanic and the coldwell complex. The coldwell complex is pink on both weathered and fresh surface and overlies the metavolcanic. The metavolcanic is peach to grey on the weathered surface and grey on the fresh. There are 3 visible offshoots or veins from the coldwell complex x-cutting the	The coldwell complex is mgr and is composed of 85-90% K-feldspar, w/ some plagioclase, quartz and mafics. The metavolcanic is 70% mafics (hbl and bt) w/ some plagioclase, quartz and minor K-				

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
									metavolcanic. The offshoots are 2-5cm in width	feldspar				
12-Jun-11	D. Gritsaenko	L. Marshall, G. Quist	OC-11-DG-087	104	J	524272	5409893	side of incline, sparse deciduous trees	about 1m high, 4m in length, breccia -gray aphanite metased with pink clasts	minor magnetite, K-feldspar? Hornblende?		11-LAM-043		15m down incline, a valley reveals more breccia. Seems to be connected.
12-Jun-11	L. Marshall	D. Gritsaenko, G. Quist	OC-11-LAM-058	104	I	523964	5409802	4-5 m by 6-7 m cliff face on hillside, fairly dense cover	dark grey aphanite meta-sed host with a ~1m pink/cream colored aphanite breccia dyke with clasts from 1-30 cm	aphanite	highly foliated (relict bedding?) dipping at ~75 degrees			not sampled as spectrometer was only background
12-Jun-11	L. Marshall	D. Gritsaenko, G. Quist	OC-11-LAM-059	104	I	524280	5409820	~2 m long outcrop under moss in small gully	Outcrop contained breccia of both dark grey foliated aphanite meta-sed clasts up to 0.5 m long axis, and orange aphanite clasts from 2-20 cm	aphanite	brecciation appeared to be caused by complex folding and faulting.	11-DG-015	1320 - A1150	
12-Jun-11	L. Marshall	D. Gritsaenko, G. Quist	OC-11-LAM-060	104	I	524493	5409798	moss covered partial clearing	0.5 m high by 3 m long dark grey meta-volcanic	amphibole, quartz, plagioclase, mag	massive			
12-Jun-11	L. Marshall	D. Gritsaenko, G. Quist	OC-11-LAM-061	104	I	524915	5409802	dense wooded area, low grade slope	mg pink/orange Coldwell Complex	k-spar, and minor plagioclase and amphibole	mostly massive		1320 - A1151	
12-Jun-11	L. Marshall	D. Gritsaenko, G. Quist	OC-11-LAM-062	104	I	524980	5409807	dense wooded area, low grade slope	3-4m high by >10 m, cg dark/light grey meta-volcanic with 55 cm mg orange/pink felsic dyke (Coldwell Complex)	Meta vol contained plagioclase and amphibole, felsic dyke	massive		1320 - A1152	near end of I lines

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
										contained k-spar and minor amphibole				
12-Jun-11	L. Marshall	D. Gritsaenko, G. Quist	OC-11-LAM-063	104	J	524357	5409905	dense wooded area, fairly steep slope	3-4 m nearby 3-4 m wide outcrop with dark grey aphanite meta-sed host with 1-5 cm aphanite brick-red breccia	meta-sed contained magnetite, breccia contained likely k-spar	massive	11-DG-016		
17-Jun-11	B. Quist	M. Dalsin	OC-11-BCQ-002			523519	5409984	Just downhill from TR-DHC-11-001. I	arge outcrop (2x5), just downhill from historic trenches.	6 cm biotite, fine grained matrix, chalcopyrite and poss. Pyrite, quite siliceous, slightly chloritized, two different types of breccia-xenoliths/ meta-sed with breccia clasts which are pink, coarse grained.	two faults			see field notes for sketches
19-Jun-11	A. Ya'acoby	D. Gritsaenko	TR-DHC-11-001			523525	5409676	mixed moist woods, hilly, several rock units exposed including granites and greenstones.	Brecciated zone showing varying sizes of rock fragments and mineralization. Consisting of lamprophyre, greenstone, and migmatites.		a possible fault or large fracture occurs along the base of the outcrop. Several large fractures and/or contact zones separating the different rock types.	11-AY-001; 11-AY-002		

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
20-Jun-11	D. Grits aenk o	W. Harman	OC-11-DG-089	107		524871	5408697	Area with little trees, much grass, little bushes and flat outcrops (semi cut block)	1m in length, aprox 2m wide	coldwell: quartz, K-feldspar, mafics // metased: too fine grained --> hrnblnd crystals and pyrite flecks	breccia	N/A		Photo OC-11-DG-089c is an outcrop seen aprox 5m away from this OC.
20-Jun-11	D. Grits aenk o	W. Harman	OC-11-DG-090	107		524299	5409333	Top of cliff facing road(about 200m away) Nice view, many deciduous trees	side of cliff uncovered by moss --> dark grey, weathers dark brown, non magnetic	very fine grained, pyrite flecks		N/A	2483 - A17188	
21-Jun-11	B. Quist	A. Ya'acoby	OC-11-BCQ-004			523473	5409763	on the road down from TR-11-DHC-001	appears to be a biotite-ric granitic dyke	slightly chloritized, biotite-rich granitic dyke with finely dissminated pyrites	dyke is running 300/80	11-BCQ-0170		
21-Jun-11	B. Quist	A. Ya'acoby	OC-11-BCQ-005			523473	5409795		granitoid dyke in contact with fine-grained schist (metasedimentary), small quartz vein cross-cutting. Gradational contact between metased(schist) and granitoidal dyke which is interfingering schist		foliation running 140/76			
21-Jun-11	B. Quist	A. Ya'acoby	OC-11-BCQ-006			523464	5409817	3mx3m on road, just down from last outcrop	metased, foliated, x-cut by small parasitic quartz veins, granite vein also present					
21-Jun-11	B. Quist	A. Ya'acoby	OC-11-BCQ-007			523487	5409841	metaseds crosscut by lamprophyre	oldest to youngest (metased > alkalic or granitoid dyke>		lamprophyre dyke running 142/75.			see sketch in field notes for

Date	Name	Name 2	Outcrop Name	Grid #	Line #	Easti ng	Northi ng	Location Description	Outcrop Description	Mineralogy Description	Structures	Rock Sample Name	Spectromet er Assay #	Comments
								dyke?	lamprophyre					clarification
21-Jun-11	B. Quist	A. Ya'acoby	OC-11-BCQ-008			523608	5410080		metased		S0 124/62			
6-Jul-11	A. Ya'acoby	D. Gritsaenko	OC-11-AY-002	114		524023	5410701	near access road (to the West)	greenschist; fine grained; mafic; dark-greenish; thin quartz veins with some light coloured mica; sulfides present; spectrometer=100 CPS	quartz; mafics; mica; sulfides	strike=62; dip=34			
6-Jul-11	A. Ya'acoby	D. Gritsaenko	OC-11-AY-003	114		524223	5410701	6-8 m tall OC; 30m long	hornfels with long plagioclase crystals (1-2cm); fine grained matrix dark (mafic); oxidized; weathered; very magnetic; greenschist also present with quartz veins; magnetic reversal	mafics; pl	strike=164; Dip=24			
6-Jul-11	A. Ya'acoby	D. Gritsaenko	OC-11-AY-004	114		523720	5410510	hill above the road; OC 10-20m tall; 30-40m long;	greenschist and hornfels; very dark; magnetic; weathered; water seepage=oxidized; some sulfides; quartz veins; chloriticized; hem. Staining	mafics; pl; quartz; sulfides; hem; chl.	strike=266; Dip=80			

12 Physical work

Physical work was conducted on the Deadhorse Creek property between June 16th, 2011 and July 26th, 2011. Figure 35 shows the location of the three trenches that were dug on the property using an excavator (insert model number). Figure 36 shows the total rare earth element (TREO) percentages for samples taken from TR-11-DHC-001. Figure 37 shows the total rare earth element (TREO) percentages for TR-11-DHC-002 and TR-11-DHC-003.

Table 5 presents the location of samples taken from the various trenches, as well physical and mineralogical descriptions of the rocks. A total of X samples were collected, of which Y were submitted for assay. Assay results can be found in the Appendix located at the end of this document.

Trenches were channel sampled using a diamond bit rotary rock saw. The samples were described, photographed under plain light and bagged on site; samples were later photographed under UV light in the office; UV light can reveal the presence of fluorescent rare earth minerals that are not visible under plain light.

(Mike Schuss needs to add information on the dates and hours of use of the equipment, hourly rates etc)

Table 5. Trenches constructed on the Property, their sizes and rational for construction.

Trench	Rational for construction	Area covered	UTM	Samples taken
TR-11-DHC-001	Extremely high readings on the spectrometer (>30000 counts/second), location of old trench excavated by Gulf in 1977	190 m ²	523491 mE, 5409704 mN	24 channel samples
TR-11-DHC-002	Crosses a radiometric high, located in close proximity to two old drill holes	538 m ²	524269 mE, 5410390 mN	41 channel samples
TR-11-DHC-003	Perpendicular to trench 2, crosses a radiometric high.	1405 m ²	524264 mE, 5410275 mN	16 channel samples

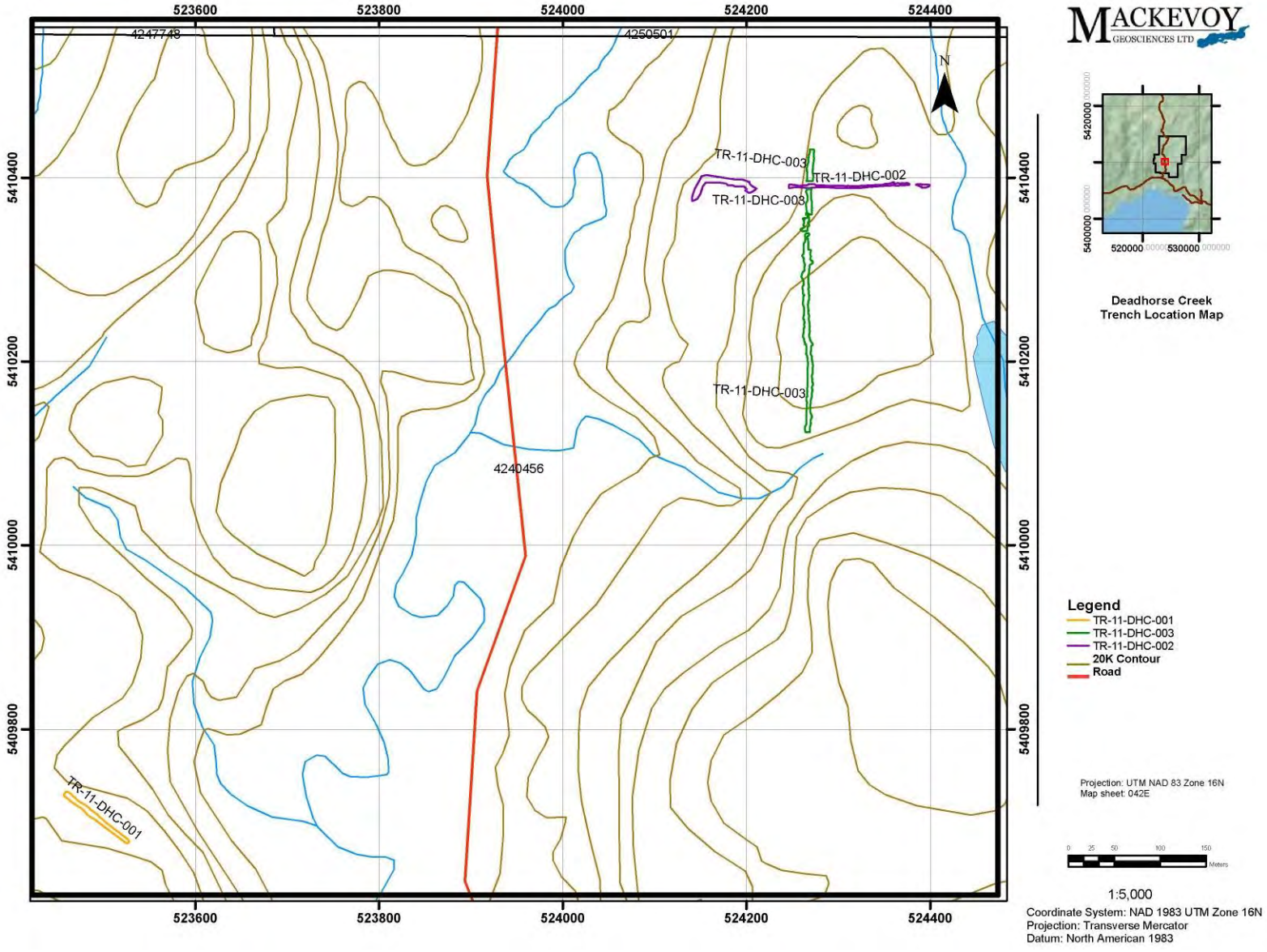


Figure 35. Location map of the three trenches on the Deadhorse Creek Property.
Mackevoy Geosciences Ltd. 2011
Deadhorse Creek Property

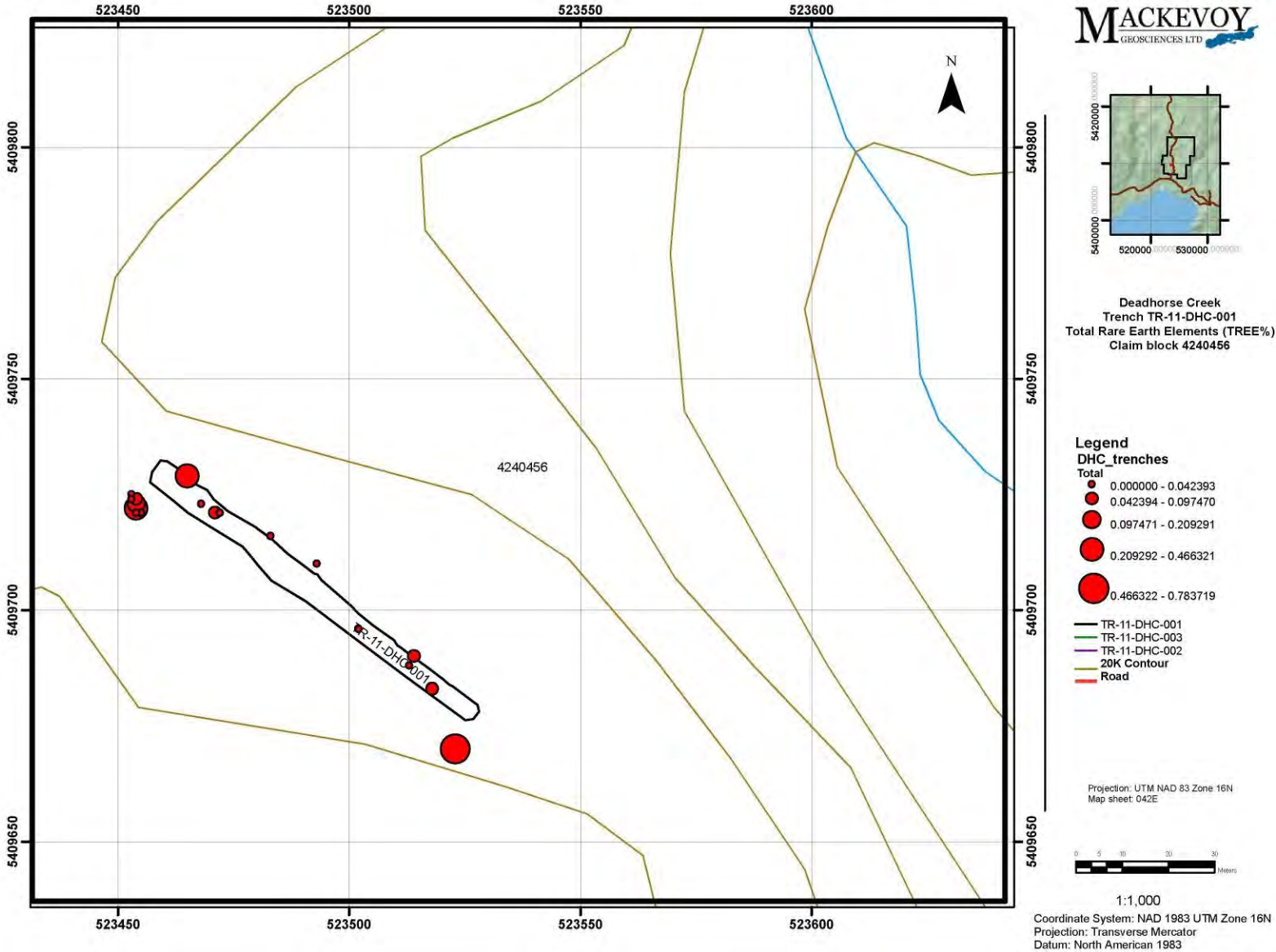


Figure 36. TREO (%) values of TR-11-DHC-001.
Mackevoy Geosciences Ltd. 2011
Deadhorse Creek Property

