DISCLAIMER

By accessing and using the Alberta Energy website to download or otherwise obtain a scanned mineral assessment report, you ("User") agree to be bound by the following terms and conditions:

a) Each scanned mineral assessment report that is downloaded or otherwise obtained from Alberta Energy is provided "AS IS", with no warranties or representations of any kind whatsoever from Her Majesty the Queen in Right of Alberta, as represented by the Minister of Energy ("Minister"), expressed or implied, including, but not limited to, no warranties or other representations from the Minister, regarding the content, accuracy, reliability, use or results from the use of or the integrity, completeness, quality or legibility of each such scanned mineral assessment report;

b) To the fullest extent permitted by applicable laws, the Minister hereby expressly disclaims, and is released from, liability and responsibility for all warranties and conditions, expressed or implied, in relation to each scanned mineral assessment report shown or displayed on the Alberta Energy website including but not limited to warranties as to the satisfactory quality of or the fitness of the scanned mineral assessment report for a particular purpose and warranties as to the non-infringement or other non-violation of the proprietary rights held by any third party in respect of the scanned mineral assessment report;

c) To the fullest extent permitted by applicable law, the Minister, and the Minister's employees and agents, exclude and disclaim liability to the User for losses and damages of whatsoever nature and howsoever arising including, without limitation, any direct, indirect, special, consequential, punitive or incidental damages, loss of use, loss of data, loss caused by a virus, loss of income or profit, claims of third parties, even if Alberta Energy have been advised of the possibility of such damages or losses, arising out of or in connection with the use of the Alberta Energy website, including the accessing or downloading of the scanned mineral assessment report and the use for any purpose of the scanned mineral assessment report so downloaded or retrieved.

d) User agrees to indemnify and hold harmless the Minister, and the Minister's employees and agents against and from any and all third party claims, losses, liabilities, demands, actions or proceedings related to the downloading, distribution, transmissions, storage, redistribution, reproduction or exploitation of each scanned mineral assessment report obtained by the User from Alberta Energy.

Assessment Report "Part B" and "Part C"
for the
Buffalo Hills Property

NTS: 084B/11, /12, /13, /14, /15, 84C/16, 84F/01, /08, 84G/02, /03, /04, /05, /06

9305031076, 9305031077
9305031094 - 9305031096
9305031099
9305031101 - 9305031104
9395031108
9307010928 - 9307010935
9396060049, 9396060050
9396060058

Report submitted to:
Department of Energy, Coal and Mineral Development Branch
7th Floor Petroleum Plaza
North Tower 9945 – 108th Street
Edmonton, Alberta
T5K 2G6

prepared by:
Canterra Minerals Corp.
P.O. Box 11584
1410-650 West Georgia Street
Vancouver, BC
V6B 4N8

David Ritcey, Project Geologist

Assessment Report Date: August 16, 2010

Confidential Until: August 16, 2011

ABSTRACT

The Buffalo Hills Joint Venture ("BHJV"), with Canterra Minerals Corp. ("Canterra") as operator, is exploring for diamonds and evaluating diamond-bearing kimberlites in the Buffalo Head Hills and Loon River Lowlands of Alberta. From January 1st 2009 to March 11th 2010, Diamondex carried out an ongoing program of core drilling on Metallic and Industrial Mineral Permits ("MIMPs") on the Buffalo Hills Property. This assessment report documents and describes the work performed, and is submitted to meet requirements outlined in section 8(1) of the Metallic and Industrial Mineral Regulations.

During the term covered by this report, drilling was conducted at the K6 kimberlite on MIMP 9396060049, at the K5 kimberlite on MIMP 9396060050, and at the K91 kimberlite on MIMP 9396060058.

Company:	Diamondex Resources Ltd.
MIMPs:	9305031076 & 9305031077, 9305031094 to 9305031096, 9305031099, 9305031101 to 9305031104, 9305031108, 9307010928 to 9307010935, 9396060049 & 9396060050, 9396060058
Assessment Period:	January 01, 2009 to March 11, 2010
Location:	North Central Alberta
NTS:	84B11, 84B12, 84B13, 84B14, 84B15, 84C16, 84F01, 84F08, 84G02, 84G03, 84G04, 84G05, 84G06
Legal Location:	TWP 88 to TWP95, RGE07 to RGE14, W5M
Commodity Sought:	Diamonds

PART B – TECHNICAL REPORT

0.1 TABLE OF CONTENTS

0.2 LIST OF FIGURES

0.3 LIST OF TABLE

PART C – APPENDICES

Appendix A	• Drill Access Route Map (oversize map)
Appendix B	• Drill Logs (37 pages)
Appendix C	• Exploration Permit Location Map (oversize map)

MINERAL ASSESSMENT
EXPENDITURE BREAKDOWN BY TYPE OF WORK

☐ **Estimated Expenditure** (submitting with **Statement of Intent to File**)

☒ **Actual Expenditure** (**for Part B of Report**; Must match total filed in Part A)

Project Name: Buffalo Hills

	AMOUNT
1. Prospecting	$
2. Geological Mapping & Petrography	$
3. Geophysical Surveys	
a. Airborne	$
b. Ground	$
4. Geochemical Surveys	$
5. Trenching and Stripping	$
6. Drilling	$ **842,171.19**
7. Assaying & whole rock analysis	$
8. Other Work: Diamond Determination	$
SUBTOTAL	$ **842,171.19**
9. Administration (up to 10% of subtotal)	$ **84,217.12**
TOTAL	$ **926,388.31**

David Ritcey
SUBMITTED BY (Print Name)

August 12, 2010
DATE

1.0 Introduction

This report presents work done from January 2009 to March 2010 on Metallic and Industrial Mineral Permits (MIMPs) of the Buffalo Hills Property, which is applied to meet assessment requirements as set out in Section 8(1) of Metallic and Industrial Mineral Tenure regulations. During this reporting period, Canterra Minerals Corp. (as registered holder of the MIMPs and operator of the Buffalo Hills Joint Venture), carried out exploration programs of core drilling and related work. Work was conducted on 3 separate MIMPs, and assessment will be applied to 16 MIMPs having a total area of 91,896 hectares. On the basis of this assessment filing, and with 24 MIMPs reaching their final terms in 2010, Canterra will retain 310,392 hectares in 47 MIMPs in the Buffalo Hills Property after MIMP 939608086 expires in August 2010.

Core drilling was carried out on a modified grid pattern over parts of the previously known K6, K5 and K91 kimberlites in order to delineate the shapes and internal structure of these kimberlites, and to provide material for geological study and testing. Delineation drilling of is major step in assessing which kimberlites in the project area warrant further advanced work such as bulk sampling or test mining.

This report is laid out in six primary sections. Following this introduction, sections 2 through 4 include contextual information on the property while specific exploration work is described in section 5. Conclusions based upon the work presented here are outlined in section 6. Appendices A, B, and C provide specific details of the exploration work.

2.0 Property Description and Access

As of the end of the current work program (March 2010), the Buffalo Hills Property consisted of 71 MIMPs in north-central Alberta, centered 55 kilometers north-northwest of the hamlet of Red Earth Creek, or approximately 400 kilometers north-northwest of Edmonton (Figure 1). The largest block of 69 MIMPs is contiguous and covers 376,312 Ha, while MIMPs 9396060035 (1792 Ha) and 9396060036 (1024 Ha) are each geographically isolated. The exploration permit location map in "Part A" of this report shows permit boundaries and numbers as of March 2010, and identifies those permits on which work was performed during the term covered by this report. All exploration work within the reporting period was carried out on the main contiguous block of permits.

MIMPs of the Buffalo Hills Property are located on 1:250,000 NTS map sheets 84B, 84C, 84F, and 84G. The legal locations are townships 88 to 95, range 7 to 14, west of the 5th meridian.

Field operations for drilling were conducted out of the hamlet of Red Earth Creek and from the temporary camp established on leased Crown Land in the south-central portion of the Buffalo Hills Property. Access from camp to drill sites was by truck on all-weather and winter roads along pre-existing cut lines.

3.0 PHYSIOGRAPHY

The property is located within the boreal forest of the Peace River drainage system, and extends across a marked change in relief from the Buffalo Head Hills in the western part of the property to the Loon River lowlands to the east. The Buffalo Head Hills have a maximum elevation of about 800 metres above sea level and are largely forested, whereas the lowlands extend down to 487 metres elevation and are characterized by interspersed tracts of muskeg, swamp, and forest. Broadly, drainage is radial away from the west-central portion of the property. Loon River flows southward off the south-central part of the property, then turns northward across the eastern permits to the Wabasca River, which intersects the northeastern corner of the property. Sawn Lake (1200 Ha), Haig Lake (870 Ha), and Bison Lake (3300 Ha) are significant hydrographic features of the western half of the property, and all drain westward to Peace River.

4.0 PROPERTY GEOLOGY

4.1 Surficial Geology

The most recent glaciation in the permit area occurred during the Wisconsin retreat of the Laurentian ice sheet. Several distinct types of surficial deposits underlie the property: Fine-grained glaciolacustrine sediments of clay and silt dominate the Loon River lowlands on the eastern half of the property, whereas a till blanket of variable thickness dominates the western half (Figure 2). Although limited in extent, esker sand and gravel and related sediments are present in several localities, and extensive post-glacial organic deposits underlie significant portions of the property. Generally, the thickest deposits are those of glaciolacustrine origin, which extend to greater than 150 metres depth. Till ranges from 0 to 150 metres depth over the northwestern half of the property. Broadly, ice flow in north-central Alberta was southwestward, but within the Buffalo Hills area there are indications that the latest Late Wisconsin ice flowed southward (Paulen et al 2003).

4.2 Bedrock Geology

Three Cretaceous sedimentary units underlie the Buffalo Hills Property. Stratigraphically upward, they are the Lower Cretaceous Peace River and Loon River formations, Middle Cretaceous Shaftesbury Formation, Upper Cretaceous Dunvegan Formation, and Upper Cretaceous Smokey Group (Figure 3). Minor outcrop areas of the marine sandy Peace River Formation and shaly Loon River Formation are restricted to the valley of the Wabasca River in the northern portion of the Buffalo Hills area. The Shaftesbury Formation is interpreted as a foredeep clastic wedge of marine and non-marine origin, and consists of deltaic fine-grained quartzose sandstone, dark grey fossiliferous silty shale, and laminated sandstone. The overlying Dunvegan Formation is made up of marine, deltaic, and fluvial conglomerate, sandstone, siltstone and shale. Facies of the Dunvegan Formation pass southeastward into those of the more fully marine Shaftesbury Formation (Bhattacharya and Walker, 1991). Smoky Group marine shales make up the capping bedrock of the Buffalo Head Hills, and also occur on relatively high land on the southeastern corner of the property, east of the Loon River basin. Shales and mudstones of the Dunvegan Formation and Smoky Group host the kimberlites that were the

subjects of work described in this report. Total thickness of Cretaceous strata in the Buffalo Hills property area is about 1600 metres. Intrusive and volcanic kimberlites in the Buffalo Hills property area are Mid-Late Cretaceous in age (Skelton et al., 2003).

Cretaceous sedimentary units unconformably overlie Paleozoic sequences in the property area. Paleozoic rocks are not exposed at surface, but are known from oil and gas wells and are variably represented as xenoliths in kimberlite. In turn, the Paleozoic sedimentary units are underlain by igneous and metamorphic Precambrian rocks. Thick Precambrian crust is responsible for the diamond potential of parts of Alberta (e.g Dufresne et al., 2009).

4.3 Basement Geology and Structure

Much of the Precambrian basement beneath the Western Canada Sedimentary Basin in northern Alberta is made up of granulite terranes with major batholitic complexes (Pană, 2003). The Buffalo Head terrain, which possibly represents an early Proterozoic continental fragment, 2.0 to 2.3 billion years in age (Pană, 2003, and references therein), comprises basement beneath the Buffalo Hills property (Figure 4).

The northeast-trending, Late Paleozoic to Devonian Peace River Arch is the most significant regional basement structure in north-central Alberta (Figure 4). The arch has a well-documented complex history of uplift and subsidence (e.g. Cant, 1998), with vertical movements totaling several hundred metres having significant influence on Paleozoic depositional patterns. Conjugate northeast and northwest-trending faults control the basement topography and sedimentation patterns over the arch (Cant, 1988; Richards et al., 1994) and may have been influential in localizing kimberlites in the Buffalo Head Hills region. Eccles et al. (2002) propose fault systems extending from Precambrian basement to surface as the controlling features of kimberlite distribution.

5.0 Exploration Work

In January and February 2009, and from January to March 2010, Canterra Minerals Corp. (and its predecessor Diamondex Resources Ltd.) and contractors conducted site preparation and core drilling on Metallic and Industrial Minerals Permits in the Buffalo Hills property. Part "A" (Administrative Documents) of this report contains a Statement of Expenditures, Schedule of Permits, Expenditure Allocation Table, Permit Location Map, and Authorization to Copy or Reproduce reports.

5.1 Site Work January-February 2009

During the 2009 winter field season, work was limited to preparation for drilling at K6, K14, and K91, and completion of work at K6 from the 2008 summer season. Although initial work on access routes began on December 28th 2008, work prior to January 1st 2009 is not covered by

this report and the reporting period for the previous assessment report (Ritcey, 2009) extended to December 31st 2008. The truck-mounted drill rig stored at K6 after completion of drilling in July 2008 was complete de-mobilized and removed by January 6th, 2009. Work resumed on February 9th, 2009 with removal of auxiliary equipment from K6, drill site remediation at K6, K252 and K14, timber salvage (with no revenue generated) from K14 and K91, and drill site leveling and preparation at K91. Removal of machinery and equipment (including bulk fuel tank), and site reclamation would ordinarily have been carried out as part of the two drill programs in 2008, but this was not possible under spring breakup and summer conditions. This work was supported out of Red Earth Creek, and was completed by February 28, 2009.

5.2 Core Drilling January-March 2010

During the 2010 winter program, 13 drill (core) holes were completed at kimberlites K6, K5, and K91 on sites prepared in 2008 and 2009. Work was supported from the temporary field camp in the south-central portion of the Buffalo Hills Property, and access to the drill sites was by 4-wheel drive vehicles, along existing "all-weather" oilfield roads and winter roads on pre-existing cleared routes. Drill access routes and work areas are shown on the oversized map in Appendix A.

Construction of the temporary 12-person field camp was started on January 26th, 2010. Drill equipment was mobilized to K6 on January 30th and 31st, and drilling operations commenced on February 1st, 2010. Drilling was terminated on March 6th 2010, followed by demobilization of crew and equipment, and removal of temporary camp facilities.

Gateway Drilling Ltd. of Edmonton Alberta was contracted to carry out the drilling, employing a skid-mounted Atlas-Copco CS1000 P4 wireline coring rig. Supply water for the drill was pumped from local streams, and spent drilling mud was directed to sumps prepared at each drill site. Drill water for K5 was hauled by tanker truck from the stream immediately south of K6. The drill rig was moved between sites by either a D-5 Caterpillar or Case 850 bulldozer.

