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The Association of Professional Engineers,  
Geologists and Geophysicists of Alberta

**COMMERCE RESOURCES CORP.**

**2001 GEOLOGIC MAPPING, SAMPLING, AND  
GEOPHYSICAL SURVEYS  
ON THE MARA PROPERTY**

**NORTH OF BLUE RIVER, BRITISH COLUMBIA  
(KAMLOOPS MINING DIVISION)**

**CLAIMS: MARA 1 to 7**

**Geographic Coordinates**

**52° 24' N  
119° 09' W**

**NTS Sheet 83 D/6**

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**Date Submitted:** 2001 12 20

**GEOLOGICAL SURVEY BRANCH  
ASSESSMENT UNIT**

**26,733**

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## INTRODUCTION

Throughout this report the term Mara Property refers to the Mara 1 through 7 mineral claims, which encompass a majority of the Tantalum-Niobium-Phosphate bearing Verity-Paradise Carbonatite Complex (VPCC), about 40 km south of Valemount, British Columbia. These claims were acquired to cover the eastern extension of the Verity Carbonatite Sill, which is located within the Verity 1 thru 12 mineral claims, adjacent to and west of the Mara Property. The Mara claims were acquired by Commerce Resources Corp., during August, 2000.

Between May 2 and August 15, 2001, Commerce Resources Corp. conducted geologic mapping, collected five rock samples and nine pan concentrates, established about 29.53 line-km of grid, and conducted about 29.53 line-km of ground magnetic surveys and about 9.04 line-km of ground radiometric surveys at the Mara Property. Also, in preparation for drilling of the Verity-Paradise Carbonatite Complex, about 2.7 km of old logging roads and skidder trails were rehabilitated, to make them suitable for access by drill-equipment and four-wheel-drive vehicles. As work was conducted simultaneously on the adjacent Verity Property, assessment work and information included herein, is restricted to that completed within the Mara group of claims. The work was authorized by Commerce Resources Corp.

Throughout this report attitudes of bedding and other planar features are given as  $A^{\circ}/B^{\circ}$  SW, where  $A^{\circ}$  is the azimuth of the strike and  $B^{\circ}$  is the amount of dip in the direction indicated. A magnetic declination of  $20\frac{1}{2}^{\circ}$  east was used.

### 1.1 GEOGRAPHIC SETTING

#### 1.1.1 Location and Access

The Mara Property, which encompasses a majority of the Verity-Paradise Carbonatite Complex (VPCC), is located in North Thompson River valley of east-central B.C. (Fig. 1.1), within NTS map area 83 D/6. The VPCC is centred at about  $52^{\circ} 24'$  north latitude between  $119^{\circ} 05'$  to  $119^{\circ} 09'$  longitude. A second carbonatite, Mill, is within the northwest part of the property.

The property is accessible from B.C. Highway 5 (Yellowhead South Highway) and is approximately 56 km south of Valemount, British Columbia and about 38 km north of Blue River. Limited supplies and accommodations are available at both locations. The main line of the Canadian National Railway passes through the western part of the property. The VPCC is accessible from Serpentine Creek logging road, which branches from Highway 5 about 35 km south of Valemount.



### 1.1.2 Topography, Vegetation, Climate and Geographic Names

The Mara Property is between 880 m and 2300 m elevation above sea level. It is located along the steep western slopes of the Monashee Mountains. The peak immediately to the east of the Mara Property attains an elevation of about 2725 m.

Several names have previously been applied to various components of the VPCC, which forms a crescent shaped body, with the open end to the south. It has been traced by intermittent surface sampling and ground geophysics along a total strike length of about 7,000 m. Its western end, near the Specimen and Columbite Pits, has historically been termed the Verity Carbonatite Sill. To the east, near Paradise Lake, outcrops of both carbonatite and nepheline-syenite have been referred to as Paradise. A new carbonatite occurrence, termed Roadside, was recently discovered about 1,750 m southwest and along trend from the Paradise area.

The steep slopes at the Mara Property are typically covered by thick undergrowth consisting of buckbrush, devil's club, and huckleberry. Areas not affected by recent logging are covered by dense stands of hemlock, cedar, fir, and white pine. Timber line is about 2,000 m elevation. Precipitation averages about 50 inches per year, and snowfall is generally heavy.

## 1.2 PROPERTY

The property is held under 7 contiguous 4-post mineral claims (Mara 1 to 7) which encompass about 14¾ km<sup>2</sup>, within Kamloops Mining Division. The claims are held 100 per cent by Commerce Resources Corp.

**TABLE 1.1 LIST OF MINERAL CLAIMS**

Claim Name	Tenure Number	Units/Claim	Record Date	Actual or Expected Expiry Date
MARA 1	380030	20	37118	40770
MARA 2	380031	8	37118	40770
MARA 3	380032	20	37118	40770
MARA 4	380033	8	37118	40770
MARA 5	380034	1	37118	40770
MARA 6	380035	1	37118	40770
MARA 7	380036	1	37118	40770
	Totals	59		

### 1.3 HISTORY AND PREVIOUS INVESTIGATIONS

During 2001, McCrea conducted an extensive review of exploration of the Verity Carbonatite, on behalf of Commerce Resources Corp. Most of the work described by McCrea (2001, p. 6) was directed at locating economic concentrations of Tantalum, Niobium, Phosphate, Uranium, and/or Vermiculite within the VPCC.

"During 1949 Mr. Oliver E. French discovered a vermiculite-bearing carbonate rock near Blue River (Mariano, 1982). Several claims were staked in 1950 (McCammon, 1950), and subsequent trenching showed the vermiculite to occur in association with interbedded coarse limestone (carbonatite) and gneiss. Zonalite Corporation examined the property and determined that it did not have economic potential.

In 1951 Mr. French discovered a radioactive, dolomitic rock with accessory apatite, magnetite and zircon. After determining that the sample contained radioactive pyrochlore, the B.C. Department of Mines assayed the sample, which contained about 17,000 g/t  $Nb_2O_5 + Ta_2O_5$  and 2,000 g/t  $U_3O_8$  (Mariano, 1982). In 1952, following the discovery of the pyrochlore-bearing dolomitized limestone (carbonatite), St. Eugene Mining Corporation Ltd. optioned the property (McCammon, 1952). Between 1952 and 1955, they conducted geologic mapping, prospecting, stripping and trenching, and sampling ...

In August 1967 Anthony Rich staked the Paradise Group to the east of the known carbonatite showings. During August 1968 Anthony Rich, Dr. J.A. Gower, Dr. A.N. Mariano and J.J. Barakso completed reconnaissance geological mapping of an area south of Paradise Lake. This area included locations with occurrences of sovite, before-site, pegmatite and granulite.

In 1976, the area was re-staked by John Kruszewski as the Verity and AR claims; additional stripping and trenching, and ground geophysical surveys were completed (Jackson et al., 1978 and Ahroon, 1980). Under the direction of E. Meyers (1977) a magnetometer and scintillometer survey was completed in November 1977, and a trenching and sampling program in July 1978. The work was primarily directed at the discovery of uranium as the 'Paradise Creek Uranium-Columbium Prospect'.

In 1980 Anschutz (Canada) Mining Ltd. optioned the property from John Kruszewski, primarily for its tantalum and niobium potential. An aggressive exploration program was initiated in 1980, and resulted in the discovery of the Fir and Bone Creek carbonatites which were in addition to the Mill, Paradise and Verity carbonatites. Exploration work included 13 NQ holes totalling 470.3 m at Verity, 7 NQ holes totalling 207.9 m at Mill, and 11 NQ holes totalling 311.8 m at Bone Creek ....

During 1981, Anschutz (Canada) Mining Ltd., completed an additional 2,964.9 m of drilling at the Fir, Mill and Verity carbonatites (Aquist, 1982a; ...). Based primarily upon the 1980 and 1981 drill programs Aquist (1982a, p.1) concluded

"The carbonatite occurrences at Blue River, British Columbia have the highest tantalum concentrations of any carbonatite in the world."

During 1982, Aquist (1982b) conducted an economic assessment of the property, which included a discussion of the central parts of the Verity-Paradise Complex (Aquist, 1982b; p. 12)

"... A number of samples in the carbonatites in Areas I-V had tantalum values of 340 ppm to 540 ppm, but the zones do not appear to be continuous, nor are they very thick.

Also,

" The Verity area, that was drilled in 1981, is the best defined and most continuous zone of carbonatite to date. About 2.13 million tons averaging 0.02% Ta<sub>2</sub>O<sub>5</sub> and 0.126% Nb<sub>2</sub>O<sub>5</sub> occur in the area..."

The foregoing Historical Estimate ... was completed by Aaquist (1982b) utilizing a polygonal method for resource estimation. The estimate did not include an area of significant carbonatite, along the subcrop, north of the 1980 and 1981 drilling. In addition, his two-dimensional polygons may not have accurately reflected the geometry and small-scale variability of the sill. In addition, Aaquist (1982b) was not independent of the Anschutz Mining (Canada) Ltd., hence his estimates do not conform with NI 43-101. In spite of the foregoing, the estimates appear reasonable. ...

...Upon completion of the 1982 exploration, it was recommended that the properties were uneconomical due to a drop in the price of tantalum, and the property was allowed to lapse.

While conducting a program of detailed mapping during 1987 and 1988, Digel et. al. (1989) located two new carbonatites near the Blue River Property. The Serpentine Creek Carbonatite is a small body, poorly exposed along a logging road at about 1370 m elevation, while the Gum Creek Carbonatite occurs as a layer about 10 m thick at about 2040 m elevation on a small ridge just south of Gum Creek.

During February 2000, Commerce re-staked the known carbonatites (Knox, 2000) and conducted a small surface sampling program; to confirm the known tantalum mineralization at both Fir and Verity, and to locate new exposures on recently constructed logging trails. An evaluation of existing information, including 30 drill holes totalling 2,060 m and 715 samples, resulted in an estimate of an inferred resource of (Knox, 2000; p.1)

" the main Verity Carbonatite Sill contains an inferred mineral resource of at least 3.8 Mt with about 228 g/t Ta<sub>2</sub>O<sub>5</sub>, 647 g/t Nb<sub>2</sub>O<sub>5</sub>, and 3.23 % P<sub>2</sub>O<sub>5</sub>."

The foregoing Historical Estimate ... was completed by Dahrouge (a director of Commerce) utilizing a polygonal method for resource estimation (Knox, 2000). It was based upon polygons with a 75 m radius and includes those areas along the subcrop edge that Aaquist (1982b) excluded. Although, Knox (2000), conducted a detailed review of the foregoing resource model, he did not visit the property, hence his estimates do not conform with NI 43-101.

There is no recorded mineral production from the Blue River Property."

## 1.4 PURPOSE OF SURVEY

The work described in this report was primarily undertaken to define the surface trace of the main carbonatite sill of the VPCC, and to prepare for drilling. In addition, detailed information on the mineralogy, petrology, and structure of the deposit(s) was acquired from Dr. Anthony Mariano, exploration geologist, of Carlisle, MA.

## 1.5 SUMMARY OF WORK

Between May 2 and August 15, 2001, Jeff Reeder, P. Geo. and Jody Dahrouge, B.Sc., P. Geol., supervised the exploration of the Mara Property. Work included geologic mapping, the collection

of five rock samples and nine pan concentrates, the establishment of about 29.53 line-km of grid, and the completion of about 29.53 line-km of ground magnetic surveys and 9.04 line-km of radiometric surveys. Also, in preparation for drilling of the VPCC, about 2.7 km of old logging roads and skidder trails were rehabilitated, to make them suitable for access by drill-equipment and four-wheel-drive vehicles. The work was authorized by Commerce Resources Corp.

To assist with the development of the project, detailed information on the mineralogy, petrology, and structure of the deposit(s) was acquired from Dr. Anthony Mariano (Mariano, 1979, 1982, 1989, 2001). During June, 2001 Dr. Anthony Mariano conducted a field examination and collected several samples from the recently discovered 'Roadside Carbonatite'.

## **1.6 FIELD OPERATIONS**

Field work was conducted by a total of eight personnel between May 2 and August 15, 2001. Personnel were based either at Summit River Lodge about 20 km northerly from the property, or in a motel in Valemount; with transportation to the property by either two- or four-wheel-drive vehicle. Garmin hand-held 'GPS' instruments were used to provide generalized location information. Accuracy was primarily dependant on forest cover, but generally varied from a few to about 50 meters.

## **2. REGIONAL GEOLOGY**

The Mara Property is within the Omineca Crystalline Belt of the Canadian Cordillera. The eastern flank of the Cordillera has previously been recognized as a locus of alkaline igneous activity (Currie, 1976). Pell (1987) has subdivided the Omineca Alkaline Province, within British Columbia, into three northwest trending belts:

- a) an eastern belt, east of the Rocky Mountain Trench and encompassing most of the Main and Western Ranges of the Rocky Mountains;
- b) a central carbonatite belt, which predominately encompasses the Rocky Mountain Trench and eastern part of the Omineca; and
- c) a western belt.