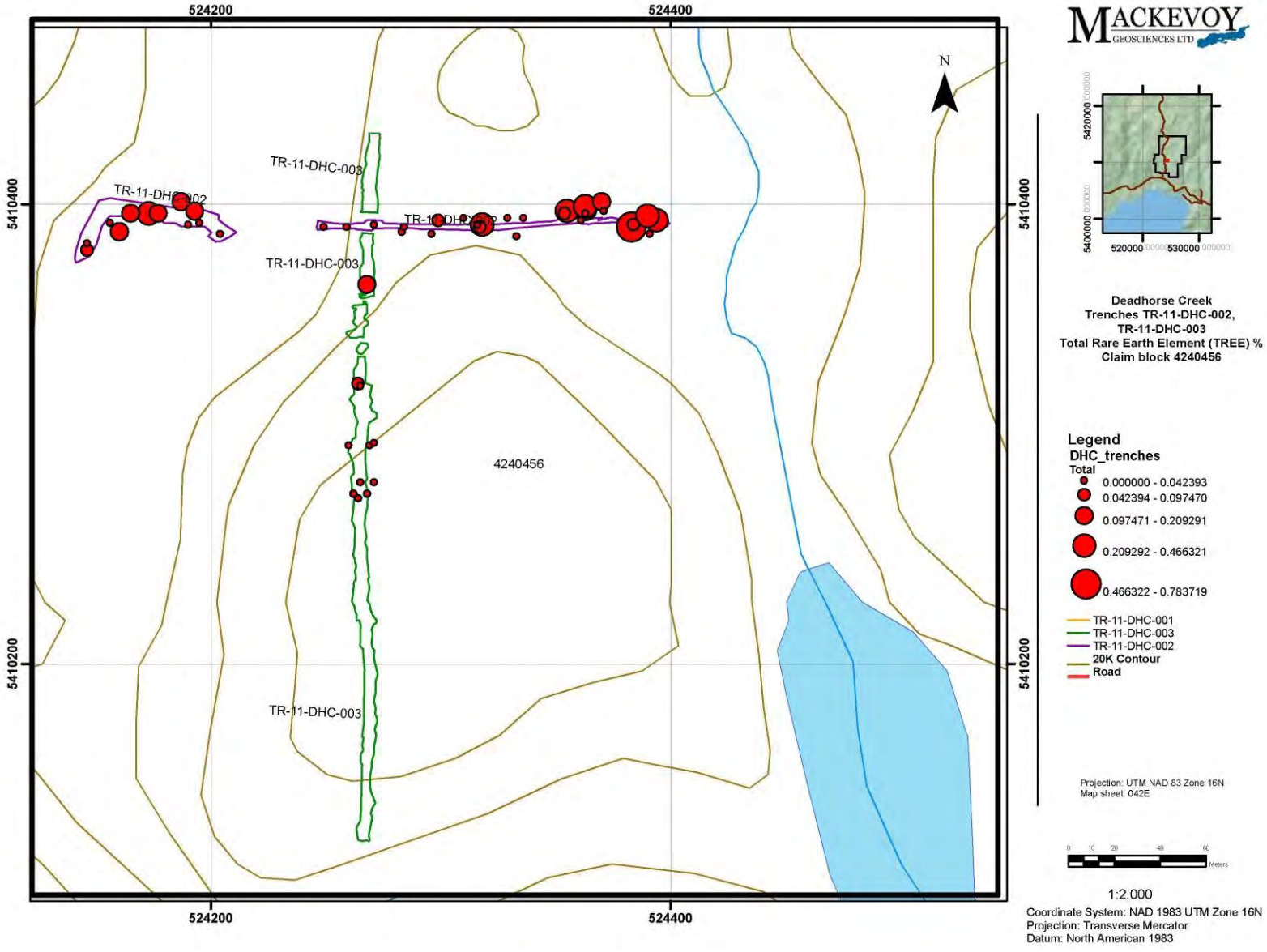


Figure 37. TREO (%) values for Trenches TR-11-DHC-001 and TR-11-DHC-002.
Mackevoy Geosciences Ltd. 2011
Deadhorse Creek Property

Table 6. Summary of channels samples from trenches on the Property. Dimensions, descriptions, mineralogy, location and Actlabs assay numbers are reported

Date	Name	Name 2	Trench ID	Sample ID	Act Labs ID	Eastings	Northing	Location on Trench	Azimuth	Length	Width	Depth	Description	Mineralogy	Comments
24-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-001A	985351	523453	5409724	94m	210 or 30	70	7	5	Breccia; north end of trench at "fault" fracture; extremely friable; comes out with gravel; extremely weathered; very small parts fizz with acid; unknown red mineral, green mineral hematization; non-magnetic; angular-sub-rounded clasts; mainly clast supported.	Possibly chlorite and mafic minerals, some carbonate	
24-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-001B	985352				120 or 30	110	6	6	Across fault (breccia on either side); breccia on West side is more consolidated than 001B; fizzes slightly more with acid	Same red hematitic clasts; chlorite(?); alternating; non-magnetic; mainly clast supported.	
24-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-001C	985353				120 or 30	100	7	5	Breccia, but far more consolidated; green alterations; red clasts; matrix supported; fine-grained (tough to pick out minerals); fizzes a bit more with acid; non-magnetic.	same	
24-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-002A	985354	523454	5409721	90m	214 or 34	80	10	5	Breccia; moderately consolidated; green and red alterations fine grained; non-magnetic; mainly clast supported; across "fault"	hematitic clasts; chlorite; dark mafic minerals	
24-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-002B	985355					82	10	3	crumbly breccia; green and red alterations; fine grained; non-magnetic; clast supported;	same	
24-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-002C	985356					56	3	8	Larger breccia clasts; more consolidated with pronounced planar breakage lines/zones	hematitic clasts; chlorite;	

Date	Name	Name 2	Trench ID	Sample ID	Act Labs ID	Easting	Northing	Location on Trench	Azimuth	Length	Width	Depth	Description	Mineralogy	Comments
													parallel to "fault" line; non-magnetic; no fizz	dark mafic minerals	
24-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-002D	985357					62	11	8	consolidated breccia with large clasts ~10 cm in diameter; matrix supported; no fizz; non-magnetic	same	
24-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-004A	985359	523468	5409723	75.5m	186 or 6	110	7	6	Highly consolidated breccia; very hard; massive; fine grained; green and raphanite aphanite texture; fizzes on white zones; slightly magnetic	Hematite, chlorite, mafic, and carbonate minerals.	
24-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-005A	985361	523471	5409721	68cm	310 or 130	85	9	6	Breccia along "fault"; crumbly with angular (triangle shaped) clasts; matrix supported; red colour dominant; slight fizz with acid; non-magnetic.	Hematite, some carbonate and mafic minerals.	
24-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-006	985363	523480	5407100	67	220 or 40	63	7	4.5	Breccia that's fizzing quite rigorously, purple in colour, same bright yellow minerals as before (uraninite), which probably explains the high spectrometer value, non-magnetic, very competent, hematite staining. The breccia is not as obvious as before, it is extremely fine grained and the clasts are hard to see relatively high specific gravity	Uraninite? ankerite? Calcite? unknown dark mineral that's non-magnetic.	
24-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-007	985364	523483	5409716	54	0 or 180	84	8	4	Rock is extremely hard, looks slightly siliceous, but is fine grained, dark grey crossed with siliceous veins and another vein that is pink in colour. Appears to grade into more of a breccia. The clasts in the breccia are hematized pink/red and fine-grained as before. Closer to the fault, the rock becomes more	sulphides (pyrite), hematite chlorite alteration	

Date	Name	Name 2	Trench ID	Sample ID	Act Labs ID	Easting	Northing	Location on Trench	Azimuth	Length	Width	Depth	Description	Mineralogy	Comments
													brecciated and siliceous with stock work veins, sulphides (pyrite) present, chlorite alteration is also present		
24-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-008	985365	523493	5409710	45	40 or 220	70	8	6	Fine grained, dark, slightly siliceous, crossed with veins of quartz, lots of finely disseminated (pyrite), slight pinky-hue, small breccia filled "vein" cross cuts middle of the channel sample, small mafic veins cross cut quartz veins. Doesn't fizz with acid, not magnetic. What's the breccia doing in it? Another vein?		
24-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-009	985366	523502	5409696	37.8	40 or 220	94	7.5	6	Not fizzing, not magnetic, cross cut with quartz veins, very felsic and alkalic looking, black veinlets present, most minerals are too small to see. Possibly metased? No real evidence to prove this though		
24-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-010	985367	523513	5409688	25	140 or 320	104	8	7	Runs parallel to trench and across a depression (fault breccia?), fine grained, no visible sulphides, grades from fine-grained siliceous in the north side into breccia (hematized clasts, chloritized matrix, as before)		
24-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-011	985368	523514	5409690	22	70 or 250	90	9	8	angular, clasts supported hematized breccia, fine-grained chloritized matrix		
24-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-012	985369	523518	5409683	12	40 or 220	82	6	6	Breccia again, clasts are pinker than before, doesn't react with acid, not magnetic, slightly more siliceous looking, chlorite alteration present, dirty,		

Date	Name	Name 2	Trench ID	Sample ID	Act Labs ID	Easting	Northing	Location on Trench	Azimuth	Length	Width	Depth	Description	Mineralogy	Comments
													oxidized, friable		
24-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-013	985371	523521	5409604	4	130 or 310	72	7	4	Fault? Gouge? Brecciated, weakly altered, some small veins fizz with acid, non-magnetic, dirty, oxidized, difficult to ID minerals		
24-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-014	985372	523523	5409670	2	20 or 200	38	8	4	breccia, hematized angular clasts, matrix supported, chlorite alteration, oxidized on surface, not magnetic, fizzes in some small veins, friable, very oxidized		
25-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-003A	985358	523465	5409729	88m	220 or 40	94	5	5	Red breccia; fine grained; clast supported; no fizz; no magnetism	mostly hematite and mafic minerals	
26-Jun-11	B. Quist	A. Ya'acoby	TR-DHC-11-001	TR-DHC-001-005B	985362				198 or 18	97	9	5	Breccia; reddish pink clasts ranging from 2 to 5 cm; angular-sub angular; red and green and zones; highly consolidated; hard rock; fizzes; non-magnetic	more mafic and carbonate minerals; hematite	
24-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-001	984601	524391	5410387		170 or 350	107	7	8	Dark aphanite rock, not magnetic, doesn't fizz with acid, spectrometers at 500 cps, slightly siliceous looking, lots of fine grained biotite present, very fine grained, finely disseminated sulphides (marcasite?) present. MAFIC VEIN BRECCIA	very fine grained, sulphides present	80% recovery
24-Jul-11	M. Dalsin	B. Quist	TR-DHC-11-002	TR-DHC-002-002	984602	524390	5410395	near bottom sump	145 or 325	96	6.5	6.5	Breccia with weakly hematized red brown clasts. Clasts are sub angular, ranging from 4 cm to 10 cm, matrix is dark grey and locally weakly magnetic, aphanite		85% recovery
24-Jul-	B.	M.	TR-DHC-11-	TR-DHC-002-	9846	52439	54103		130 or	106	6	7	The channel cuts a small ~ 50	Hematite	80%

Date	Name	Name 2	Trench ID	Sample ID	Act Labs ID	Easting	Northing	Location on Trench	Azimuth	Length	Width	Depth	Description	Mineralogy	Comments
11	Quist	Dalsin	002	003	03	4	93		310				cm dyke. The dyke is dark, fine grained, fizzes with acid and is quite magnetic. CARBONATITE! Patches of the carbonate are medium grained and fizz with acid (calcite or dolomite?); parts are darker and highly magnetic. Above the dyke to the NW, the rock is not magnetic and doesn't fizz with acid, its aphanite, dark grained, with small chlorite altered veins. Difficult to name, slightly veined and brecciated in areas. Grains may be slightly more aligned. Rock below dyke is red breccia (dark matrix, angular, remobilized clasts, matrix supported, high spectrometer value, not magnetic, doesn't fizz with acid	alteration, calcite or dolomite, magnetite. VFG.	recovery see notes for sketch
24-Jul-11	M. Dalsin	B. Quist	TR-DHC-11-002	TR-DHC-002-004	984604	5410390	524383		82 or 262	112	7	6	In a dyke that is preferentially weathered compared to surrounding rock. Dyke is dark grey and aphanite, fizzes moderately to strongly (generally strongly, except locally), some fine grained veins of red (hematite altered?) minerals, dyke may be a carbonatite (calcite and dolomite),	local fine grained pyrite disseminated, fine grained disseminated magnetite throughout, locally concentrated in pods,	80% recovery
24-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-005	984605	524384	5410391		70 or 250	104	7	7	Three rock units: east end: aphanite, dark, non-magnetic, doesn't fizz with acid (very similar to TR-DHC-002-003).	VFG, see description	80% recovery see notes for sketch

Date	Name	Name 2	Trench ID	Sample ID	Act Labs ID	Easting	Northing	Location on Trench	Azimuth	Length	Width	Depth	Description	Mineralogy	Comments
													Middle: brecciated quartz vein, not magnetic, no visible gold. West end: red breccia, matrix is chlorite altered, dark, clasts are angular to sub angular, hematized, matrix supported, fizzes with acid		
24-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-006	984606	524371	5410397		20 or 200	85	8	7	entire channel is a breccia, mainly matrix supported, fizzes slightly with acid, some clasts are hematized, others are darker than the matrix, some areas are chlorite-altered, some of the clasts are light pink in colour		75% recovery
24-Jul-11	M. Dalsin	B. Quist	TR-DHC-11-002	TR-DHC-002-007	984607	5410401	524370	Near possible carbonate dyke, across water and upslope from last point.	49 or 229	90	7	7	breccia matrix is dark grey, aphanite, locally weakly magnetic, does not fizz, clasts are dark grey with white nodules and rimmed, partially altered and possibly completely altered by red/brown hematite, some green alteration halo (chlorite), clasts are 1-10 cm in width, sub angular		85% recovery
24-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-008	984608	524363	5410399		140 or 320	88	6	7	Red Breccia -> some clasts are fine-grained, hematized, some are mafic, magnetic, aphanite with a small hematite alteration halo, occasional k-spar rich pink granite clast, matrix is chlorite altered, some mafic grains, some felsic grains, fizzes with acid.		80 % recovery, see notes for sketch
24-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-009	984609	524363	5410396		100 or 280	84	7	5.5	rock is pink and heavily jointed, aphanite, possibly an alkalic, felsic unit, pink could be k-feldspar	locally disseminated pyrite	80% recovery

Date	Name	Name 2	Trench ID	Sample ID	Act Labs ID	Easting	Northing	Location on Trench	Azimuth	Length	Width	Depth	Description	Mineralogy	Comments
24-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-010	984610	524361	5410393		110 or 290	97	7	7	Red breccia, matrix supported, angular, hematized clasts (don't fizz with acid, not magnetic), surrounded by mafic zone that is magnetic, doesn't fizz, greenish matrix is slightly magnetic, fizzes with acid		85%
24-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-011	984611	524363	5410398		20 or 200	104	7	7	On top of a ledge close to a dyke, has a fault running near horizontal through it. It is a breccia, matrix is dark grey to grey green to green around clasts, possibly alteration halos, clasts are dark grey to red, depending on the hematite alteration. Hematite alters around the rim of the clasts to fully through the clasts. clasts are sub angular and 4-10 cm, locally fizzes over white crystals (calcite) in unaltered clasts		80% recovery
24-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-012	984612	524355	5410397		26 or 106	98	8	8	Rock has a dark mafic matrix and white, elongate phenocrysts (look like plagioclase), some are forming glomerocrysts, rock is quite magnetic, forms a dyke and doesn't fizz with acid. MAFIC PORPHYRY DYKE, (looks similar to nepheline (?) porphyry dyke seen elsewhere on property, but phenocrysts are more white and opaque and not green and translucent		80%
24-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-013	984613	524354	5410396	on a ledge	180	90	7	6.5	dark grey aphanite rock, local weak magnetism, not fizzing, minor small units (<0.8 cm), with some red mineralization		80%

Date	Name	Name 2	Trench ID	Sample ID	Act Labs ID	Easting	Northing	Location on Trench	Azimuth	Length	Width	Depth	Description	Mineralogy	Comments
													(<0.1%), fractures have pink alteration halos and in some cases have possibly been filled		
25-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-014	984614	524336	5410394	slightly up hill and on a ledge close to 60m	35	97.5	7	7	Clasts are angular/sub angular ranging from 0.5 cm to 11 cm. many clasts are hematized, fine grained with alteration halo around them, magnetic. Some of the larger clasts are coarser grained, appear to be a pink quartz-syenite or granite. Matrix is black, magnetic, fizzes with acid. Matrix supported, clast supported in some areas	magnetite	80%
25-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-015	984615	524333	5410386		180	91	6	7	Two rock types. 1. Breccia, slightly siliceous looking, hematized clasts, sub angular 1-5 cm, matrix is dark magnetic, fizzes with acid, matrix supported. 2. Rock is dark, cut with quartz veins, contains small, pinky-white blebs; matrix doesn't fizz with acid but is magnetic.	Contains fine-grained sulphides (pyrrhotite and pyrite), concentrated along quartz veins. Chlorite alteration	80% see notes for picture
25-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-016	984616	524329	5410394	A dyke between two fractures	020 or 200	78	7	8	rock is very fine grained, dark with hematite altered veins, magnetic, doesn't fizz with acid, rock is lighter closer to fractures		75%
25-Jul-11	M. Dalsin	B. Quist	TR-DHC-11-002	TR-DHC-002-017	984617	5243127	5410388	on the flat top of the hill	150	106	7	6	Breccia with a dark grey aphanite matrix. Clasts are sub angular, 4-8cm, fully to partially hematized (rims are hematized but the cores are not). Some local weak magnetisation. Does	local magnetite, hematite	recovery 80%