Ten-foot HQ-size drill rods and core barrel were used, yielding 63.5 mm diameter core. Steel casing (nominally 122 mm outside diameter) was set to the depth of overburden, and was successfully retrieved from each hole. A length of 3.5 inch PVC pipe (nominally 101 mm outside diameter) was placed in each hole as a permanent marker.

After completion, collar locations were measured with a handheld Garmin GPS60 using time-averaging to give Eastings and Northings that are considered accurate within approximately 5 metres. Geotechnical and geological core logs were prepared by Canterra personnel at the field camp, and core was securely boxed, palletized, and shipped to the core logging facility of Shore Gold Inc. in Saskatoon for further study. Collar coordinates and drillhole statistics are compiled in Table 1, and hole locations are shown on the maps in Figure 5, 6, and 7. Core logs are compiled in Appendix B.

At K6 (on MIMP 9396960049), two vertical holes were drilled to test the southern portion of the kimberlite (Figure 5), which was not drilled in the summer program of 2008 (Ritcey, 2009) due to wet ground conditions. Drillholes K6-10-01 and K6-10-02 successfully intersected significant

lengths of kimberlite, and terminated in sedimentary rocks. In each hole, an interval of coarse kimberlite breccia was encountered, which from field observations is highly prospective for good diamond grades.

At K5 (on MIMP 9396960050), five holes were completed at four sites initially laid out in 2008 (Ritcey et al., 2008on K5) to give more complete spatial coverage than was available from pre-existing drilling (Figure 6). Holes K5-10-01 and -03 were drilled at steep angles to the east, to test portions of the kimberlite that, because of steep topography, were not otherwise accessible by the standard approach of drilling vertical holes on a grid pattern. Hole K5-10-02a was a relatively short test to identify the top of kimberlite which was unintentionally drilled though without being cored in K5-10-02. All holes at K5 intersected kimberlite, generally dominated by volcaniclastic types, and all except the special case of K5-10-02a ended in sedimentary rocks, providing a more complete definition of the total kimberlite volume at K5.

At K91 (on MIMP 9396960058), six vertical holes were drilled on a modified grid pattern (Figure 7) on sites initially laid out in 2008 (Ritcey et al., 2008). The first 3 holes (K91-10-01, -02, and -03) drilled along the west side of the drill grid intersected relatively short sections of kimberlite before terminating in sedimentary units, and the fourth hole (K6-10-04) at the southwest limit of grid drilling did not encounter kimberlite. Collectively, these four holes substantially constrain the western limit of kimberlite K91 body. The final two tests, K91-10-05 and -06 in the northern portion of the body intersected long intervals of garnet-rich kimberlite, which from field observations are prospective for good diamond grades.

Table 1. Drillhole Summary

Hole ID	UTM Location (NAD27, Zone 11)		Date Start	Date Finish	Orientation		Total Depth (m)	Top of Core Interval	Cored length (m)
	Easting	Northing			Azimuth	Dip			
K6-10-01	585498	6308324	1-Feb-10	6-Feb-10	n/a	-90	197.2	65.5	131.7
K6-10-02	585583	6308323	7-Feb-10	12-Feb-10	n/a	-90	148.4	82.3	66.1
K5-10-01	582499	6306219	12-Feb-10	16-Feb-10	090	-65	157.6	6.1	151.5
K5-10-02	582456	6306090	16-Feb-10	18-Feb-10	n/a	-90	122.8	42.7	80.2
K5-10-02a	582456	6306090	18-Feb-10	18-Feb-10	120	-80	20.4	10.7	9.8
K5-10-03	582466	6305950	19-Feb-10	21-Feb-10	090	-65	145.4	17.0	128.4
K5-10-04	582350	6305861	21-Feb-10	23-Feb-10	n/a	-90	151.5	33.5	118.0
K91-10-01	581806	6317105	24-Feb-10	25-Feb-10	n/a	-90	81.4	21.3	60.1
K91-10-02	581800	6316997	25-Feb-10	27-Feb-10	n/a	-90	75.3	9.1	66.2
K91-10-03	581800	6316896	27-Feb-10	28-Feb-10	n/a	-90	65.5	15.2	50.3
K91-10-04	581800	6316798	1-Mar-10	2-Mar-10	n/a	-90	72.2	9.1	63.1
K91-10-05	581853	6317149	2-Mar-10	4-Mar-10	n/a	-90	117.4	13.7	103.7
K91-10-06	581912	6317207	4-Mar-10	6-Mar-10	n/a	-90	154.5	24.4	130.2
					TOTALS:		1509.7		1159.0

6.0 Conclusions and Recommendations

Completion of the current program brings the K14, K252, K6, K5 and K91 kimberlites to a broadly equal basis of information for major decisions on future work. Drilling is now generally sufficient to develop meaningful models and calculations of the size and shape of the bodies.

Additional delineation drilling is recommended for K14, with one or 2 vertical holes added south of the existing drill grid, where drilling in 2008 encountered longer intersections of kimberlite than expected based on previous drilling and geophysical interpretation.

Additional drilling on K5 and K6, where much of the initially planned drill grid was not completed, may be warranted when detailed study of the 2010 drill cores are complete.

Detailed geological models will need to be developed for each of K14, K252, K6, K5 and K91, with careful identification of distinctive compositions and textures. If one or more of these bodies is determined to warrant more advanced work, bulk sampling or test mining is the next appropriate step.

7.0 CERTIFICATE OF QUALIFICATIONS

I, David Ritcey, 2518 St. George Street, Port Moody, British Columbia hereby certify that:

1. I am presently employed as Senior Project Geologist with Canterra Minerals Corp., 1410-650 West Georgia Street, Vancouver, B.C.

2. I am a graduate of Dalhousie University and hold a B.Sc. Degree with major in Chemistry and a B.A. Degree with major in Geology.

3. I am a graduate of Memorial University of Newfoundland and hold M.Sc. Degree in Earth Sciences.

4. I have been employed with Canterra Minerals Corp (and its predecessor Diamondex Resources Ltd.) continuously since 2007.

5. I am not aware of any material fact or material change with respect to the subject matter of the Report that is not reflected in the Report, or the omission to disclose which makes the Report misleading.

6. That the information in this report is based on work done to evaluate the property, in collaboration with colleagues involved in various aspects of exploration.

DATED at Vancouver, British Columbia, this 12th day of August, 2010.

CANTERRA MINERALS CORP.

David Ritcey, B.Sc., B.A., M.Sc.

8.0 REFERENCES

Bhattacharya, J., and Walker, R.G., 1991. Allostratigraphic subdivision of the Upper Cretaceous Dunvegan, Shaftesbury, and Kaskapau formations in the northwestern Alberta subsurface; Bulletin of Canadian Petroleum Geology, v. 39; p. 145-164.

Cant, D.J., 1988. Regional structure and development of the Peace River Arch, Alberta; Bulletin of Canadian Petroleum Geology, v. 36, p. 284–295.

Hamilton, W.N., Langenberg, C.W., Price, M.C., and Chao, D.K. (compilers), 1998. Geological map of Alberta; Alberta Geological Survey, Alberta Energy and Utilities Board, Map No. 236, scale 1:1,000,000.

Pană D.I., 2003. Precambrian basement of the Western Canada Sedimentary Basin in northern Alberta; Alberta Energy and Utilities Board, EUB/AGS Earth Sciences Report 2002-02.

Paulen R.C., Pawlowicz J.G., Fenton M.M., Weiss J.A., and Brown B., 2003. Stratigraphy and glacial dispersion studies in the Buffalo Head Hills kimberlite field. Program with abstracts, vol. 28, p. 132, 2003 GAC-MAC-SEG, Vancouver.

Richards, B.C., Barclay, J.E., Bryan, D., Hartling, A., Henderson, C.M., and Hinds, R.C., 1994. Carboniferous strata of the Western Canada Sedimentary Basin. In: Geological Atlas of the Western Canada Sedimentary Basin, G.D. Mossop and I. Shetsen (compilers). Canadian Society of Petroleum Geologists and Alberta Research Council, Alberta Geological Survey, Calgary, Alberta, p. 221-250.

Ritcey, D., Willis, D., and North, A., 2008. Assessment Report "Part B" and "Part C" for the Buffalo Hills Property (2008). Report submitted to Coal and Mineral Development Branch, Alberta Department of Energy; prepared by Diamondex Resources Ltd.; 16 pp plus Appendices

Ritcey, D., 2009. Assessment Report "Part B" and "Part C" for the Buffalo Hills Property (2008). Report submitted to Coal and Mineral Development Branch, Alberta Department of Energy; prepared by Diamondex Resources Ltd.; 20 pp plus Appendices.

Skelton, D., Clements, B., McCandless, T.E., Hood, C., Aulbach, S., Davies, R., and Boyer, L.P. 2003. The Buffalo Head Hills kimberlite province, Alberta. In: Slave Province and Northern Alberta Field trip Guidebook, B.A. Kjarsgaard (editor). Eighth International Kimberlite Conference, Geological Survey of Canada, Miscellaneous Publication G-293, p. 14-16.

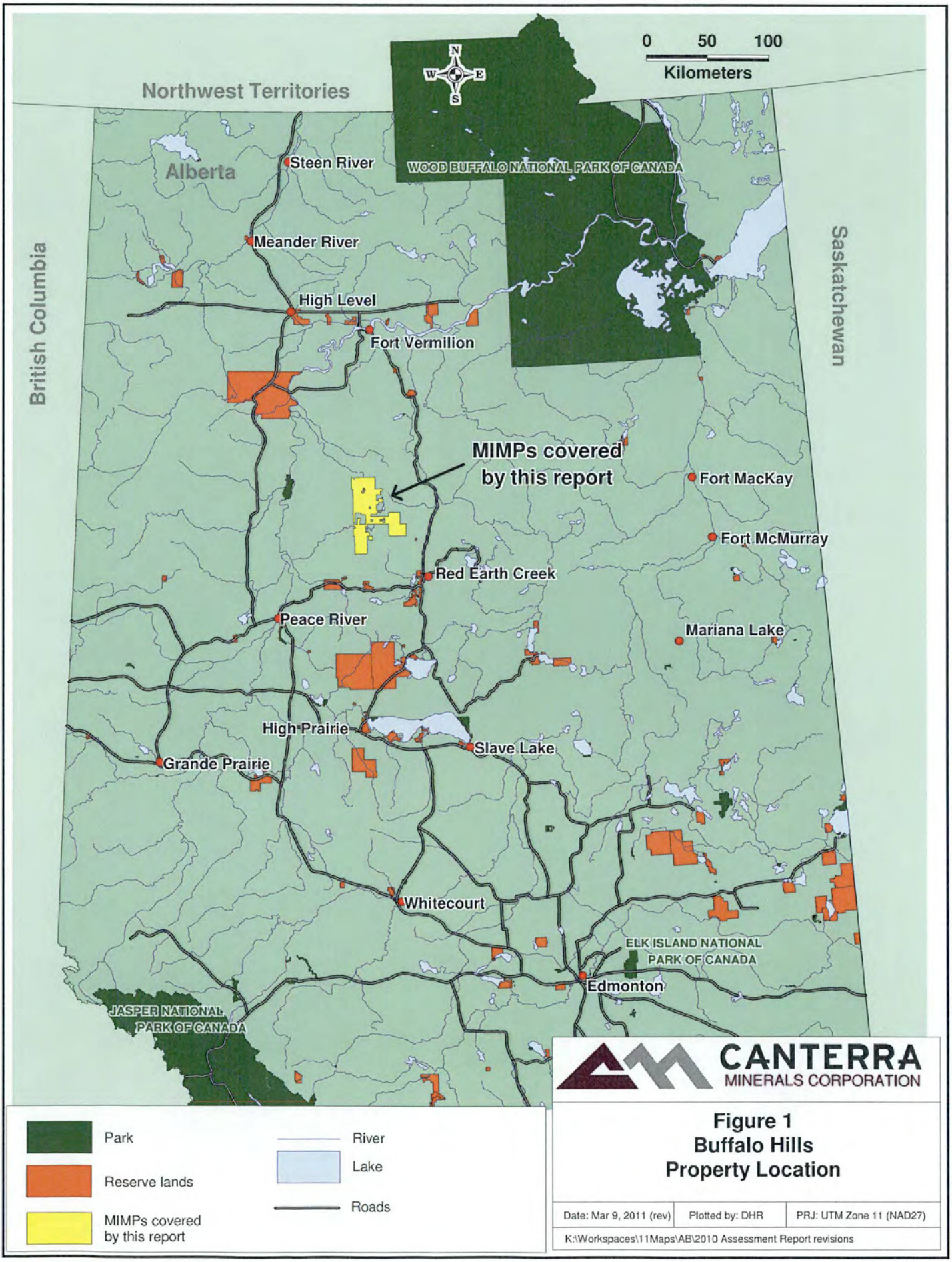
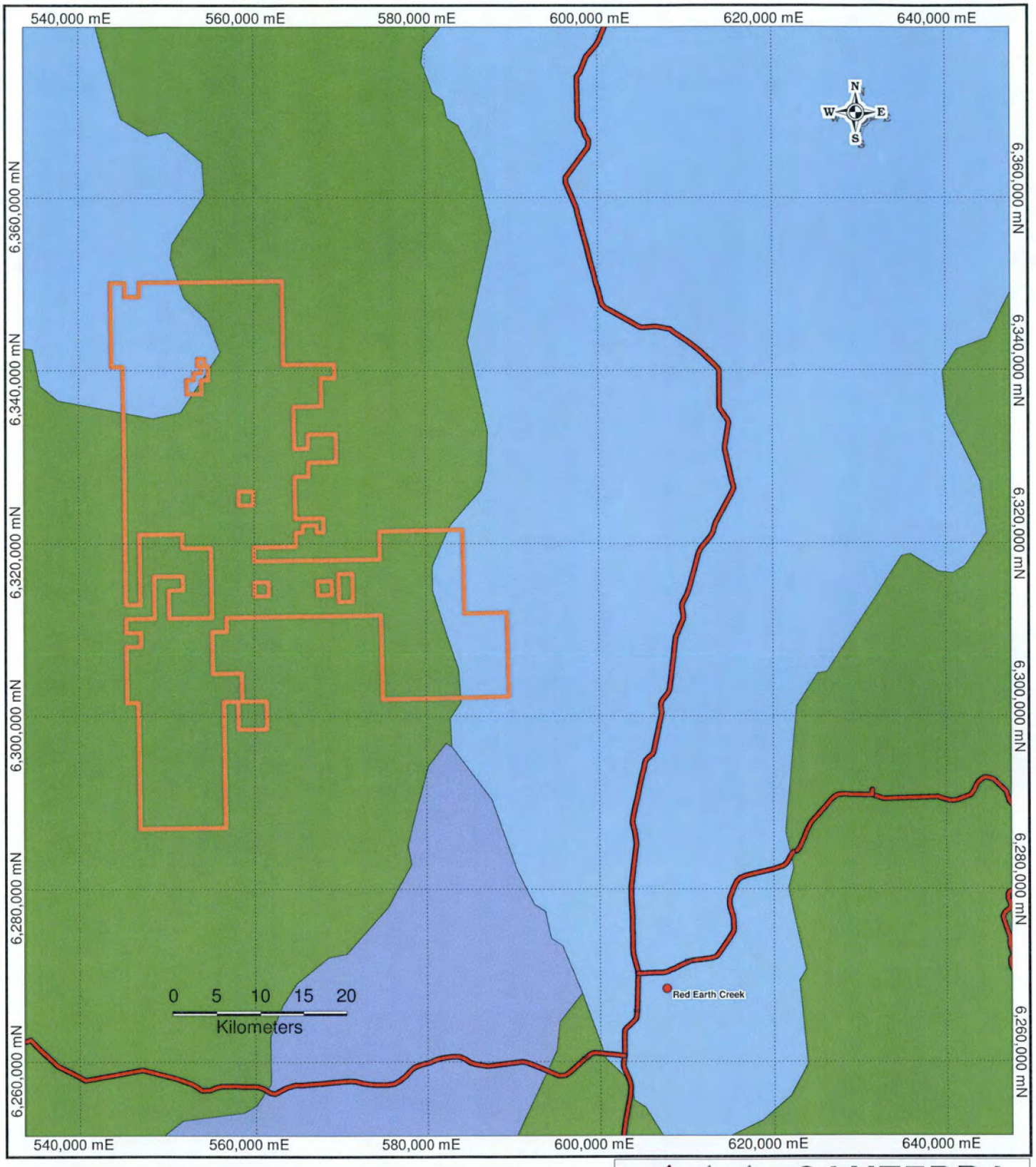