The central carbonatite belt generally hosts multiple deformed and metamorphosed sill-like bodies hosted by Late Precambrian to Early Cambrian metasedimentary rocks (Pell, 1987). This belt includes the Blue River area carbonatites: Fir, Verity and Paradise; Howard Creek; and Mud Lake-Blue River.

According to McCrea (2001, p.11)

"The Blue River Property encompasses upper amphibolite facies (kyanite to sillimanite) metasedimentary rocks of the Proterozoic Horsethief Creek Group of the Shuswap Metamorphic Complex within the Omineca Crystalline belt. These rocks were described by Campbell (1968) as: gritty feldspathic quartzite, phyllite, quartz-mica schist, garnet-staurolite and kyanite-mica schist, biotitic and/or hornblende quartzofeldspathic gneiss, minor marble and amphibolite and minor pegmatite with staurolite-kyanite schist. Immediately north of the property, along the north facing slope of Moonbeam Ridge, is an easterly trending mylonitic contact zone, with the highly deformed Malton Gneiss to the north.

Complex regional scale structures within this part of the Monashee Mountains include the mylonitic fault contact between Horsethief Creek Group rocks to the south and Malton Gneiss to the north; and a northerly trending regional scale fault along the North Thompson River Valley, which Pell and Simony (1981) described as

"a major west side down normal fault, the North Thompson fault, forms a structural and metamorphic discontinuity between the Cariboo Mountains and the Monashee Mountains to the east." "

### 3. PROPERTY GEOLOGY

#### 3.1 STRATIGRAPHY, STRUCTURE AND LITHOLOGY

The Mara Property is underlain by metasedimentary rocks and derived gneisses of the Proterozoic Horsethief Creek Group. To the west within the adjacent Verity claims, the gneisses have a general strike of  $300^{\circ}$  and dip  $15^{\circ}$  to  $30^{\circ}$  SW (Aquist, 1982b). They are locally folded and cut by later faults. The Horsethief Creek rocks are intruded by sills of carbonatite. The carbonatite is either sovite (calcite-dominated) or beforite (dolomite-dominated). Aquist (1982a) indicates that the most significant tantalum-niobium mineralization is confined to the beforites. In general those carbonatite sills composed of sovite are thin and universally barren. Both rock types are medium- to coarse-crystalline. Most exposures display layering defined by varying quantities of accessory minerals.

The carbonatites contain accessory minerals including Na-amphibole, pyroxene, phyllogopite, olivine, magnetite, pyrite/pyrrhotite and apatite, as well as the niobium- and tantalum-bearing minerals.

Amphibolite and glimmerite (biotite rock) are closely associated with the carbonatite bodies. Nepheline syenite has been found in the area (Aquist 1982b). Information recently acquired from Dr. Anthony Mariano indicates, that near Paradise Lake, an approximately 30 m thick sill of the VPCC, strikes northerly and dips at about  $30^{\circ}$  W (Mariano, 1982). According to Pell (1987) biotite sovite is found only at Paradise Lake, where it occurs as pods and segregations associated with nepheline syenite.

## 3.2 VERITY-PARADISE CARBONATITE COMPLEX

### 3.2.1 Geology

Based upon prior work, McCrea (2001) provided the following description of the geology of the VPCC (p. 16)

"Near the southwest end of the Verity-Paradise Carbonatite Complex, 30 drill holes were completed during 1980 and 1981, totalling 2,060 m, with 715 samples collected from split drill core and analyzed for tantalum, niobium and phosphate. In addition, numerous outcrops, pits and trenches have been mapped and sampled along a strike length exceeding 5,500 m. The carbonatite sills at the western end of the complex have historically been referred to as Verity, while those near the eastern end are referred to as Paradise. Based upon surface trenches, Mariano (1979) estimated that the main pyrochlore-carbonatite zone at Verity to be 60 m thick. Subsequent drilling near its western end showed that it is between 15 and 31 m thick, with an approximately orientation of 148°/20° to 30° SW. About 5,500 m along strike, at Paradise, its presumed eastern extension is about 30 m thick, with an approximately north-south strike and a dip of about 30° W (Mariano, 1982).

**TABLE 4.1: SUMMARY OF SURFACE SAMPLE RESULTS AT THE VERITY-PARADISE CARBONATITE COMPLEX**

Loaction*	Distance From Spec. Pit*	Samples	Ta <sub>2</sub> O <sub>5</sub> (g/t)		Nb <sub>2</sub> O <sub>5</sub> (g/t)		P <sub>2</sub> O <sub>5</sub> (%)
			Range	Av.	Range	Av.	Av.
Specimen Pit	0	26	50 - 490	193	180 - 5130	1674	2.11
Columbite Pit	180	7	79 - 464	194	460 - 3200	1694	4.53
Old Pit	720	4	33 - 183	106	400 - 500	425	2.79
Area I	1200	11	42 - 488	170	57 - 3133	659	-
Clearcut	1300	3	26 - 71	55	100 - 243	157	-
Upper Clearcut	1500	9	117 - 452	223	400 - 5300	1886	1.58
Area II	2040	13	17 - 427	126	129 - 2246	516	-
Switch Creek	2480	7	6 - 106	29	14 - 215	114	-
Area III	2740	12	21 - 2930	514	29 - 5722	1326	-
N. Switch Creek	3080	2	6 - 56	31	14 - 329	172	2.57
Paradise Creek	4000	2	6 - 183	95	29 - 358	193	-
Area IV	4450	26	11 - 659	171	14 - 3348	640	-
1630-D	4500	5	107 - 208	156	343 - 601	464	4.56
SS3721	4600	1	-	244	-	258	3.73
Area V	4600	11	15 - 366	110	57 - 529	313	-
SS3722	4900	1	-	78	-	114	3.29
Paradise Cirque	4900	6	6 - 20	13	7 - 315	196	-
Area VI	5270	6	6 - 6	6	14 - 14	14	-
East Paradise	5500	8	6 - 22	11	14 - 415	188	-
Paradise Peak	6000	3	6 - 6	6	14 - 29	19	-
Road Side Carbonatite	3950	3	34 - 176	90	234 - 779	452	2.73

\* The Specimen Pit is the western-most surface exposure of the Verity Carbonatite.

\* Samples included are those by Anschutz Mining (Canada) Ltd. and by Dahrouge.

According to Aaquist (1982b) the central part of the Verity Carbonatite Sill contains the best mineralization. Results of prior surface sampling are provided in Table 4.1.

The Verity Carbonatite is composed of beforite and tectonic beforite breccia. Layering of accessory minerals is commonly displayed in outcrops (Aaquist, 1982a). Aaquist (1982a, p.24) indicates that the thick beforite sill is interpreted to have formed from a series of magmatic pulses, each varying slightly in mineral content. In addition (Knox, 2000; p 14)

"The Verity upper carbonatite is reported to be disrupted by faulting (Aaquist 1982b, p. 9). In two of the sections from the drilling report (50,120E and 49,950E; Aaquist 1982a) the southern hole on each section is barren of carbonatite, whereas the holes further to the north (five holes and three holes respectively) in each section contain thick intersections of mineralized carbonatite.

It should be noted that the Specimen Pit, one of the discovery locations of the upper Verity carbonatite appears from present work to not lie within the upper Verity beforite, but in an overlying band. The Specimen Pit has returned high values of niobium (up to 0.51% Nb<sub>2</sub>O<sub>5</sub>) and tantalum (up to 490 ppm Ta<sub>2</sub>O<sub>5</sub>).

### 3.2.2 Mineralization

According to Mariano (2001; p. 1),

"commodities that will directly follow as byproducts of Ta mining include Nb, U, and apatite. Other potential byproducts include zircon, magnetite, agricultural or cement application lime, nepheline syenites for ceramic uses, and vermiculite."

Detailed exploration work, including geochemical, mineralogical, and petrological studies by Dr. Anthony Mariano (1979, 1982, 2001) has shown the dominant tantalum-bearing phase at the VPCC to be pyrochlore. Although confined areas (eg. Columbite Pit) with valuable element concentration, including "massive concentrations" (Mariano, 1982) of ferrocolumbite, fersmite and pyrochlore, are noted.

Microprobe analysis for the three types of pyrochlore at the Verity Carbonatite follow (Mariano, 1979):

<u>Constituent*</u> <u>(Wt. %)</u>	<u>Black</u> <u>Pyrochlore</u>		<u>Mahogany-Red</u> <u>Pyrochlore</u>		<u>Yellow-Amber</u> <u>Pyrochlore</u>	
	<u>Range</u>	<u>Average</u>	<u>Range</u>	<u>Average</u>	<u>Range</u>	<u>Average</u>
CaO	13.03 - 13.78	13.32	13.54 - 14.61	14.27	14.08 - 14.41	14.25
Na <sub>2</sub> O	7.05 - 7.48	7.26	7.18 - 7.57	7.42	7.36 - 7.63	7.48
Nb <sub>2</sub> O <sub>5</sub>	55.20 - 57.56	56.4	58.61 - 62.06	60.61	65.61 - 68.03	66.75
Ta <sub>2</sub> O <sub>5</sub>	7.31 - 8.06	7.69	4.54 - 7.66	6.01	1.52 - 2.49	2.12
TiO <sub>2</sub>	2.85 - 3.07	2.97	2.09 - 2.56	2.4	1.34 - 1.52	1.43
UO <sub>2</sub>	4.82 - 5.70	5.16	1.52 - 1.71	1.59	0 - 0.35	0.25
Sum	94.06 - 96.69	95.44	92.13 - 95.34	93.74	91.89 - 93.19	92.55
<u>Nb<sub>2</sub>O<sub>5</sub>:Ta<sub>2</sub>O<sub>5</sub></u>	6.8 - 7.9	7.4	7.7 - 10.9	10.5	26.6 - 44.8	31.5

\* After Mariano (1979)

During 2001, the recently discovered Roadside Carbonatite was examined and sampled (Appendix 3B). It contains between 3.8 and 100.3 ppm  $Ta_2O_5$  with up to 1,216 ppm  $Nb_2O_5$ , and up to 3.95%  $P_2O_5$ .

## **4. 2001 EXPLORATION AND FIELD WORK**

### **4.1 SAMPLING AND ANALYTICAL PROCEDURES**

Samples of carbonatite (Appendix 2A: 10526 to 27, and 10536) collected during 2001 consisted of both chip and grab samples from the recently discovered Roadside Carbonatite (VPCC), and one (10537) from a highly weathered boulder of carbonatite along a logging road in the central part of the property (Fig. 3.1). In addition, considerable effort was directed at prospecting for new carbonatite occurrences. Unfortunately, no other occurrences were identified, possibly due to the recessive nature of weathered carbonatite.

During May and June, 2001, nine pan concentrates were collected from various streams draining the property (Appendix 2B). The material was collected by filling a five gallon pail with -1 cm material, which was panned to about 1 kg of concentrate (Appendix 2B).

All samples were sent to Acme Analytical Laboratories Ltd. in Vancouver, B.C. for preparation and analyses for both whole rock and trace element constituents by standard ICP techniques. Analytical reports from Acme Analytical Laboratories Ltd. are in Appendices 2A and 2B, and a description of the samples are in Appendices 3A and 3B.

### **4.2 GRID ESTABLISHMENT**

In preparation for ground geophysical surveys and drilling, between May and August 15, 2001, two grids were established at the Mara Property (Fig. 3.2). Both grids were originally based on the UTM NAD 83 Grid System; however, the eastern Roadside Grid was incorrectly placed in the field using the UTM NAD 27 Grid System. GPS instrumentation aided in the placement of both grids.

The western Verity Grid, includes two cut, east-west base lines, one at 7500N and one at 8500N. The base lines were corrected for variations in slope. The cut lines total 2.75 km, with about 1.75 km within the property boundaries and the remainder on the adjacent Verity Property. In addition, 33 north-south survey lines, spaced 100-m apart, were established, these varied in length from 0.29 to 3.02 km. The survey lines, were blazed and marked with flagging at 5-m intervals. They total 22.28 line-km within the Mara Property, with an additional 4.71 km on the adjacent Verity Property.

The eastern Roadside Grid, includes a blazed north-south base line at 7300E. It is 1.2 km in



length. From the southern property boundary to the north, thirteen east trending tie-lines were established. The tie lines, which were blazed and marked with flagging at 5-m intervals, totalled 7.25 line-km in length.

### **4.3 MAGNETOMETER AND RADIOMETRIC GEOPHYSICAL SURVEYS**

As the VPCC is known to contain significant concentrations of magnetite and accessory phases of uranium, both the Verity and Roadside grids were surveyed using ground magnetometer and radiometric geophysical instrumentation.

At 5-m stations along each cross-line, a magnetometer reading was collected using a GEM System GSM-19 integrated Overhauser effect proton precession magnetometer. The magnetic readings were corrected for terrestrial field magnetic variation using a stationary GSM-19 base station. The corrected magnetometer data (Appendix 5A) was processed, gridded, contoured, and used to generate Fig. 4.1. About 29.53 line-km of ground magnetic surveys were completed at the Mara Property, with an additional 4.71 line-km on the adjacent Verity Property.