Date	Name	Name 2	Trench ID	Sample ID	Act Labs ID	Easting	Northing	Location on Trench	Azimuth	Length	Width	Depth	Description	Mineralogy	Comments
													not fizz. Local lt grey spots		
25-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-018	984618	524318	5410391	Backs onto the edge of a ledge	254	94	7	7	grades from a breccia (dark clasts with hematite altered rims, light grey/green/black matrix which is magnetic and matrix supported into a dark green/black rock with hematite alteration veins, brecciated in areas, but less brecciated than before	pyrite present close to the ledge	80%
25-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-019	984619	524317	5410390	spans across two ledges	250	52	7	7	Contains quartz veins, is dark grey/green/black, very fine grained, not magnetic, doesn't fizz with acid, slightly mottled looking in areas, slight pink alteration in areas (hematite? Fenitization?), unknown blue mineral in veins, slight oxidation present, very similar to TR-DHC-002-016	pyrite and pyrrhotite present, often in the veins,	
25-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-020	984620	524316	5410391	goes down from ledge to another edge	250	126	8	6	another breccia, non-magnetic, select areas fizz with acid, quite mottled looking (black/grey/green), clasts are pink, medium grain sized with black alteration halos, chlorite alteration, matrix supported, clasts are 0.5-7 cm, sub angular		
25-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-021	984621	524310	5410394	on a flat area, lots of interesting weathering (veins weather prominently, host	180	101	7	7	Rock is fairly massive and fine-grained with white blebs. Blebs don't fizz with acid, so they are likely plagioclase, quartz or dolomite, prob not plagioclase because we've seen very little plagioclase on the property, probably quartz. Parts are brecciated (clast supported, sub-angular), appears to be the		80%

Date	Name	Name 2	Trench ID	Sample ID	Act Labs ID	Easting	Northing	Location on Trench	Azimuth	Length	Width	Depth	Description	Mineralogy	Comments
								weathers recessively					same host rock as the breccia seen before, no hematite staining		
25-Jul-11	M. Dalsin	B. Quist	TR-DHC-11-002	TR-DHC-002-022	984624	524296	5410387	on flat part of the top of the hill	285	101	7	7	Breccia with an aphanite dark grey matrix. Not magnetic and does not fizz. One large clast at the end of the sample. This clast is very hard and most likely silicified. There are micas w/in the mafic part of the clast and some fine quartz veinlets (possibly a former sedimentary rock? gneiss?) quartz veinlets and veins host fine grey pyrite and some fine grained smokey quartz. Other clasts are dark grey and sometimes have a small alteration halo. Local vugs near the top of the hill. Clasts are from 5cm to 30cm and are sub angular	Quartz, smokey quartz, micas (biotite? Very fine grained).	recovery 80%
25-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-023	984625	524299	5410393		62	91	7	6.5	Mafic porphyry. non-magnetic, same dark fine-grained with white blebs (dolomite, quartz?), doesn't fizz with acid, crossed by a small vein, altered to gouge at top, hematite alteration in the middle, black alteration at the edges, oxidized in areas,	small amounts of finely disseminated sulphides, small amounts of chlorite alteration	85
25-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-024	984626	524284	5410390		210	63	7	7	Host rock is fine-grained, non-magnetic, black rock with white blebs (quartz, dolomite?). Quartz vein present (~15 cm long), coarse grained, chlorite altered, quartz white/grey, slight oxidation present	small amount of sulphides	80%

Date	Name	Name 2	Trench ID	Sample ID	Act Labs ID	Easting	Northing	Location on Trench	Azimuth	Length	Width	Depth	Description	Mineralogy	Comments
25-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-025	984627	524283	5410388	at the top of the hill starting to go downhill	174	91	7.5	6	Quartz boudin at the start of the sample. Quartz is fractured and these fractures are in filled (possibly with chlorite). Very hard. Some fine grained pyrite. Rest of the sample is aphanite, dark grey with very fine grained with crystals. They do not fizz (possible local silicification?). Rock is silicified	Quartz, chlorite?	85%
25-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-026	984628	524271	5410391		200	93	8	7	Breccia with darker, fine-grained clasts, slightly purple (cerium?) coloured areas, doesn't fizz with acid. Clasts are mainly sub angular, matrix supported, clasts are fine-grained, slightly siliceous, grey/red/purple in colour, quartz sweats and clasts present, also creamy yellow-green areas that may be quartz-carb, but don't fizz with acid, quartz appears to be brecciated	pyrite + unknown sulphide	80
25-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-027	984629	524260	5410295	on the descent downhill the steep part of the hill	200	80	7	8	Breccia has a dark grey aphanite matrix. Clasts are sub angular and <1cm-10cm across. Clasts are v. dark grey w/ no magnetism except for a few local clasts. Few quartz carbonate clasts w/ some minor chlorite associated with it. One 10cm quartz area at the bottom of the cut	quartz, carbonate, chlorite	90%
25-Jul-11	B. Quist	M. Dalsin	TR-DHC-11-002	TR-DHC-002-028	984630	524259	5410390		200	92	8	9	breccia with dark clasts (almost clast supported), not magnetic, doesn't fizz, clasts are very fine grained, surrounded by quartz (brecciated), also red hematite		

Date	Name	Name 2	Trench ID	Sample ID	Act Labs ID	Easting	Northing	Location on Trench	Azimuth	Length	Width	Depth	Description	Mineralogy	Comments
													stained clasts surrounded by green matrix, occasional spec of pyrite present, occasional clast of pink granite. clasts vary in size (<1 -10 cm), most are sub angular		
25-Jul-11	M. Dalsin	B. Quist	TR-DHC-11-002	TR-DHC-002-029	984632	524249	5410390	at the bottom of the hill	195	86	7	8.5	Breccia has a dark grey aphanite matrix. Clasts are v. dark grey and sub angular and <1cm to 10cm. Dyke going through is red to brown w/ small <0.5cm alteration halo. Within the dyke is fine grained disseminated pyrite there appears to be banding going from rim to core. dark red hematite	hematite	100%
26-Jul-11	S. Todd	Mal	TR-DHC-11-002	TR-DHC-002-030	984633	524204	5410387	next to main road	270	94	8	9	Breccia w/ a grey aphanite matrix. Not magnetic Moderately fizzes. The clasts do not fizz generally, some fizz locally. The final 15cm of the cut is a breccia partially hematized (starting at the rims/moving towards the the core. The rest of the dark grey aphanite. All of the clasts are sub angular and range from 4 cm to 7cm. Matrix in hematite altered clasts is still aphanite but has chlorite alteration contact b/w dark & red breccia is small transition zone core from weak to strong hematization of this.		recovery 80%
26-Jul-11	S. Todd	Mal	TR-DHC-11-002	TR-DHC-002-031	984634	524193	5410397	close to road	0	90	7.5	8	Possible felsic alkalic dyke or a weakly to moderately hematized dyke. Looks similar		

Date	Name	Name 2	Trench ID	Sample ID	Act Labs ID	Easting	Northing	Location on Trench	Azimuth	Length	Width	Depth	Description	Mineralogy	Comments
													to TR-DHC-11-003. Dyke is pink to pink red, aphanite and fizzes very weakly locally. Fractures appear to be more strongly mineralized or altered. Locally appears grey to pink/grey. magnetic moderate to strong		
26-Jul-11	S. Todd	Mal	TR-DHC-11-002	TR-DHC-002-032	984635	524195	5410392	West of the end of the road	2	107	7	8.5	Breccia with a grey to dark grey aphanite matrix. Clasts range from 4cm to 8cm in width. Matrix moderately fizzes but the clasts do not. Local major pyrite blebs in the matrix. Not magnetic at the beginning of the sample the clasts are either not hematized or only weakly hematized. This is a weak alteration around the rim of the clast. The alteration halo around the rim gets stronger down the hole to the point where at the end of some of the clasts are strongly altered all to hematite. The matrix here is also weakly to moderately altered to chlorite		recovery 85%
26-Jul-11	S. Todd	Mal	TR-DHC-11-002	TR-DHC-002-033	984636	524190	5410391	on flat West of road	346	91	6.5	8	Breccia, with grey to dark grey aphanite matrix that moderately fizzes. Some fractures. Clasts range from 4cm to 8 cm. Clasts are dark grey to with weakly to strongly altered hematized rims. Some of the fractures are hematized as well. Some fractures have small alteration halos around them. Breccia is more altered closer to the dyke		

Date	Name	Name 2	Trench ID	Sample ID	Act Labs ID	Easting	Northing	Location on Trench	Azimuth	Length	Width	Depth	Description	Mineralogy	Comments
26-Jul-11	S. Todd	Mal	TR-DHC-11-002	TR-DHC-002-034	984637	524187	5410401	West of last sample	326	89	8	8	Same dyke as seen on 031. This one has more of the grey rock less of the hematite alteration. The alteration is stronger in on fractures. Some of the fractures weakly fizz. Rock overall is grey with red to red pink		
26-Jul-11	S. Todd	Mal	TR-DHC-11-002	TR-DHC-002-035	984638	524177	5410396		355	103	6	8	Same dyke seen on last sample and sample 31 still has areas with less hematite alteration. Fractures are more strongly altered. One sample has a line of strongly altered material		
26-Jul-11	S. Todd	Mal	TR-DHC-11-002	TR-DHC-002-036	984639	524173	5410396		209	120	6	7	Breccia with grey and local weak chlorite alteration matrix. Matrix is aphanite clasts are 4cm-8cm across. Clasts are strongly hematized on the rim to the core. Some clasts are more well hematized than others. The core of some clasts is dark grey. The bottom of the sample borders close to contact with dyke. Clasts are sub angular. The matrix is moderately fizzified. One clast at the start of the sample is strongly hematized with black minerals also in it		
26-Jul-11	S. Todd	Mal	TR-DHC-11-002	TR-DHC-002-037	984641	524165	5410396	getting closer to corner in the trench	348	113	7	6	Breccia with grey aphanite matrix. Moderately fizzes in the matrix local areas of chlorite alteration. Clasts supported. Clasts are 6cm to 4cm across. Some pyrite blebs in quartz. Clasts are weakly to moderately hematite altered. Some white snowflake spots locally in the		

Date	Name	Name 2	Trench ID	Sample ID	Act Labs ID	Easting	Northing	Location on Trench	Azimuth	Length	Width	Depth	Description	Mineralogy	Comments
													matrix. Smaller clasts are more strongly altered.		
26-Jul-11	S. Todd	Mal	TR-DHC-11-002	TR-DHC-002-038	984642	524160	5410388	vertical sample	340	87	7.5	7	Same as dyke as 31, 34, 35. Grey to pink red dyke fractures are more strongly altered than rest. Does not fizz, not magnetic.		
26-Jul-11	S. Todd	Mal	TR-DHC-11-002	TR-DHC-002-039	984643	524156	5410392	At the bend of the trench	200	102	8	7	Breccia with a grey aphanite matrix. Moderately fizzes local weak magnetism clasts are dark grey sub angular and 4 - 5cm across. Some of the smaller clasts are partially hematized.		
26-Jul-11	S. Todd	Mal	TR-DHC-11-002	TR-DHC-002-040	984644	524146	5410380	At the bend of the trench	22	91	8	8	Dark grey green aphanite rock that does not fizz, not magnetic. Has unknown mostly lath shaped crystals (nepheline?) On ends cross stars are slightly hexagonal.		
26-Jul-11	S. Todd	Mal	TR-DHC-11-002	TR-DHC-002-041	984645	524146	5410383	close to the end of the trench	20	98	8	5	Breccia with a grey to dark grey aphanite matrix. Clasts are 4 - 10 cm and dark grey and aphanite. Fractured local weak hematization local quartz clasts. Matrix weakly fizzes locally. Not magnetic		
27-Jul-11	B. Quist	L. Marshall	TR-DHC-11-003	TR-DHC-003-005	985377	524268	5410274		210	104	7.5	8	fine-grained, dark grey, non-magnetic rock that fizzes slightly with acid, slight chlorite alteration, way too fine-grained to determine origin (meta-sed?, fine-grained volcanics), no interesting mineralization, no distinguishing feature		
27-Jul-11	B. Quist	L. Marshall	TR-DHC-11-003	TR-DHC-003-006	985378	524262	5410274		190	84	6	6	very similar to TR-DHC-003-005, very fine grained, black/grey, not magnetic, doesn't fizz with acid, slight chlorite alteration	no interesting mineralization	

Date	Name	Name 2	Trench ID	Sample ID	Act Labs ID	Easting	Northing	Location on Trench	Azimuth	Length	Width	Depth	Description	Mineralogy	Comments
27-Jul-11	B. Quist	L. Marshall	TR-DHC-11-003	TR-DHC-003-007	985379	524264	5410272		120	95	6	7	rock is coarser grained, darker than before, much more chlorite alteration, looks slightly hornfelsed, contains splotches of calcite, small darker veins cross cut rock. Rock is not magnetic and a strange bluish mineral is present in crack seal veins. Unsure of original rock type (sed or igneous?)		
27-Jul-11	B. Quist	L. Marshall	TR-DHC-11-003	TR-DHC-003-008	985381	524264	5410278		200	110	6.5	7	Dark grey/black, very fine grained, not magnetic, doesn't fizz with acid, a couple sulphides are present near north end of channel (pyrite). Rock is crossed with small white veinlets. Unsure of origin, as before.		
27-Jul-11	B. Quist	L. Marshall	TR-DHC-11-003	TR-DHC-003-009	985381	524271	5410279	Cuts across a quartz vein	209	134	7.5	7	Quartz/carbonate vein on the surface of the channel. Slight oxidation present and slight purpley tinge to parts of the channel. Surrounding rock is a breccia, which also includes a vein breccia. Main breccia is clast supported, with angular clasts which display slight hematite alteration along the rims, dark fine grained matrix, clasts are fine grained. Vein breccia is matrix supported, clasts are slightly more rounded and more hematized, matrix is slightly more chloritized. nothing appears to be magnetic	small amounts of very finely disseminated sulphides (pyrite, marcasite or arsenopyrite)	
27-Jul-11	B. Quist	L. Marshall	TR-DHC-11-003	TR-DHC-003-010	985383	524265	5410279	cuts across a different	20	104	6	7	Nice banding present (see sketch in notes-> quartz, host rock and chlorite alteration).	no visible sulphides present,	

Date	Name	Name 2	Trench ID	Sample ID	Act Labs ID	Easting	Northing	Location on Trench	Azimuth	Length	Width	Depth	Description	Mineralogy	Comments
								quartz vein					Chlorite alteration is present and oxidation. Small quartz veins cross cut host rock. Host is dark grey/blue/black and too fine grained to pick out minerals, doesn't fizz with acid, not magnetic		
27-Jul-11	B. Quist	L. Marshall	TR-DHC-11-003	TR-DHC-003-011	985384	524269	5410295	channel crosses and dyke and moves back into a breccia	200	94	7.5	7	The dyke is a granite (or possibly a quartz-rich granite), medium grain size (0.5-.75 cm), very fine-grained sulphides (pyrite). Breccia is clast supported with black, angular clasts with hematite altered rims, measuring 5-10 cm in a grey matrix	small amount of pyrite,	
27-Jul-11	B. Quist	L. Marshall	TR-DHC-11-003	TR-DHC-003-012	985385	524271	5410296		200	85	8	6.5	Breccia. Non-magnetic, non-reactive with acid, clasts range from 1-10 cm, most are 4-5 cm. Most clasts are black, sub angular with slight hematite alteration rim, matrix is lighter grey. Other clasts include rounded granite (pink in colour, k-spar rich), matrix supported.		
27-Jul-11	B. Quist	L. Marshall	TR-DHC-11-003	TR-DHC-003-013	985386	524265	5410321		200	103	9	8	Breccia, mainly clast supported. Black clasts are angular, fine-grained, 2-8 cm. Other clasts included sub-rounded pink granite, 3-6 cm and a granite clast that is angular and measures 15-60 cm. Matrix is grey/blue, non-magnetic. Lots of chlorite alteration, no reaction with acid		
27-Jul-11	B. Quist	L. Marshall	TR-DHC-11-003	TR-DHC-003-014	985387	524264	5410322		85	93	9	5.5	Breccia, mainly clast supported. Black clasts are angular, fine-grained, 2-8 cm. Other clasts		

Date	Name	Name 2	Trench ID	Sample ID	Act Labs ID	Easting	Northing	Location on Trench	Azimuth	Length	Width	Depth	Description	Mineralogy	Comments
													included sub-rounded pink granite, 3-6 cm and a granite clast that is angular and measures 15-60 cm. Matrix is grey/blue, non-magnetic. Lots of chlorite alteration, no reaction with acid		
27-Jul-11	B. Quist	L. Marshall	TR-DHC-11-003	TR-DHC-003-016	985389	524268	5410365	Dyke near intersection of DHC trench 2 and 3 which strikes 320	240	114	6	7	Dyke is weathering purple, red on surface, and it is weathering quite rounded unlike most other rocks in the area. It is very fine grained, quite siliceous	Too fine grained to distinguish minerals.	
28-Jul-11	L. Marshall	B. Quist	TR-DHC-11-003	TR-DHC-003-015	983588	524266	5410325	crosses breccia/conglomerate zone	318	91	7.5	5	Polymictic paraconglomerate/breccia, dark grey aphanite matrix, magnetic dark grey aphanite clasts (not magnetic, aligned minerals) Other clasts are quartz, reddish aphanite, felsic (30 k-spar, 30 quartz, 30 mafic, 10 plagioclase), clasts are 0.2-5cm, cut face of matrix is HCl reactive.	k-spar, quartz, unknown black, unknown reddish	

13 Geophysics

13.1 Radiometric work

Private regional airborne geophysical radiometric maps were available for the Deadhorse Creek Property and were used to delineate targets in conjunction with hand-held, GPS-paired RS-125 Gamma Ray spectrometers capable of discriminating K, U and Th from total counts per second. The spectrometers were used primarily on regional grids (Figure 3 and Figure 4), but they were also used on reconnaissance traverses and on the trenches. Background counts per second (cps) ranged between 200 - 300. The spectrometer was very useful for guiding general exploration work; it provides a first pass approximation of Th-U-K geochemistry for any sample type and can be carried by non-specialist labourers for automated and georeferenced data collection during other tasks (such as soil sampling).