0 50 100
Kilometers
N
W
E
S
Northwest Territories
Alberta
British Columbia
Saskatchewan
WOOD BUFFALO NATIONAL PARK OF CANADA
Steen River
Meander River
High Level
Fort Vermilion
MIMPs covered by this report
Fort MacKay
Fort McMurray
Red Earth Creek
Peace River
Mariana Lake
High Prairie
Slave Lake
Grande Prairie
Whitecourt
ELK ISLAND NATIONAL PARK OF CANADA
Edmonton
JASPER NATIONAL PARK OF CANADA
Park
Reserve lands
MIMPs covered by this report
River
Lake
Roads
CANTERRA MINERALS CORPORATION
Figure 1
Buffalo Hills
Property Location
Date: Mar 9, 2011 (rev)
Plotted by: DHR
PRJ: UTM Zone 11 (NAD27)
K:\Workspaces\11Maps\AB\2010 Assessment Report revisions

Figure 1.



Fine-grained Glaciolacustrine

Coarse-grained Glaciolacustrine

Till Blanket

Permit outline: MIMPs covered by this report

CANTERRA MINERALS CORPORATION

Figure 2
Buffalo Hills Property
Surficial Geology

Date: Mar 9, 2011 (rev)	Plotted by: DHR	PRJ: UTM Zone 11 (NAD27)
K:\Workspaces\11Maps\AB\2010 Assessment Report revisions		

- Smoky Group
- Dunvegan Formation
- Shaftesbury Formation
- Peace River Formation
- Loon River Formation
- Permit outline MIMPs covered by this report

CANTERRA MINERALS CORPORATION

Figure 3
Buffalo Hills Property
Bedrock Geology

Date: Mar 9, 2011 (rev)	Plotted by: DHR	PRJ: UTM Zone 11 (NAD27)
K:\Workspaces\11Maps\AB\2010 Assessment Report revisions		

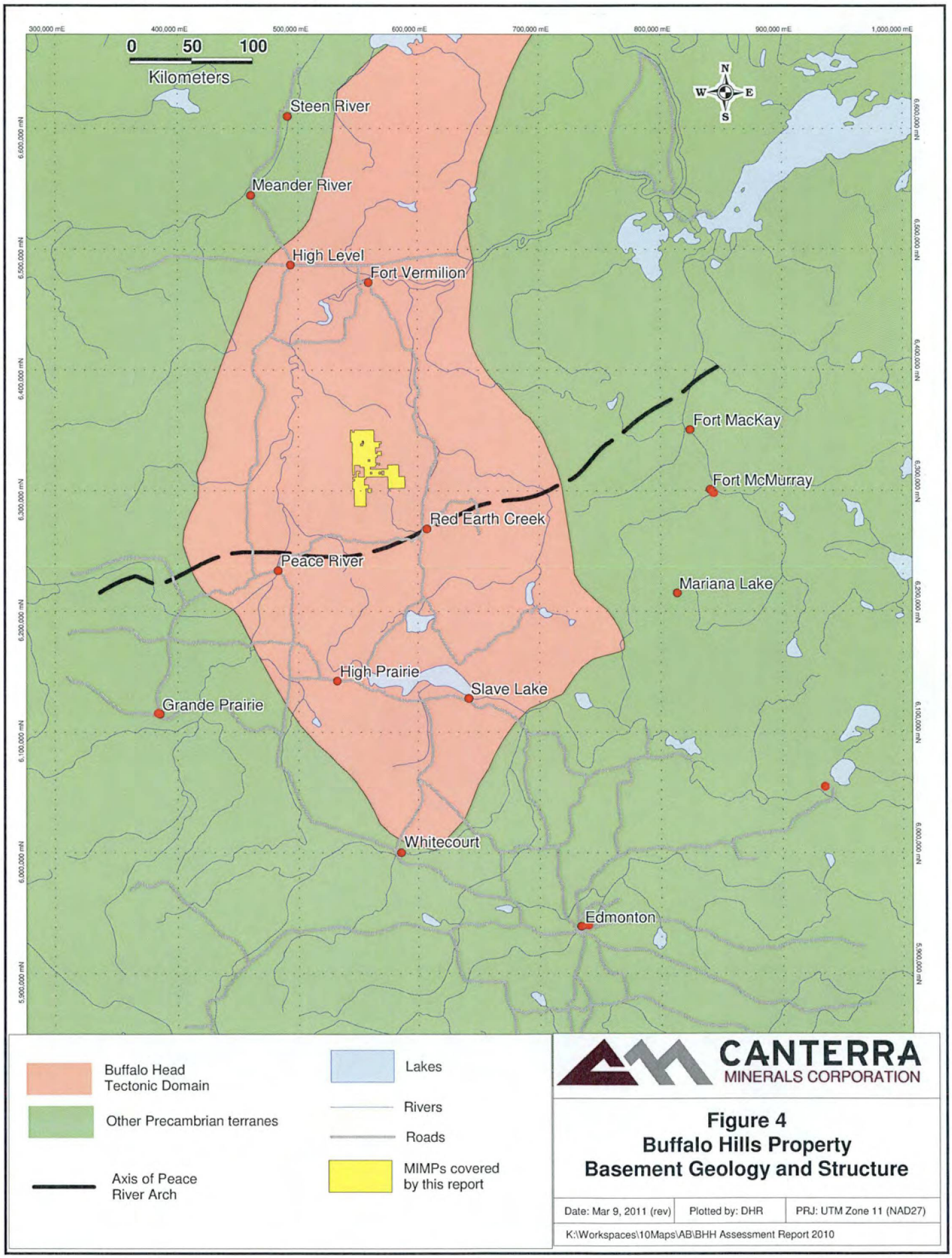

0 50 100
Kilometers
N
W
E
S
Steen River
Meander River
High Level
Fort Vermilion
Fort MacKay
Fort McMurray
Red Earth Creek
Peace River
Mariana Lake
High Prairie
Slave Lake
Grande Prairie
Whitecourt
Edmonton
Buffalo Head Tectonic Domain
Other Precambrian terranes
Axis of Peace River Arch
Lakes
Rivers
Roads
MIMPs covered by this report
CANTERRA MINERALS CORPORATION
Figure 4
Buffalo Hills Property
Basement Geology and Structure
Date: Mar 9, 2011 (rev)
Plotted by: DHR
PRJ: UTM Zone 11 (NAD27)
K:\Workspaces\10Maps\AB\BHH Assessment Report 2010

Figure 4.

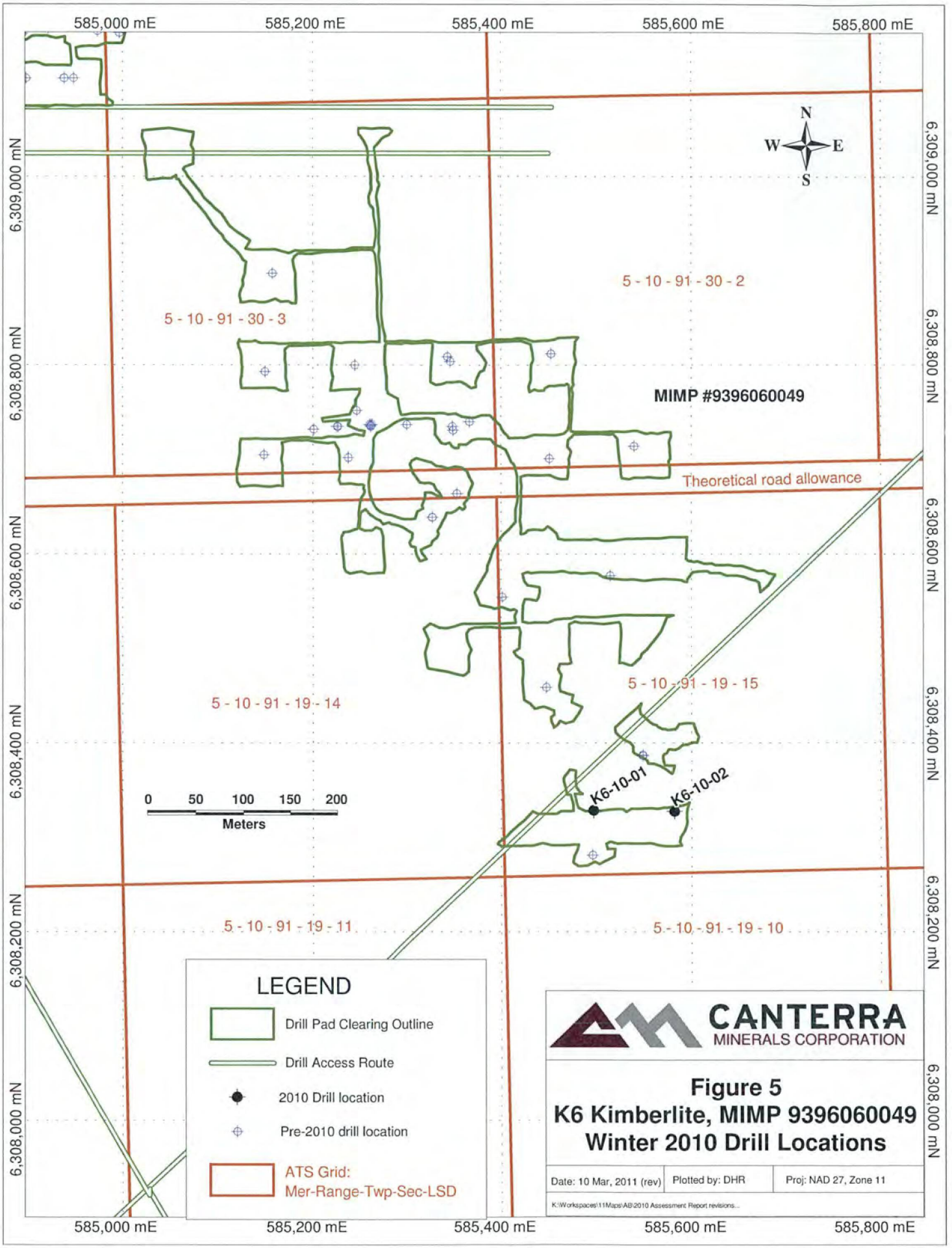

585,000 mE
585,200 mE
585,400 mE
585,600 mE
585,800 mE
6,309,000 mN
6,308,800 mN
6,308,600 mN
6,308,400 mN
6,308,200 mN
6,308,000 mN
N
W
E
S
5 - 10 - 91 - 30 - 2
5 - 10 - 91 - 30 - 3
MIMP #9396060049
Theoretical road allowance
5 - 10 - 91 - 19 - 15
5 - 10 - 91 - 19 - 14
K6-10-01
K6-10-02
0 50 100 150 200
Meters
5 - 10 - 91 - 19 - 11
5 - 10 - 91 - 19 - 10
LEGEND
Drill Pad Clearing Outline
Drill Access Route
2010 Drill location
Pre-2010 drill location
ATS Grid:
Mer-Range-Twp-Sec-LSD
CANTERRA
MINERALS CORPORATION
Figure 5
K6 Kimberlite, MIMP 9396060049
Winter 2010 Drill Locations
Date: 10 Mar, 2011 (rev)
Plotted by: DHR
Proj: NAD 27, Zone 11
K:\Workspaces\11Maps\AB\2010 Assessment Report revisions...