A McPhar TC-33A scintillometer was used for radioactivity measurements on the same grid as established for the magnetometer survey. Due to damaged instrumentation, only about 9.04 line-km of ground radiometric surveys were completed at the Verity Grid. The results (Appendix 5B) are contoured and plotted in Fig's. 4.2 and 4.3. For lines 4400E to 4700E, readings were collected at 5 m stations (Fig. 4.2). This was increased to 20 m stations, for each of lines 5200E to 6100E (Fig. 4.3). At each station the instrument was set at a '300 counts per second scale', with readings collected from a height of about ½ m from ground surface.

Elevated readings generally correspond to stations within areas of presumed carbonatite subcrop and outcrop. Areas of thicker overburden, may have affected the readings at some stations along the presumed carbonatite subcrop (Fig. 4.3). Lower readings of about 80 cps or less, generally correspond to areas of gneissic host rock.

### **4.4 CONSTRUCTION AND IMPROVEMENTS TO ACCESS TRAILS**

After soliciting and evaluating quotations and bids for rehabilitation of logging roads and skidder trails, the work was awarded to B&G Logging of Valemount, B.C. During the period from June 25 to August 15, the following equipment was used:

- chain saw and brush saw for clearing,
- low bed for transportation, and
- D-6 Bulldozer for rehabilitation of logging roads and skidder trails.

The D-6 Bulldozer was used throughout the above noted period to rehabilitate access trails, while the low bed was used for transportation of the D-6 Bulldozer to and from the property. The D-6 was used for upgrading existing access trails and roads, ditching within wet and poorly drained areas, and for installing culverts where required.

During the foregoing period, a total of 4.8 km of road was rehabilitated, with about 2.7 km located within the Mara Property, and 2.1 km located within the adjacent Verity Property (Fig. 3.2).

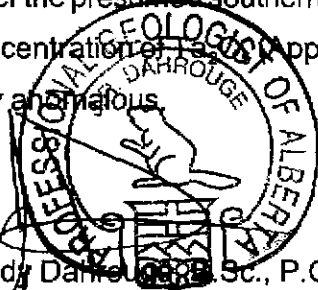
## 5. DISCUSSION AND CONCLUSIONS

Sampling and mapping during 2001, confirmed that those samples derived from the recently discovered Roadside Carbonatite are highly anomalous in Ta, Nb and P. Additional enrichment in Uranium and Rare Earth Elements was noted. The host carbonatite includes such lithotypes as a phlogopite / biotite beforosite, within a regional foliation of  $030^{\circ}/20^{\circ}\text{E}$ . Coincidentally, Pell (1987) indicates that, of the three types of carbonatite present within the area, biotite sovitite is found only at Paradise Lake, where it occurs as segregations or pods associated with nepheline syenite. The Roadside Carbonatite is about 1,750 southwest of and along trend from the Paradise area.

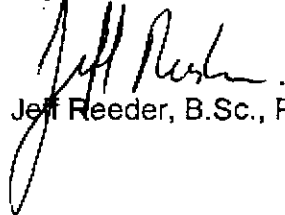
Both ground magnetic and radiometric surveys at Verity, roughly delineate the easterly trending subcrop edge of the Verity-Paradise Carbonatite Complex (Fig's. 4.1 to 4.3). At the Roadside Carbonatite the ground magnetic survey shows a strong high-frequency anomaly which extends from the southern property boundary (and beyond) northeasterly ( $010 - 020^{\circ}$ ) towards the Paradise area. Assuming the Roadside Carbonatite represents the southern most extension of the VPCC, then a total strike length exceeding 7,000 m has been defined for the VPCC, via a combination of geophysics and geologic mapping.

Pan concentrate sample 10634, which covers a drainage over the presumed southern extension of the Roadside Carbonatite, showed a highly anomalous concentration of Ta, Nb and P (Appendix 3B). Sample 10633, less than 200 m to the east, was only slightly anomalous.

Edmonton, Alberta  
2001 12 20

A circular seal for the Professional Geologists of Alberta. The outer ring contains the text 'PROFESSIONAL GEOLOGIST OF ALBERTA' at the top and 'DARRHOUE' at the bottom. The center features a stylized figure holding a staff with a caduceus-like symbol, standing on a base that resembles a geological structure.

Jody Danke, B.Sc., P.Geol.

A handwritten signature in black ink, appearing to read 'Jeff Reeder'.

Jeff Reeder, B.Sc., P. Geo.

## 6. REFERENCES

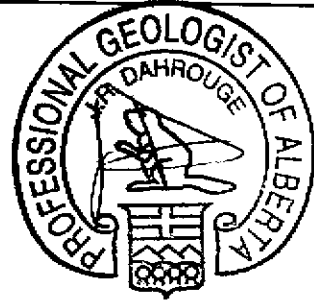
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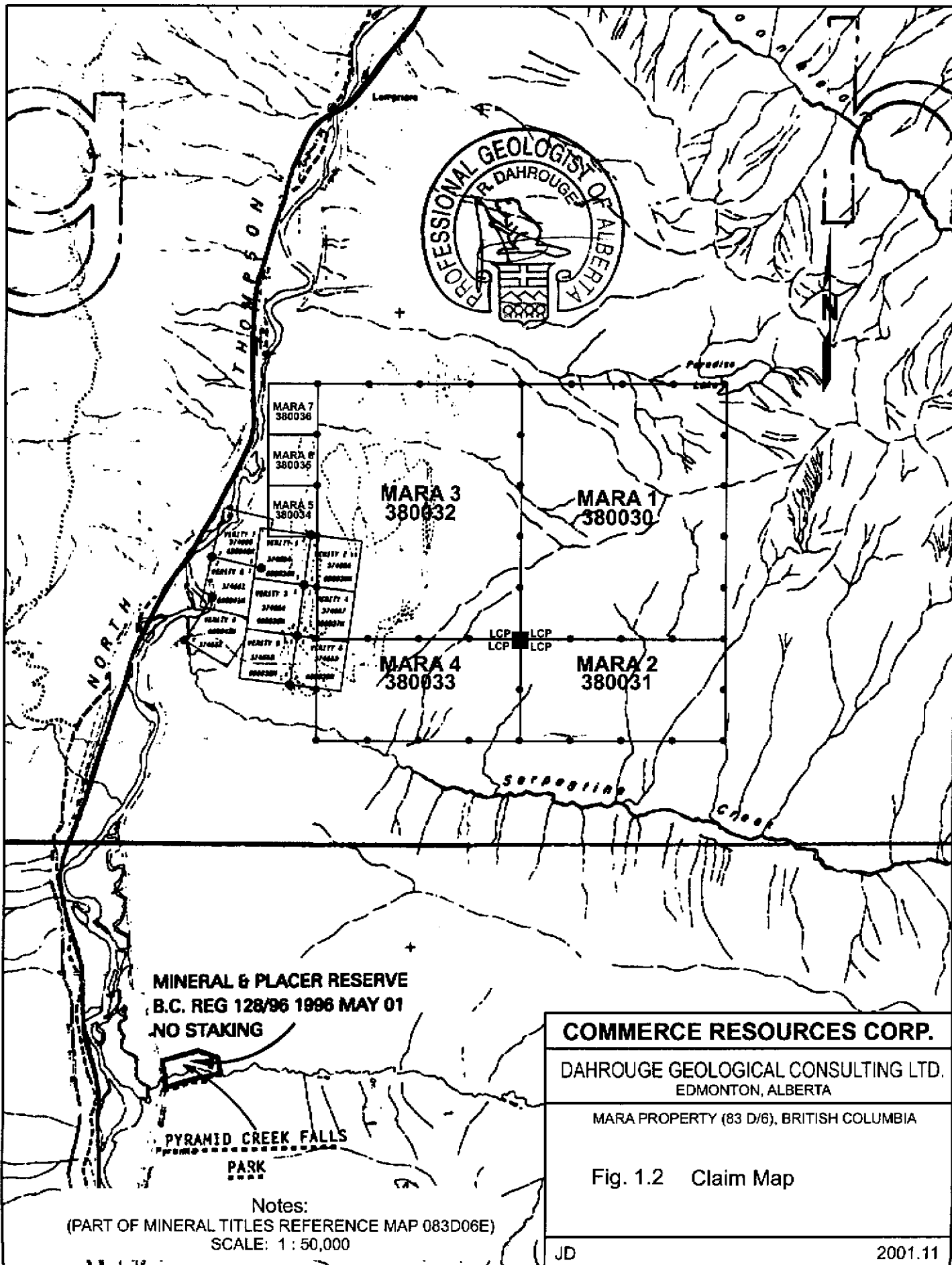
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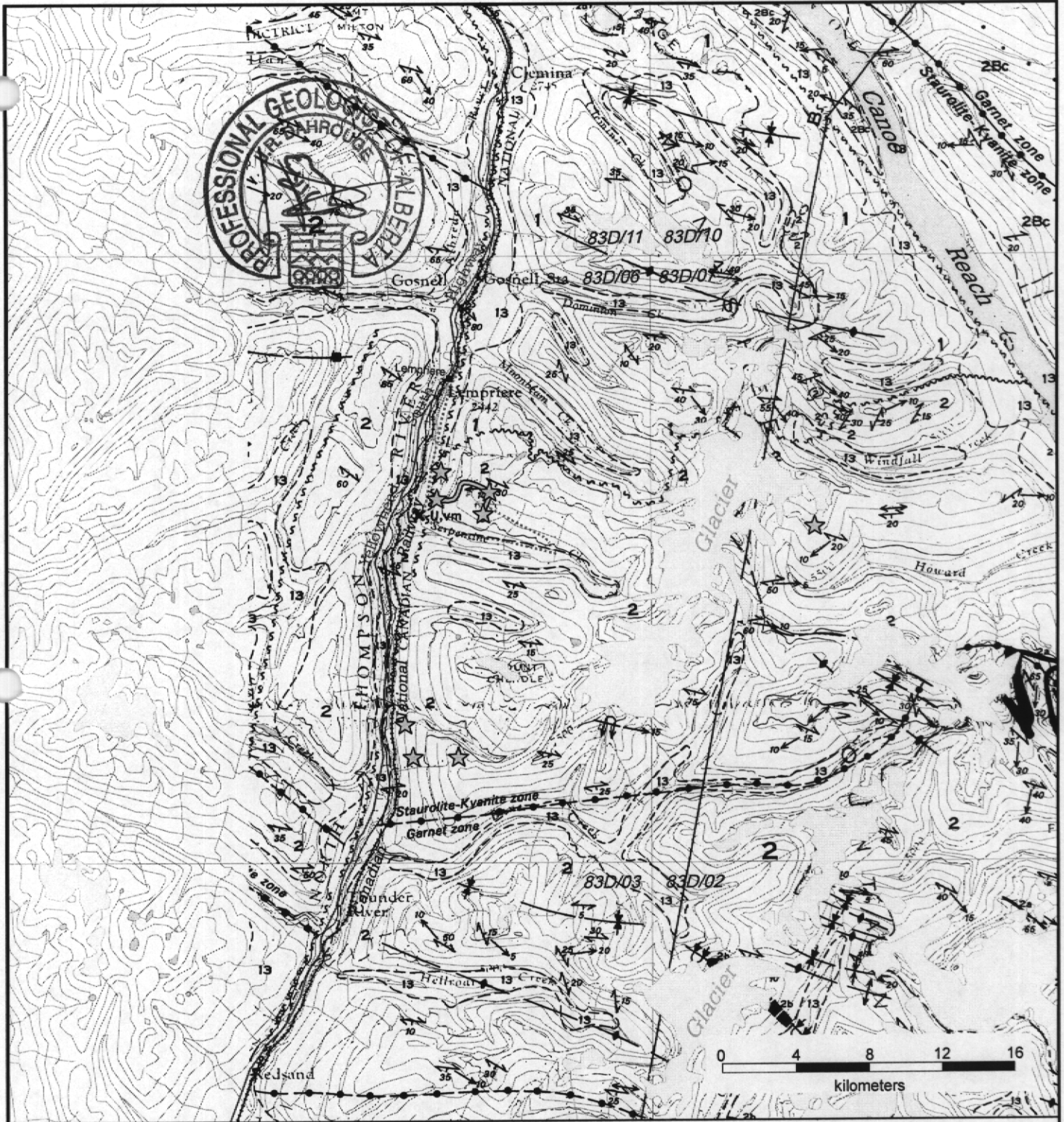
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Rept. 1630, 13 p.



<b>COMMERCE RESOURCES CORP.</b>
DAHROUGE GEOLOGICAL CONSULTING LTD. EDMONTON, ALBERTA
MARA PROPERTY (83 D/6), BRITISH COLUMBIA
<b>Fig. 1.1 Location Map</b>
JD <span style="float: right;">2001.11</span>





**LEGEND AND SYMBOLS**

**PLEISTOCENE AND RECENT**

**13** Alluvium and glacial deposits

★ Carbonatite (location approx.)