Measurements taken with the RS-125 mass spectrometer were all processed in the same way. The device was setup to take a measurement of the average background radiation every second, and to group those samples into 30 second blocks. After measurement, data was recovered from the device and opened in Microsoft Excel 2010©. Any data containing missing coordinates, obvious incorrect coordinates, data blocks with less than a full 30 units or impossible altitudes were removed from the data set as erroneous data. Each 30 second block was then averaged to create one data point. No data was removed based background radiation levels, ie extreme highs or lows. The averaged points were then imported into Surfer 10© in order to contour them. Surfer requires that imported data be gridded. All data sets were too large to grid all the data, so a search function had to be used in order to average points around each node. The search function was set to use a circle divided into 4 quadrants to scan a grid having a resolution of 300x300 points. Each search node was set to use a radius of 0.001 units, use a maximum of 64 data points, a maximum of 16 data points in each quadrant and was set to blank the node if there was less than 4 data points in all quadrants or if 3 or more quadrants contained no data. Once these parameters were set, the Kriging method was used to actually create the grid. This grid was then filtered using a low-pass Gaussian 3x3, then spline smoothed, both using Surfer. The created grid was then used to create a shaded relief map. Custom color scales were used for each map in order to best display data. It was common to find that the vast majority of data existed in the bottom fifth (or less) of the total scale, so most color scales used are exponential in form in order to show the general shape of the contour, while still including the peak values.

Also used on the property was the Polimaster (PM10703M), a personal gamma ray radiation detector. The Polimaster was only used for on outcrops and was not used for prospecting, as it was not outfitted with a GPS unit.

Radiometric maps (1:5000 scale) of counts per second as well as K, Th, and U levels on the Deadhorse Creek Property can be found in Appendix 3. Table 7 summarizes radiometric assays taken using the spectrometer; it also provides locations and descriptions of the rocks assayed.

13.2 Conclusions/Recommendations based on Radiometric work

Rare earth elements (REE) are often associated with radiometric anomalies and Th in particular is known to be a useful vector to determine areas that may be anomalous in REE. A comparison of TREO and Th from the assay data shows that there is a positive correlation between assays and spectrometer values. The spectrometers were useful for delineating areas with high radiometric readings; these areas were hoped to also contain anomalous values of REE. The Deadhorse Creek property was investigated in the past for uranium, however, over the course of exploration on the property it was determined that areas of high uranium were not generally associated with elevated concentrations of REE.

Areas that contain red breccia tend to be enriched in U and sometimes Th. The reason for this enrichment likely lies in the fact that the breccia contained fluids at some point that remobilized Th and U; the hope was that these same fluids that transported and deposited Th and U would have also transported and deposited REE in elevated concentrations.

Use of the radiometric maps for delineating REE targets was mainly unsuccessful on the Deadhorse Creek property due to low concentrations of REE in general and low concentrations of REE in rocks with high radiometric signatures. The radioactivity was useful for delineating rock unit contacts and rock unit types, which could then be used to determine whether or not the area was prospective for REE. Inverting K values and plotting them against Th values produces a gridded map with boundaries that corresponds quite well to the geological map produced by Walker, 1967 (Figure 38, Figure 39, and Figure 40). The correlation of K and Th boundaries with lithological boundaries is due to the mineralogical and elemental composition of rock units (eg. the Coldwell batholith is a potassium rich rock) and may also be due to metamorphic changes in the rock units (eg. albitization?).

Figure 40 shows that the high values produced on a radiometric map with Th overlain with inverted K values typically correspond to areas of the mapped granite-syenite of the Coldwell complex. The Coldwell complex is not known to be associated with anomalously high REE values, so further programs of exploration should focus on areas that appear as lows on radiometric maps.

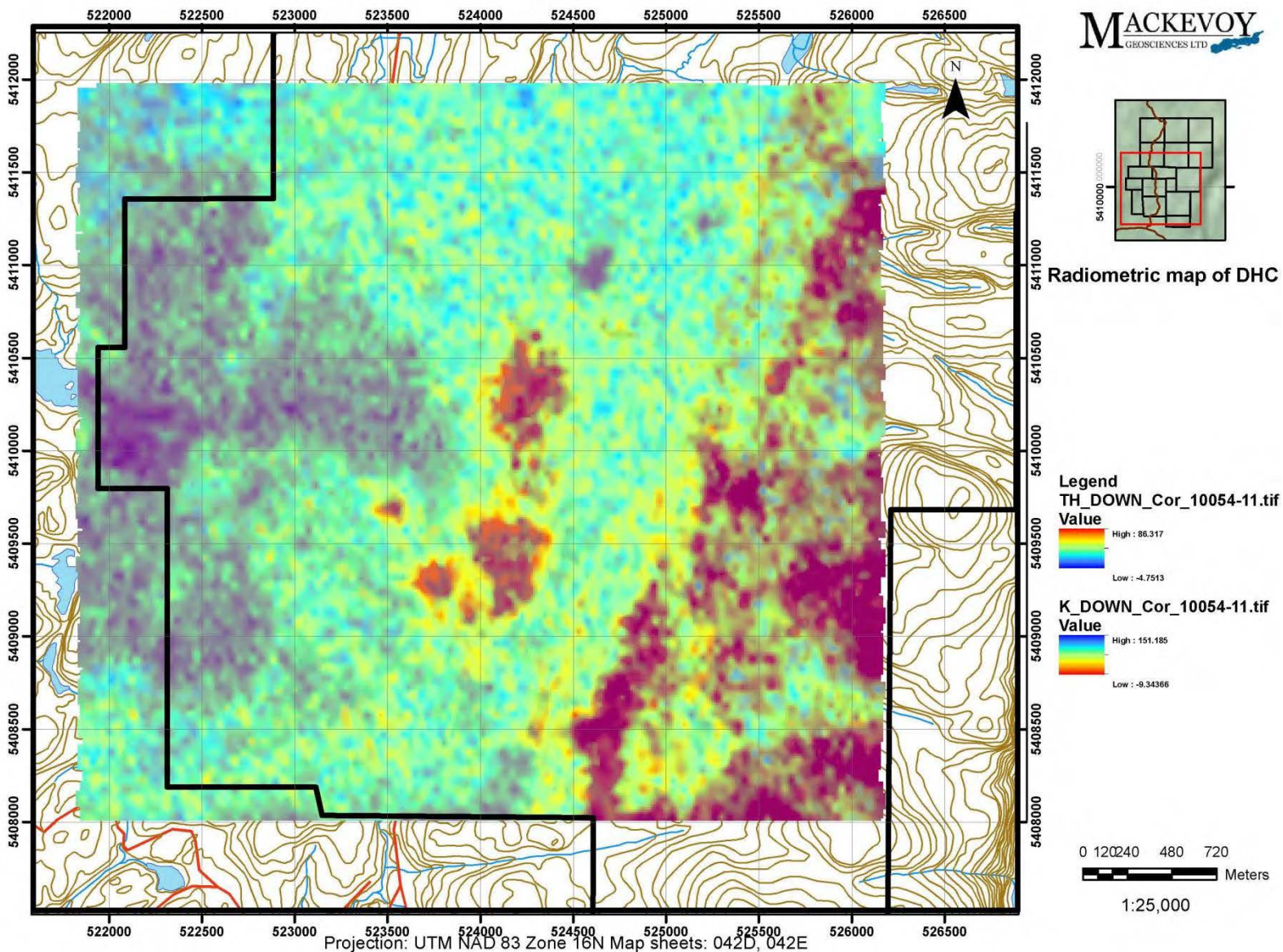


Figure 38. Radiometric map of Th and 1/K (partially transparent) on the Deadhorse Creek Property

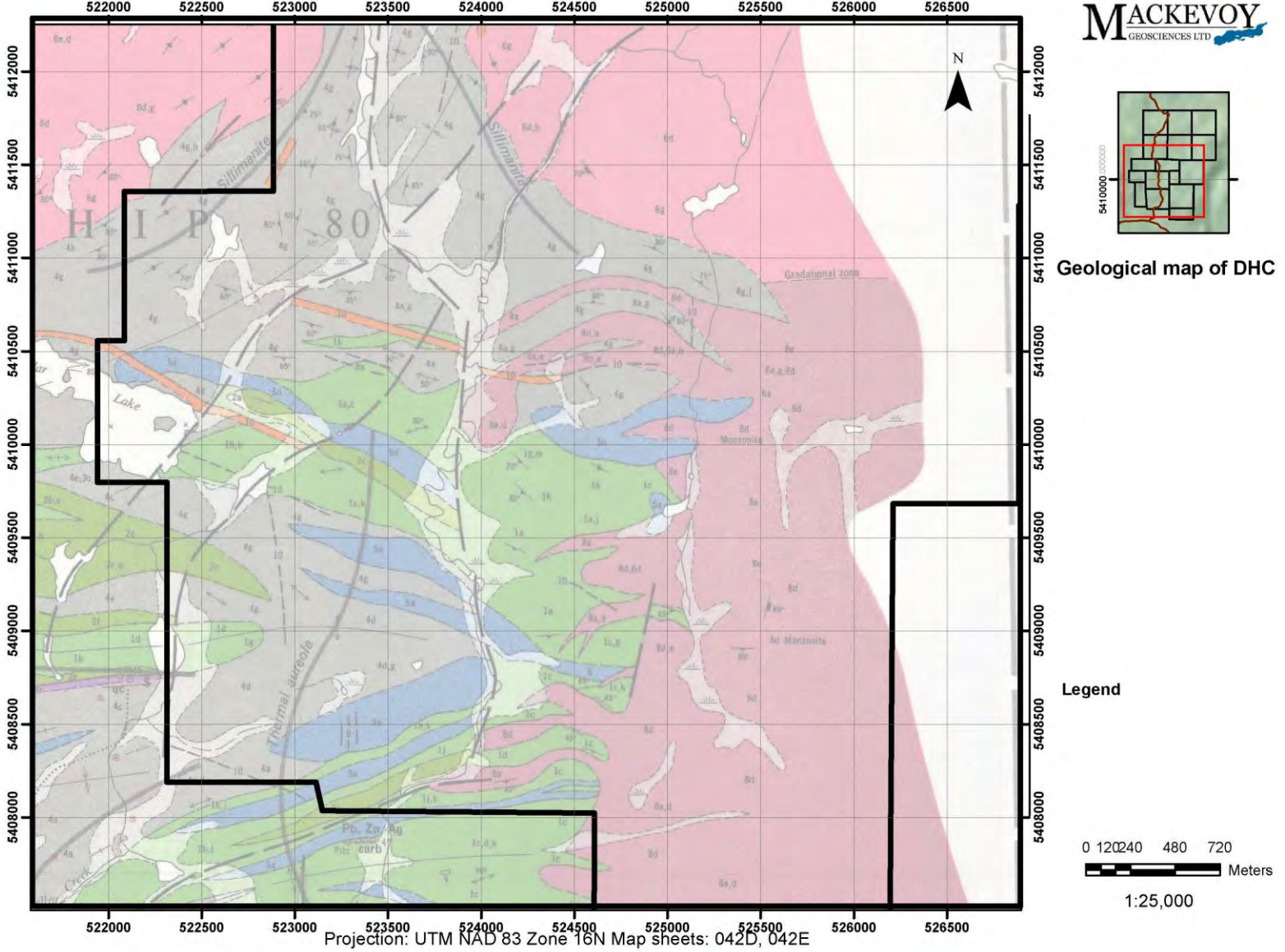


Figure 39. Geological map of the Deadhorse Creek Property (Walker, 1967). A 1:5000 scale geological map of Deadhorse Creek, including a detailed legend can be found in Appendix 3.

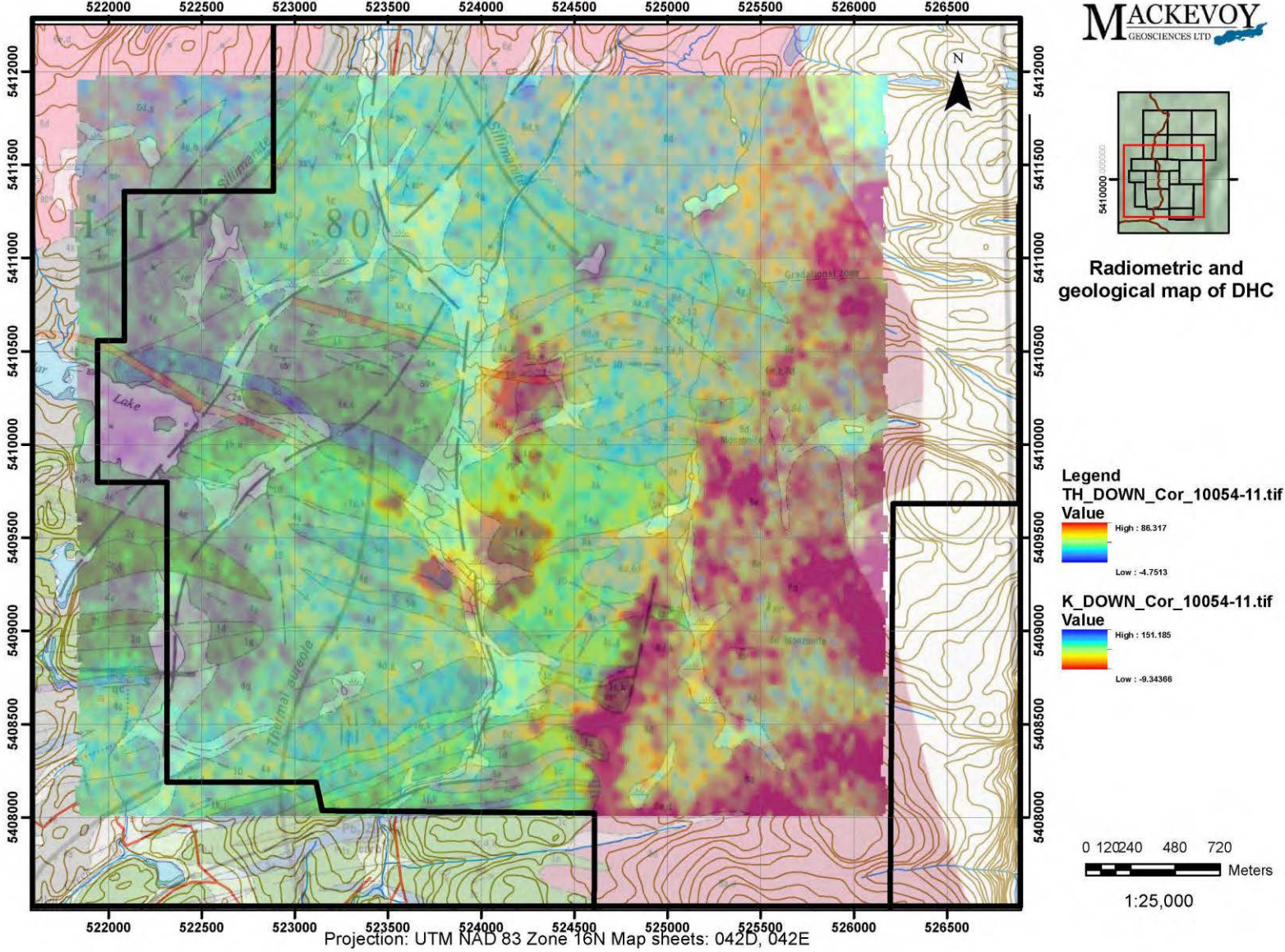


Figure 40. Geological map of Deadhorse Creek, overlain by a Th and 1/K radiometric map. Note how the high on the right side of the radiometric map corresponds well with the mapped contact of the pink Coldwell complex (listed simply as a granite) on Walker's (1967) map.

Table 7. Summary, location, description and daily log of radiometric assays collected while prospecting.