Figure 5. p. 13

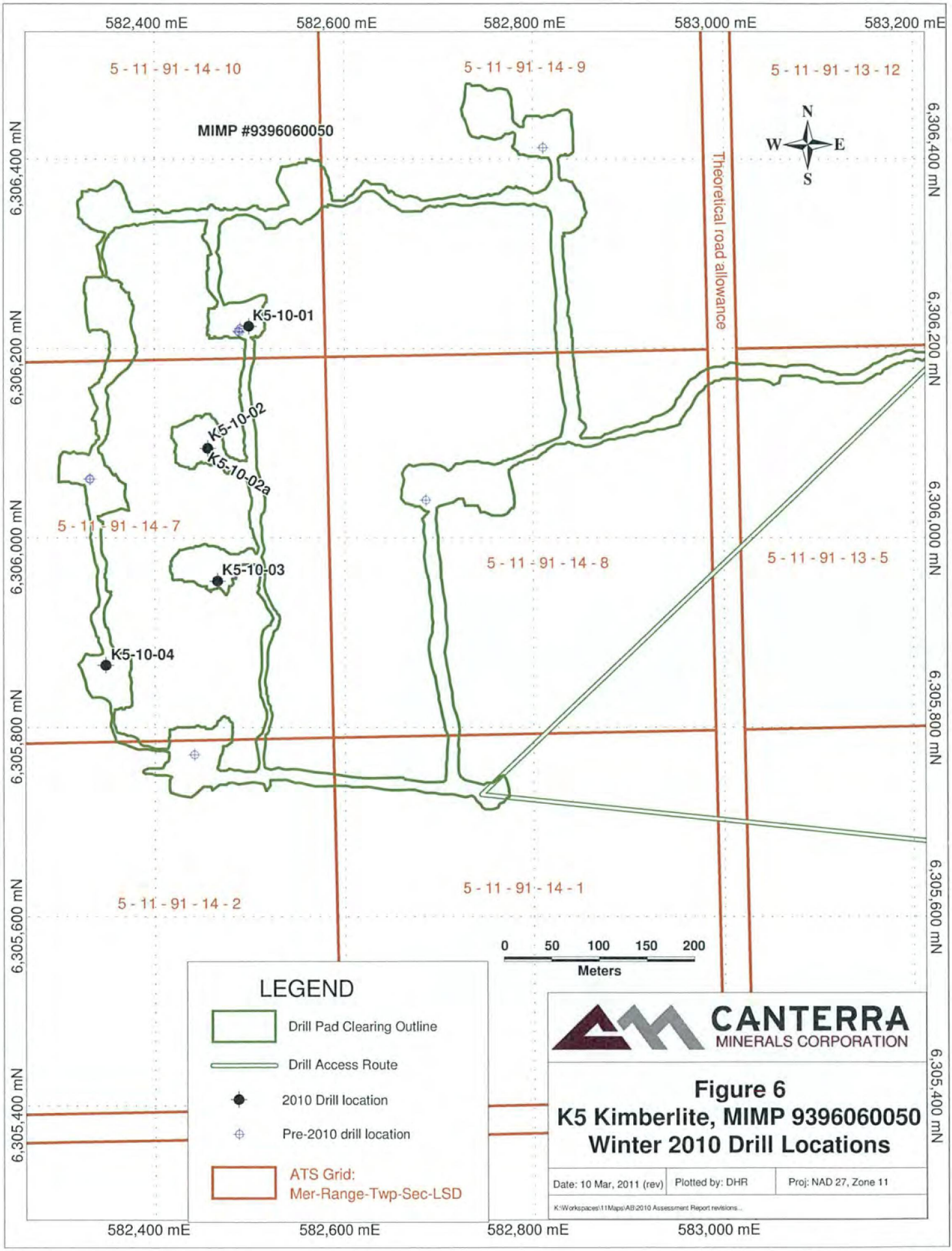

582,400 mE
582,600 mE
582,800 mE
583,000 mE
583,200 mE
6,306,400 mN
6,306,200 mN
6,306,000 mN
6,305,800 mN
6,305,600 mN
6,305,400 mN
5 - 11 - 91 - 14 - 10
5 - 11 - 91 - 14 - 9
5 - 11 - 91 - 13 - 12
5 - 11 - 91 - 14 - 7
5 - 11 - 91 - 14 - 8
5 - 11 - 91 - 13 - 5
5 - 11 - 91 - 14 - 2
5 - 11 - 91 - 14 - 1
MIMP #9396060050
Theoretical road allowance
K5-10-01
K5-10-02
K5-10-02a
K5-10-03
K5-10-04
N
W
E
S
0 50 100 150 200
Meters
LEGEND
Drill Pad Clearing Outline
Drill Access Route
2010 Drill location
Pre-2010 drill location
ATS Grid:
Mer-Range-Twp-Sec-LSD
CANTERRA
MINERALS CORPORATION
Figure 6
K5 Kimberlite, MIMP 9396060050
Winter 2010 Drill Locations
Date: 10 Mar, 2011 (rev)
Plotted by: DHR
Proj: NAD 27, Zone 11
K:\Workspaces\11Maps\AB\2010 Assessment Report revisions...

Figure 6.

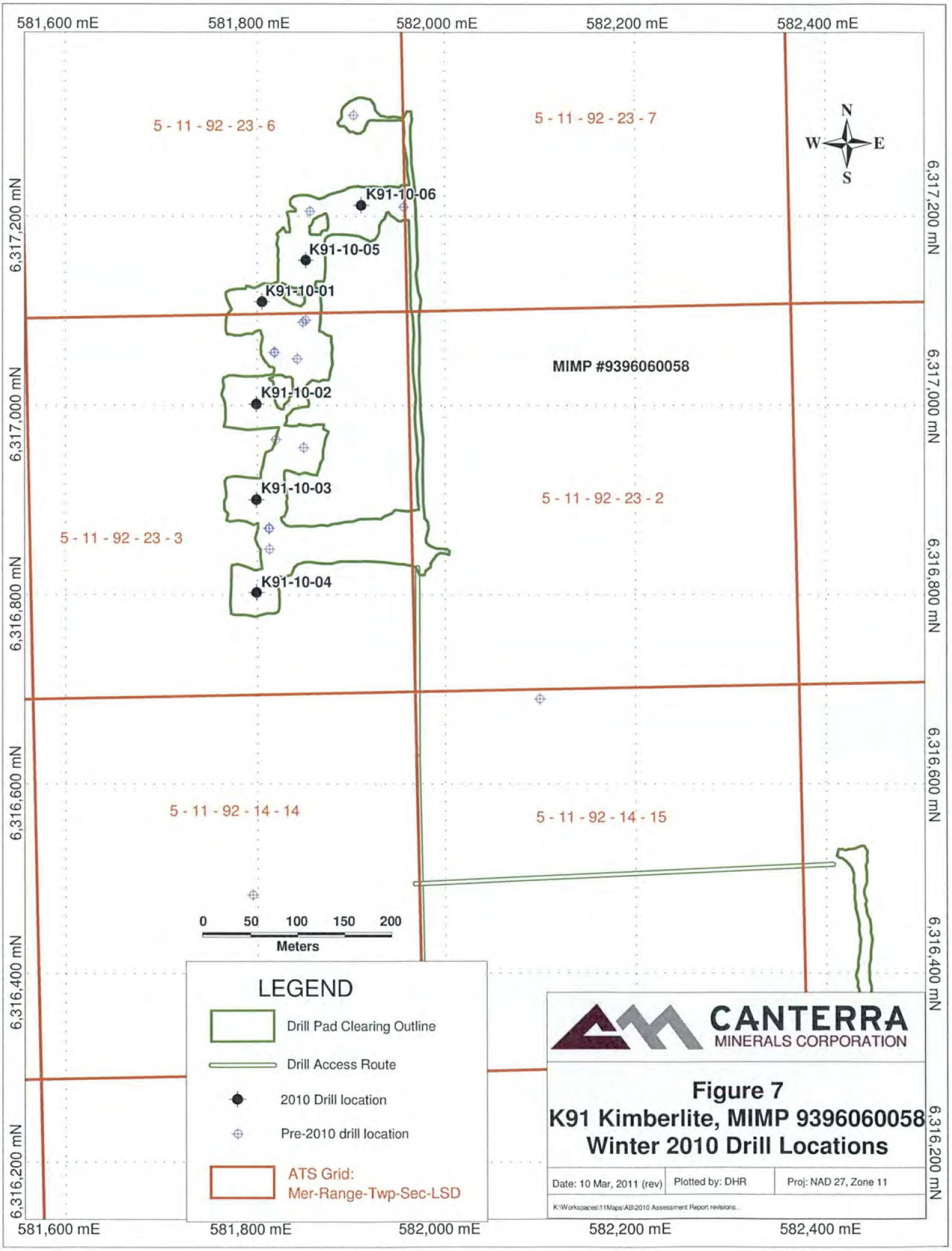
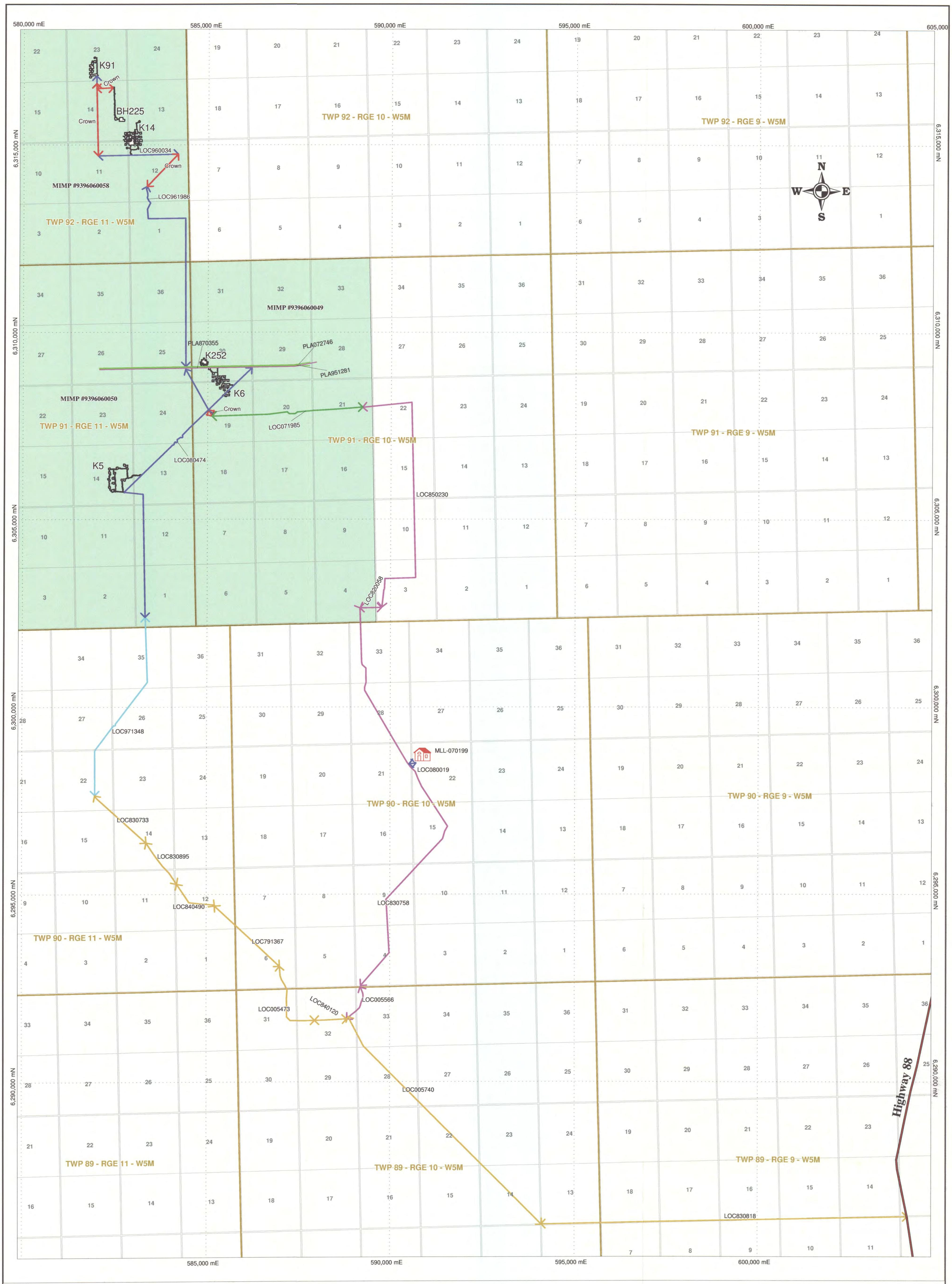

581,600 mE
581,800 mE
582,000 mE
582,200 mE
582,400 mE
6,317,200 mN
6,317,000 mN
6,316,800 mN
6,316,600 mN
6,316,400 mN
6,316,200 mN
5 - 11 - 92 - 23 - 6
5 - 11 - 92 - 23 - 7
5 - 11 - 92 - 23 - 2
5 - 11 - 92 - 23 - 3
5 - 11 - 92 - 14 - 14
5 - 11 - 92 - 14 - 15
K91-10-06
K91-10-05
K91-10-01
K91-10-02
K91-10-03
K91-10-04
MIMP #9396060058
N
W
E
S
0 50 100 150 200
Meters
LEGEND
Drill Pad Clearing Outline
Drill Access Route
2010 Drill location
Pre-2010 drill location
ATS Grid:
Mer-Range-Twp-Sec-LSD
CANTERRA
MINERALS CORPORATION
Figure 7
K91 Kimberlite, MIMP 9396060058
Winter 2010 Drill Locations
Date: 10 Mar, 2011 (rev)
Plotted by: DHR
Proj: NAD 27, Zone 11
K:\Workspaces\11Maps\AB\2010 Assessment Report revisions...

Figure 7.

PART C – APPENDICES

Appendix A	• Drill Access Route Map
Appendix B	• Drill Logs
Appendix C	• Exploration Permit Location Map

APPENDIX A: DRILL ACCESS ROUTE MAP



LEGEND

Roads:

- Canterra Minerals Corp. (Diamondex Resources Ltd.)
- Crown Access
- Penn West Petroleum Ltd.
- Devon Canada Corporation
- Celtic Exploration
- Newcast Energy Corp.

Pipeline PLAs:

- Keyera Energy Ltd.
- Nova Gas Transmission Ltd., TransCanada Pipelines Ltd.

- ATS Section Grid
- ATS Township Grid
- Field Camp
- Drill Pad Clearing Outlines
- MIMPS covered by this report

1 0 1 2 3
Kilometers
Scale: 1:50,000

CANTERRA MINERALS CORPORATION

Buffalo Hills Property
2009 - 2010 Logistics and Drill Areas Map

Date: 11 Mar, 2011 (rev)	Plotted by: DHR	Proj: UTM Zone 11, NAD 27

K:\Workspaces\11Maps\AB\2010 Assessment Report revisions\2009-2010 Logistics and Use Reporting\2010Logistics.wor

APPENDIX B: DRILL LOGS

Abbreviations for rock types in geological logs:

OB = Overburden (soil and till)

Kb = Kimberlite

St = Siltstone

Ss = Sandstone

Sm = Mudstone

CS = Casing

MI = Missing Interval

Gr = Gravel

Sa = Sand (unconsolidated)

Mu = Mud (unconsolidated)

Cy = Clay

Explanation of geotechnical logs:
RQD length is the sum length of all core segments 10 cm or longer; for each run of the core barrel, RQD % is the percentage of RQD length relative to drilled interval.

SHORT LOG OF BOREHOLE LITHOLOGY

Hole I.D.: K6-10-01
Logged by: D. Ritcey

Date Start: 01-Feb-10
Date Finish: 06-Feb-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Lithology Code	Description
0.0	65.5	**OB**	Cased overburden; clay till with cobbles and some sand seams
65.5	85.0	**Kb**	Dark grey Kb; Variable texture on 1-5 metre scale: Some sections relatively coarse grained with abundant olivine 5-8 mm, and some up to 10 mm, but predominant sections are olivine-poor and fine grained.
85.0	183.5	**Kb**	Mainly dark grey (to almost blue-black) fine-grained kimberlite; gradational from above. Olivine-poor and xenolith-poor. Few 0.5m to 2 m intervals or "bands" have relatively abundant 5-8mm olivine similar to unit above
183.5	189.5	**Kb**	Kimberlite Breccia; sharp transition from above, but contact not preserved. Matrix-supported breccia with up to 50% clasts. Angular metasedimentary clasts and round to angular peridotites are roughly equally abundant. Rare gneissic and granitic clasts. Clasts are 1 to 7 cm across. Intensely carbonate veined in lower 1 metre.
189.5	196.0	**Sm**	Black mudstone. Massive to chaotic, with injections and/or inclusions of kimberlitic material, especially 193.9-194.6
196.0	197.20	**Sa**	Dark green fine grained sandstone with minor petroleum.
197.20	EOH		End of Hole.