**WINDERMERE**

**2** Horsethief Creek Group: quartzite, phyllite, schist, garnet, gneiss, 2a - marble, 2b - amphibolite

**AGE UNKNOWN**

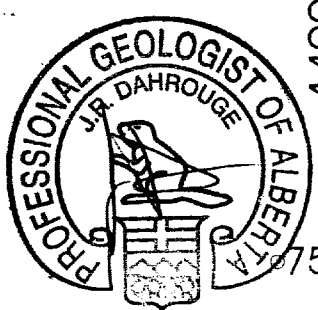
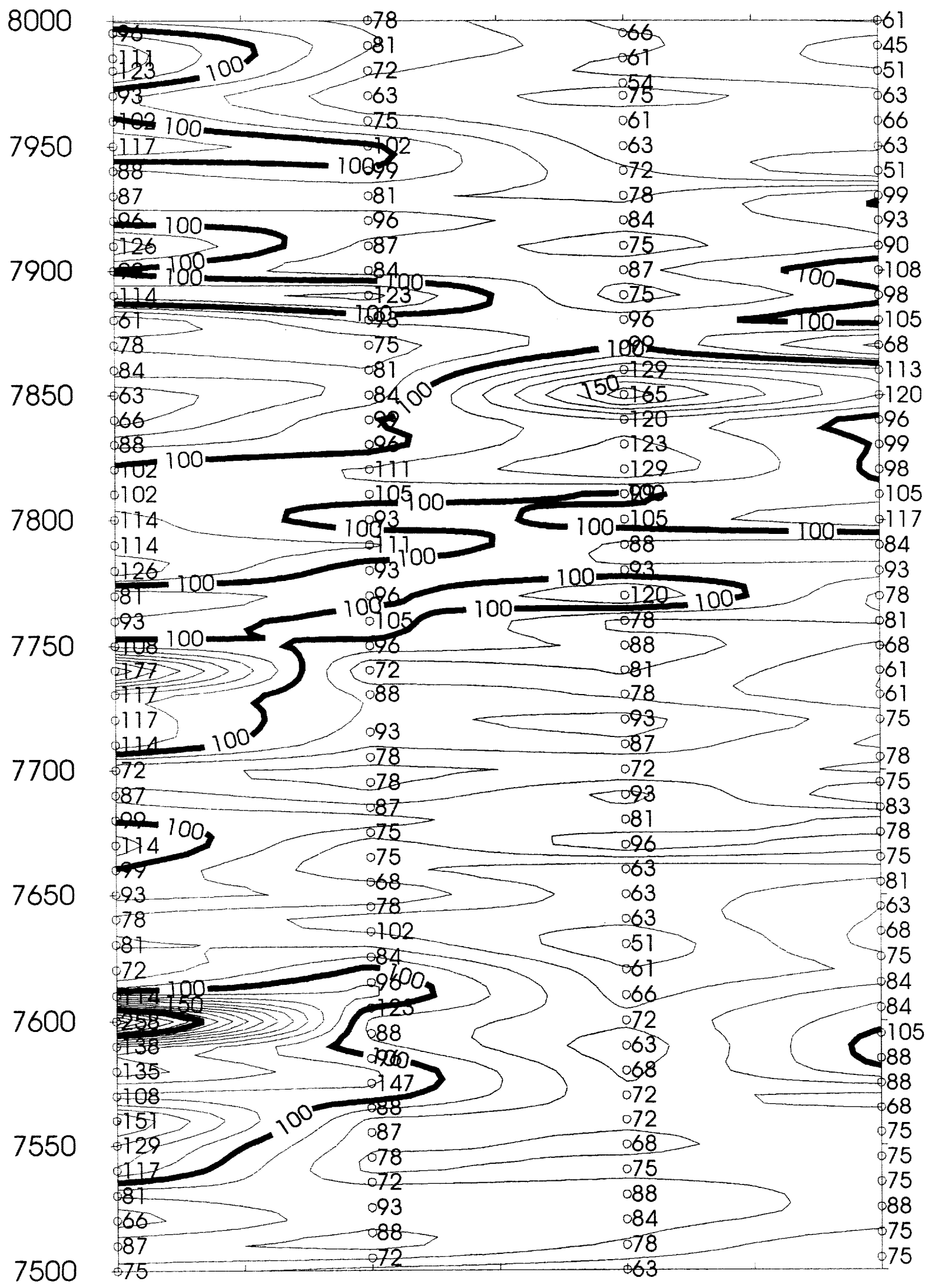
**1** Gneiss, amphibolite, schist, minor quartz

**COMMERCE RESOURCES CORP.**

Dahrouge Geological Consulting Ltd.  
EDMONTON, ALBERTA

BLUE RIVER AREA, BRITISH COLUMBIA

**Fig. 2.1**  
**Regional Geology**



4400 4450 4500 4550 4600 4650 4700

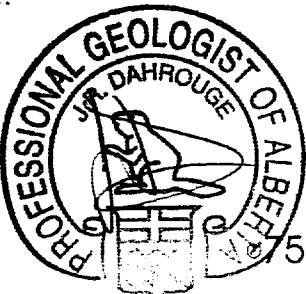
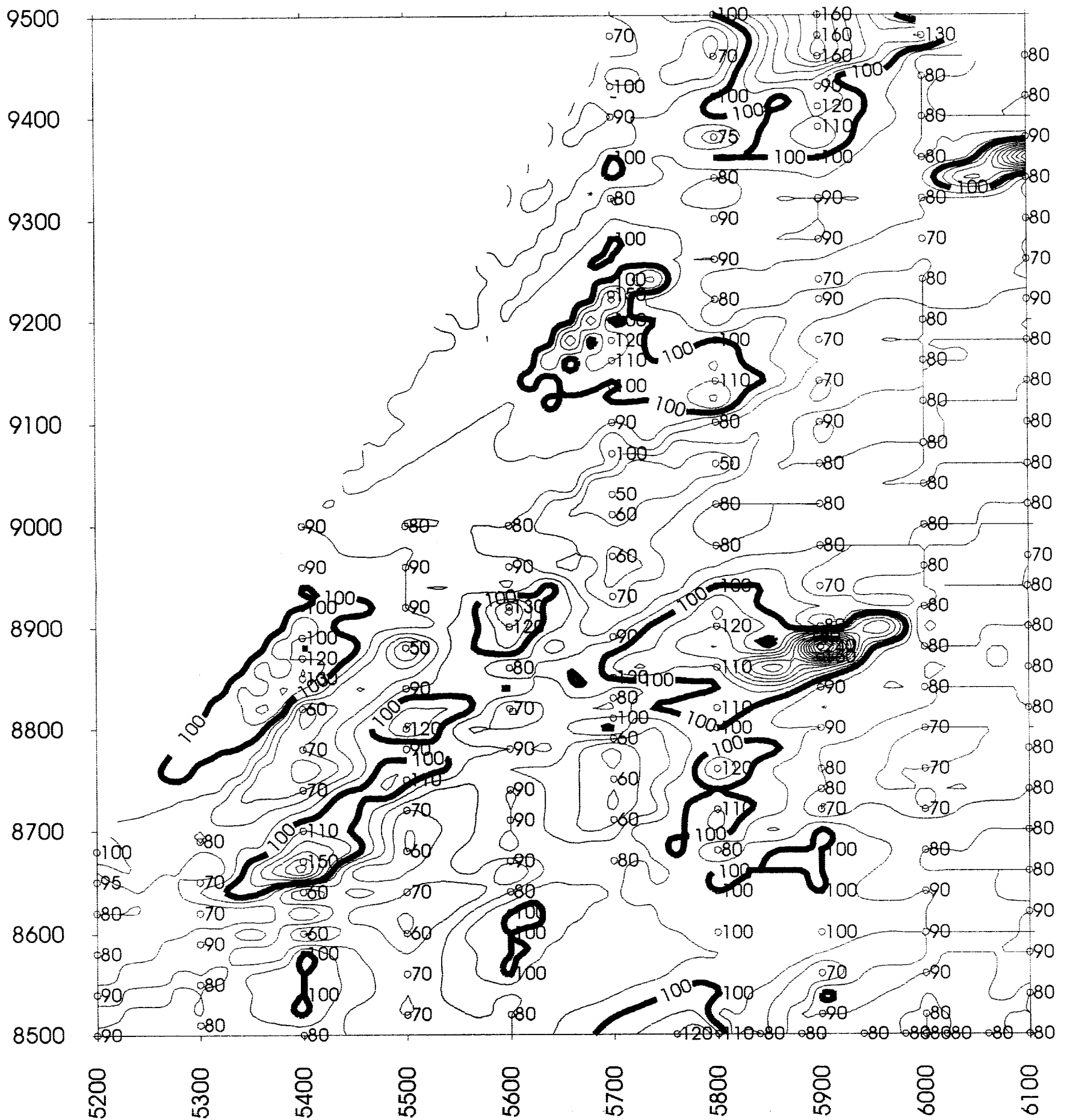
**Legend**  
 75 Grid station with scintillometer reading (cps)

0 100 m  
 Scale

- Notes**
- 1) The local grid is based on UTM Grid NAD 83. A grid easting/northing of 4400, 7500 corresponds to UTM 354400, 5807500.
  - 2) Contour Interval is 10 counts per second (cps).
  - 3) See Fig. 3.2 for grid location. See Appendix 5B for raw data.

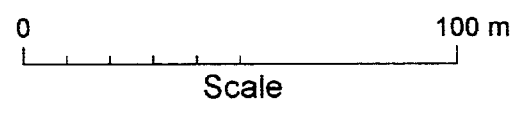
<b>COMMERCE RESOURCES CORP.</b>
DAHROUGE GEOLOGICAL CONSULTING LTD. EDMONTON, ALBERTA
MARA PROPERTY (83 D/6), BRITISH COLUMBIA
Fig. 4.2 Contoured Radiometric Data for Verity Grid Lines 4400 to 4700 East
JD 2001.12





**Legend**

Grid station with scintillometer reading (cps)



**Notes**

- 1) The local grid is based on UTM Grid NAD 83. A Grid easting/northing of 5200, 7500 corresponds to UTM 355200, 5808500.
- 2) Contour interval is 10 counts per second (cps).
- 3) See Fig. 3.2 for grid location. See Appendix 5B for raw data.

**COMMERCE RESOURCES CORP.**

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EDMONTON, ALBERTA

MARA PROPERTY (83 D/6), BRITISH COLUMBIA

**Fig. 4.3** Contoured Radiometric Data for Verity Grid Lines 5200 East to 6100 East

## APPENDIX 1: ITEMIZED COST STATEMENT TO AUGUST 15, 2001

Notes: Personnel, Food and Accommodation, Transportation, and Instrument Rental costs reduced by 14% for work outside the Mara Property and on the adjacent Verity Property. Reductions are calculated as follows: 4.71 line-km / 34.24 line-km = 14% (see Section 4.2).

Road rehabilitation costs reduced by 44% for work outside the Mara Property and on the adjacent Verity Property. Reductions are calculated as follows: 2.1 km / 4.8 km = 44%. (see Section 4.4).

### a) Personnel

J. Dahrouge, geologist

7.00	days	field work and travel	May 2 - 4; June 14 - 15; June 18 - 19		
22.40	days	arrange for field equipment and supplies, co-ordinate field examinations by Dr. Mariano, organize and ship samples	project supervision, report preparation		
22.40	days	@	\$ 481.50		\$ 10,785.60

J. Reeder, geologist

30.00	days	field work and travel	May 8 - 11, 22, 26, 30 - 31; June 1 - 5, 13 - 19; July 5 - 8, 13 - 18, 20, 22		
5.50	days	prepare applications for drill permits and road building, prepare for field work, arrange for cat operator and drill contractor(s)			
35.50	days	@	\$ 428.00		\$ 15,194.00

R. Hardy, geologist

11.50	days	field work and travel	May 2 - 13		
8.90	days	prepare applications for drill permits, organize and pack field gear			
20.40	days	@	\$ 374.50		\$ 7,639.80

R. Gwyul, geologist

49.00	days	field work and travel	May 2 - 13; May 30 - June 2, June 4, June 6 - 10, 13 - 15, 18 - 23; July 5 - 14, 16 - 20, 22 - 23		
16.40	days	prepare for field work, organize and pack field gear, compile geological and geophysical data			
65.40	days	@	\$ 267.50		\$ 17,494.50

W. Allen, geologist

13.00	days	field work and travel	July 6 - 13, 16 - 20		
13.00	days	@	\$ 267.50		\$ 3,477.50

M. Conlin, assistant

15.00	days	field work and travel	May 22 to 24; June 7 to 18; July 15 - 16		
15.00	days	@	\$ 176.55		\$ 2,648.25

S. Cook, assistant

14.50	days	field work and travel	May 31 to June 21		
14.50	days	@	\$ 176.55		\$ 2,559.98

W. McGuire, draftsman

33.80	days	compiling field data, drafting, preparing and plotting maps, creating information database, other			
33.80	days	@	\$ 406.60		\$ 13,743.08

	\$ 73,542.71
<b>Subtotal Less 14%:</b>	\$ (10,295.98)

## APPENDIX 1: CONTINUED

**b) Food and Accommodation**

140 man-days @ \$ 51.30	accommodations and meals	\$ 7,182.57	
140 man-days @ \$ 16.41	groceries and other	\$ 2,297.41	
			\$ 9,479.98
	<b>Subtotal Less 14%:</b>		\$ (1,327.20)