Date	Name	Name 2	Spectrometer Assay #	Grid #	Line #	Easting	Northing	Spectrometer Assay Location Description	Rock Description	Counts (cps)	DR	DR units	K (%)	U (ppm)	Th (ppm)	Associated Outcrop Name	Comments
06/04/2011	D. Cameron	G. Quist	2483-A21279	119	K	524982	5409835	Slight gully with exposed sides. Possible faults? Slopes N. Taken at West wall	2 ft. Thick pink intrusion between salt and peppery rocks. Small grains. Rock underneath is greener and has larger grains.	1150	483.0n	N	5.7	25.8	99.7		
26/05/2011	M. Dalsin	D. Gritsaenko/G. Quist	2483-A8444	103	A	523706	5409519	long cliff outcrop at start of line	some weak to moderate hematite alteration	2000	1.2	µSv/h	2	66	297	OC-11-MLD-030	
26/05/2011	M. Dalsin	D. Gritsaenko/G. Quist	2483-A8445	103	A	523533	5409502	small outcrop with one area having very high cps	metased w/ some possibly hematized clasts	1200	480.9	nSv/h	6.7	32.3	80.8	OC-11-MLD-031	
27/05/2011	M. Dalsin	L. Marshall/W. Harman	1320-A1082	102	B	524101	5410251	Across the valley from OC-11-LAM-049, on hill. Great outcrop with large quartz veins and metaseds	quartz vein with REE mineralization	400-480	243.7	nSv/h	4.5	5.9	41	OC-11-MLD-032	
27/05/2011	M. Dalsin	L. Marshall/W. Harman	1320-A1083	102	B	524101	5410251	Across the valley from OC-11-LAM-049, on hill. Great outcrop with large quartz veins and metaseds	high spectrometer reading possible country rock	1020	695	nSv/h	4.6	3.8	183.2	OC-11-MLD-032	
27/05/2011	L. Marshall	Mal/W. Harman	1320-A1084	102	B	524095	5410261		More meta-sed/volcanic than felsic orange intrusive	up to 2000	1.3	µSv/h	3.9	2	389.7	OC-11-LAM-050	W. Harman took pictures
27/05/20	M.	L.	1320-	102	B	5241	54103	on fresh	very high	3900	2.8	µSv/h	4.4	142.	535.	OC-11-MLD-	

Date	Name	Name 2	Spectrometer Assay #	Grid #	Line #	Easting	Northing	Spectrometer Assay Location Description	Rock Description	Counts (cps)	DR	DR units	K (%)	U (ppm)	Th (ppm)	Associated Outcrop Name	Comments
11	Dalsin	Marshall/W. Harman	A1085			40	00	surface of highest spectrometer reading in area	spectrometer reading on country rock					5	3	033	
29/05/2011	D. Gritsaenko	L. Marshall, Mal	1320-A1086	102	C	524188	5410200		dark grey metaseds with red brecciation	390-415	199.6	nSv/h	4.4	4.1	31.7	OC-11-MLD-007	
29/05/2011	D. Gritsaenko	L. Marshall, Mal	1320-A1087	102	C	524190	5410210		dark grey metaseds with red brecciation	459-480	277.2	nSv/h	3.8	6.7	53.1	OC-11-MLD-007	
29/05/2011	D. Gritsaenko		1320-A1088	102	C	524196	5410161	Near tree and edge of moss in area with highest spectrometer values	dark grey rock, magnetic, with beige weathering	5600-6100	4.4	μSv/h	6.2	169.9	991.4	OC-11-MLD-014	Sample 11-LAM-018 and Photos ***
29/05/2011	D. Gritsaenko		1320-A1089	102	C	524231	5410097		red to reddish pink brecciation	5300	3.4	μSv/h	7.8	223.1	560	OC-11-MLD-015	Photo ***
29/05/2011	D. Gritsaenko		1320-A1090	102	C/D	524202	5409994			527	274.1	nSv/h	5.8	14.2	27.2	OC-11-MLD-034	Photo ***
29/05/2011	D. Gritsaenko		1320-A1091	102	C/D	524261	5409987		anomalous vein on said OC	1200-1400	755.6	nSv/h	4.3	33.8	142.9	OC-11-MLD-034	
29/05/2011	D. Gritsaenko		1320-A1092	102	D	524304	5410130			2500-2700	1.5	μSv/h	3	103	238.3	Assay over Soil	
29/05/2011	D. Gritsaenko		1320-A1093	102	D	524311	5410260			1700-1800	965.1	nSv/h	3	40	201.2	Assay over Soil	
29/05/2011	D. Gritsaenko		1320-A10931	102	D	524290	5410347			1600-1700	942.2	nSv/h	7.7	21.2	192.9	OC-11-MLD-035	
29/05/2011	D. Gritsaenko		1320-A1094	102	D	524292	5410379			2000-2100	1.2	μSv/h	2.2	50.4	262.7	Assay over Soil	
29/05/20	D.		1320-	102	D	5242	54104			1300-	681.	nSv/h	2.9	38.7	117.	Assay over	

Date	Name	Name 2	Spectrometer Assay #	Grid #	Line #	Easting	Northing	Spectrometer Assay Location Description	Rock Description	Counts (cps)	DR	DR units	K (%)	U (ppm)	Th (ppm)	Associated Outcrop Name	Comments
11	Gritsaenko		A1095			99	36			1400	7				9	Soil	
30/05/2011	M. Dalsin	D. Gritsaenko, W. Harman	1320-A1096	102		524888	5409996	taken on red hematized area that was 1-2m across		550-600	338.7	nSv/h	6.1	7.9	58.2	OC-11-DG-032	rest of outcrop spectrometers around 250-320cps
30/05/2011	M. Dalsin	D. Gritsaenko, W. Harman	1320-A1097	102		524405	5410322	taken near metased exposed by overturned tree		500	242.5	nSv/h	2.76	10.4	40.3	OC-11-DG-036	
30/05/2011	M. Dalsin	D. Gritsaenko, W. Harman	1320-A1098	102		524384	5410293	on breccia		400-450	209.8	nSv/h	3.4	6.7	34.2	OC-11-DG-037	
01/06/2011	L. Marshall	M. Dalsin, G. Quist	1320-A1101	102	?	524428	5410392	small outcrop on hillside in clearing, taken on breccia face	Meta-sed/volcanics well indurated dark grey host with brick red to dark grey with brick red rimmed cm-scale subhedral clasts. Some dark grey clasts also had nice pyrite mineralization throughout, slightly magnetic	1356	747.8	nSv/h	4.8	29.8	146	OC-11-MLD-036	
01/06/2011	L. Marshall	M. Dalsin, G. Quist	1320-A1102	102	?	524353	5410397	soil sample, small clearing	soil	3601	2.2	µSV/h	3.9	90.4	459.3	soil	
01/06/2011	L. Marshall	M. Dalsin, G. Quist	1320-A1103	102	?	524795	5410614	soil sample, small clearing	soil	1079	657.4	nSv/h	0.9	14.2	168.6	soil	
01/06/2011	L. Mars	M. Dalsin, G. Quist	1320-A1104	102	?	524697	5410691	soil sample, small clearing	soil	623	332.9	nSv/h	3	6.8	74.1	soil	

Date	Name	Name 2	Spectrometer Assay #	Grid #	Line #	Easting	Northing	Spectrometer Assay Location Description	Rock Description	Counts (cps)	DR	DR units	K (%)	U (ppm)	Th (ppm)	Associated Outcrop Name	Comments	
01/06/2011	hall	L. Mars hall	M. Dalsin, G. Quist	1320-A1105	102	?	524384	5410449	soil sample, fairly dense cover	soil	1598	912.3	nSv/h	4.1	35.3	188.8	soil	
03/06/2011	D. Gritsaenko	L. Marshall	1320-A1107	104	D	523793	5409293	outwash valley covered by moss	breccia, possibly float, orthobreccia (clast supported) clasts 1-20cms	800-875	446.4	nSv/h	4.8	18.9	75.6	OC-11-LAM-055	rock may have come from cliff to the SW	
03/06/2011	D. Gritsaenko	L. Marshall	1320-A1108	104	B	523805	5409083	mossy clearing with scattered trees and deadfall, slightly uphill	breccia, orthoconglomerate, but has more matrix than previously seen	1150-1250	667	nSv/h	4.1	30.2	124	OC-11-DG-052		
03/06/2011	D. Gritsaenko	L. Marshall	1320-A1109	104	A	524482	5409006	backside of small mossy hill with deadfall, trees grow fairly wide apart	pink, orangish colour, weathered with visible porphyroblasts of black minerals, mm scale --> metavolcanic/col well complex?	500cps	286.8	nSv/h	4.9	11.3	41.2	OC-11-DG-057		
05/06/2011	G. Quist	L. Marshall, D. Gritsaenko	1320-A1113	104	B	524068	5409100	Side of incline, sparse trees	Grey meta-sed, minor pyrite, small felsic dyke	372.4	195.1	n	1.9	4.7	41	OC-11-DG-058		
05/06/2011	G. Quist	L. Marshall, D. Gritsaenko	1320-A1114	104	B	524106	5409090	Side of incline, sparse trees	At contact of meta-sed and felsic dyke	895.8	521.1	n	2.3	2.3	143.9			
05/06/2011	G. Quist	L. Marshall, D. Gritsaenko	1320-A1115	104	C	524542	5409202	Side of incline, sparse trees	Pink granite	829.4	432.9	n	4.2	17.1	77.9	OC-11-DG-063		
05/06/2011	G. Quist	L. Marshall, D. Gritsaenko	1320-A1116	104	D	524577	5409317	Flat of valley	Pink granite	832.8	428.4	n	4.5	19.7	70	OC-11-DG-065		
05/06/2011	G. Quist	L. Marshall, D. Gritsaenko	1320-A1117	104	C	524289	5409201	Side of fulley running down	Dark grey host rock with pick	885.5	462.4	n	4.7	12.8	93.5	OC-11-DG-066	11-LAM-028	

Date	Name	Name 2	Spectrometer Assay #	Grid #	Line #	Easting	Northing	Spectrometer Assay Location Description	Rock Description	Counts (cps)	DR	DR units	K (%)	U (ppm)	Th (ppm)	Associated Outcrop Name	Comments
		Gritsaenko						incline	breccia								
05/06/2011	G. Quist	L. Marshall, D. Gritsaenko	1320-A1118	104	C	524264	5409200	Near top of incline	Dark grey host rock with pick breccia	598.3	323.9	n	2.4	12.5	62.3	OC-11-DG-068	11-LAM-029
05/06/2011	G. Quist	L. Marshall, D. Gritsaenko	1320-A1119	104	C	524255	5409197	Near top of incline	Dark grey host rock with pick breccia	2169.5	1300	n	2.6	13.8	363.9	OC-11-MLD-046	
05/06/2011	G. Quist	L. Marshall, D. Gritsaenko	1320-A1120	104	C	524224	5409184	Top of rift	Heavy weathering	700	366.5	n	3.5	7.7	80	OC-11-DG-069	
06/06/2011	W. Harm an	D. Gritsaenko, M. Dalsin	1320-A1121			525002	5409096	Brecciated area on incline	Brecciated with black breccia	900	609.9	nGy	2.9	4.6	163.9	OC-11-MLD-043	
06/06/2011	W. Harm an	D. Gritsaenko, M. Dalsin	1320-A1122			524830	5409104	Mossy bouldery area	Over soil	400	187.2	nGy	3.5	7.7	24.9	N/A	
06/06/2011	W. Harm an	D. Gritsaenko, M. Dalsin	1320-A1123			524747	5409106	Under the cliff that looks like its going to fall	Pink rock K-feldspar?	700	417.9	nGy	3.8	16.3	77	OC-11-MLD-044	Photo was taken of spot where aassay was taken.
07/06/2011	G. Quist	Mal, L. Marshall	1320-A1124	104	C	524590	5409202	Slight incline, sparse coniferous trees	Pink (K-feldz?)	825	442.6	n	4.4	20.9	72.2		
07/06/2011	G. Quist	Mal, L. Marshall	1320-A1125	104	D	524716	5409310	Side of incline, near crest	Overburden	575	275.8	n	4	11.7	41.7		
07/06/2011	G. Quist	Mal, L. Marshall	1320-A1126	104	D	524286	5409333	Crest of cliff	Fault between meta-sed	1700	1100	n	1.7	32.9	276.2	OC-11-MLD-051	
07/06/2011	G. Quist	Mal, L. Marshall	1320-A1127	104	D	524283	5409337	Crest of cliff	Overburden	1400	818.4	n	1.8	19.7	202.8		
07/06/2011	G. Quist	Mal, L. Marshall	1320-A1128	104	D	524263	5409359	Middle side of incline	Red breccia in grey host rock	1000	640.7	n	5.3	15.5	139.3	OC-11-MLD-052	
09/06/2011	W. Harm	D. Gritsaenko,	1320-A1129	104	E	524060	5409414	up incline near E9	Grey meta-sed	730	425.8	nGy	3.1	1.5	112.4	OC-11-DG-070	

Date	Name	Name 2	Spectrometer Assay #	Grid #	Line #	Easting	Northing	Spectrometer Assay Location Description	Rock Description	Counts (cps)	DR	DR units	K (%)	U (ppm)	Th (ppm)	Associated Outcrop Name	Comments
09/06/2011	W. Harman	L. Marshall	1320-A1130	104	E	524224	5409405	Dug out area of associated OC	very fine grained grey meta-sed	2300	1.5	mGy	3.1	59.2	315.5	OC-11-DG-072	
09/06/2011	D. Gritsaenko	W. Harman, L. Marshall	1320-A1131	104		524290	5409407	on felsic vein at contact between pink and metased	metased	1300	891.7	nSv/h	3.1	32.6	192.9	OC-11-DG-073	
09/06/2011	W. Harman	D. Gritsaenko, L. Marshall	1320-A1132	104	E	524327	5409407	On slight plateau of ridge	Over soil	1100	672.7	nGy	1.7	24.9	147.8	N/A	
09/06/2011	W. Harman	D. Gritsaenko, L. Marshall	1320-A1133	104	E	524326	5409409	bottom left hand side of OC	Grey meta-sed with some small black breccia	8300	5.3	mGy	7.3	499.1	594	OC-11-DG-084	
09/06/2011	D. Gritsaenko	W. Harman, L. Marshall	1320-A1134	104		524734	5409481	mossy area, mossy OC, sparse spruce trees	contact between metavolcanic (coarse grained, dark gray) and Coldwell (pink/orange, medium grained)	1000	542.3	nSv/h	4.9	15.7	111.2	OC-11-DG-081	
09/06/2011	D. Gritsaenko	W. Harman, L. Marshall	1320-A1135	104		524352	5409447		Metased – quite a bit of magnetite	4300	2.8	µSv/h	4.1	203.8	430.7		Spectrometer high on way back (ran out of time) between lines F & E
10/06/2011	G. Quist	Mal	1320-A1136	104	F	523995	5409505	Side of incline close to the bottom, close to road	Large red breccia in grey host rock	1500	1200	n	1.7	30.8	288.3	OC-11-DG-082	
10/06/2011	G. Quist	Mal	1320-A1137	104	F	524010	5409497	Side of incline close to the bottom, close to road	Large red breccia in grey host rock	550	353.9	n	5.7	8.2	64.4	OC-11-DG-083	
10/06/2011	G.	Mal	1320-	104	F	5240	54094	Side of	Dark grey meta-	3000	190	n	1.5	68.6	421.		11-MLD-

Date	Name	Name 2	Spectrometer Assay #	Grid #	Line #	Easting	Northing	Spectrometer Assay Location Description	Rock Description	Counts (cps)	DR	DR units	K (%)	U (ppm)	Th (ppm)	Associated Outcrop Name	Comments
11	Quist		A1138			27	96	incline, caniferous trees	sed with red clasts		0				8		013
10/06/2011	D. Gritsenko	Mal, G. Quist	1320-A1139	104	F	524056	5409499	on slope, lots of deadfall, took assay in area of OC that looks bouldery	metased, weakly brecciated	950cps	603.8	nSv/h	2.9	9.1	152.6		
10/06/2011	G. Quist	Mal	1320-A1140	104	F	524286	5409498	Near edge of cliff on incline	Pink, very fine grained dyke	550	243.2	n	4.5	5.2	22.5	OC-11-DG-085	Very high potassium
10/06/2011	G. Quist	Mal	1320-A1141	104	F	524363	5409502	Side of tall outcrop on plateau	Very fine grained dark grey band	2700	1600	n	4.5	49.2	371.8	OC-11-DG-086	
10/06/2011	G. Quist	Mal	1320-A1142	104	E	523913	5409377	Side of valley leading to river	Overburden	1800	1200	n	5.8	61.9	225.2		
11/06/2011	W. Harmann	M. Dalsin, L. Marshall	1320-A1143	104	G	524033	5409593	Start of incline near boulders	Over soil	900	562.5	nSv	1.5	6.8	151.7	Over soil	Near boulders where cracks spectrometer higher than the rock
11/06/2011	W. Harmann	M. Dalsin, L. Marshall	1320-A1144	104	G	524073	5409589	Under tree that looks like its holding the rock in place	dark grey meta-sed, fine grained biotite	800	519.9	nSv	3.5	6.8	128.8	OC-11-MLD-056	
11/06/2011	W. Harmann	M. Dalsin, L. Marshall	1320-A1145	104	G	524135	5409589	on opposite side of valley on brecciated area	pink breccia	700	466.9	nSv	4	13.8	96.2	OC-11-MLD-057	
11/06/2011	W. Harmann	M. Dalsin, L. Marshall	1320-A1146	104	G	524137	5409595	on path that goes up but has a tree in the way	grey meta-sed	1200	851.2	nSv	2.5	23.3	202.1	OC-11-MLD-057	

Date	Name	Name 2	Spectrometer Assay #	Grid #	Line #	Easting	Northing	Spectrometer Assay Location Description	Rock Description	Counts (cps)	DR	DR units	K (%)	U (ppm)	Th (ppm)	Associated Outcrop Name	Comments
11/06/2011	W. Harman	M. Dalsin, L. Marshall	1320-A1147	104	G	524822	5409595	on incline under birch tree	coldwell complex	1100	618.7	nSv	4.8	31.3	103.7	OC-11-MLD-058	
11/06/2011	W. Harman	M. Dalsin, L. Marshall	1320-A1148	104	H	524894	5409678	Near top of incline	Pinkish orange rock	1100	560.8	nSv	4.4	22.4	105.3	Over soil	Possibly float, dug down to rock surface
11/06/2011	W. Harman	M. Dalsin, L. Marshall	1320-A1149	104	H	524066	5409699	Taken in the brecciated area near fault looking piece	Breccia with meta-sed	350	217.2	nSv	5.5	6	27.8	OC-11-LAM-057	
12/06/2011	G. Quist	L. Marshall	1320-A1150	104	I	524280	5409814	Gulley	Pick breccia in meta-sed	850	359.6	n	5	19.2	47.5	OC-11-LAM-059	
12/06/2011	G. Quist	L. Marshall	1320-A1151	104	I	524909	5409803	Light overhang, sparse coniferous trees	Coldwell complex	1500	807.1	n	6.8	41.3	131.2	OC-11-LAM-061	
12/06/2011	G. Quist	L. Marshall	1320-A1152	104	I	524979	5409806	Gulley	K-feldz dyke in meta-vol host	1150	561.2	n	4.9	30.4	87.3	OC-11-LAM-062	
19/06/2011	G. Quist	W. Harman	2483-A16182	107	K	524200	5407999	Pinnacle of incline	Pink granite - Coldwell Complex	800	321.7	n	4.1	11.5	76.4		
19/06/2011	D. Gritsenko	A. Ya'acoby	2424-A1121			523526	5409675	at ~2.7m (pointed at relatively large float that very probably came from OC)		8100	4.8	μGy/h	0.8	303.8	1183	TR-DHC-11-001	
19/06/2011	D. Gritsenko	A. Ya'acoby	2424-A1122			523528	5409674	at ~2.6m (pointed at lower float chunk of OC)		9000	5.2	μGy/h	0	525.2	879.5	TR-DHC-11-001	
19/06/2011	D.	A. Ya'acoby	2424-			5235	54096	At ~5.4m		4600	2.6	μGy/h	0	230.	483.	TR-DHC-11-	