SHORT LOG OF BOREHOLE LITHOLOGY

Hole I.D.: K6-10-02
Logged by: D. Ritcey

Date Start: 7-Feb-10
Date Finish: 12-Feb-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Lithology Code	Description
0.0	69.0	OB	Cased overburden; clay till with granitic cobbles and some sand seams
69.0	82.3	CS	No recovery; base of overburden may be slightly above 82.3 m; Advanced casing to 270 feet (82.3m)
82.3	86.5	Sm	Black mudstone; may be kimberlitic in part.
86.5	87.5	Kb	Black fine-grained kimberlite; may be mudstone in part.
87.5	88.4	Kb	Dark green Kb with ~35% 1-4 mm white (carbontized?) olivine.
88.4	94.2	Kb	Dark blue-grey Kb. Few to 20% 1-5 cm metasedimentary xenoliths; rare peridotitic xenoliths; fairly common fresh 1-3 mm olivine crystals.
94.2	103.3	Sm	Dark grey mudstone
103.3	121.0	Kb	Kimberlite breccia. Green-grey. Lesser mantle-derived components than in k6-10-01, but locally 40% peridotitic inclusions.
121.0	140.8	Sm	Dark grey mudstone
140.8	142.3	Kb	Grey-green kimberlite; mostly fine grained
142.3	145.4	Sm	Black to dark grey mudstone
145.4	146.6	Sa	Unconsolidated fine grey sand
146.6	148.44	Sm	Dark grey to black mudstone.
148.44	EOH		End of Hole.

SHORT LOG OF BOREHOLE LITHOLOGY

Hole I.D.: K5-10-01
Logged by: D. Ritcey / S. Berg/ J.Burgess
Date Start: 12-Feb-10
Date Finish: 16-Feb-10

CANTERRA MINERALS CORPORATION

From (m)	To (m)	Lithology Code	Description
0.0	6.1	CS	Cased overburden and crumbly weathered Kb.
6.1	44.0	Kb	Dull brown-grey KB; Medium to fine grained with rare metasedimentary xenoliths.
44.0	81.5	Kb	Dark grey granular texture. Transitional from above, and generally similar without brownish weathering.
81.5	85.5	Kb	Green; medium grained with common 1 cm angular mudstone clasts. Some olivine to 5 mm.
85.5	107.0	Kb	Dark blue-grey, mostly fine grained. Commonly fractured nearly parallel to core axis. 15 mm clay seam at 103 m (uncertain angle) and also at 103.3 m (at 30° to core axis)
107.0	121.11	Kb	Transitional from above. Mixed green to dark grey fine-grained (grading to medium) olivine bearing kimberlite; overall massive with possible bedding traces (near 60° to core axis). Olivine is fresh to siderite (?) replaced. Minor rounded lapilli (1cm+). Intervals of more strongly altered (serpentine / iron oxide) Kb from 108.9-110.6, 114.9-116.4, and 117.55-119.5m. Generally increasing carbonate veining/pooling towards base of interval.
121.11	136.50	Kb	Sharp upper contact at 60° to core axis; grey-green coarse grained, closely packed olivine-lapilli rich kimberlite with mudstone-limestone xenoliths increasing in size and abundance towards base of interval (especially below 129m). Approximately 60% subround to rounded olivine (average 3mm), fresh to serpentine- and iron oxide-altered; Up to 25% crustal xenoliths (subangular to subround mudstone and limestone ; 5 to 2 m) some exhibiting reaction rims; abundant rounded carb-rich lapilli (often armouring partially to wholly altered xenoliths). Top of interval exhibits strong calcite/siderite veining and open space vugs running sub parallel to core axis and at 50-60°. Sharp lower contact at 40° to core axis.

K5-10-01 (continued)

From (m)	To (m)	Lithology Code	Description
136.5	137.0	**Kb**	Black, broken and mud caked contact zone; carbonate-rich, possibly mixed with mudstone? No distinct contact with mudstone below due to broken core.
137.0	139.0	**Sm**	Dark grey-black friable mudstone
139.0	148.75	**Ss**	Dark- to medium-grey fine grained argillaceous sandstone; soft and friable in spots, jointing at 30° to core axis.
148.75	153.83	**Sm**	Dark and light grey laminated mudstone with more massive light grey silty beds
153.83	154.53	**Ss**	Grey soft and unconsolidated fine argillaceous sandstone
154.53	157.58	**Sm**	Grey finely laminated mudstone with siltstone interbeds; bedding at 70-80° to core axis.
157.58	EOH		End of Hole.

SHORT LOG OF BOREHOLE LITHOLOGY

Hole I.D.: K5-10-02
Logged by: J. Burgess

Date Start: 16-Feb-10
Date Finish: 18-Feb-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Lithology Code	Description
0.00	42.67	CS	Triconed and cased throgh base of overburden; best guess of OB depth is 40 to 50 feet.
42.67	52.00	Kb	Bedded Olivine Volcaniclastic Kimberlite Top 40cm is sticky brown clay with fine bits of dark grey kb (sloughed into hole when switching from tricone to coring), then into competent but broken brownish-olive green finely bedded olvine tuff (minor lapilli - only one observed) exhibiting mm-cm scale fining up beds 90° to core axis. Olivine grains 1-3 mm are replaced by serpentine and iron-oxide; commonly plucked from core surface imparting a porous texure. Minor crustal xenoliths (subangular mudstone/siltstone/limestone) are typically concentrated and oriented along coarser beds. Interstitial white carbonate observed throughout. Dominant jointing at 30-40° to core axis.
47.78	47.98	Kb	Dark grey interval with sharp contact nearly perpendicular to core axis; a finer grained more ashy looking kimberlite (?)
50.00	52.00	Kb	Kimberlite is highly broken/blocky to soft and pervasively iron-stained; Lower contact difficult to discern in broken core.
52.00	54.25	Sm	Soft and broken (to locally more competent) light- to dark grey-brown mudstone; 'baked' in contact with overlying kimberlite - abundant fine, white ankerite/calcite (?) rhombs/flecks and minor sulphides throughout.
54.25	122.83	Sm	Bedded dark grey to brown mudstone; mm-cm scale bedding at 90° to core axis as well as more massive, locally exhibiting soft-sediment deformation. Upper interval to approximately 67m is more broken with white carbonate (?) veining, and rusty orange oxidized beds of fine sand.

K5-10-02 (continued)

From (m)	To (m)	Lithology Code	Description
			Subinterval from 58.4 to 58.75 metres is light grey, well indurated and finely laminated siltstone/sandstone with thick secondary calcite veins
			Subinterval from 60.05 to 60.35 is light grey, well indurated and finely laminated siltstone/sandstone with thick secondary calcite veins
			Subinterval of mudstone from 70.0 to 74.5 metres has higher concentration of rusty orange beds
			Subinterval from 93.0 to 93.5 m is light grey massive sandstone with shells and biotite flakes (?), or fish scales (?)
122.83	EOH		End of Hole.

SHORT LOG OF BOREHOLE LITHOLOGY

Hole I.D.: K5-10-02a
Logged by: J. Burgess

Date Start: 18-Feb-10
Date Finish: 18-Feb-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Lithology Code	Description
0.0	14.0	**OB**	A -75° inclined hole was drilled from the same setup as K5-10-02, to determine the top of kimberlite which was previously triconed through. Casing was initially set to 35 feet (10.67 m) and then drilled ahead with corebarrel to reach top of kimberlite
14.0	20.42	**Kb**	Bedded Volcaniclastic Kimberlite Top ~0.5m rubbly/broken, mixed with some granitic pebbles and clayey till. Rock more competent at 14.6m, although still broken with poor recovery. Driller reported sand/clay seams that washed away. From 17.4m to 20.42 m kimberlite is greyish-olive green to rusty yellow coloured (more pervasively iron-oxide stained). Olivines dominantly fine grained(0.5-1mm), partly carbonate/Fe-oxide replaced, up to 40%; Lesser rounded coarser olivine macrocrysts in a serpentine-carbonate altered matrix are serpentine replaced. Bedding at 60° to core axis, defined by oriented flat angular-subangular mudstone and lesser limestone clasts (avg. 0.5-1cm).
20.42	EOH		End of hole - shut down after confirming top of kimberlite

SHORT LOG OF BOREHOLE LITHOLOGY

Hole I.D.: K5-10-03
Logged by: J. Burgess

Date Start: 19-Feb-10
Date Finish: 21-Feb-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Lithology Code	Description
0.0	34.0	**OB**	Overburden 2.5 boxes of recovered overburden material consisting of sandy to clayey till with mixed boulders concentrated at 17m and 30m.
34.0	54.25	**Kb**	Massive to Weakly Bedded Volcaniclastic Kimberlite and Kimberlite Breccia; Grey-green to yellowish-olive green coloured olivine-lapilli bearing kimberlite breccia, with finer grained, xenolith-poor intervals from 37.58 to 41.1m and 49.15 to 50.0m. Minor carbonate veining associated with dark fine-grained, fresh Kb. Top ~0.5m is mixed with clay - weathered top/basal till. Fine grained (0.5-1mm) rounded olivine and coarser (2-3 mm) subrounded olivine macrocrysts (2-3mm) together comprise up to 40% of rock volume, typically closely packed with few to common subround lapilli up to 2cm, and ~15-20% metasedimentary xenoliths (avg. 1-2cm and smaller) in a serpentine-carbonate matrix with widespread iron-oxide replacement. Finer intervals are dominated by fine-grained olivine with increased interstitial carbonate an iron oxide alteration. Blocky core with faulted/clayey zones throughout, especially towards base of interval.
54.15	65.00	**Kb**	Bedded Volcaniclastic Kimberlite: Olive green generally fine grained bedded volcaniclastic kimberlite exhibiting possible reverse graded beds (?) at 50-60° to core axis defined by oriented flat brown mudstone and sorted olivine beds. Less than 5% crustal xenoliths, dominantly angular to subangular mudstone smaller than 1 cm.

K5-10-03 (continued)

From (m)	To (m)	Lithology Code	Description
65.00	90.45	**Kb**	Carbonate-rich Bedded Kimberlite: Dark olive-green-grey fine grained olivine-lapilli bearing kimberlite supported by dominantly carbonate matrix. Rounded olivines 0.5-1mm are serpentinized. Rounded to angular lapilli are various colours and sizes. Common carbonate-clay veining. In coarser beds, increased iron-oxide replacement aof olivine and angular to subangular brown mudstone xenoliths (average 0.5 cm) are observed. Core is extremely blocky fractured and friable. Subinterval 66 to 67.3m is brown, soft altered mud clast rich breccia with sharp lower contact at 55° to core axis. Subinterval 78.2 to 90.45m has increased iron-oxide staining imparting yellowish hue. Soft white talcy fracture coatings within 2 m of lower contact.
90.45	145.39	**Sm**	Dark grey finly laminated (at ~55° to core axis) mudstone; Contact with overlying kimberlite at ~45° to core axis. Upper 1m is sticky mud breccia containing lt grey pebbles of cemented sandstone (?). Subinterval 96.69 to 102.72m: uniform fine grained grey sand.
			Subinterval 125.75 to 126.75m: Light grey, well indurated (but highly fractured) cemented sandstone with thick secondary calcite veining; Finely laminated with distinct lath-like black mineral (biotite?) oriented along laminae / bedding. Upper and lower contacts near perpendicular to core axis (Could this be a bentonite horizon?)
145.39	EOH		End of hole: rods were torquing up; only option was to continue washing hole to try to gain 20ft more - called it quits in interest of time.

SHORT LOG OF BOREHOLE LITHOLOGY

Hole I.D.: K5-10-04
Logged by: J. Burgess

Date Start: 21-Feb-10
Date Finish: 23-Feb-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Lithology Code	Description
0.00	38.71	**OB**	Casing set to 33.53m. Driller reported some granitic boulders at ~20m, otherwise soft sandy till; 40cm of recovered grey sandy till recovered in box with some granitic cobbles.
38.71	85.58	**Kb**	Weathered Kimberlite (Breccia): Core is extremely blocky to rubblized (and frozen/covered by mud); difficult to see in field conditions. An olive-green coloured highly weathered/altered kimberlite with several competent breccia intervals, as well as finer grained, crx-poor sections. Top of kimberlite is a slightly browner coloured weathered kimberlite - possibly till or mixed with till? Subinterval 79.58 to 81.50m is brown mudstone (xenolith?) in contact with weathered rotten looking kimberlite; contacts are not clear. Mudstone has white talcy fracture coatings. Lower (oxide stained) kimberlite in contact with mudstone at ~60° to core axis.
85.58	87.48	**St**	Carbonatized interval of siltstone - frozen solid in box and cannot be sure; possible white carbonate veining.
87.48	125.00	**St**	Siltstone: Light grey bedded siltstone with bedding nearly perpendicular to core axis. Exhibits disturbed bedding.
125.00	151.49	**Sm**	Soft brown mudstone with lighter brown silty interbeds (mm scale) perpendicular to core axis. Occasional light grey siltstone beds (cm scale) at 134.2m, 141.74m and 150.2m
151.49	EOH		End of hole: Hole was shut down when target depth of 150m was achieved.

SHORT LOG OF BOREHOLE LITHOLOGY

Hole I.D.: K91-10-01
Logged by: J. Burgess

Date Start: 24-Feb-10
Date Finish: 25-Feb-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Lithology Code	Description
0.00	21.33	OB	Casing set at 70 feet (21.33 m). Soft wet sand and muck reported. Suspect top of kimberlite has been triconed.
21.33	31.07	Kb	Olivine Lapilli-rich Kimberlite: Cobble sized pieces of core at top, poor recovery throughout. Olive green coloured medium to coarse grained massive looking kimberlite with vague coarsening sequences on meter scale or larger. Dark grey closely packed serpentinized rounded to subrounded olivines (0.5-2mm), and dark grey (rounded and cored, avg. 1cm) and olive green (subrounded to ameboid shaped, average 0.5cm) lapilli set in a carbonate-rich serpentinized matrix with minor iron-oxide alteration. Less than 5% angular to subangular 1-2 cm black shale xenoliths, typically in coarser intervals. Carbonate veining at top of hole, at 60° to core axis. Abundant ruby-red rounded pyrope garnets up to 1cm, with fine black (1mm) intact to partial kelyphytic rims. Also common ilmenite and.or chromite, and altered mica (phlogopite?).- altered mica). Core is blocky with soft rotten clay seam filled section from 29.5 to 30.2m. Lower contact with is partially intact, and appears irregular.
31.07	81.38	Sm	Soft brown to dark grey mudstone with fine grey sandy sections showing associated iron oxide layers or blebs (e.g. 31.07 - 36m, 67 to 70m, and at e.o.h.)
81.38	EOH		End of hole: Hole was shut down in unconsolidated sloppy mud and fine sandstone where rods were getting sanded in and core recovery was difficult.