**c) Transportation**

Bus:	Greyhound Bus Tickets (Edmonton - Valemount)	\$ 375.38	
Vehicles:	May, 3 SUV(s)/Truck(s), 4072 km @ 0.41 (BC Portion Only)	\$ 1,669.52	
	June, 3 SUV(s)/Truck(s), 4605 km @ 0.41 (BC Portion Only)	\$ 1,887.97	
	July, 3 SUV(s)/Truck(s), 4330 km @ 0.41 (BC Portion Only)	\$ 1,775.46	
			\$ 5,708.33
	<b>Subtotal Less 14%:</b>		\$ (799.17)

**d) Instrument Rental - Subcontractors**

21 unit-days @ \$ 22.50	laptop computer	\$ 468.00	
141 unit-days @ \$ 64.20	magnetometer	\$ 9,039.36	
	Dr. Anthony Mariano, field work from June 14 to 19; and mineralogical and petrological examinations	\$ 17,426.36	
			\$ 26,933.72
	<b>Subtotal Less 14%:</b>		\$ (3,770.72)

**e) Drilling**

	Road construction and rehabilitation	\$ 9,979.38	
			\$ 9,979.38
	<b>Subtotal Less 44%:</b>		\$ (4,390.93)

**f) Analyses**

5 samples @ \$ 35.90	Rock: ICP analyses (Acme)	\$ 179.49	
5 samples @ \$ 5.59	Rock: Sample Preparation	\$ 27.95	
8 samples @ \$ 23.54	Silt: ICP whole rock and trace analyses (Acme)	\$ 188.32	
8 samples @ \$ 2.94	Silt: Sample Preparation	\$ 23.54	
			\$ 419.31

**g) Report**

	Report reproduction and assembly	\$ 205.98	
			\$ 205.98

**h) Other**

	Courier and Shipping	\$ 799.32	
	Field Equipment and Supplies	\$ 1,295.31	
	Long distance telephone	\$ 246.90	
	Plots	\$ 823.90	
	Reports and Maps	\$ 191.46	
	Reproductions and photocopying	\$ 883.34	
			\$ 4,240.23

**Total****\$ 109,925.63**

**APPENDIX 2A: ANALYTICAL REPORT BY ACME ANALYTICAL LABORATORIES LTD. FOR  
ROCK SAMPLES COLLECTED FROM THE MARA CLAIMS IN 2001**

ACME ANALYTICAL LABORATORIES LTD. 85 <sup>th</sup> W. HASTINGS ST. VANCOUVER BC V6P 1R6 PHONE (604) 251-3158 FAX (604) 253-1715 (ISO 9002 Accredited Co.)																		
WHOLE ROCK ICP ANALYSIS																		
Dahrouge Geological Consulting File # A101924 18 - 10509 - 81 Ave, Edmonton AB T6E 1T7 Submitted by: Jody Dahrouge																		
SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ml	Sc	LOI	TOT/C	TOT/S	SUM
	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	%	%	%	%
7002	1.99	.05	8.16	15.35	29.16	.58	.06	.02	2.30	.84	.006	34	40	5	36.9	11.33	.13	97.42
7003	1.96	.06	7.78	15.23	29.50	.52	.06	.02	2.53	.87	.001	54	39	5	39.2	11.42	.07	97.74
10526	.90	<.03	1.58	3.47	50.10	.24	.04	.01	3.65	.25	<.001	412	78	12	38.6	10.85	.01	98.92
10527A	.92	.28	3.14	16.91	32.94	.12	.04	.03	3.95	.43	.005	48	51	6	40.1	11.33	<.01	98.88
10527B	.17	.15	84.43	2.95	4.36	.08	.04	1.68	.46	.33	.001	21	33	4	4.7	1.90	<.01	99.35
10528A	24.73	7.06	23.84	2.96	13.79	1.23	.92	.35	9.60	1.72	.009	647	347	15	12.3	1.88	.03	98.63
10528B	48.61	4.35	10.72	12.26	16.82	2.02	.23	.53	1.73	.58	.005	138	104	20	1.8	.11	.11	99.69
10529	2.56	.07	7.96	15.47	29.47	.36	.05	.02	2.25	.91	.001	56	37	5	38.8	11.42	.20	97.93
10530	1.76	<.03	8.15	15.50	29.15	.42	.05	.02	2.01	.87	.004	41	96	5	40.1	11.81	.18	98.07
RE 10530	1.60	.04	8.05	15.39	29.85	.39	.05	.02	1.87	.87	.006	40	26	5	40.0	11.52	.21	98.15
10531	1.63	.03	7.94	15.55	29.15	.38	.04	.01	1.06	.84	.001	40	28	5	41.7	12.00	.12	98.34
10532	2.41	.06	8.23	15.27	29.26	.49	.05	.01	1.33	.84	.005	48	46	6	40.5	11.42	.12	98.46
10533	1.10	.05	7.35	15.18	30.52	.31	.03	.01	2.06	.88	.005	52	20	4	40.5	11.90	.07	98.00
10534	2.75	.07	8.17	14.99	28.76	.51	.06	.02	1.68	.94	.004	99	<20	6	40.1	11.23	<.01	98.06
10535	1.58	.05	7.33	14.24	32.23	.09	.03	.01	3.87	.76	.003	46	25	4	38.7	10.94	.05	98.91
10536	2.86	.27	5.15	9.28	39.89	.11	.04	.87	1.15	.18	.007	280	67	16	39.5	11.14	<.01	99.35
10537	31.87	2.14	15.39	11.09	20.52	.17	.15	.12	9.22	.74	.010	123	147	25	8.0	.99	<.01	99.66
STANDARD 90-15/CSB	49.02	12.96	7.31	7.30	5.97	2.28	1.83	1.76	2.55	1.41	1.075	1976	81	13	5.9	2.42	5.33	99.59

GROUP 4A - 0.200 GM SAMPLE BY LIBO2 FUSION, ANALYSIS BY ICP-ES. LOI BY LOSS ON IGNITION.  
TOTAL C & S BY LECO. (NOT INCLUDED IN THE SUM)  
- SAMPLE TYPE: ROCK R150 60C  
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 29 2001 DATE REPORT MAILED: *July 18/01* SIGNED BY: *C. Long* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Date: *1/FA*

Note: Only samples 10526, 10527A, 10527B, 10536, and 10537 from the Mara Claims.

A3

APPENDIX 2A: CONTINUED

ACME ANALYTICAL LABORATORIES LTD. 85<sup>th</sup> W. HASTINGS ST. VANCOUVER BC V6P 1R6 PHONE (604) 253-3158 FAX (604) 253-1716  
 (ISO 9002 Accredited Co.)  
**AA** GEOCHEMICAL ANALYSIS CERTIFICATE **AA**  
 Dahrouge Geological Consulting File # A101924 (a)  
 18 - 10509 - 81 Ave, Edmonton AB T6E 1T7 Submitted by: Jody Dahrouge

SAMPLE#	Co	Cs	Ge	Hf	Mb	Rb	Sn	Sr	Ta	Th	Tl	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7002	16.5	.2	1.1	<.5	2570.4	2.0	<1	4933.7	62.6	19.7	.2	1.8	<.5	<1	8.5	25.6	118.9	254.3	29.14	109.1	17.9	5.48	12.42	1.51	7.86	1.10	2.68	.24	1.55	.18
7003	14.3	.4	1.0	<.5	2292.0	1.8	<1	5051.6	134.6	7.4	.2	7.6	<.5	<1	8.8	27.5	122.7	262.7	30.81	118.6	19.8	6.18	13.85	1.71	8.90	1.21	2.86	.29	1.49	.22
10526	2.7	.5	<.5	8.7	16.6	1.8	<1	5284.0	3.1	1.4	.1	2.2	11	<1	603.9	78.4	234.8	503.5	59.20	226.3	41.5	13.14	30.65	3.74	20.45	3.08	7.27	.80	4.55	.61
10527A	9.2	.4	1.2	.8	850.1	2.6	1	4570.0	82.1	19.8	.1	39.8	7	<1	36.0	33.6	135.1	321.9	39.59	157.5	28.1	8.11	19.42	2.17	10.86	1.38	3.24	.33	1.70	.25
10527B	43.7	.5	16.6	<.5	226.0	2.6	2	750.1	11.1	1.8	.2	2.8	1264	4	8.1	4.9	19.4	44.3	5.37	20.3	3.4	1.15	2.72	.29	1.59	.19	.39	<.05	.24	.04
10528A	108.5	2.6	10.2	3.4	1333.2	52.3	<1	1694.4	472.1	32.0	.4	230.9	84	3	200.3	91.8	297.7	745.8	77.23	292.1	55.3	15.73	40.88	4.94	24.05	4.00	10.10	1.07	6.55	.91
10528B	33.3	.4	8.9	1.3	426.1	5.2	2	615.1	112.2	5.3	.2	22.9	143	7	36.2	34.2	61.1	152.5	17.30	68.9	13.0	3.80	11.44	1.58	8.11	1.40	3.50	.43	2.37	.35
10529	15.5	.4	1.0	<.5	2101.1	3.7	1	5246.8	153.6	7.0	.2	4.9	11	<1	8.5	26.3	116.7	252.1	28.83	111.6	19.4	5.82	13.10	1.60	8.16	1.05	2.73	.28	1.70	.23
10530	19.1	.4	1.0	<.5	1787.7	2.8	<1	5153.0	112.2	8.5	.2	4.2	9	<1	6.4	23.5	108.9	234.3	26.54	95.7	16.9	5.02	11.75	1.40	7.21	1.02	2.41	.25	1.47	.19
RE 10530	16.6	.6	1.4	<.5	1934.9	2.9	3	4951.5	120.8	8.6	.3	4.6	9	<1	6.4	23.1	105.9	228.0	25.80	96.3	17.2	5.01	11.90	1.41	6.89	1.05	2.30	.24	1.44	.18
10531	14.8	.4	1.1	<.5	1732.4	2.9	<1	4780.5	98.7	5.0	.3	1.9	9	<1	5.1	17.0	75.5	159.6	17.98	66.1	11.3	3.48	7.88	.94	4.73	.69	1.62	.17	.98	.14
10532	15.3	.3	1.3	<.5	1284.6	3.1	<1	4639.5	64.8	7.8	.2	1.0	10	<1	5.3	18.9	90.2	189.8	21.10	79.8	14.0	4.02	9.05	1.14	5.57	.83	1.98	.20	1.13	.18
10533	12.2	.5	.7	<.5	2108.2	11.5	<1	5234.3	120.6	7.0	.1	3.1	8	<1	6.4	24.9	116.2	247.5	28.05	106.6	18.5	5.45	13.50	1.48	7.53	1.11	2.52	.27	1.46	.23
10534	9.3	.6	.8	<.5	2078.6	3.3	<1	4858.8	78.5	5.3	.1	1.0	9	<1	6.4	22.4	104.6	221.9	24.96	91.6	16.5	4.77	11.26	1.25	6.57	1.01	2.30	.23	1.42	.17
10535	9.7	.7	1.0	<.5	649.1	2.5	<1	3932.0	177.0	5.2	.1	41.3	8	1	26.9	33.5	140.5	303.7	35.51	135.6	23.4	7.16	17.20	2.07	9.30	1.45	3.42	.31	1.89	.28
10536	27.5	.4	4.5	36.8	95.7	2.8	<1	1866.5	16.9	.8	<.1	3.2	76	<1	1467.0	29.5	110.7	220.6	24.95	95.1	19.6	5.42	13.38	1.63	7.51	1.19	2.71	.26	1.89	.24
10537	48.5	.9	5.4	2.8	224.6	8.3	<1	1433.2	65.4	3.9	.2	51.4	80	2	124.3	62.6	310.1	687.4	78.27	306.4	56.3	15.01	38.31	4.05	19.22	2.88	6.92	.73	4.30	.60
STANDARD	22.2	2.8	17.3	26.3	28.0	63.0	17	412.7	1.7	23.2	1.0	20.9	149	20	1129.8	21.9	27.9	57.2	6.07	23.3	4.6	1.07	3.92	.59	3.79	.82	2.54	.37	2.47	.40

Standard is STANDARD SO-15.

GROUP 4B - REE - LIBO2 FUSION, ICP/MS FINISHED.  
 - SAMPLE TYPE: ROCK R150 60C  
 Samples beginning 'RE' are Retuns and 'RRE' are Reject Retuns.

DATE RECEIVED: JUN 29 2001 DATE REPORT MAILED: *July 18/01* SIGNED BY: *C. Long* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data *h* FA

Note: Only samples 10526, 10527A, 10527B, 10536, and 10537 from the Mara Claims.