Date	Name	Name 2	Spectrometer Assay #	Grid #	Line #	Easting	Northing	Spectrometer Assay Location Description	Rock Description	Counts (cps)	DR	DR units	K (%)	U (ppm)	Th (ppm)	Associated Outcrop Name	Comments
11	Gritsaenko		A1123			25	86	(pointed at lower part of OC weathered a rusty red/brown colour)						4	9	001	
19/06/2011	D. Gritsaenko	A. Ya'acoby	2424-A1124			523515	5409686	At ~18.1m (pointed at lower part of OC weathered to a rusty brown colour)		4100	2.1	µGy/h	0.6	201.3	353.3	TR-DHC-11-001	
19/06/2011	D. Gritsaenko	A. Ya'acoby	2424-A1125			523520	5409680	At ~12.1m (pointed at lower surface of OC)		4400	2.1	µGy/h	0	135.7	495	TR-DHC-11-001	
20/06/2011	W. Harmann	D. Gritsaenko	2483-A17188	107	14	524300	5409340	Side of cliff near to small crack	Dark grey meta-sed. Vfg.	1350	552.7	nGy/h	3.6	23.2	141.1	OC-11-DG-90	
21/06/2011	W. Harmann	D. Gritsaenko	2483-A17297	116	16	524249	5409755	On whitish area under the dead tree	Dark grey with k-spar and quartz	530	233.4	nGy/h	5.1	14.8	31.9	N/A	irregular weathering
21/06/2011	W. Harmann	D. Gritsaenko	2483-A17477	116	Q	524331	5409546	Slight incline with a few trees	Possible coldwell dyke within magnetic meta-sed	500	237.3	nGy/h	3.8	5.6	58.6	N/A	Coldwell spectrometers 500, rest spectrometers at background
21/06/2011	W. Harmann	D. Gritsaenko	2483-A17491	116	Q	524349	5409446	Flat area with lots of ferns	Dark grey aphanitic with shiny parts of metallic silvery	4500	2.3	mGy/h	3.7	197.5	442.9	N/A	Possibly float
21/06/2011	W. Harmann	D. Gritsaenko	2483-A17532	116	P	524307	5409354	Big upturned tree area on hillside near cliff	over soil, near grey white rocks	2250	928.6	nGy/h	1.8	82.1	170.6	N/A	
21/06/2011	W.	D.	2483-	116	P	5243	54093	Edge of small	Dark grey	5400	2.8	mGy/h	7.5	186	630.	OC-11-DG-	

Date	Name	Name 2	Spectrometer Assay #	Grid #	Line #	Easting	Northing	Spectrometer Assay Location Description	Rock Description	Counts (cps)	DR	DR units	K (%)	U (ppm)	Th (ppm)	Associated Outcrop Name	Comments
11	Harman	Gritsaenko	A17535			11	75	dried up swamp on top of cliff	magnetic, very fine grained with pyrite clusters						9	091	
23/06/2011	A. Ya'acoby		2483-2074	116	7	523727	5409326	Alder zone; top of cliff crest; tall spruce trees	Breccia	2000	1.2	µGyh	0.2	57.3	322.2		
23/06/2011	D. Gritsaenko	W. Harman	2483-A18452	116	2	523930	5409053	on fairly steep incline, after dense bush but area fairly open, lots of dead leaves and mossy	breccia: dark grey, aphanitic host, clasts range from several mm to several cm. Largest clast consists of pink K-feldspar?, smaller clasts are white (plagioclase?). Also, some green chloritization around black clasts.	580	233.1	nGy/h	5.8	5.5	47.4	n/a	1 photo
23/06/2011	D. Gritsaenko	W. Harman	2483-A18469	116		523950	5409134	West side of river, within alders	assay over soil	700	241.1	nGy/h	2.6	9.2	58.4	n/a	
23/06/2011	D. Gritsaenko	W. Harman	2483-A18563	116		523736	5409246	flatish area with dead spruce and birch trees	assay over soil	1500	621	nGy/h	3.2	37.3	139.7	n/a	
23/06/2011	D. Gritsaenko	W. Harman	2483-A18641	116		523769	5409349	start of large, high spectrometer values cliff with alders	assay over soil	1200	463.5	nGy/h	3.4	17.8	119.8	n/a	
24/06/2011	W. Harman	G. Quist	2483-A18914	117	9	524253	5410208	Small incline with deadfall, dry area.	brecciated with pink/red clasts, pyrite, quartz, K-feldspar	3100	1.4	mGy/h	6.4	101.7	274.5		
24/06/2011	W. Harman	G. Quist	2483-A18988	117		524216	5410244	On hillside, with birch	highly brecciated with red/pink	5700	2.6	mGy/h	8.9	227.7	461.1		

Date	Name	Name 2	Spectrometer Assay #	Grid #	Line #	Easting	Northing	Spectrometer Assay Location Description	Rock Description	Counts (cps)	DR	DR units	K (%)	U (ppm)	Th (ppm)	Associated Outcrop Name	Comments
	an							trees and spruce	clasts								
24/06/2011	W. Harm an	G. Quist	2483-A19138	117		524269	5410359	Incline near large dead stump	assay over soil	2300	880.9	nGy/h	2.2	41.8	232		
24/06/2011	W. Harm an	G. Quist	2483-A19401	117		524296	5410627	Beaver dam, hidden area	Meta-sed like dark grey rock	2500	1073	nGy/h	7.8	64.9	229.9		
25/06/2011	D. Gritsaenko	A. Ya'acoby	2483-A19473	117	7	524199	5410095	on steep incline, near small dark gray OC (that doesn't spectrometer) surrounded by dead trees	Assay Over Soil	2000	819.2	nGy/h	4.4	50.4	101		
03/07/2011	D. Gritsaenko	A. Ya'acoby	2424-A3711	112		524797	5410599	fairly large clearing with low berry bushes and grass. Birch and spruce trees scattered.	assay over soil	1000	489.5	nGy/h	0	14.5	152.4		
03/07/2011	D. Gritsaenko	A. Ya'acoby	2424-A3537	112		524305	5410384	clearing with small ferns, moss and a couple of fallen trees. Trail of orange flagging tape to the west.	assay over soil	3500	1.5	μGy/h	20.00%	160.4	215.9		spectrometers over fairly large area! Consider trench here? Sample 11-AY-004 taken from here.
03/07/20	A.	D.	2424-	119-	N/	5243	54103	tall spruce	float/block;	~600	2.8	microG	0	263.	495.	n/a near old	

Date	Name	Name 2	Spectrometer Assay #	Grid #	Line #	Easting	Northing	Spectrometer Assay Location Description	Rock Description	Counts (cps)	DR	DR units	K (%)	U (ppm)	Th (ppm)	Associated Outcrop Name	Comments
11	Ya'acoby	Gritsaenko	A3547	120	A	53	92	and birch trees; slight slope facing east; tall moss and ferns	volcanogenic breccia; somewhat metasomatized; magnetic; fizzes slightly (slight carbonates); fine grained; massive; dark grey and purplish; sulfides present; somewhat oxidized; slightly hematitic alteration or staining; mostly pyroxene and mafics; some magnetite likely; pyrite; chlorite; hematite	0		yh-1		1	6	drilling sites	
05/07/2011	D. Gritsaenko	S. Todd	2483-A21989	102	E	524437	5410428	NE side of marshy lake, right by the shore. Knee high grass surrounded by short coniferous trees. Very close to passable part of lake/creek.	quartz seen, pyrite specs, thin strips of red minerals, massive, vgr and gray.	2600	1.4	mGy/h	3.4	47.7	406	n/a	
07/09/2011	D. Cameron	D. Gritsaenko	2483-A24245	114	P	524725	5411994	Bottom of a very large cliff. Cliff faces east. River to the east.	Pink peachy coloured with quartz, dark minerals. Some green-grey with a 5mm veinlet of	3725	1.8	UGyh	1.7	73.7	504.1		

Date	Name	Name 2	Spectrometer Assay #	Grid #	Line #	Easting	Northing	Spectrometer Assay Location Description	Rock Description	Counts (cps)	DR	DR units	K (%)	U (ppm)	Th (ppm)	Associated Outcrop Name	Comments
									black running through it. Entire rock is magnetic								
22/06/2011	A. Ya'acoby	D. Gritsaenko	2483-17808	116	M	524131	5409357	foot of hill, overturn trees, alders, close to road	over soil	3600	1.6	mGyh	4.5	73.5	409.4		
22/06/2011	A. Ya'acoby	D. Gritsaenko	2483-17812	116	L	524109	5409364	bottom of cliff, alder zone, firs, breccia scattered around	over soil	1300	520.7	nGyh	2.5	13.5	153.9		
23/06/2011	A. Ya'acoby		2424-1840	116	3	523918	5409129	Alder zone; inclined slope	Breccia	2000	1	mGyh	0.3	114.6	147.8		

14 Assay Results

Assay results can be found in the Appendix. Samples were sent to Activation Laboratories, located in Thunder Bay, Ontario. A total of 9 sample shipments containing 179 samples were processed. . A blank, containing white marble was included for every 10 samples that were processed. Samples were processed using code 1A1 fire assay and Code 8 REE assay packages. The REE assay package requires a lithium metaborate/tetraborate fusion with subsequent analysis by ICP and ICP/MS. Mass balance is required as an additional quality control.

Table 8. Assay result for selected elements from rocks collected on the Deadhorse Creek property. Complete results can be found in the appendix

Sample Name	TREO (%)	ActLab Number	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	Th	U
11-BCQ-0169	0.20	985333	963	15.2	40.9	5.87	33.3	20.4	11.3	54.2	15.9	141	32.1	107	19.1	149	26.6	108.0	< 0.1	567.0	289.0
11-BCQ-0163	0.17	985321	768	26.4	56	8.22	43.3	22.7	11.2	52.9	15.4	121	28	85.6	14.7	109	16.7	114.0	< 0.1	583.0	251.0
11-LAM-031	0.43	985294	1002	450	932	102	429	105	36.5	120	26.6	188	35.1	95.8	13.7	82.2	11.7	1.9	< 0.1	637	278
11-AY-001	0.50	985323	718	815	1480	136	470	73.9	26.6	118	21.6	144	26.5	71.7	10.9	72.4	11.3	64	2.4	683	165
11-BCQ-0180	0.54	985335	1687	425	866	104	430	135	54.3	170	36.1	259	53.6	148	18.3	94.6	11.1	4.2	7.5	504	342
11-WJH-020	0.74	985303	941	1080	2180	227	905	199	70.2	206	35.6	205	34.2	82.3	10.9	65.7	9.55	1.8	5.7	588	447
11-LAM-018	0.81	985276	1622	859	1840	208	829	277	106	337	62.8	330	59	144	16.2	76.7	8.08	5.4	16.5	131.0	233
11-MLD-009	0.48	985272	916	544	1140	144	561	133	48.9	159	33.6	190	34.7	85.9	10.7	56.5	6.71	4.5	9.6	912	290
11-GMQ-011	0.42	985328	663	541	1110	134	510	113	40.5	151	25.1	139	23.1	57.9	7.4	44.1	6.4	10.8	10.7	610	423
11-AY-004	0.53	985336	738	667	1400	166	666	183	69.1	209	34.2	177	27.1	59.8	6.84	34.8	4.39	3.3	9.1	618	88.1
11-LAM-036	0.59	985301	557	852	1890	211	865	167	51.2	136	23.6	132	20.9	48.8	5.73	29.6	3.9	3.1	6	550	146
11-BCQ-0183	1.30	985402	1186	2410	4180	425	1570	324	109	336	56.1	276	41.8	81.4	8.28	35.2	3.82	20.2	< 0.1	766	403
11-LAM-038	0.57	985305	686	761	1590	182	795	205	66.1	180	29.4	164	25.1	57.8	5.97	30.2	3.65	8.1	9.2	416	41.9
11-DG-017	0.61	985325	462	1130	2140	229	795	121	35.5	103	16.6	94.8	16.9	39.9	4.92	27.4	3.64	8.2	18.4	571	195
11-LAM-023	0.56	985285	450	932	1890	199	786	137	39.3	100	15.7	91.1	16.8	44.1	5.21	28.7	3.62	2.4	1	245	51.8
11-GMQ-007	0.59	985266	331	1070	2100	241	866	137	37.1	93.1	13.3	66.6	11.9	33	4.29	24.3	3	3.6	0.7	414	96.3
11-MLD-013	0.26	985308	516	307	634	66.4	264	59.5	27	81.3	19.2	127	20	44.6	4.64	23.8	2.89	3.3	7.9	196	50.6
11-LAM-029	0.46	985292	332	713	1520	171	695	143	40.9	114	17.1	81.4	13.1	30.5	3.63	20.8	2.76	2.6	12.8	708	102
11-GMQ-	0.31	985284	355	453	931	101	404	95.	34.1	99.	16.	89.	13.	33.	3.89	20.	2.6	7.2	10.	298	65.8

Sample Name	TREO (%)	ActLab Number	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	Th	U
008								2		8	5	6	8	1		4	1		9		
11-BCQ-0182	0.35	985403	390	613	1080	113	403	75.9	25.7	76.8	13.8	75	13.3	31.5	4.05	21.1	2.55	3.3	8.4	226	78.5
11-GMQ-010	0.71	985311	339	1340	2660	266	969	147	41.7	106	15.3	82.5	13	29.4	3.48	18.6	2.52	6.1	10.4	544	76
11-LAM-030	0.29	985293	252	448	952	101	405	83.6	26.8	69.4	11.3	58.1	9.9	24.4	2.94	16.6	2.14	4.3	7.8	495	17
11-DG-015	0.10	985316	364	26.6	67.8	10.1	62.9	39.5	20.6	77.2	16.4	104	14.9	28.3	3.04	15.4	2.03	2	< 0.1	117	77.1
11-AY-002	0.10	985322	176	141	276	29.9	111	23.7	8.46	26.9	5	31.7	6.5	16.9	2.36	14.2	2.01	11.5	5.2	172	70.9
11-LAM-042	0.13	985314	144	210	380	38.5	160	49.9	18.1	49.9	7.1	36.2	5.6	14.1	1.88	11.9	1.77	10.5	0.9	170	24.2
11-LAM-019	0.25	985277	381	360	702	81.5	299	74.9	25.6	72.7	13.1	71.9	13.3	33	3.59	16.4	1.76	7.8	11.8	246	47.2
11-SMT-003	0.25	985337	197	423	768	85.5	327	89.1	29.4	83.3	11.3	51.5	7.6	16.9	2.08	11.4	1.55	9.5	5	251	28.2
11-DTC-001	0.10	985341	64	215	369	33.9	107	16.8	1.17	11.4	1.7	11	2.2	7.1	1.21	8.8	1.42	29.9	26.5	105	26
11-LAM-011	0.02	985261	71	4.9	14.1	2.33	12.4	5	2.18	7.8	1.7	11.1	2.5	7.8	1.32	9	1.3	20.5	0.3	33.9	32.1
BLANK	0.20	985330	166	352	626	68	258	62	20.2	61.4	8.3	36.6	6	13.7	1.6	8.8	1.13	5.2	5.4	168	59.9
11-LAM-041	0.12	985313	107	153	374	46.4	196	35.1	8.19	25.6	3.7	21	4	10.7	1.36	7.8	1.04	18.2	12.1	58.1	9.4
11-MLD-007	0.04	985267	108	31.1	67.2	8.82	42.5	24.2	12	30.1	4.6	22.6	4	10.5	1.4	8.3	1.01	4.5	0.4	120	53.5
11-LAM-027	0.08	985289	49	134	294	28.8	99.1	15.6	1.11	10.9	1.6	8.7	1.7	5.5	0.88	6	0.98	21.7	16.3	78.1	17.1
11-DG-016	0.07	985317	70	120	241	22.3	79.7	14.5	4.54	13.1	2.4	14.9	2.7	7.3	1.04	6.5	0.96	2.5	1.2	57.2	4.6
11-LAM-014	0.08	985265	70	128	249	27.7	97.3	17.8	5.39	14.3	2.3	13.2	2.6	8.2	1.2	7.1	0.87	3.5	5.8	40.9	20.3
11-MLD-014	0.08	985309	54	139	287	28.5	114	24.9	9.04	19.9	2.5	13.1	2.1	5.4	0.76	5	0.77	3.7	0.6	68.1	3.9
11-DG-018	0.46	985332	33	1080	1880	189	601	55.1	10.4	30.4	1.8	6.4	1.3	4	0.62	4.5	0.77	3.9	2	132	10.2
11-LAM-025	0.08	985287	40	147	307	33.2	120	17.8	2.88	12.1	1.6	8.2	1.5	4.5	0.69	4.6	0.72	11.7	8.6	35.2	6.1