SHORT LOG OF BOREHOLE LITHOLOGY

Hole I.D.: K91-10-02
Logged by: J. Burgess

Date Start: 25-Feb-10
Date Finish: 27-Feb-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Lithology Code	Description
0.00	23.47	**OB**	Casing set to 80 feet (24.38m), but corebarrel was run ahead of casing afte 30 feet (9.14 m); 10cm grey fine sand from 50-57 feet (15.2 - 17.4 m); 25cm grey clay from 57-67 feet(17.4 - 20.4 m); 70cm grey clay mixed with some kimberlite fragments from 67-77 feet(20.4 - 23.5 m).
23.47	32.23	**Kb**	Olivine Lapilli Kimberlite Tuff Kimberlite to 27m is intensely broken and weathered; core ground. There may be some OB within this interval as oxidized brown to grey clayey material holding pieces of kimberlite together. Massive kimberlite grades from a fresher grey to serpentinized olive green to (highly clay altered) light olive green colour downhole, where textures are partially obliterated by alteration. Dominated by ~15% rounded to subround olivine macrocrysts averaging 3 mm (cored, with variable serpentinization), 25% rounded (to angular - fragmented?) olivine ranging from 0.5mm to 1mm, ~15% fine grained rounded to amoeboid dark grey-black lapilli (commonly with olivine cores, average 1cm), and 2% angular-subangular black shale to brown (oxidized) mudstone clasts (~0.5-1cm) set in a fine grained light green (serpentine-) to off-white (clay-) dominated matrix. 2-3 mm ruby red garnets are common, often with partial to complete whole fg black kelyphytic rims - also black chromite/ilmenite and possible phlogopite observed. Lower contact is sharp and marked by multiple whi to contact in underlying mudstone.
32.23	66.10	**Sm**	Grey-brown mudstone that is more orange (iron-oxide beds) from base of kimberlite to ~43m. Lighter grey sandy interval from 53.95 to 56.0m.

K91-10-02 (continued)

From (m)	To (m)	Lithology Code	Description
66.10	66.25	**Kb**	Rotten/Altered Kimberlite A light orangey coloured broken and difficult to see frozen interval of what appears to be highly altered kimberlite (can see relict olivines) - contacts indistinguishable - possibly gradational?
66.25	68.00	**Sm**	Soft brown mudstone
68.00	69.45	**Kb**	Olivine Lapilli- (Mud Clast-) Breccia: Dark grey brown coloured highly clay altered (mixed with mud) interval with some white carbonate veining/blebs, visible rounded to subangular black mud chips, coarse grained completely altered olivines and lapilli. Contacts again are indistinguishable in the field as core is completely frozen and mud covered.
69.45	70.19	**Sm**	Soft brown mudstone
70.19	70.45	**Kb**	Rotten/Altered Kimberlite Similar to interval from 66.10 to 66.25m
70.45	75.29	**St/Ss**	Silty fine sandstone Overall brownish-light grey, soft and unconsolidated very fine grained sand 72.24 - 72.5 m well indurated light grey cemented fine sandstone with fine bedding
75.29	EOH		End of Hole: Rods got stuck in hole after drill was left unattended from 1pm-7pm (tube was pulled and rods pulled back 7ft off bottom); core barrel and one rod lost in hole.

SHORT LOG OF BOREHOLE LITHOLOGY

Hole I.D.: K91-10-03
Logged by: J. Burgess

Date Start: 27-Feb-10
Date Finish: 28-Feb-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Lithology Code	Description
0.00	15.24	**OB**	Triconed to 50 feet (15.24m) then ran corebarrel ahead of casing; poor recovery, but kimberlite pieces retreived (mixed with OB?, or weathered Kimberlite that washed away?)
15.24	21.00	**Kb**	Grey olivine-rich kimberlite; Olivine Tuff. Very poor recovery where corebarrel was run ahead of casing to find top of bedrock - just a few re-drilled pieces. Weathered top of kimberlite or mixed boulders in washed overburden material?
21.00	51.08	**Kb**	Kimberlite; Olivine Crystal Tuff Massive grey to yellowish-olive green coloured olivine-rich kimberlite exhibiting subtle coarsening downwards sequences on meter(s) scale. Up to 70% olivine in coarse sections: 40% as macrocrysts (round-subround, 3-4mm fresh to partially serpentine-carbonate-iron oxide replaced), 30% olivine phenocrysts (rounded, 0.5mm, fresh to partially to wholly replaced), <5% crustal xenoliths (predominantly mudstone, with minor siltstone and limestone scattered 1+cm, angular-subangular clasts in coarse sections as well as many tiny black and brown mudstone chips). Matrix is fine pale green serpentine with local concentrations of carbonate and finely disseminated pyriteand black oxides (ilmenite?). Abundant garnet, especially in coarser crystal-rich intervals; orange (eclogitic) to ruby red to violet garnet grains, mostly subround to rounded 2-4mm, typically with black fine grained kelyphytic rims. Minor component of olivine-cored lapilli. Section of broken core extends from 47.85m down to mudstone contact; jointing/fracturing at 20° to core axis.

K91-10-03 (continued)

From (m)	To (m)	Lithology Code	Description
			Increasing pervasive iron oxide staining below 50.5 m. Core is generally intact and competent, typically more broken in coarser, more altered intervals, often with associated clay gouge. Lower contact at 40° to core axis; underlying black shale is heavily carbonate veined parallel to contact. Core is generally intact and competent, typically more broken in coarser, more altered intervals, often with associated clay gouge.
51.08	64.60	**Sm**	Mudstone breccia Pyritic mudstone breccia with brecciated sandstone and siltstone interbeds. Dark brown crumbly to soft and sticky mud 52.25-57 m: Lighter grey fine St-rich interval with oxidized pyritic beds with associate vugs / pores. 57-60 m: Soft black mud - can see fine pyrite laths and blebs throughout. 60-63 m: Dark brown mud; core intact but crumbles when handled (conchoidal-fracture) 63.64.6m broken (redrilled?) clay and mud-covered siltstone core pieces; Dark grey with sticky brown clay 64.6-64.9 m: Light yellowish to olive-grey clay-altered
64.60	64.90	**Kb**	Light yellow-olive green soft/sticky clay altered kimberlite (?), with lighter flecks (relict olivine?). Can see possible whole (fresher) olivine and ilmenite grains. Contacts not preserved.
64.90	65.53	**Cy**	Dark grey sticky, sticky clay with very poor recovery.
65.53	EOH		End of hole; unable to proceed effectively through clay interval, so shut hole down.

SHORT LOG OF BOREHOLE LITHOLOGY

Hole I.D.: K91-10-04
Logged by: J. Burgess / D. Ritcey
Date Start: 01-Mar-10
Date Finish: 02-Mar-10

CANTERRA MINERALS CORPORATION

From (m)	To (m)	Lithology Code	Description
0.00	41.08	**OB**	Casing finally set at 100 feet (30.5 m), but cored ahead from 30 feet (9.14 m) yielding 6-plus boxes of recovered overburden material. Mainly dark brown-grey till; increased clay content from 29.0 to 35.7m 32.61 - 35.66 m: Run with poor recovery; 30cm length of sticky olive-grey clay withangular 4 cm Kb fragments (weathered kimberlite boulder). Another Kb fragment observed at 29.17m (misplaced or fell out of end of cored till piece?). 35.66 - 38.71 m: Yellow-brown coloured oxidized (sandy) till 38.71 - 41.08 m: Similar till to top of hole.
41.08	47.85	**Ss**	Light brownish-grey very fine sandstone with silty interbeds at 50-60° to core axis (ranging up to 90). Soft sediment deformation evident as slumped/offset and contorted beds.
47.85	75.28	**Sm**	Transitions to a darker brown and soft/stickier mudstone with fewer silty layers. Fresh clam shell observed at top of interval.
75.28			EOH Hit sand horizon and rods stuck. Pulled back and tried washing and pumping bentonite down. Rods will spin, but as soon as they stop (ie. to re-chuck - even 5sec!) they are stuck. Shut down after conferring with D.Clarke. *Note - missing 127' marker - was mislabeled as 137' so moved all remaining blocks up 10'.
EOH			

SHORT LOG OF BOREHOLE LITHOLOGY

Hole I.D.: K91-10-05
Logged by: D. Ritcey

Date Start: 02-Mar-10
Date Finish: 04-Mar-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Lithology Code	Description
0.00	13.72	**CS**	
13.72	13.85	**OB**	Cored OB; Pebbly clay till
13.85	114.95	**Kb**	Green-grey Kb. Broadly consistent, relatively garnet-rich. Locally up to 5% garnets, e.g. 35.8 to 36.0 m; 85 to 86m, mostly dark red subrounded 1-3 mm, with lesser pink-purple grains with partial kelyphytic rims. Locally "crowded" olivine 4-8 mm. Becomes increasingly blocky and broken below about 102 metres depth; lowermost 1 metre is muddy kimberlitic rubble.
114.95	116.50	**Cy**	Olive green / brown clay.
116.50	117.38	**Ss**	Rusty orange-brown m.g. sandstone (with minor caved fragments of Kb from uphole, as core tube was pulled 3 times from 377 feet to EOH at 385 feet).
EOH			

SHORT LOG OF BOREHOLE LITHOLOGY

Hole I.D.: K91-10-06
Logged by: D. Ritcey

Date Start: 05-Mar-10
Date Finish: 06-Mar-10

CANTERRA MINERALS CORPORATION

From (m)	To (m)	Lithology Code	Description
0.0	25.0	CS	cased overburden (glacial till)
25.0	42.0	Kb	Kimberlite breccia. Light to medium green brecciated Kb with kimberlitic, mantle, and ~15% metasedimentary clasts. Looks "fluidized". Strongly clay altered to 30 metres depth.
42.0	57.0	Kb	Dark green Kb, cut by breccia vein in upper part.
57.0	67.0	Kb	Blue-grey fine-medium Kb with relatively few KIMs. Strongly fractured at low angle to core axis.
67.0	75.0	Kb	Grey-green fluidized breccia as in uppermost unit.
75.0	118.6	Kb	Grey-blue fine-medium grained Kb.
118.6	140.0	St	Sharp, rubbly contact to grey silty mudstone. Trabsitional to unit below, with some dark laminated intervals.
140.0	154.53	Sm	Dark grey mudstone, strongly foliated at 60 degrees to core axis..

GEOTECHNICAL CORE LOG

Hole I.D.: K6-10-01
Logged by: D.Ritcey / S. Berg

Date Start: 02-Feb-10
Date Finish: 07-Feb-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Recovered Length	Recovery %	RQD Length	RQD %	Comment
65.09	66.14	1.05	100.0%	0.73	69.5%	
66.14	69.19	2.96	97.0%	2.06	67.5%	
69.19	72.24	3.05	100.0%	2.06	67.5%	
72.24	75.59	3.04	90.7%	2.20	65.7%	
75.59	78.83	2.88	88.9%	1.56	48.1%	
78.33	81.38	2.92	95.7%	1.67	54.8%	
81.38	84.43	2.95	96.7%	1.53	50.2%	
84.43	87.48	3.05	100.0%	1.92	63.0%	
87.48	90.53	3.03	99.3%	0.96	31.5%	
90.53	93.57	3.05	100.3%	2.09	68.8%	
93.57	96.62	2.96	97.0%	0.79	25.9%	
96.62	99.67	3.05	100.0%	1.68	55.1%	
99.67	102.72	3.03	99.3%	2.07	67.9%	
102.72	105.77	2.82	92.5%	1.63	53.4%	
105.77	108.81	2.89	95.1%	2.20	72.4%	
108.81	111.86	3.00	98.4%	1.95	63.9%	
111.86	114.91	3.05	100.0%	2.38	78.0%	
114.91	117.96	2.96	97.0%	1.94	63.6%	
117.96	121.01	2.88	94.4%	1.77	58.0%	
121.01	124.05	2.93	96.4%	0.97	31.9%	
124.05	127.10	2.98	97.7%	1.54	50.5%	
127.10	130.15	2.92	95.7%	2.41	79.0%	
130.15	133.20	3.03	99.3%	2.46	80.7%	
133.20	136.25	3.02	99.0%	2.16	70.8%	
136.25	139.29	3.05	100.3%	2.12	69.7%	
139.29	142.34	3.05	100.0%	1.91	62.6%	
142.34	145.39	3.05	100.0%	1.56	51.1%	
145.39	148.44	2.97	97.4%	2.24	73.4%	
148.44	151.49	3.05	100.0%	2.35	77.0%	
151.49	154.53	3.05	100.3%	2.48	81.6%	
154.53	157.58	2.89	94.8%	1.60	52.5%	
157.58	160.63	3.10	101.6%	2.06	67.5%	
160.63	163.68	2.98	97.7%	2.36	77.4%	
163.68	166.73	2.93	96.1%	2.12	69.5%	

GEOTECHNICAL CORE LOG

Hole I.D.: K6-10-01
Logged by: D.Ritcey / S. Berg

Date Start: 02-Feb-10
Date Finish: 07-Feb-10

CANTERRA MINERALS CORPORATION

From (m)	To (m)	Recovered Length	Recovery %	RQD Length	RQD %	Comment
166.73	169.77	3.05	100.3%	2.71	89.1%	
169.77	172.82	2.97	97.4%	2.21	72.5%	
172.82	175.87	2.76	90.5%	1.98	64.9%	
175.87	178.92	2.91	95.4%	2.38	78.0%	
178.92	181.97	3.05	100.0%	2.34	76.7%	
181.97	185.01	3.05	100.3%	1.44	47.4%	
185.01	188.06	2.24	73.4%	0.40	13.1%	
188.06	191.11	3.05	100.0%	0.96	31.5%	
191.11	194.16	3.05	100.0%	2.37	77.7%	
194.16	197.21	3.32	108.9%	2.20	72.1%	EOH

GEOTECHNICAL CORE LOG

Hole I.D.: K6-10-02
Logged by: S.Berg/ R. Ritcey

Date Start: 07-Feb-10
Date Finish: 11-Feb-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Recovered Length	Recovery %	RQD Length	RQD %	Comment
66.14	87.48	5.37	25.2%	2.15	10.1%	
87.48	90.53	3.05	100.0%	1.82	59.7%	
90.53	93.57	1.83	60.2%	0.18	5.9%	
93.57	96.62	2.75	90.2%	1.54	50.5%	
96.62	99.67	3.15	103.3%	0.97	31.8%	
99.67	102.72	3.01	98.7%	1.33	43.6%	
102.72	105.77	3.05	100.0%	1.46	47.9%	
105.77	108.81	3.05	100.3%	1.52	50.0%	
108.81	111.86	2.93	96.1%	1.23	40.3%	
111.86	114.91	2.85	93.4%	1.58	51.8%	
114.91	117.96	3.05	100.0%	1.05	34.4%	
117.96	121.01	2.40	78.7%	0.67	22.0%	
121.01	124.05	2.06	67.8%	0	0.0%	
124.05	127.10	2.48	81.3%	0.43	14.1%	
127.10	130.15	2.06	67.5%	0	0.0%	
130.15	133.20	1.80	59.0%	0	0.0%	
133.20	136.25	4.24	139.0%	0	0.0%	
136.25	139.29	2.14	70.4%	0.53	17.4%	
139.29	142.34	2.86	93.8%	0.88	28.9%	
142.34	145.39	3.05	100.0%	0.97	31.8%	
145.39	148.44	1.96	64.3%	0.54	17.7%	EOH