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APPENDIX 2A: CONTINUED

ACME ANALYTICAL LABORATORIES LTD. 857 W. HASTINGS ST. VANCOUVER BC V6P 1R6 PHONE (604) 253-3158 FAX (604) 253-1716 (ISO 9002 Accredited Co.)											
GEOCHEMICAL ANALYSIS CERTIFICATE											
Dahrouge Geological Consulting File # A101924 (b) 18 - 10509 - 81 Ave, Edmonton AB T6E 1T7 Submitted by: Jody Dahrouge											
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	As ppm	Cd ppm	Sb ppm	Bi ppm	Ag ppm	
7002	3	5	<3	30	<1	<2	.6	.5	<.5	<.5	
7003	2	3	<3	33	<1	<2	.6	.5	<.5	<.5	
10526	1	1	<3	11	<1	<2	.2	.5	<.5	<.5	
10527A	1	2	3	26	<1	<2	.3	.5	<.5	<.5	
10527B	13	3	<3	141	<1	<2	.2	.5	<.5	<.5	
10528A	41	78	16	79	211	<2	.6	.5	1.4	<.5	
10528B	4	19	7	25	26	<2	.5	.5	<.5	<.5	
10529	3	4	<3	33	<1	<2	.6	.5	1.4	<.5	
10530	3	<1	<3	41	<1	<2	.6	.5	<.5	<.5	
RE 10530	3	<1	<3	33	<1	<2	.6	.5	<.5	<.5	
10531	3	<1	<3	34	<1	<2	.5	.5	<.5	<.5	
10532	3	<1	<3	37	<1	<2	.5	.5	<.5	<.5	
10533	2	<1	<3	34	<1	<2	.6	.5	<.5	<.5	
10534	3	<1	<3	41	<1	<2	.6	.5	<.5	<.5	
10535	3	2	<3	33	1	<2	.4	.5	<.5	<.5	
10536	1	68	<3	21	47	<2	<.2	1.2	<.5	<.5	
10537	7	50	15	36	69	3	.5	.5	<.5	<.5	
STANDARD C3	27	65	32	168	35	62	24	14	22	6	
STANDARD G-2	3	3	<3	49	8	<2	<.2	.5	<.5	<.5	

GROUP 10 - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.  
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, NM, AS, V, LA, CR = 10,000 PPM.  
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPM  
- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Retuns and 'RRE' are Reject Retuns.

DATE RECEIVED: JUN 29 2001 DATE REPORT MAILED: July 18/01 SIGNED BY: C. Toy D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only. Data FA

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Note: Only samples 10526, 10527A, 10527B, 10536, and 10537 from the Mara Claims.

**APPENDIX 2B: ANALYTICAL REPORT BY ACME ANALYTICAL LABORATORIES LTD. FOR  
PAN CONCENTRATES COLLECTED FROM THE MARA CLAIMS IN 2001**

<b>ACME ANALYTICAL LABORATORIES LTD.</b> (ISO 9002 Accredited Co.)		857 HASTINGS ST. VANCOUVER BC V6C 1R6		PHONE (604) 253-3158 FAX (604) 253-1716			
<b>AA</b>		<b>GEOCHEMICAL ANALYSIS CERTIFICATE</b>				<b>AA</b>	
<b>Dahrouge Geological Consulting</b>		File # A101612		(a)			
18 - 10509 - 81 Ave, Edmonton AB T5E 1T7		Submitted by: Jeff Reader					

SAMPLE#	Ba	Co	Cs	Ga	Hf	Nb	Rb	Sr	Sr	Ta	Th	Tl	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
10626	180	12.6	1.2	15.3	15.3	167.0	33.1	3	150.1	12.7	102.0	.3	19.7	87	7	638.3	184.3	351.2	677.1	73.23	293.9	48.8	7.63	35.95	5.29	32.35	6.81	20.90	2.87	19.62	2.87
10627	148	10.1	1.4	15.4	23.8	80.2	34.1	2	88.4	6.6	145.7	.3	26.3	74	9	920.4	192.7	449.2	858.0	94.53	362.5	62.4	9.25	45.47	6.51	36.45	7.15	21.59	3.02	20.65	3.10
10628	175	10.8	1.8	15.5	23.7	61.7	50.4	2	77.7	6.1	148.1	.3	27.4	65	5	920.6	172.6	463.3	905.5	99.51	385.3	64.8	9.16	44.88	6.09	33.34	6.34	19.42	2.64	18.55	2.77
10629	180	16.3	.9	15.5	22.9	263.7	27.3	5	148.9	30.3	108.1	.4	29.9	131	11	1045.1	235.6	426.2	782.7	81.79	307.2	53.7	9.50	38.75	5.98	38.08	8.79	27.59	3.88	27.49	4.06
10632	243	15.4	.7	15.0	14.6	133.8	23.1	4	250.7	14.3	55.9	.5	15.1	118	7	694.5	135.3	229.6	421.5	45.25	170.1	29.3	6.02	22.45	3.52	22.57	4.96	15.07	2.21	14.28	2.13
10633	110	23.9	.8	17.0	39.1	423.4	13.3	6	154.9	32.6	116.7	.8	29.4	215	14	1981.0	256.1	415.0	789.3	86.26	321.7	54.8	11.09	40.57	6.65	41.48	9.48	28.80	4.13	27.58	4.20
10634	149	26.9	.7	18.9	58.1	1562.8	17.3	12	528.9	512.2	211.4	.4	334.4	578	11	2988.1	200.1	511.2	1041.7	116.20	464.9	79.6	19.18	57.58	7.73	42.11	7.86	21.79	2.82	18.14	2.68
10635	140	26.0	.5	20.6	81.2	2369.1	13.8	14	428.1	795.2	326.6	.3	556.5	595	8	4256.8	207.9	530.0	1074.5	117.79	459.0	78.7	19.53	53.31	7.56	42.73	7.98	22.39	2.84	18.58	2.67
RE 10635	146	26.5	.5	21.9	80.7	2299.3	14.2	14	413.1	802.6	314.0	.2	565.3	611	9	4321.1	199.8	533.7	1050.7	118.67	471.4	79.6	19.82	54.23	7.78	42.50	8.01	21.88	2.89	18.70	2.69
STANDARD SO-15	2038	22.0	2.7	16.5	25.4	30.3	64.4	16	398.6	1.8	24.9	1.0	19.4	146	19	1107.5	23.0	27.8	55.5	5.92	23.1	4.1	1.00	3.91	.58	3.63	.84	2.43	.37	2.50	.42

GROUP 4B - REE - LIBOX FUSION, ICP/MS FINISHED.  
- SAMPLE TYPE: PAN CONC.  
Samples beginning 'RE' are Reruns and 'RRE' are Select Reruns.

DATE RECEIVED: JUN 8 2001    DATE REPORT MAILED: *June 21/01*    SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data *CPA*

APPENDIX 2B: CONTINUED

ACME ANALYTICAL LABORATORIES LTD. 85 HASTINGS ST. VANCOUVER BC V 1R6 PHONE (604) 253-3158 FAX (604) 253-1716  
 (ISO 9002 Accredited Co.)  
**AA** GEOCHEMICAL ANALYSIS CERTIFICATE **AA**  
 Dahrouge Geological Consulting File # A101612 (b)  
 18 10509 - 81 Ave, Edmonton AB T6E 1T7 Submitted by: Jeff Reader

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	As ppm	Cd ppm	Sb ppm	Bi ppm	Ag ppm
10626	5	8	4	31	20	<2	<.2	<.5	1.5	<.5
10627	7	11	5	31	16	<2	<.2	<.5	<.5	<.5
10628	3	6	4	30	14	<2	<.2	<.5	<.5	<.5
10629	6	2	3	32	15	<2	<.2	<.5	<.5	<.5
10632	3	7	<3	22	13	<2	<.2	<.5	1.1	<.5
10633	4	7	<3	29	14	<2	<.2	<.5	1.8	<.5
10634	<1	12	<3	77	15	<2	<.2	<.5	<.5	<.5
10635	<1	7	3	88	9	<2	<.2	<.5	<.5	<.5
RE 10635	<1	6	3	84	9	<2	<.2	<.5	<.5	<.5
STANDARD C3	26	64	31	167	34	59	25.3	16.7	22.4	6.1
STANDARD G-2	1	2	<3	44	7	<2	<.2	<.5	.6	<.5

GROUP 1D - 0.50 GN SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.  
 UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.  
 - SAMPLE TYPE: PAN CONC. Samples beginning 'RE' are Reconc and 'RRE' are Relect Reconc.

DATE RECEIVED: JUN 8 2001 DATE REPORT MAILED: *June 21/01* SIGNED BY: *C. Toy* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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## APPENDIX 3A:

**DESCRIPTIONS AND COMPOSITIONS OF SAMPLES COLLECTED IN 2001  
FROM THE MARA CLAIMS**

Notes: UTM Coordinates are NAD 83. See Appendix 2A for analytical results.

Sample	UTM - Coords			Sample		Description	Composition			
	Easting	Northing	Elev.	Type	Length (m)		Nb <sub>2</sub> O <sub>5</sub> (%)	Ta <sub>2</sub> O <sub>5</sub> (%)	P <sub>2</sub> O <sub>5</sub> (%)	U (ppm)
<b>Roadside Carbonatite (Verity-Paradise Carbonatite Complex)</b>										
10526	357159	5806762	1533	Grab	¼	<b>Apatite Sovite</b> , brown to light-grey; up to 5% apatite as rounded, translucent to transparent, oval grains up to 4 mm across, 1-2 % magnetite blebs to 1½ cm; minor phlogopite; trace forest-green amphibole to 4mm (near 11835?)	24	3.8	3.65	2.2
10527A	357159	5806792	1533	Chip	3½	<b>Apatite Sovite</b> , crumbly - deeply weathered; brownish-orange to rusty-brown; less than 5% apatite as rounded, milky to light-grey, oval grains up to 4 mm across, abundant magnetite nodules up to 20 cm; very coarse grained phase	1,216	100.3	3.95	39.8
10527B	357159	5806792	1533	Grab	-	<b>Magnetite Nodules</b> , up to 20 cm across; black; with some inclusions of apatite, amphibole, carbonate, and pyrochlore	323	13.6	0.46	2.8
-	357175	5806565	1537	-	-	<b>Phlogopite Apatite Beforsite</b> (prior samples 11833, 34); the 'dyke' cuts near perpendicular to the regional foliation of 029° / 14° NE	-	-	-	-
10536	357165	5806580	1543	Chips	3	<b>Phlogopite Apatite Beforsite</b> (prior samples 11833, 34) regional foliation of 030° / 20° E	137	20.6	1.15	3.2
10537	355484	5808373	1591	Float		<b>Carbonatite</b> , rusty-red, highly oxidized and deeply weathered, crumbly, in new road cut, few grains of apatite	321	79.9	9.22	51.4

## APPENDIX 3B:

LOCATIONS AND COMPOSITION OF PAN CONCENTRATE SAMPLES  
COLLECTED IN 2001 FROM THE MARA CLAIMS

Notes: UTM co-ordinates are NAD 83. See Appendix 2B for analytical results.

Sample Number	UTM Co-ordinates		Nb ppm	Ta ppm	Sr ppm	Th ppm	U ppm	Zr ppm
	Easting	Northing						
10626	352,453	5,805,119	167.0	12.7	150.1	102.0	19.7	638.3
10627	352,459	5,805,221	80.2	6.6	88.4	145.7	26.3	920.4
10628	352,560	5,805,535	61.7	6.1	77.7	148.1	27.4	920.6
10629	352,609	5,806,314	263.7	30.3	148.9	108.1	29.9	1,045.1
10631	352,653	5,806,578						
10632	358,249	5,805,919	133.8	14.3	250.7	55.9	15.1	694.5
10633	357,217	5,805,924	423.4	32.6	154.9	116.7	29.4	1,981.0
10634	356,885	5,806,024	1,562.8	512.2	528.9	211.4	334.4	2,988.1
10635	354,024	5,807,862	2,369.1	795.2	428.1	326.6	556.5	4,256.8

## APPENDIX 4: NOTES ON MINERALOGY (Dr. Anthony Mariano)

Slide No.	Identification	Location and Date
T-738	#1 357159 2000 cpm 5806762 1533m EPE 13m	Blue River, B.C. 6/15/01
T-738A	#2 352379 5796442 1034m EPE 12m	" " 6/16/01
T-738B	#3 351874 600 cpm 5796442 1034m EPE 16m	" " 6/17/01
T-738C	#3 " " "	" " "
T-738D	#4 351818 600 cpm 5797614 789m EPE 8	" " "
T-738E	#4 " " "	" " "
T-738F	#5 357165 5806580 1543m EPE 8m	" " 6/19/01
T-738G	Roadside carbonatite 357131 5806782 1560m EPE 12m	" " "
T-738H	357387 1714 m } Ryan's Sample 5807023 EPE8 } # 15 (14451) Sovite	" " 10-13-01
T-738I	357213 near road 5806543 approx. 200 Ta Sovite	" " from Jody 10-15-01
T-738J	Gum Creek Carbonatite Sovite (10538)	" " "
T-738K	VDH-1 316'7" Sovite	" " 10-14-01
T-738L	" 216'4"	" " "
T-738M	" 159'3"	" " "
T-738N	VDH-2 164'4"	" " "

Note: Only samples T-738, T-738F, T-738G, T-738H, and T-738I are from the Mara Claims.

## APPENDIX 4: CONTINUED

Paradise Mountain Carbonatites \*

Søvites and beforsites with mineralogy identical to that of the Verity and Mill areas outcrop approximately 5 km east of the lowest showing on the Verity. They lie in alpine country at elevations of 6400-7700'.