Sample Name	TREO (%)	ActLab Number	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	Th	U
11-WJH-022	0.04	985327	35	69.4	141	13.7	43.8	7.3	0.43	5.1	0.9	5.2	1.1	3.4	0.58	4.2	0.71	11.8	12.1	70.9	10.8
11-BCQ-0164	0.06	985319	50	86.6	186	21.4	82.7	14.5	4.22	12.4	2	10.6	2.1	5.3	0.72	4.6	0.68	5.4	4.8	20.4	6.4
11-SMT-002	0.06	985338	24	141	260	23.1	68.6	10.1	1.14	6.8	1	5.5	1	3.1	0.54	3.8	0.62	14.5	14.7	61.5	15.5
11-BCQ-0167	0.07	985326	50	129	256	27.9	103	17.2	4.55	12.4	1.8	9.8	1.8	4.8	0.64	4	0.6	3.1	4.3	34.2	23.3
11-WJH-011	0.06	985281	28	139	251	24.2	70.8	9.8	0.92	6.3	1	5.3	1.1	3.2	0.57	3.8	0.6	16.5	14.5	65.6	15.5
11-WJH-007	0.02	985268	51	10.2	26	3.98	20.7	8	3.25	9.8	1.8	9.5	1.8	5.1	0.67	4.1	0.57	2.6	0.6	35.3	4.1
11-LAM-035	0.02	985299	33	19.9	47.5	6.19	27.7	6.3	1.71	6.1	1	6	1.3	3.7	0.54	3.6	0.57	3.6	0.5	7.2	0.8
11-DTC-003	0.15	985404	50	328	608	60.3	189	20.7	6.39	13	1.9	10.1	1.8	4.6	0.61	3.6	0.53	4.9	1	71.9	9.1
11-MLD-012	0.05	985307	50	87.9	179	17.9	68.5	13.4	4.07	12	1.9	11	1.8	4.7	0.59	3.6	0.53	1.7	1.8	52.4	3.2
11-GMQ-009	0.05	985306	75	91.5	147	13.7	52	10	7.62	12.7	2.8	18.1	2.9	6.7	0.77	4.1	0.51	3.7	1.1	20.3	4.2
11-WJH-019	0.02	985296	40	22.1	47.4	5.23	22.5	5.2	1.73	5.2	1.1	7.7	1.4	4	0.54	3.3	0.5	2	0.4	5.9	1.5
11-DG-014	0.02	985297	23	19.1	47	4.94	19	4.4	0.95	3.7	0.7	4.2	0.8	2.2	0.35	2.8	0.5	5.2	13.1	27.5	3.6
11-LAM-043	0.02	985315	39	14	30.3	3.33	14.4	4.1	1.71	5.5	1.2	7.8	1.4	3.9	0.53	3.3	0.49	3.1	1.5	14.8	3.6
11-LAM-026	0.02	985288	28	13.4	35.4	4.88	23.8	5.7	1.92	5.5	0.9	5.4	1.1	3.2	0.45	2.9	0.46	3.3	0.4	3.1	0.2
11-LAM-006	0.01	985257	27	11.6	30.8	4.46	20.3	5.1	1.75	5.2	0.9	5.1	1.1	3.1	0.45	2.8	0.42	3.4	0.5	0.8	0.2
11-LAM-024	0.10	985286	35	194	381	38.6	146	22.9	6.33	14.9	1.9	8.8	1.4	3.5	0.46	2.7	0.41	3	1.9	28.1	4.9
11-DG-008	0.01	985254	22	10.2	26.9	3.84	17.5	4.5	1.41	4.5	0.8	4.2	0.9	2.5	0.37	2.3	0.35	2.5	0.4	0.6	0.1
11-LAM-016	0.07	985274	36	113	219	25.3	101	26.4	8.26	19.3	2.3	9.1	1.4	3.4	0.41	2.5	0.34	3.1	0.8	79.2	8.9
11-WJH-010	0.04	985279	31	48.6	118	16.4	68.3	13.3	3.07	9.1	1.2	6.1	1.1	3.1	0.42	2.4	0.34	3.2	0.7	8.1	1.5
11-LAM-007	0.01	985258	22	10.4	26.7	3.8	17	4.3	1.32	4.3	0.7	4.1	0.9	2.5	0.36	2.2	0.3	2.9	0.4	0.6	0.2

Sample Name	TREO (%)	ActLab Number	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	Th	U
						4											4				
11-LAM-034	0.03	985298	25	29	79.9	10.5	49.6	10	2.71	7.1	1	5.1	0.9	2.6	0.36	2.2	0.33	4.9	0.3	3	0.9
11-BCQ-0168	0.05	985329	28	81.6	168	18.8	70.9	11.1	2.92	7.1	1	5.1	0.9	2.5	0.34	2.1	0.33	4.8	0.6	22.7	6.8
11-DTC-002	0.01	985401	19	5.5	11.7	1.57	7.4	2.2	0.97	3.2	0.6	3.7	0.8	2.1	0.32	2.1	0.33	1.3	0.1	3.7	0.7
11-MLD-015	0.02	985312	24	23.6	60.3	6.01	25.3	7.6	2.2	8	1.3	6.6	1	2.4	0.31	2	0.33	3.5	0.5	30.3	3
11-WJH-008	0.01	985269	44	6.2	13.3	1.8	9	5.5	2.92	11.2	2	10.8	1.7	3.6	0.44	2.4	0.31	0.5	< 0.1	43.2	4.9
11-WJH-004	0.09	985263	39	148	302	35.8	135	23.6	6.33	16.3	2.1	9	1.4	3.6	0.43	2.4	0.31	5.6	11.4	34.7	9.7
11-DG-002	0.03	985251	23	49.4	105	13.4	55.6	13.8	3.94	9	1.1	4.9	0.8	2.4	0.34	2.3	0.31	1.9	0.6	32.5	6.1
11-LAM-037	0.02	985302	28	34.6	77	8.14	34	6.9	1.96	5.4	0.9	5.5	1	2.5	0.34	2	0.31	3.2	1.3	26.5	4.2
11-DG-020	0.01	985334	19	3.3	8.3	1.24	6.2	2.1	0.81	2.6	0.5	3.3	0.7	2.1	0.31	2	0.3	1.2	0.1	0.5	< 0.1
11-WJH-005	0.08	985264	31	136	279	32.7	124	20.6	5.34	13.7	1.7	7.3	1.2	3.1	0.37	2.2	0.29	7.2	10.3	15.5	10
11-LAM-017	0.02	985275	25	30.7	63.6	7.8	30.9	7.2	2.09	5.8	0.9	4.9	0.9	2.5	0.35	2.1	0.29	2.3	1.1	21.5	3.1
11-DG-019	0.04	985318	25	80.4	159	18.2	68.3	10.8	2.89	6.8	0.9	4.4	0.8	2.2	0.3	1.8	0.28	4.9	0.6	21.8	6.1
11-LAM-028	0.02	985291	24	33.4	68	6.98	25.2	5.2	1.68	5	0.8	4.6	0.9	2.4	0.33	1.9	0.27	2.2	0.7	27.1	2
11-DG-011	0.01	985256	18	9.9	22.7	3.01	12.6	3.1	1.11	3.3	0.6	3.3	0.7	2	0.29	1.8	0.27	3	0.5	1.2	0.3
11-DG-005	0.01	985253	18	10.2	23.4	3.09	13.1	3.3	1.07	3.3	0.5	3.2	0.7	1.9	0.28	1.8	0.26	2.8	0.4	1.5	0.3
11-WJH-021	0.03	985304	22	39.9	96.5	11.3	48.7	8.7	2.32	6.3	0.8	4.5	0.8	2.1	0.27	1.6	0.24	2	0.4	7.7	2.9
11-WJH-009	0.02	985271	14	32	69.5	8.68	34.3	6.8	1.72	4.6	0.6	3	0.6	1.6	0.23	1.5	0.22	3.1	0.5	12.8	2.5
11-WJH-013	0.02	985283	15	28.2	57.6	6.81	26.1	4.7	1.34	3.6	0.5	2.8	0.6	1.5	0.24	1.5	0.21	3.4	0.5	8.4	2.4
11-WJH-018	0.01	985295	19	8.5	19.8	2.19	9.7	2.8	1.07	3.7	0.7	4.3	0.7	1.8	0.24	1.4	0.21	0.5	< 0.1	11.2	1

Sample Name	TREO (%)	ActLab Number	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	Th	U
11-LAM-020	0.01	985278	19	4.5	12	1.57	6.9	2.3	0.84	2.7	0.5	3.1	0.6	1.7	0.24	1.5	0.2	2.2	0.6	11.3	4
11-BCQ-0170	0.04	985036	17	64	133	16.8	64.6	11	2.9	7.4	0.8	3.7	0.6	1.5	0.21	1.3	0.2	4.7	0.5	11.5	2.4
11-SMT-001	0.01	985339	15	17.4	36.7	4.58	18	3.6	1.26	3.2	0.5	3.2	0.6	1.5	0.22	1.4	0.19	1.7	0.3	11.8	2.3
11-DG-010	0.03	985255	13	62.7	121	13.2	45.3	5.8	1.25	3.3	0.4	2.4	0.5	1.5	0.22	1.3	0.19	4.9	0.8	21.7	6.3
11-MLD-004	0.03	985252	14	56.6	123	14.9	55.6	9.4	2.03	5.9	0.7	3.2	0.6	1.6	0.21	1.3	0.19	5.5	0.6	13.4	2.8
11-LAM-010	0.00	985259	10	2.3	6.2	0.96	4.9	1.5	1.04	1.8	0.4	2.2	0.5	1.4	0.2	1.2	0.18	1	< 0.1	0.5	0.3
11-LAM-012	0.03	985262	14	57.9	125	14.1	51.8	8.5	2.03	5	0.6	2.6	0.5	1.3	0.18	1.2	0.18	5.7	0.6	13.6	3
11-LAM-015	0.01	985273	16	3.2	8.9	1.31	6	2.3	0.94	2.8	0.5	2.9	0.5	1.3	0.17	1.1	0.15	3.8	0.4	17.9	3.8
11-WJH-012	0.02	985282	20	32	67.4	8.62	33.4	6.1	1.47	4.1	0.5	2.3	0.4	0.9	0.13	0.8	0.1	4.4	0.7	5.3	1.5
11-BCQ-0171	0.00	985045	3	6.5	12.3	1.39	5.1	0.9	0.22	0.6	0.05	0.5	0.05	0.2	0.025	0.2	0.02	0.2	< 0.1	1.1	0.2
11-GMQ-012	0.00	985331	2	3.1	6.3	0.67	2.5	0.4	0.12	0.3	0.05	0.2	0.05	0.1	0.025	0.1	0.02	< 0.2	< 0.1	1.5	1.8
BLANK	0.00	985340	1	1.8	3.4	0.35	1.4	0.3	0.09	0.3	0.05	0.2	0.05	0.05	0.025	0.05	0.02	< 0.2	< 0.1	0.5	0.5
BLANK	0.00	985310	1	1	1.2	0.13	0.5	0.1	0.025	0.1	0.05	0.1	0.05	0.05	0.025	0.05	0.02	< 0.2	< 0.1	0.3	1.5
BLANK	0.00	985280	1	0.3	0.8	0.11	0.4	0.1	0.025	0.1	0.05	0.1	0.05	0.05	0.025	0.05	0.02	< 0.2	< 0.1	0.3	0.9
BLANK	0.00	985270	1	0.2	0.5	0.08	0.4	0.1	0.025	0.1	0.05	0.1	0.05	0.05	0.025	0.05	0.02	< 0.2	< 0.1	0.3	0.9
BLANK	0.00	985320	5	0.7	1.5	0.18	0.6	0.1	0.025	0.1	0.05	0.05	0.05	0.05	0.025	0.05	0.02	< 0.2	< 0.1	0.2	1.2
BLANK	0.00	985300	3	1	1.4	0.13	0.6	0.1	0.025	0.1	0.05	0.05	0.05	0.05	0.025	0.05	0.02	< 0.2	< 0.1	0.2	1
BLANK	0.00	985260	1	0.2	0.6	0.08	0.3	0.1	0.025	0.1	0.05	0.05	0.05	0.05	0.025	0.05	0.02	< 0.2	< 0.1	< 0.1	1
BLANK	0.00	985290	1	0.8	1.1	0.11	0.5	0.1	0.025	0.05	0.05	0.05	0.05	0.05	0.025	0.05	0.02	< 0.2	< 0.1	0.2	1

Table 9. Assay results for selected elements from channel samples collected from trenches on the Deadhorse Creek property.

Sample Name	TRE O	ActLab Number	Au	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Th	U
TR-DHC-002-028	0.00	984630	5	1	0.7	1.6	0.41	0.9	0.05	0.025	0.05	0.05	0.05	0.05	0.05	0.025	0.05	0.02	<0.2	<0.1	0.4
TR-DHC-001-003A	0.24	985358	4	1123	59.7	109	14.4	68.3	32.7	17.9	70.8	23.5	196	39.9	111	16.7	106	16.4	330	4460	2070
TR-DHC-001-002D	0.20	985357	6	940	30.8	72	10.8	56	30.4	15.3	62.6	20	168	35.4	98.4	14.8	98.8	15.4	373	4160	1760
TR-DHC-001-002C	0.28	985356	7	1160	98.8	218	26.6	119	49.7	22.7	87.3	25.2	199	41.6	120	18.5	127	20.7	252	4130	2080
TR-DHC-001-006	0.08	985363	27	333	19.2	41.7	6.18	32.9	16	7.73	30.6	8.2	61.2	12.3	35.7	6.08	45.6	7.8	427	1530	1040
TR-DHC-001-001C	0.06	985353	4	296	10.5	18.6	2.76	14.4	7.2	3.54	14.3	5.3	46.7	10.8	33.9	5.76	41	6.58	238	1360	618
TR-DHC-001-014	0.78	985372	4	2161	677	1300	146	546	150	79.6	419	93.2	574	86.8	171	20	105	14.1	18.7	754	177
TR-DHC-002-004	0.63	984604	7	889	728	1550	196	807	247	99.4	320	53.8	233	34.4	73.1	8.26	43.7	5.46	55	743	145
TR-DHC-001-005A	0.07	985361	7	387	1.9	4.6	0.71	3.9	3	2.16	13.9	7.3	69.9	14.2	38.5	5.52	33.3	4.8	183	740	292
TR-DHC-002-003	0.47	984603	7	580	662	1370	163	616	121	39.5	120	21.9	120	21.3	53.9	7.41	42	5.93	3.1	565	210
TR-DHC-002-021	0.38	984622	7	454	578	1100	127	474	107	36.8	106	18.8	91.9	15.3	36.8	4.58	25.3	3.34	50.7	494	94.4
TR-DHC-002-011	0.42	984611	5	504	534	1200	150	605	143	48.8	144	24.1	111	18.3	44.1	5.56	32	4.37	3	413	168
TR-DHC-002-002	0.35	984602	9	461	456	946	115	457	116	41.5	127	21.7	107	17.7	41	5.25	27.5	3.63	38.7	382	70.7
TR-DHC-002-012	0.35	984612	5	355	520	1070	126	474	104	35.9	97.9	16.3	77.2	12.4	29.3	3.54	19.6	2.55	4.4	338	71
TR-DHC-002-018	0.38	984618	9	530	461	991	124	511	137	46.8	136	22.6	111	18.1	43.1	5.43	29.9	3.76	33.8	324	125
TR-DHC-002-008	0.25	984608	2	327	310	670	87.2	344	76.6	27.2	82.3	14.3	73.7	12.4	29.6	3.81	21.9	3.08	2.1	299	99.2
TR-DHC-001-013	0.18	985371	4	195	314	567	62.4	209	31.1	10	31.2	6.1	39	7.3	19.1	2.72	18.1	2.76	16.6	201	41.6
TR-DHC-001-012	0.09	985369	7	160	121	238	27.1	102	20.6	7.08	25.4	5.9	37.8	6.4	13.9	1.68	8.9	1.16	9.1	165	19.6