GEOTECHNICAL CORE LOG

Hole I.D.: K5-10-01
Logged by: S.Berg / D.Ritcey

Date Start: 12-Feb-10
Date Finish: 16-Feb-10

CANTERRA MINERALS CORPORATION

From (m)	To (m)	Recovered Length	Recovery %	RQD Length	RQD %	Comment
6.10	8.23	1.95	91.5%	0	0.0%	
8.23	11.28	2.65	86.9%	0.14	4.6%	
11.28	14.33	2.91	95.4%	0.54	17.7%	
14.33	17.37	3.05	100.3%	0.96	31.6%	
17.37	20.42	3.05	100.0%	1.23	40.3%	
20.42	23.47	2.95	96.7%	1.96	64.3%	
23.47	26.52	3.05	100.0%	1.25	41.0%	
26.52	29.57	3.05	100.0%	1.45	47.5%	
29.57	32.61	3.05	100.3%	1.54	50.7%	
32.61	35.66	3.05	100.0%	1.28	42.0%	
35.66	38.71	3.05	100.0%	1.90	62.3%	
38.71	41.76	3.05	100.0%	1.47	48.2%	
41.76	44.80	3.05	100.3%	0.90	29.6%	
44.80	47.85	2.95	96.7%	1.30	42.6%	
47.85	50.90	3.05	100.0%	1.58	51.8%	
50.90	53.95	3.05	100.0%	1.72	56.4%	
53.95	57.00	3.06	100.3%	1.75	57.4%	
57.00	60.05	3.05	100.0%	1.65	54.1%	
60.05	63.09	3.05	100.3%	1.38	45.4%	
63.09	66.14	3.05	100.0%	1.36	44.6%	
66.14	69.19	3.05	100.0%	1.20	39.3%	
69.19	72.24	3.05	100.0%	1.19	39.0%	
72.24	75.29	2.92	95.7%	0.58	19.0%	
75.29	78.33	2.95	97.0%	1.70	55.9%	
78.33	81.38	3.05	100.0%	1.87	61.3%	
81.38	84.43	3.05	100.0%	1.54	50.5%	
84.43	87.48	3.05	100.0%	1.76	57.7%	
87.48	90.53	2.97	97.4%	1.37	44.9%	
90.53	93.57	3.05	100.3%	0.98	32.2%	
93.57	96.62	2.87	94.1%	0.62	20.3%	
96.62	99.67	3.05	100.0%	2.00	65.6%	
99.67	102.72	2.88	94.4%	0.98	32.1%	
102.72	105.77	2.94	96.4%	2.22	72.8%	
105.77	108.81	3.05	100.3%	1.20	39.5%	

GEOTECHNICAL CORE LOG

Hole I.D.: K5-10-01
Logged by: S.Berg / D.Ritcey

Date Start: 12-Feb-10
Date Finish: 16-Feb-10

CANTERRA MINERALS CORPORATION

From (m)	To (m)	Recovered Length	Recovery %	RQD Length	RQD %	Comment
108.81	111.86	3.05	100.0%	1.67	54.8%	
111.86	114.91	3.05	100.0%	2.54	83.3%	
114.91	117.96	2.97	97.4%	1.52	49.8%	
117.96	121.01	3.05	100.0%	0.59	19.3%	
121.01	124.05	2.97	97.7%	0.35	11.5%	
124.05	127.10	3.05	100.0%	1.44	47.2%	
127.10	130.15	2.94	96.4%	1.08	35.4%	
130.15	133.20	3.05	100.0%	1.77	58.0%	
133.20	136.25	3.05	100.0%	1.44	47.2%	
136.25	139.29	2.56	84.2%	0.58	19.1%	
139.29	142.34	3.05	100.0%	0.88	28.9%	
142.34	145.39	2.73	89.5%	0	0.0%	
145.39	148.44	2.42	79.3%	0	0.0%	
148.44	151.49	2.97	97.4%	0	0.0%	
151.49	154.53	2.08	68.4%	0	0.0%	
154.53	157.58	1.77	58.0%	0	0.0%	End Of Hole

GEOTECHNICAL CORE LOG

Hole I.D.: K5-10-02
Logged by: S. Berg

Date Start: 16-Feb-10
Date Finish: 18-Feb-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Recovered Length	Recovery %	RQD Length	RQD %	Comment
42.67	44.81	2.25	105.1%	0.77	36.0%	
44.81	47.85	3.05	100.3%	0.92	30.3%	
47.85	50.90	2.68	87.9%	0.97	31.8%	
50.90	53.95	3.05	100.0%	0.63	20.7%	
53.95	57.00	3.05	100.0%	0	0.0%	
57.00	60.05	3.05	100.0%	0.22	7.2%	
60.05	63.09	2.78	91.4%	0.20	6.6%	
63.09	66.14	3.05	100.0%	0	0.0%	
66.14	69.19	2.96	97.0%	0	0.0%	
69.19	72.24	3.00	98.4%	0	0.0%	
72.24	75.29	2.87	94.1%	0	0.0%	
75.29	78.33	3.05	100.3%	0	0.0%	
78.33	81.38	2.87	94.1%	0	0.0%	
81.38	84.43	3.17	103.9%	0	0.0%	
84.43	87.48	2.85	93.4%	0	0.0%	
87.48	90.53	2.97	97.4%	0	0.0%	
90.53	93.57	2.89	95.1%	0	0.0%	
93.57	96.62	2.92	95.7%	0	0.0%	
96.62	99.67	2.88	94.4%	0	0.0%	
99.67	102.72	2.83	92.8%	0	0.0%	
102.72	105.77	2.95	96.7%	0	0.0%	
105.77	108.81	2.81	92.4%	0	0.0%	
108.81	111.86	2.76	90.5%	0	0.0%	
111.86	114.91	3.07	100.7%	0	0.0%	
114.91	117.96	2.87	94.1%	0	0.0%	
117.96	121.01	3.05	100.0%	0	0.0%	
121.01	122.84	1.83	100.0%	0	0.0%	EOH

GEOTECHNICAL CORE LOG

Hole I.D.: K5-10-02A
Logged by: S. Berg

Date Start: 18-Feb-10
Date Finish: 18-Feb-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Recovered Length	Recovery %	RQD Length	RQD %	Comment
10.67	14.33	0.82	22.4%	0.14	3.8%	
14.33	17.37	1.48	48.7%	0.11	3.6%	
17.37	20.42	1.97	64.6%	0.34	11.1%	EOH

GEOTECHNICAL CORE LOG

Hole I.D.: K5-10-03
Logged by: S.Berg

Date Start: 18-Feb-10
Date Finish: 21-Feb-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Recovered Length	Recovery %	RQD Length	RQD %	Comment
17.00	17.37	0.37	100.0%	0	0.0%	
17.37	20.42	1.03	33.8%	0	0.0%	
20.42	23.47	0.51	16.7%	0	0.0%	
23.47	26.52	0.47	15.4%	0	0.0%	
26.52	29.57	0.68	22.3%	0	0.0%	
29.57	32.61	2.51	82.6%	0	0.0%	
32.61	35.66	1.88	61.6%	0	0.0%	
35.66	38.71	2.13	69.8%	0	0.0%	
38.71	41.76	3.05	100.0%	0	0.0%	
41.76	44.81	2.97	97.4%	0.44	14.4%	
44.81	47.85	2.96	97.4%	0.83	27.3%	
47.85	50.90	3.05	100.0%	0.97	31.8%	
50.90	53.95	2.26	74.1%	0.74	24.3%	
53.95	57.00	2.86	93.8%	0.10	3.3%	
57.00	60.05	3.05	100.0%	0.84	27.5%	
60.05	63.10	2.16	70.8%	0.67	22.0%	
63.10	66.14	2.84	93.4%	0.45	14.8%	
66.14	69.19	3.05	100.0%	0.26	8.5%	
69.19	72.24	3.05	100.0%	0.40	13.1%	
72.24	75.29	3.05	100.0%	0.51	16.7%	
75.29	78.33	2.95	97.0%	0.28	9.2%	
78.33	81.38	2.91	95.4%	0.42	13.8%	
81.38	84.43	3.05	100.0%	0.76	24.9%	
84.43	87.48	3.05	100.0%	0.17	5.6%	
87.48	90.53	3.05	100.0%	0.88	28.9%	
90.53	93.57	1.62	53.3%	0	0.0%	
93.57	96.62	3.15	103.3%	0	0.0%	
96.62	99.67	2.85	93.4%	0	0.0%	
99.67	102.72	2.10	68.9%	0	0.0%	
102.72	105.77	3.05	100.0%	0	0.0%	
105.77	108.81	3.05	100.3%	0	0.0%	
108.81	111.86	3.13	102.6%	0	0.0%	
111.86	114.91	3.11	102.0%	0	0.0%	
114.91	117.96	2.84	93.1%	0	0.0%	

GEOTECHNICAL CORE LOG

Hole I.D.: K5-10-03
Logged by: S.Berg

Date Start: 18-Feb-10
Date Finish: 21-Feb-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Recovered Length	Recovery %	RQD Length	RQD %	Comment
117.96	121.01	2.82	92.5%	0	0.0%	
121.01	124.05	3.05	100.3%	0	0.0%	
124.05	127.10	2.74	89.8%	0	0.0%	
127.10	130.15	3.15	103.3%	0	0.0%	
130.15	133.20	3.20	104.9%	0	0.0%	
133.20	136.25	3.00	98.4%	0	0.0%	
136.25	139.29	2.95	97.0%	0	0.0%	
139.29	142.34	3.22	105.6%	0	0.0%	
142.34	145.39	2.84	93.1%	0	0.0%	EOH

GEOTECHNICAL CORE LOG

Hole I.D.: K5-10-04
Logged by: S. Berg

Date Start: 21-Feb-10
Date Finish: 23-Feb-10

CANTERRA MINERALS CORPORATION

From (m)	To (m)	Recovered Length	Recovery %	RQD Length	RQD %	Comment
38.41	38.71	0.30	100.0%	0	0.0%	
38.71	41.76	1.70	55.7%	0	0.0%	
41.76	44.81	1.62	53.1%	0	0.0%	
44.81	47.85	2.71	89.1%	0	0.0%	
47.85	50.90	2.13	69.8%	0.61	20.0%	
50.90	53.95	2.41	79.0%	0.12	3.9%	
53.95	57.00	1.90	62.3%	0	0.0%	
57.00	60.05	1.63	53.4%	0	0.0%	
60.05	63.10	1.66	54.4%	0	0.0%	
63.10	66.14	1.93	63.5%	0	0.0%	
66.14	69.19	2.18	71.5%	0	0.0%	
69.19	72.23	1.89	62.2%	0	0.0%	
72.23	75.29	2.54	83.0%	0.51	16.7%	
75.29	78.33	2.59	85.2%	0	0.0%	
78.33	81.38	3.05	100.0%	1.13	37.0%	
81.38	84.43	3.05	100.0%	0	0.0%	
84.43	87.48	2.66	87.2%	0	0.0%	
87.48	90.52	3.05	100.3%	0	0.0%	
90.52	93.57	3.10	101.6%	0	0.0%	
93.57	96.62	2.98	97.7%	0	0.0%	
96.62	99.67	2.72	89.2%	0	0.0%	
99.67	102.72	3.07	100.7%	0	0.0%	
102.72	105.70	2.65	88.9%	0	0.0%	
105.70	108.81	2.89	92.9%	0	0.0%	
108.81	111.86	3.05	100.0%	0	0.0%	
111.86	114.91	2.91	95.4%	0	0.0%	
114.91	117.96	3.18	104.3%	0	0.0%	
117.96	121.01	2.83	92.8%	0	0.0%	
121.01	124.05	3.05	100.3%	0	0.0%	
124.05	127.10	3.16	103.6%	0	0.0%	
127.10	130.15	2.91	95.4%	0	0.0%	
130.15	133.20	3.08	101.0%	0	0.0%	
133.20	136.25	3.02	99.0%	0	0.0%	
136.25	139.29	3.05	100.3%	0	0.0%	

GEOTECHNICAL CORE LOG

Hole I.D.: K5-10-04
Logged by: S. Berg

Date Start: 21-Feb-10
Date Finish: 23-Feb-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Recovered Length	Recovery %	RQD Length	RQD %	Comment
139.29	142.34	3.09	101.3%	0	0.0%	
142.34	145.39	3.01	98.7%	0	0.0%	
145.39	148.44	3.18	104.3%	0	0.0%	
148.44	151.49	3.22	105.6%	0	0.0%	EOH

GEOTECHNICAL CORE LOG

Hole I.D.: K91-10-01
Logged by: S.Berg

Date Start: 23-Feb-10
Date Finish: 25-Feb-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Recovered Length	Recovery %	RQD Length	RQD %	Comment
21.16	21.36	0.20	100.0%	0	0.0%	
21.36	23.47	1.75	82.9%	0.35	16.6%	
23.47	26.52	2.27	74.4%	0.32	10.5%	
26.52	29.57	1.88	61.6%	0.70	23.0%	
29.57	32.61	1.62	53.3%	0.78	25.7%	
32.61	35.66	1.94	63.6%	0	0.0%	
35.66	38.71	3.15	103.3%	0	0.0%	
38.71	41.76	2.66	87.2%	0	0.0%	
41.76	44.81	2.79	91.5%	0	0.0%	
44.81	47.85	2.95	97.0%	0	0.0%	
47.85	50.90	2.92	95.7%	0	0.0%	
50.90	53.95	3.10	101.6%	0	0.0%	
53.95	57.00	3.11	102.0%	0	0.0%	
57.00	60.05	3.02	99.0%	0	0.0%	
60.05	63.09	1.95	64.1%	0	0.0%	
63.09	66.14	3.05	100.0%	0	0.0%	
66.14	69.19	2.90	95.1%	0	0.0%	
69.19	72.24	2.48	81.3%	0	0.0%	
72.24	75.29	3.02	99.0%	0	0.0%	
75.29	78.33	2.71	89.1%	0	0.0%	
78.33	81.38	1.51	49.5%	0	0.0%	EOH

GEOTECHNICAL CORE LOG

Hole I.D.: K91-10-02
Logged by: S.Berg

Date Start: 25-Feb-10
Date Finish: 27-Feb-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Recovered Length	Recovery %	RQD Length	RQD %	Comment
17.37	20.42	0.19	6.2%	0	0.0%	
20.42	23.47	0.59	19.3%	0.00	0.0%	
23.47	26.52	1.62	53.1%	0.00	0.0%	
26.52	29.57	2.61	85.6%	0.64	21.0%	
29.57	32.61	2.94	96.7%	1.98	65.1%	
32.61	35.66	2.44	80.0%	0	0.0%	
35.66	38.71	3.14	103.0%	0	0.0%	
38.71	41.76	2.81	92.1%	0	0.0%	
41.76	44.81	2.26	74.1%	0	0.0%	
44.81	47.85	2.66	87.5%	0	0.0%	
47.85	50.90	2.91	95.4%	0	0.0%	
50.90	53.95	2.69	88.2%	0	0.0%	
53.95	57.00	2.90	95.1%	0	0.0%	
57.00	60.05	2.86	93.8%	0	0.0%	
60.05	63.09	2.57	84.5%	0	0.0%	
63.09	66.14	2.68	87.9%	0	0.0%	
66.14	69.19	2.80	91.8%	0	0.0%	
69.19	72.40	2.61	81.3%	0.13	4.0%	
72.40	75.29	3.05	105.5%	0.15	5.2%	EOH

GEOTECHNICAL CORE LOG

Hole I.D.: K91-10-03
Logged by: S.Berg

Date Start: 02-Mar-10
Date Finish: 04-Mar-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Recovered Length	Recovery %	RQD Length	RQD %	Comment
20.42	23.47	2.10	68.9%	1.02	33.4%	
23.47	26.52	2.64	86.6%	2.39	78.4%	
26.52	29.57	2.21	72.5%	2.13	69.8%	
29.57	32.61	2.55	83.9%	1.73	56.9%	
32.61	35.66	2.95	96.7%	2.19	71.8%	
35.66	38.71	2.62	85.9%	1.54	50.5%	
38.71	41.76	2.24	73.4%	0.81	26.6%	
41.76	44.81	2.96	97.0%	2.14	70.2%	
44.81	47.85	2.60	85.5%	1.74	57.2%	
47.85	50.90	2.54	83.3%	0.13	4.3%	
50.90	53.95	1.91	62.6%	0	0.0%	
53.95	57.00	2.92	95.7%	0	0.0%	
57.00	60.05	2.80	91.8%	0	0.0%	
60.05	63.09	2.73	89.8%	0	0.0%	
63.09	65.53	2.08	85.2%	0	0.0%	EOH

GEOTECHNICAL CORE LOG

Hole I.D.: K91-10-04
Logged by: S.Berg

Date Start: 01-Mar-10
Date Finish: 02-Mar-10

CANTERRA MINERALS CORPORATION

From (m)	To (m)	Recovered Length	Recovery %	RQD Length	RQD %	Comment
11.28	14.33	1.36	44.6%	0	0.0%	
14.33	17.37	2.24	73.7%	0	0.0%	
17.37	20.42	1.21	39.7%	0	0.0%	
20.42	23.47	2.05	67.2%	0	0.0%	
23.47	26.52	2.37	77.7%	0	0.0%	
26.52	29.57	1.98	64.9%	0	0.0%	
29.57	32.61	0.20	6.6%	0	0.0%	
32.61	35.66	0.42	13.8%	0	0.0%	
35.66	38.71	3.00	98.4%	0	0.0%	
38.71	41.76	2.72	89.2%	0	0.0%	
41.76	44.81	2.88	94.4%	0	0.0%	
44.81	47.85	3.00	98.7%	0	0.0%	
47.85	50.90	2.91	95.4%	0	0.0%	
50.90	53.95	2.90	95.1%	0	0.0%	
53.95	57.00	2.97	97.4%	0	0.0%	
57.00	60.05	2.73	89.5%	0	0.0%	
60.05	63.10	2.69	88.2%	0	0.0%	
63.10	66.14	2.71	89.1%	0	0.0%	
66.14	69.19	2.28	74.8%	0	0.0%	
69.19	72.24	2.89	94.8%	0	0.0%	EOH

GEOTECHNICAL CORE LOG

Hole I.D.: K91-10-05
Logged by: S.Berg

Date Start: 02-Mar-10
Date Finish: 04-Mar-10

CANTERRA MINERALS CORPORATION

From (m)	To (m)	Recovered Length	Recovery %	RQD Length	RQD %	Comment
13.72	14.33	0.93	152.5%	0.11	18.0%	
14.33	17.37	2.78	91.4%	1.02	33.6%	
17.37	20.42	2.71	88.9%	1.26	41.3%	
20.42	23.47	3.05	100.0%	1.54	50.5%	
23.47	26.52	2.89	94.8%	1.34	43.9%	
26.52	29.57	3.05	100.0%	1.39	45.6%	
29.57	32.61	3.05	100.3%	1.62	53.3%	
32.61	35.66	2.02	66.2%	1.77	58.0%	
35.66	38.71	3.05	100.0%	0.92	30.2%	
38.71	41.76	2.33	76.4%	0.31	10.2%	
41.76	44.81	2.39	78.4%	1.13	37.0%	
44.81	47.85	3.02	99.3%	0.47	15.5%	
47.85	50.90	3.05	100.0%	0.98	32.1%	
50.90	53.95	2.76	90.5%	0.82	26.9%	
53.95	57.00	2.87	94.1%	0.84	27.5%	
57.00	60.05	2.88	94.4%	1.95	63.9%	
60.05	63.10	3.05	100.0%	1.75	57.4%	
63.10	66.14	2.91	95.7%	1.28	42.1%	
66.14	69.19	2.55	83.6%	1.31	43.0%	
69.19	72.24	2.95	96.7%	1.72	56.4%	
72.24	75.29	2.89	94.8%	1.68	55.1%	
75.29	78.33	3.05	100.3%	0.57	18.8%	
78.33	81.38	3.05	100.0%	0.67	22.0%	
81.38	84.42	2.89	95.1%	1.62	53.3%	
84.42	87.48	2.97	97.1%	0.57	18.6%	
87.48	90.52	2.77	91.1%	0.71	23.4%	
90.52	93.57	2.96	97.0%	1.89	62.0%	
93.57	96.62	3.05	100.0%	1.43	46.9%	
96.62	99.67	2.94	96.4%	0.90	29.5%	
99.67	102.72	2.75	90.2%	0.41	13.4%	
102.72	105.77	2.36	77.4%	0.40	13.1%	
105.77	108.81	2.71	89.1%	0.12	3.9%	
108.81	111.86	3.05	100.0%	0	0.0%	
111.86	114.91	2.92	95.7%	0.44	14.4%	
114.91	117.38	2.30	93.1%	0.00	0.0%	EOH

GEOTECHNICAL CORE LOG

Hole I.D.: K91-10-06
Logged by: S.Berg / D. Ritcey

Date Start: 04-Mar-10
Date Finish: 06-Mar-10

CANTERRA MINERALS CORPORATION

From (m)	To (m)	Recovered Length	Recovery %	RQD Length	RQD %	Comment
25.91	26.52	1.72	282.0%	0.27	44.3%	
26.52	29.57	3.05	100.0%	1.31	43.0%	
29.57	32.61	3.05	100.3%	1.82	59.9%	
32.61	35.66	3.05	100.0%	1.74	57.0%	
35.66	38.71	3.05	100.0%	1.25	41.0%	
38.71	41.76	3.05	100.0%	1.03	33.8%	
41.76	44.81	2.91	95.4%	0.62	20.3%	
44.81	47.85	3.05	100.3%	1.12	36.8%	
47.85	50.90	2.65	86.9%	1.44	47.2%	
50.90	53.95	3.05	100.0%	0.75	24.6%	
53.95	57.00	2.62	85.9%	0.92	30.2%	
57.00	60.05	2.64	86.6%	0.60	19.7%	
60.05	63.09	2.88	94.7%	0.79	26.0%	
63.09	66.14	2.61	85.6%	0.80	26.2%	
66.14	69.19	2.93	96.1%	1.55	50.8%	
69.19	72.24	2.95	96.7%	2.03	66.6%	
72.24	75.29	2.94	96.4%	2.31	75.7%	
75.29	78.33	2.70	88.8%	0.75	24.7%	
78.33	81.38	3.05	100.0%	0.62	20.3%	
81.38	84.43	3.05	100.0%	0.50	16.4%	
84.43	87.48	2.81	92.1%	0.32	10.5%	
87.48	90.53	3.05	100.0%	1.62	53.1%	
90.53	93.57	2.81	92.4%	1.39	45.7%	
93.57	96.62	2.68	87.9%	1.15	37.7%	
96.62	99.67	3.05	100.0%	0.84	27.5%	
99.67	102.72	3.05	100.0%	1.55	50.8%	
102.72	105.77	3.00	98.4%	1.58	51.8%	
105.77	108.81	2.00	65.8%	1.60	52.6%	
108.81	111.86	3.05	100.0%	1.37	44.9%	
111.86	114.91	2.98	97.7%	1.20	39.3%	
114.91	117.96	2.96	97.0%	0.26	8.5%	
117.96	121.01	2.94	96.4%	0.16	5.2%	
121.01	124.05	2.86	94.1%	0.00	0.0%	
124.05	127.10	3.05	100.0%	0.00	0.0%	
127.10	130.15	3.05	100.0%	0.00	0.0%	

GEOTECHNICAL CORE LOG

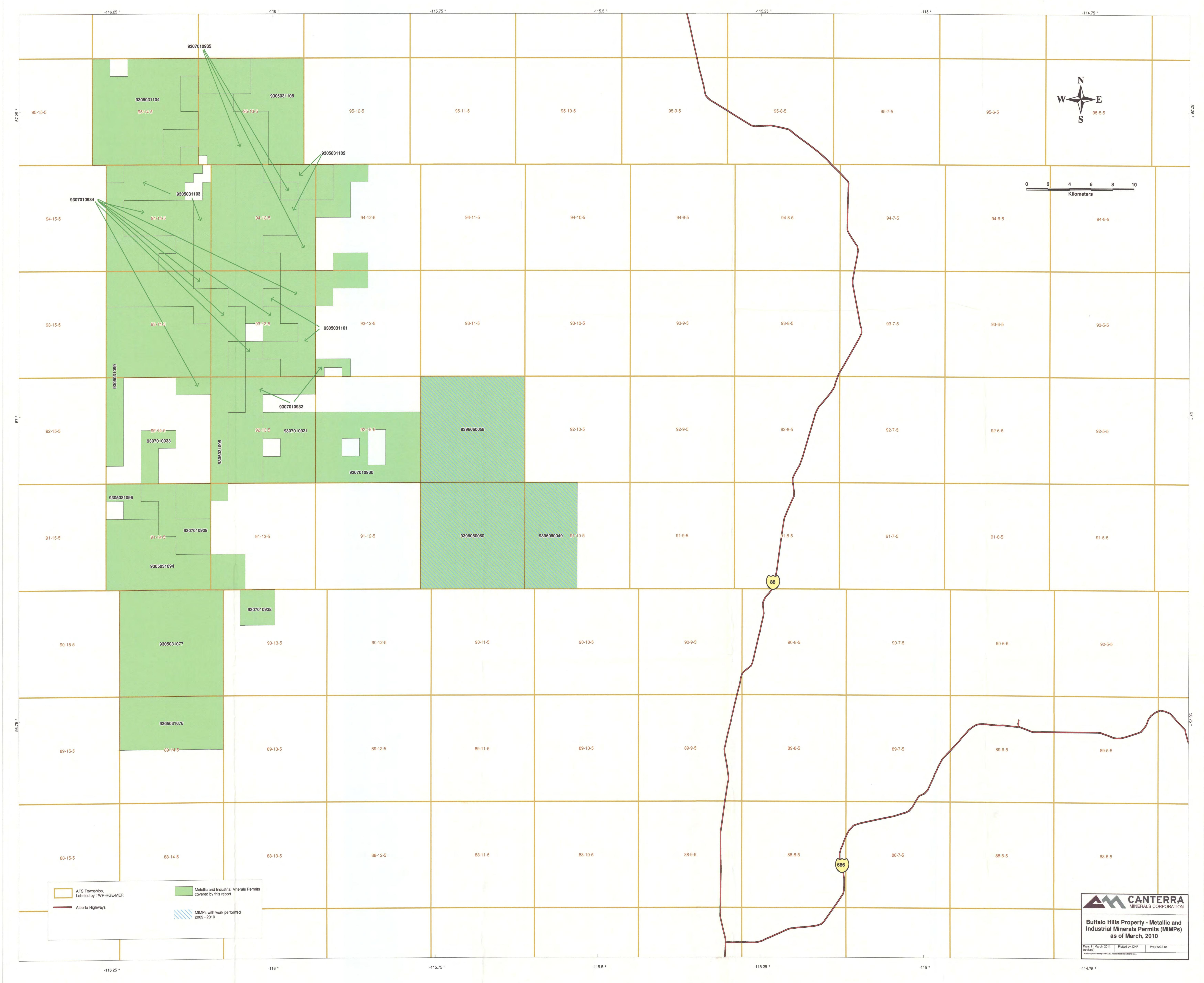
Hole I.D.: K91-10-06
Logged by: S.Berg / D. Ritcey

Date Start: 04-Mar-10
Date Finish: 06-Mar-10

CANTERRA
MINERALS CORPORATION

From (m)	To (m)	Recovered Length	Recovery %	RQD Length	RQD %	Comment
130.15	133.20	3.05	100.0%	0.00	0.0%	
133.20	136.25	3.10	101.6%	0.00	0.0%	
136.25	139.29	2.12	69.7%	0.00	0.0%	
139.29	142.34	3.25	106.6%	0.00	0.0%	
142.34	145.39	3.05	100.0%	0.00	0.0%	
145.39	148.44	3.05	100.0%	0.00	0.0%	
148.44	151.49	3.00	98.4%	0.00	0.0%	
151.49	154.53	3.11	102.3%	0.00	0.0%	EOH

APPENDIX C: EXPLORATION PERMIT LOCATION MAP



9307010935
9305031104
9305031108
9305031102
9305031103
9307010934
9305031101
9305031099
9307010932
9307010933
9305031095
9307010931
9307010930
9396060058
9305031096
9307010929
9305031094
9396060050
9396060049
9307010928
9305031077
9305031076
88
686
N
W
E
S
0 2 4 6 8 10
Kilometers
ATS Townships,
Labeled by TWP-RGE-MER
Alberta Highways
Metallic and Industrial Minerals Permits covered by this report
MIMPs with work performed 2009 - 2010
CANTERRA
MINERALS CORPORATION
Buffalo Hills Property - Metallic and Industrial Minerals Permits (MIMPs) as of March, 2010
Date: 11 March, 2011 (revised)
Plotted by: DHR
Proj: WGS 84
K:\Workspaces\11Maps\AB\2010 Assessment Report revisions...