Sample Name	TRE O	ActLab Number	Au	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Th	U
TR-DHC-002-036	0.26	984639	7	230	454	837	94.7	343	63.1	19.1	57	9.6	51.3	8.8	22.3	2.82	15.1	2.03	4.9	148	71
TR-DHC-001-002B	0.02	985355	5	55	15.7	40.7	5.03	19.9	4.6	1.53	5.1	1.2	9.6	2	5.6	0.77	4.5	0.64	5.6	97	23.1
TR-DHC-002-037	0.18	984641	7	54	480	676	61.2	181	23	6.13	18.4	2.4	12.1	2.1	5.9	0.84	5.3	0.8	3.2	81.8	15.2
TR-DHC-003-016	0.12	985389	6	59	260	468	45.8	141	21.1	0.42	14.2	2.1	11	2.2	6.1	0.92	6.6	1.05	20.3	78.7	18
TR-DHC-002-007	0.21	984607	7	60	551	793	74.1	218	27.1	7.75	21.3	2.7	13.6	2.3	6.3	0.8	4.8	0.72	3.2	74.6	15.5
TR-DHC-002-017	0.11	984617	5	40	278	448	42.5	120	15.5	1.68	10.7	1.4	7.6	1.4	4.3	0.69	4.7	0.77	16.4	73.8	18.8
TR-DHC-002-034	0.12	984637	5	41	280	456	43.4	125	16.1	1.76	11	1.5	7.9	1.5	4.5	0.72	4.6	0.79	16.3	72.2	17.9
TR-DHC-002-009	0.04	984609	5	65	41.4	130	14.2	51.9	13.9	0.25	11	2	11.2	2.1	6.2	0.99	6.5	1	20.4	71.8	15.9
TR-DHC-002-038	0.12	984642	7	41	282	455	43.5	124	16.4	1.75	10.8	1.5	7.9	1.5	4.5	0.68	4.7	0.8	16.6	71	18.6
TR-DHC-002-031	0.11	984634	5	39	272	445	42.7	121	15.8	1.64	10.8	1.4	7.7	1.4	4.4	0.68	4.8	0.8	16.1	70.7	17.9
TR-DHC-002-035	0.11	984638	5	42	266	426	41.4	119	15.4	1.66	10.4	1.4	7.2	1.4	4.2	0.66	4.3	0.73	14.7	68.9	17.7
TR-DHC-001-011	0.08	985368	4	67	133	251	27.7	95.3	16.4	4.98	14.3	2.6	14.5	2.6	6.4	0.87	4.8	0.69	5.3	66.9	35.5
TR-DHC-002-023	0.10	984625	2	33	198	356	39.5	139	23.8	6.38	15.5	1.8	8.3	1.3	3.8	0.53	3.3	0.53	6.1	64.6	8.5
TR-DHC-002-005	0.07	984605	7	50	144	250	27.7	95.7	18.8	6.04	17.5	2.6	12.1	1.9	4.6	0.54	2.9	0.44	2.5	59.4	17.6
TR-DHC-001-001B	0.01	985352	< 1	48	7.1	17.7	2.23	9.9	2.9	1.02	4.1	1.1	8.9	1.9	5	0.68	4.2	0.6	2.8	58	9.9
TR-DHC-002-019	0.07	984619	5	36	103	231	31.1	125	22.3	5.56	14.3	1.8	8.5	1.4	3.7	0.48	3	0.46	4.2	54.5	6.2
TR-DHC-001-004A	0.02	985359	5	54	5.9	15.8	2.43	12.9	5.9	2.2	8	1.5	9.4	1.9	4.9	0.67	4.3	0.65	3.2	46.6	38.4
TR-DHC-002-028	0.07	984631	9	31	145	254	27.4	93.2	14.9	3.96	11	1.3	6	1	3	0.42	2.7	0.46	2.4	43.6	9.8
TR-DHC-003-014	0.05	985388	6	37	77.7	152	16.9	64.4	12	3.53	9.5	1.4	7.4	1.4	3.5	0.53	3.5	0.53	3.1	35.6	4.1

Sample Name	TRE O	ActLab Number	Au	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Th	U
TR-DHC-003-014	0.05	985387	8	39	74.9	149	16.9	67.4	14.3	4.3	10.5	1.4	7.3	1.4	3.7	0.52	3.5	0.56	2.7	34.6	5.3
TR-DHC-002-029	0.04	984632	2	75	47.8	97.7	12.1	45.9	10.1	3.15	10.7	2.1	13.8	2.8	7.4	1.05	5.8	0.83	5.1	32	3.4
TR-DHC-001-001A	0.01	985351	5	34	5.4	13.4	1.74	8.3	3.2	1.14	4.1	0.9	5.6	1.1	3.2	0.47	3	0.44	1.5	31.4	13.5
TR-DHC-002-021	0.04	984621	7	22	49.6	129	19	79	13.6	3.33	8.1	1	5	0.8	2.3	0.32	2.2	0.34	3.4	30.3	3.8
TR-DHC-002-006	0.04	984606	5	27	48.7	109	15	65	13.8	4.05	10	1.3	6.6	1.1	2.9	0.39	2.5	0.39	2.8	28.4	3.4
TR-DHC-003-013	0.04	985386	<1	28	69.2	134	14.6	54.4	9.7	2.84	7.7	1.1	5.9	1.1	2.9	0.39	2.5	0.39	3.1	24.6	3.6
TR-DHC-001-014	0.05	985373	9	29	85.4	171	18.8	69.9	12.4	3.66	10.2	1.3	6	1.1	2.9	0.37	2.3	0.37	4.1	24.5	4.4
TR-DHC-003-005	0.02	985377	7	32	31	62.8	7.16	27.4	5.7	1.91	6	1.1	5.8	1.1	2.8	0.38	2.4	0.37	2.8	23.6	2.7
TR-DHC-001-002A	0.01	985354	7	17	10	25.1	3.06	12.2	2.6	0.77	2.3	0.4	2.9	0.6	1.7	0.27	1.8	0.28	3.1	21.1	9.6
TR-DHC-003-011	0.02	985384	6	18	36	74.5	8.94	36	6.5	1.85	4.8	0.6	3.3	0.6	1.6	0.23	1.6	0.27	2.7	19.2	3.9
TR-DHC-002-015	0.02	984615	7	18	31.5	63.9	7.81	30.9	7.3	1.96	5.3	0.8	4	0.7	2	0.29	1.9	0.32	2.7	19	3.6
TR-DHC-002-026	0.03	984628	11	20	45.7	94.4	11.5	43.8	7.9	2.22	6.1	0.9	4.5	0.8	2.3	0.31	2	0.33	3	19	6.7
TR-DHC-001-014	0.02	985375	4	17	36.7	70.8	7.56	28.6	5.6	1.78	5	0.7	3.3	0.6	1.6	0.21	1.5	0.24	2.8	17.5	2.8
TR-DHC-001-010	0.03	985367	4	19	47.5	92.4	10.3	36.2	5.3	1.5	3.9	0.6	3.5	0.7	1.9	0.29	1.9	0.29	4.2	17.2	7.1
TR-DHC-003-012	0.02	985385	4	16	31.4	63.4	7.24	28.4	5.6	1.61	4.2	0.6	2.9	0.6	1.6	0.23	1.5	0.25	2.5	16.9	3.3
TR-DHC-001-009	0.02	985366	6	17	33	67.2	6.92	20.7	2.2	0.61	1.8	0.3	2.4	0.6	2	0.34	2.3	0.37	5.4	16.8	9.4
TR-DHC-002-030	0.03	984633	2	20	54.7	109	12.8	47.2	8.1	2.29	6	0.9	4.5	0.8	2	0.3	1.9	0.3	2.9	16.7	6.2
TR-DHC-002-016	0.02	984616	7	15	41.6	79	9.33	34.8	7.6	2.02	4.9	0.6	3.2	0.6	1.6	0.24	1.6	0.26	2.9	16.5	3.9
TR-DHC-001-014	0.02	985374	11	18	29.3	59.5	6.83	27.1	5.6	1.75	4.8	0.7	3.4	0.6	1.8	0.24	1.6	0.25	2.4	15	2.2

Sample Name	TRE O	ActLab Number	Au	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Th	U
TR-DHC-002-032	0.02	984635	5	25	32.8	69.4	8.54	32.3	5.8	1.62	4.6	0.8	4.6	0.9	2.6	0.4	2.3	0.36	2.7	15	4.3
TR-DHC-001-008	0.02	985365	4	18	33.2	65.5	7.46	27.2	4.9	1.39	3.8	0.6	3.5	0.7	1.9	0.27	1.7	0.25	3	14.6	4.9
TR-DHC-002-021	0.02	984623	5	20	35.5	73.4	8.97	33.6	6.1	1.53	4.8	0.7	4.4	0.8	2.3	0.32	2.1	0.36	3.5	13.6	4
TR-DHC-002-014	0.02	984614	9	19	30.9	64.1	7.84	31.7	7.1	2.04	5.6	0.8	4.1	0.8	2.1	0.3	1.9	0.31	2.7	13.5	2.6
TR-DHC-002-041	0.03	984645	6	39	36.4	79.3	8.59	35.2	7.3	2.13	6.4	1.2	7.7	1.4	4	0.59	3.7	0.63	3.8	13	1.4
TR-DHC-002-013	0.07	984613	5	32	110	229	29.5	112	19.2	5.16	13.6	1.7	7.8	1.3	3.5	0.42	2.7	0.41	5.1	12.7	3.7
TR-DHC-002-024	0.02	984626	7	16	21.7	45.5	5.74	21.6	4.3	1.27	3.5	0.6	3.3	0.6	1.8	0.26	1.6	0.27	2	12.5	4.8
TR-DHC-002-033	0.02	984636	11	19	25.7	54.3	6.41	23.9	4.7	1.38	4.2	0.6	3.7	0.7	2	0.29	1.8	0.29	2.8	12.5	4.8
TR-DHC-002-040	0.06	984644	7	33	109	232	25.2	94.4	15.1	4.34	11.7	1.4	7.3	1.3	3.5	0.49	3.2	0.54	5.5	12.4	4.3
TR-DHC-003-009	0.02	985382	6	15	30.3	59.4	6.62	25.8	4.7	1.34	3.8	0.5	2.8	0.5	1.5	0.2	1.4	0.23	3.1	11.2	3.3
TR-DHC-003-010	0.02	985383	4	12	25.5	50.5	5.59	21	3.5	1.1	3.2	0.5	2.4	0.5	1.3	0.18	1.2	0.19	2.7	11	3.2
TR-DHC-002-027	0.02	984629	<1	17	28	56.2	6.75	25.2	4.5	1.35	3.7	0.6	3.3	0.6	1.8	0.27	1.7	0.3	2.6	10.8	4.5
TR-DHC-001-005B	0.01	985362	5	18	8.1	20.4	2.65	10.7	2.4	0.83	2.5	0.5	3	0.6	1.8	0.26	1.7	0.26	2.7	10.7	6.1
TR-DHC-001-014	0.02	985376	7	19	25.6	53.1	6.08	23.7	4.9	1.46	4.3	0.7	3.6	0.7	1.8	0.24	1.6	0.25	2.7	10.5	1.5
TR-DHC-001-007	0.01	985364	11	8	22.3	45.2	5.01	17.1	2.6	0.66	2	0.3	1.5	0.3	0.8	0.14	1	0.16	4.1	9.7	4.5
TR-DHC-002-022	0.02	984624	5	17	30.2	60.4	7.26	27.5	5	1.49	4.2	0.6	3.6	0.7	2.1	0.32	2.1	0.33	3.5	9.5	2.6
TR-DHC-003-009	0.02	985381	4	13	30.5	58.6	6.46	23.2	4.1	1.12	3.4	0.5	2.4	0.5	1.3	0.18	1.3	0.21	2.9	9	1.8
TR-DHC-003-006	0.02	985378	7	15	32.4	61.7	6.83	25.7	4.3	1.15	3.4	0.5	2.5	0.5	1.4	0.19	1.3	0.21	3.1	8.9	2
TR-DHC-002-001	0.02	984601	5	15	34.4	72.2	8.81	33.3	5.7	1.48	4.1	0.5	3	0.6	1.6	0.24	1.5	0.26	3.3	8.6	2.2

Sample Name	TRE O	ActLab Number	Au	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Th	U
TR-DHC-002-025	0.02	984627	2	13	39	72.2	8.08	28.5	4.6	1.18	3.3	0.5	2.8	0.5	1.6	0.23	1.5	0.24	3	7.2	2.3
TR-DHC-003-007	0.03	985379	4	18	49	102	11.8	45.9	7.5	2.01	5.7	0.8	3.9	0.7	2	0.27	1.8	0.29	3	6.9	1.2
TR-DHC-002-039	0.01	984643	5	34	11.7	26.7	3.69	16	4.2	1.53	5.1	1.1	6.6	1.2	3.3	0.51	3.1	0.5	3	6.6	1.7
BLANK	0.00	985360	3	10	1.9	3.9	0.48	2	0.6	0.32	1.7	0.4	2.1	0.3	0.6	0.07	0.4	0.04	0.4	5.4	1.5
BLANK	0.00	985370	4	7	1.4	2.7	0.32	1.3	0.3	0.16	0.8	0.2	1	0.2	0.3	0.025	0.2	0.02	0.3	2.3	0.9
TR-DHC-002-010	0.00	984610	3	1	0.8	1.9	0.23	1	0.3	0.07	0.2	0.05	0.2	0.05	0.1	0.025	0.05	0.02	<0.2	0.4	0.7
BLANK	0.00	984640	5	3	1	1.6	0.29	1.2	0.5	0.06	0.5	0.05	0.6	0.1	0.3	0.025	0.3	0.04	<0.2	0.2	0.9
TR-DHC-002-020	0.00	984620	13	1	0.6	1.5	0.18	0.7	0.2	0.06	0.2	0.05	0.1	0.05	0.05	0.025	0.05	0.02	<0.2	0.2	0.8
BLANK	0.00	985380	4	1	0.05	0.05	0.025	0.05	0.05	0.025	0.05	0.05	0.05	0.05	0.05	0.025	0.05	0.02	<0.2	0.1	0.6

15 References

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Walker, J.W.R., 1967, *Geology of the Jackfish-Middleton Area*, District of Thunder Bay, Ontario Department of Mines, Geological Report 50.

16 Appendices**16.1 Assay Results****16.2 Prospecting maps****16.3 Geological map of the property****16.4 Radiometric maps****16.5 Spectrometer raw data****16.6 Trench maps****16.7 Expenses**

Item	Amount
Accommodation	\$119.00
Courier/Postage	\$903.85
Food	\$4,371.79
Fuel	\$1,969.22
Supplies	\$5,429.80
Transportation	\$10,749.60
Transportation - on project	\$2,876.59
Spectrometer Rental	\$6,950.00
<i>Subtotal 1</i>	<i>\$33,369.85</i>
Prospecting	\$39,337.04
Physical	\$20,105.60
Geophysical	\$27,973.00
Report	\$4,456.25
<i>Subtotal 2</i>	<i>\$91,871.89</i>
Grand Total	\$125,241.74

Claim number	Expiry date	Work required	Claim units	Ownership	Township	Area (hectares)	Prospecting	Amount prospecting	Physical	Amount Physical	Geophysical	Amount Geophysical
4240456	2012-Dec-11	4800	12	Canadian international minerals (100%)	Walsh	192	60.00%	\$20,362.55	100.00%	\$17,345.88	40.00%	\$9,653.36
4247747	2012-Jun-17	5200	13	Canadian international minerals (100%)	Walsh	208	10.00%	\$3,393.76		\$0.00	30.00%	\$7,240.02
4247748	2012-jun-17	3200	8	Canadian international minerals (100%)	Walsh	128	5.00%	\$1,696.88		\$0.00	10.00%	\$2,413.34
4250344	2012-jun-17	2400	6	Canadian international minerals (100%)	Walsh	96		\$0.00		\$0.00		\$0.00
4250345	2012-Jun-17	3600	9	Canadian international minerals (100%)	Walsh	144		\$0.00		\$0.00		\$0.00
4250501	2012-Sep-18	3200	8	Canadian international minerals (100%)	Walsh	128	10.00%	\$3,393.76		\$0.00	20.00%	\$4,826.68
4250502	2012-Sep-19	6400	16	Canadian international minerals (100%)	Walsh	256	5.00%	\$1,696.88		\$0.00		\$0.00

Claim number	Expiry date	Work required	Claim units	Ownership	Township	Area (hectares)	Prospecting	Amount prospecting	Physical	Amount Physical	Geophysical	Amount Geophysical
4250503	2012-Sep-18	1200	3	Canadian international minerals (100%)	Walsh	48	10.00%	\$3,393.76		\$0.00		\$0.00
4260684	2012-Dec-24	6400	16	Canadian international minerals (100%)	Walsh	256		\$0.00		\$0.00		\$0.00
4260685	2012-Dec-25	6400	16	Canadian international minerals (100%)	Walsh	256		\$0.00		\$0.00		\$0.00
4260686	2012-Dec-26	6400	16	Canadian international minerals (100%)	Grain	256		\$0.00		\$0.00		\$0.00
4260687	2012-Dec-27	6400	16	Canadian international minerals (100%)	Walsh	256		\$0.00		\$0.00		\$0.00
4260688	2012-Dec-28	6400	16	Canadian international minerals (100%)	Walsh	256		\$0.00		\$0.00		\$0.00
4260689	2012-Dec-29	6400	16	Canadian international minerals (100%)	Grain	256		\$0.00		\$0.00		\$0.00

Claim number	Expiry date	Work required	Claim units	Ownership	Township	Area (hectares)	Prospecting	Amount prospecting	Physical	Amount Physical	Geophysical	Amount Geophysical
4260690	2012-Dec-23	6400	16	Canadian international minerals (100%)	Grain	256		\$0.00		\$0.00		\$0.00
4260691	2012-Dec-23	3200	8	Canadian international minerals (100%)	Walsh	128		\$0.00		\$0.00		\$0.00
							100.00%	33,937.58	100.00%	17,345.88	100.00%	24,133.39

16.8 People

Person	Qualifications	Hourly Rate
Beverly Quist	M.Sc. (Geology) B.Sc. (Geology)	\$62.50
Mallory Dalsin	M.Sc. (Geology) (in Progress) B.Sc. (Geology)	\$56.25
Luke Marshall	B.Sc. (Geology)	\$50
Avee Ya'acoby	B.Sc. (Geology)	\$50
Geoffry Quist	B.Eng. (in progress)	\$37.50
Shaun Todd	B.Sc. (Geology) (in progress)	\$37.50
Dasha Gritsaenko	B.Sc. (Geology) (in progress)	\$37.50
Wes Harman	B.Sc. (in progress)	\$28.13
David Cameron	B.A (in progress)	\$28.13
Steve Vachon	High School diploma	\$28.13

This report was completed on October 31st, 2011

A handwritten signature in black ink, consisting of a stylized 'B' followed by a long, sweeping horizontal stroke that tapers to the right.

Beverly Quist