On the west and southwest side of Paradise Mountain søvite, nepheline syenite amphibolite and massive fenite outcrop in a steep felsnmeer slope. Søvites and beforsites occur as eroding sugar gravel tongues trending southwesterly down a gentle slope in the northeast part of an alpine basin known as Paradise Meadow about 5 km east of mile post 109 at an altitude of 7000'.

The thickness of the surface exposure is about 30 m. The zone strikes NS and dips 30° to the west. It trends down the mountain slope in a southwest direction.

Another exposure some 450 m south and 500' lower in elevation may be a continuation of the same zone. It has the same strike and dip but to link up would have to be offset by faulting or folding which is very prevalent in the area. The dolomite-vermiculite portion appears to be on the northwest side whereas in the main Paradise exposures it is on the southeast side. This zone has been partially outlined by pitting. The pits extend over a distance of 240 m by 45 m. The thickness of the zone is probably 25 m.

Inclusions of banded gneiss follow the carbonate layering. Smith (1954) has suggested a connection between the Paradise and Verity showings by an open syncline and has postulated thickening in the trough of the syncline. This concept argues for a sedimentary origin of the carbonate rocks, however, the mineralogy and trace element geochemistry of the Blue River carbonate rocks is similar to that of carbonatite plugs, classical ring structures and volcanos from other world areas (see section on trace element geochemistry). These characteristics do not derive from a sedimentary origin.

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\*Note: Comments on the Paradise - Roadside Carbonatite Area area from Mariano (1982).

## APPENDIX 5A:

## MAGNETOMETER READINGS FROM THE MARA CLAIMS

Notes: The local grid is based on UTM Grid NAD 83. A Grid Easting/Easting of 3200, 7500 corresponds to UTM 353200, 5807500. Magnetic readings are Total Magnetic Intensity (TMI), with readings corrected for diurnal variation.

Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI
Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)
<b>VERITY CARBONATITE (VPCC)</b>											
<b>Line 2900 East</b>			<b>Line 2900 East (cont.)</b>			<b>Line 2900 East (cont.)</b>			<b>Line 3000 East (cont.)</b>		
2900	7500	57019.5	2900	7725	56970.8	2900	7950	56943.7	3000	7625	56991.3
2900	7505	57020.4	2900	7730	56972.4	2900	7955	56957.3	3000	7630	56983.3
2900	7510	57022.4	2900	7735	56981.4	2900	7960	56960.7	3000	7635	56976.4
2900	7515	57018.3	2900	7740	56985.2	2900	7965	56960.6	3000	7640	56977.0
2900	7520	57015.0	2900	7745	56989.7	2900	7970	56969.0	3000	7645	56963.7
2900	7525	57008.2	2900	7750	56994.2	2900	7975	56977.4	3000	7650	56965.7
2900	7530	57002.9	2900	7755	57001.6	2900	7980	56978.8	3000	7655	56966.6
2900	7535	56990.8	2900	7760	57005.5	2900	7985	56979.2	3000	7660	56968.8
2900	7540	56983.8	2900	7765	57010.7	2900	7990	56978.1	3000	7665	56967.5
2900	7545	56974.9	2900	7770	57014.7	2900	7995	56981.8	3000	7670	56971.5
2900	7550	56977.9	2900	7775	57022.0				3000	7675	56969.2
2900	7555	56975.7	2900	7780	57029.7	<b>Line 3000 East</b>			3000	7680	56966.8
2900	7560	56970.7	2900	7785	57037.2	3000	7460	57110.0	3000	7685	56965.3
2900	7565	56967.6	2900	7790	57045.0	3000	7465	57111.4	3000	7690	56958.9
2900	7570	56962.7	2900	7795	57056.4	3000	7470	57107.1	3000	7695	56957.3
2900	7575	56959.4	2900	7800	57069.1	3000	7475	57100.0	3000	7700	56959.7
2900	7580	56956.1	2900	7805	57086.2	3000	7480	57101.6	3000	7705	56962.8
2900	7585	56950.7	2900	7810	57103.7	3000	7485	57106.5	3000	7710	56961.7
2900	7590	56952.2	2900	7815	57120.4	3000	7490	57096.3	3000	7715	56960.8
2900	7595	56947.8	2900	7820	57127.8	3000	7495	57097.4	3000	7720	56964.2
2900	7600	56943.1	2900	7825	57140.4	3000	7500	57082.5	3000	7725	56966.4
2900	7605	56935.7	2900	7830	57153.1	3000	7505	57084.1	3000	7730	56970.0
2900	7610	56940.9	2900	7835	57166.7	3000	7510	57077.0	3000	7735	56971.4
2900	7615	56938.7	2900	7840	57176.3	3000	7515	57083.2	3000	7740	56972.0
2900	7620	56937.8	2900	7845	57190.4	3000	7520	57097.3	3000	7745	56972.8
2900	7625	56934.2	2900	7850	57211.4	3000	7525	57060.9	3000	7750	56974.3
2900	7630	56943.0	2900	7855	57215.7	3000	7530	57045.1	3000	7755	56978.1
2900	7635	56941.0	2900	7860	57220.3	3000	7535	57040.3	3000	7760	56979.9
2900	7640	56941.8	2900	7865	57212.8	3000	7540	57040.8	3000	7765	56981.6
2900	7645	56938.3	2900	7870	57199.4	3000	7545	57038.3	3000	7770	56980.6
2900	7650	56941.1	2900	7875	57184.0	3000	7550	57039.5	3000	7775	56986.8
2900	7655	56943.6	2900	7880	57174.6	3000	7555	57016.8	3000	7780	56991.0
2900	7660	56948.3	2900	7885	57174.7	3000	7560	57004.7	3000	7785	56995.6
2900	7665	56951.4	2900	7890	57166.8	3000	7565	57022.6	3000	7790	57002.4
2900	7670	56954.5	2900	7895	57157.3	3000	7570	57020.1	3000	7795	57015.8
2900	7675	56956.0	2900	7900	57137.7	3000	7575	57011.1	3000	7800	57024.9
2900	7680	56960.0	2900	7905	57126.7	3000	7580	56993.5	3000	7805	57032.2
2900	7685	56963.6	2900	7910	57102.2	3000	7585	56986.3	3000	7810	57041.5
2900	7690	56971.1	2900	7915	57089.2	3000	7590	56990.6	3000	7815	57056.2
2900	7695	56961.6	2900	7920	57072.4	3000	7595	56993.8	3000	7820	57079.0
2900	7700	56966.9	2900	7925	57056.8	3000	7600	56993.1	3000	7825	57079.3
2900	7705	56971.5	2900	7930	57028.9	3000	7605	56997.6	3000	7830	57094.9
2900	7710	56972.1	2900	7935	56994.1	3000	7610	57011.1	3000	7835	57115.5
2900	7715	56974.4	2900	7940	56967.9	3000	7615	56994.3	3000	7840	57142.6
2900	7720	56971.2	2900	7945	56956.4	3000	7620	56992.1	3000	7845	57164.9

## APPENDIX 5A:

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Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI
Easting	Easting		(nT)	Easting	Easting		(nT)	Easting	Easting		(nT)	Easting	Easting		(nT)
<b>Line 3000 East (cont.)</b>				<b>Line 3100 East (cont.)</b>				<b>Line 3100 East (cont.)</b>				<b>Line 3200 East (cont.)</b>			
3000	7850		57184.1	3100	7580		57026.9	3100	7830		56929.2	3200	7575		57046.0
3000	7855		57188.8	3100	7585		57033.7	3100	7835		56928.6	3200	7580		57031.0
3000	7860		57195.1	3100	7590		57051.5	3100	7840		56927.8	3200	7585		57012.4
3000	7865		57199.4	3100	7595		57096.1	3100	7845		56936.7	3200	7590		56999.9
3000	7870		57189.9	3100	7600		57200.5	3100	7850		56947.8	3200	7595		56982.0
3000	7875		57189.1	3100	7605		57188.7	3100	7855		56947.6	3200	7600		56959.7
3000	7880		57184.8	3100	7610		56808.4	3100	7860		56952.5	3200	7605		56929.6
3000	7885		57181.0	3100	7615		56821.7	3100	7865		56959.9	3200	7610		56916.9
3000	7890		57173.0	3100	7620		56887.9	3100	7870		56967.5	3200	7615		56903.4
3000	7895		57167.1	3100	7625		56921.0	3100	7875		56969.0	3200	7620		56901.7
3000	7900		57156.9	3100	7630		56927.1	3100	7880		56974.1	3200	7625		56910.4
3000	7905		57145.9	3100	7635		56946.1	3100	7885		56974.9	3200	7630		56926.5
3000	7910		57129.3	3100	7640		56954.3	3100	7890		56979.7	3200	7635		56945.1
3000	7915		57110.0	3100	7645		56952.9	3100	7895		56991.6	3200	7640		56953.6
3000	7920		57112.1	3100	7650		56958.5	3100	7900		57003.8	3200	7645		57022.1
3000	7925		57083.6	3100	7655		56969.0	3100	7905		57003.4	3200	7650		57050.0
3000	7930		57070.1	3100	7660		56980.5	3100	7910		57006.6	3200	7655		56854.6
3000	7935		57056.9	3100	7665		56991.3	3100	7915		57015.2	3200	7660		56994.9
3000	7940		57024.0	3100	7670		56994.1	3100	7920		57024.6	3200	7665		57075.0
3000	7945		57008.2	3100	7675		56991.9	3100	7925		57033.2	3200	7670		57085.0
3000	7950		56987.5	3100	7680		57004.5	3100	7930		57048.7	3200	7675		57087.0
3000	7955		56975.4	3100	7685		57022.2	3100	7935		57053.0	3200	7680		57035.2
3000	7960		56966.0	3100	7690		57026.0	3100	7940		57059.0	3200	7685		56857.3
3000	7965		56961.3	3100	7695		57046.8	3100	7945		57072.2	3200	7690		56880.3
3000	7970		56960.7	3100	7700		57057.9	3100	7950		57077.8	3200	7695		56622.4
3000	7975		56962.9	3100	7705		57060.7	3100	7955		57073.9	3200	7700		56632.6
3000	7980		56969.5	3100	7710		57057.1	3100	7960		57063.0	3200	7705		56607.0
3000	7985		56971.0	3100	7715		57041.1	3100	7965		57056.7	3200	7710		56612.9
3000	7990		56976.3	3100	7720		57033.6	3100	7970		57046.0	3200	7715		56629.6
3000	7995		56976.6	3100	7725		57012.1	3100	7975		57042.6	3200	7720		56664.9
3000	8000		56978.7	3100	7730		56992.2	3100	7980		57051.3	3200	7725		56732.1
				3100	7735		56967.0	3100	7985		57037.7	3200	7730		56976.4
				3100	7740		56952.6	3100	7990		57024.9	3200	7735		56841.8
<b>Line 3100 East</b>				3100	7745		56951.7	3100	7995		57016.7	3200	7740		56849.9
3100	7495		57106.4	3100	7750		56952.5					3200	7745		56860.1
3100	7500		57121.9	3100	7755		56939.5	<b>Line 3200 East</b>				3200	7750		56889.0
3100	7505		57142.6	3100	7760		56948.2	3200	7505		57102.3	3200	7755		56907.0
3100	7510		57159.0	3100	7765		56964.1	3200	7510		57107.1	3200	7760		56902.0
3100	7515		57141.9	3100	7770		56961.7	3200	7515		57119.8	3200	7765		56927.3
3100	7520		57129.0	3100	7775		56961.3	3200	7520		57099.3	3200	7770		56919.0
3100	7525		57130.1	3100	7780		56951.8	3200	7525		57103.6	3200	7775		56917.6
3100	7530		57133.4	3100	7785		56941.6	3200	7530		57109.0	3200	7780		56921.7
3100	7535		57142.9	3100	7790		56927.9	3200	7535		57111.7	3200	7785		56897.8
3100	7540		57120.7	3100	7795		56921.0	3200	7540		57104.1	3200	7790		56901.8
3100	7545		57200.0	3100	7800		56916.2	3200	7545		57104.0	3200	7795		56899.1
3100	7550		57198.7	3100	7805		56914.9	3200	7550		57094.1	3200	7800		56901.1
3100	7555		56993.7	3100	7810		56902.2	3200	7555		57088.5	3200	7805		56926.2
3100	7560		57028.4	3100	7815		56896.2	3200	7560		57079.6	3200	7810		56908.5
3100	7565		57038.4	3100	7820		56902.5	3200	7565		57062.6	3200	7815		56914.5
3100	7570		57041.0	3100	7825		56916.9	3200	7570		57053.0	3200	7820		56920.3
3100	7575		57034.6												

APPENDIX 5A:

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Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Easting		Easting	(nT)	Easting		Easting	(nT)	Easting		Easting	(nT)	Easting		Easting	(nT)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
<u>Line 3200 East</u> (cont.)				<u>Line 3300 East</u> (cont.)				<u>Line 3300 East</u> (cont.)				<u>Line 3400 East</u> (cont.)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
3200	7825	56929.0	3300	7565	57204.8	3300	7820	56920.0	3400	7545	57121.5	3200	7830	56931.6	3300	7570	57161.8	3300	7825	57025.3	3400	7550	57125.5	3200	7835	56936.3	3300	7575	57103.4	3300	7830	57012.9	3400	7555	57127.9	3200	7840	56940.4	3300	7580	57063.1	3300	7835	57065.6	3400	7560	57144.3	3200	7845	56946.3	3300	7585	57033.1	3300	7840	56908.0	3400	7565	57150.0	3200	7850	56944.5	3300	7590	57009.7	3300	7845	56923.1	3400	7570	57162.8	3200	7855	56944.5	3300	7595	57001.0	3300	7850	56889.1	3400	7575	57163.6	3200	7860	56940.1	3300	7600	56999.0	3300	7855	56916.7	3400	7580	57164.8	3200	7865	56943.8	3300	7605	57032.5	3300	7860	57042.4	3400	7585	57191.5	3200	7870	56946.4	3300	7610	57080.0	3300	7865	57035.0	3400	7590	57244.0	3200	7875	56945.6	3300	7615	57140.8	3300	7870	56951.2	3400	7595	57234.6	3200	7880	56950.0	3300	7620	57243.7	3300	7875	56889.2	3400	7600	57227.4	3200	7885	56951.0	3300	7625	57421.6	3300	7880	56970.4	3400	7605	57230.8	3200	7890	56959.1	3300	7630	57468.4	3300	7885	56998.3	3400	7610	57262.1	3200	7895	56961.2	3300	7635	57314.1	3300	7890	56966.8	3400	7615	57347.5	3200	7900	56963.7	3300	7640	56890.3	3300	7895	56945.3	3400	7620	57299.9	3200	7905	56965.1	3300	7645	56799.1	3300	7900	56911.6	3400	7625	57109.4	3200	7910	56965.3	3300	7650	56954.3	3300	7905	57051.4	3400	7630	57126.9	3200	7915	56968.3	3300	7655	56976.2	3300	7910	57087.9	3400	7635	57238.4	3200	7920	56991.3	3300	7660	56910.6	3300	7915	57066.2	3400	7640	57243.4	3200	7925	56978.2	3300	7665	56935.1	3300	7920	56985.6	3400	7645	57200.6	3200	7930	56981.0	3300	7670	56893.9	3300	7925	56952.0	3400	7650	57092.1	3200	7935	56984.9	3300	7675	56759.4	3300	7930	56964.2	3400	7655	56493.9	3200	7940	57013.8	3300	7680	56770.6	3300	7935	56947.5	3400	7660	56493.2	3200	7945	57005.4	3300	7685	57018.3	3300	7940	56968.9	3400	7665	56874.5	3200	7950	56988.9	3300	7690	57176.4	3300	7945	56952.2	3400	7670	56920.1	3200	7955	56991.3	3300	7695	57264.9	3300	7950	56953.0	3400	7675	56897.9	3200	7960	56991.3	3300	7700	57279.7	3300	7955	56957.3	3400	7680	57048.7	3200	7965	56992.1	3300	7705	57283.9	3300	7960	56965.6	3400	7685	57005.9	3200	7970	56983.8	3300	7710	57155.4	3300	7965	56971.9	3400	7690	56887.6	3200	7975	56982.3	3300	7715	56600.2	3300	7970	56964.0	3400	7695	56865.9	3200	7980	56981.3	3300	7720	55850.3	3300	7975	56971.2	3400	7700	56885.0	3200	7985	57060.7	3300	7725	55799.4	3300	7980	56968.8	3400	7705	56799.5	3200	7990	57030.0	3300	7730	56089.0	3300	7985	56967.8	3400	7710	56880.3	3200	7995	57050.2	3300	7735	56000.3	3300	7990	56967.8	3400	7715	56822.1	3200	8000	57034.3	3300	7740	56491.5	3300	7995	56965.9	3400	7720	56573.0	3300	7745	56628.4	3300	8000	57023.9	3400	7725	56485.4	3300	7750	56617.0	3300	8005	57086.0	3400	7730	56276.9	3300	7755	56872.3	3300	8010	57080.6	3400	7735	56353.2	3300	7760	56956.9	3300	8015	57061.5	3400	7740	56552.8	3300	7765	56711.4				3400	7745	56914.6	3300	7770	56163.5				3400	7750	57079.7	3300	7775	56380.7				3400	7755	57209.1	3300	7780	56639.1				3400	7760	57260.6	3300	7785	56728.2				3400	7765	57258.3	3300	7790	56783.5				3400	7770	55783.4	3300	7795	56877.2				3400	7775	55704.2	3300	7800	56886.9				3400	7780	56344.0	3300	7805	56910.4				3400	7785	56762.2	3300	7810	56898.2				3400	7790	56758.3	3300	7815	56873.4				3400	7795	56763.3
<u>Line 3300 East</u>				<u>Line 3400 East</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
3300	7500	56956.9	3300	7755	56872.3	3300	8010	57080.6	3400	7500	56745.4	3400	7755	57209.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
3300	7505	57110.2	3300	7760	56956.9	3300	8015	57061.5	3400	7505	56871.1	3400	7760	57260.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
3300	7510	57135.7	3300	7765	56711.4				3400	7510	57013.8	3400	7765	57258.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
3300	7515	57147.9	3300	7770	56163.5				3400	7515	57054.6	3400	7770	55783.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
3300	7520	57153.3	3300	7775	56380.7				3400	7520	57052.9	3400	7775	55704.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
3300	7525	57182.6	3300	7780	56639.1				3400	7525	57065.4	3400	7780	56344.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
3300	7530	57190.0	3300	7785	56728.2				3400	7530	57077.7	3400	7785	56762.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
3300	7535	57208.2	3300	7790	56783.5				3400	7535	57082.7	3400	7790	56758.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
3300	7540	57226.5	3300	7795	56877.2				3400	7540	57103.8	3400	7795	56763.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
3300	7545	57239.6	3300	7800	56886.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
3300	7550	57245.8	3300	7805	56910.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
3300	7555	57241.5	3300	7810	56898.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
3300	7560	57228.0	3300	7815	56873.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

## APPENDIX 5A:

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Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI
Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)
<b>Line 3500 East</b>			<b>Line 3500 East (cont.)</b>			<b>Line 3500 East (cont.)</b>			<b>Line 3600 East (cont.)</b>		
3500	7500	56973.6	3500	7755	57724.5	3500	8010	56975.3	3600	7715	57129.6
3500	7505	56968.1	3500	7760	57927.8	3500	8015	56944.8	3600	7720	57081.6
3500	7510	57003.4	3500	7765	58026.5	3500	8020	56925.3	3600	7725	56972.9
3500	7515	57006.0	3500	7770	58169.5				3600	7730	56996.2
3500	7520	56965.0	3500	7775	56431.2	<b>Line 3600 East</b>			3600	7735	57046.4
3500	7525	56988.2	3500	7780	56549.5	3600	7475	57085.8	3600	7740	57279.8
3500	7530	57070.2	3500	7785	56734.9	3600	7480	57124.7	3600	7745	57320.5
3500	7535	57069.4	3500	7790	55283.9	3600	7485	57556.3	3600	7750	57281.4
3500	7540	57081.2	3500	7795	55660.3	3600	7500	57483.2	3600	7755	57198.1
3500	7545	57083.0	3500	7800	55979.6	3600	7505	58194.8	3600	7760	57031.6
3500	7550	57100.4	3500	7805	56038.8	3600	7510	57258.7	3600	7765	56982.4
3500	7555	57135.0	3500	7810	56223.6	3600	7515	56739.4	3600	7770	56909.9
3500	7560	57159.0	3500	7815	56825.8	3600	7520	56750.5	3600	7775	56972.1
3500	7565	57195.4	3500	7820	56879.6	3600	7525	56810.4	3600	7780	56712.8
3500	7570	57220.2	3500	7825	56728.5	3600	7530	56867.4	3600	7785	56133.5
3500	7575	57215.8	3500	7830	57035.4	3600	7535	56909.6	3600	7790	55883.3
3500	7580	57230.0	3500	7835	57247.8	3600	7540	56977.5	3600	7795	55835.1
3500	7585	57244.8	3500	7840	57157.3	3600	7545	56996.4	3600	7800	55835.9
3500	7590	57241.3	3500	7845	56806.6	3600	7550	57015.0	3600	7805	55903.1
3500	7595	57317.4	3500	7850	56556.6	3600	7555	57049.2	3600	7810	56487.7
3500	7600	57354.0	3500	7855	56126.4	3600	7560	57063.6	3600	7815	56628.7
3500	7605	57397.7	3500	7860	56033.5	3600	7565	57076.1	3600	7820	56525.3
3500	7610	57394.7	3500	7865	56364.9	3600	7570	57119.5	3600	7825	56558.2
3500	7615	57418.7	3500	7870	56500.6	3600	7575	57141.4	3600	7830	56617.3
3500	7620	57418.5	3500	7875	56668.6	3600	7580	57173.7	3600	7835	56647.7
3500	7625	57425.0	3500	7880	57035.9	3600	7585	57193.4	3600	7840	56724.2
3500	7630	57446.1	3500	7885	56960.8	3600	7590	57230.6	3600	7845	56875.6
3500	7635	57475.4	3500	7890	56638.1	3600	7595	57248.6	3600	7850	56922.9
3500	7640	57503.6	3500	7895	56632.3	3600	7600	57291.1	3600	7855	56825.2
3500	7645	57520.8	3500	7900	56806.6	3600	7605	57308.6	3600	7860	56732.7
3500	7650	57492.7	3500	7905	57053.6	3600	7610	57314.4	3600	7865	56890.1
3500	7655	57347.8	3500	7910	56695.8	3600	7615	57316.0	3600	7870	56861.7
3500	7660	57347.4	3500	7915	56783.7	3600	7620	57308.5	3600	7875	56994.5
3500	7665	57245.8	3500	7920	56911.2	3600	7625	57294.1	3600	7880	56973.7
3500	7670	57235.4	3500	7925	56934.5	3600	7630	57282.1	3600	7885	56787.3
3500	7675	57180.3	3500	7930	56919.8	3600	7635	57257.1	3600	7890	56791.7
3500	7680	57134.0	3500	7935	56907.9	3600	7640	57232.9	3600	7895	56832.0
3500	7685	57240.3	3500	7940	56912.2	3600	7645	57214.5	3600	7900	56869.9
3500	7690	57172.9	3500	7945	56906.9	3600	7650	57210.5	3600	7905	56916.3
3500	7695	57113.4	3500	7950	56849.3	3600	7655	57223.7	3600	7910	56865.7
3500	7700	57115.0	3500	7955	56904.5	3600	7660	57247.3	3600	7915	56714.0
3500	7705	57148.4	3500	7960	56935.4	3600	7665	57222.5	3600	7920	56853.7
3500	7710	57173.2	3500	7965	56941.2	3600	7670	57276.1	3600	7925	56925.8
3500	7715	57051.3	3500	7970	56922.9	3600	7675	57286.1	3600	7930	56950.9
3500	7720	57026.5	3500	7975	56934.0	3600	7680	57260.5	3600	7935	57069.2
3500	7725	56986.4	3500	7980	56955.3	3600	7685	57230.2	3600	7940	57069.1
3500	7730	56996.4	3500	7985	56942.7	3600	7690	57186.4	3600	7945	57002.0
3500	7735	57065.5	3500	7990	56946.4	3600	7695	57156.4	3600	7950	56940.4
3500	7740	57153.8	3500	7995	56936.8	3600	7700	57138.2	3600	7955	56942.2
3500	7745	57320.8	3500	8000	56965.9	3600	7705	57146.6	3600	7960	56890.0
3500	7750	57512.1	3500	8005	56979.7	3600	7710	57144.2	3600	7965	56944.8





## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI
Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)
<u>Line 3900 East (cont.)</u>			<u>Line 3900 East (cont.)</u>			<u>Line 3900 East (cont.)</u>			<u>Line 3900 East (cont.)</u>		
3900	6620	56860.1	3900	6875	56767.4	3900	7130	56693.6	3900	7385	56857.8
3900	6625	56866.6	3900	6880	56770.3	3900	7135	56700.7	3900	7390	56805.9
3900	6630	56895.5	3900	6885	56766.4	3900	7140	56708.8	3900	7395	56751.1
3900	6635	56918.9	3900	6890	56762.4	3900	7145	56701.7	3900	7400	56751.2
3900	6640	56936.9	3900	6895	56751.0	3900	7150	56722.3	3900	7405	56858.8
3900	6645	56952.3	3900	6900	56735.7	3900	7155	56724.6	3900	7410	56827.4
3900	6650	56954.2	3900	6905	56733.8	3900	7160	56735.2	3900	7415	56811.1
3900	6655	56959.2	3900	6910	56731.2	3900	7165	56733.9	3900	7420	56863.9
3900	6660	56929.1	3900	6915	56737.0	3900	7170	56738.7	3900	7425	56815.9
3900	6665	56944.2	3900	6920	56741.4	3900	7175	56749.2	3900	7430	56809.4
3900	6670	56980.6	3900	6925	56752.8	3900	7180	56755.3	3900	7435	56804.2
3900	6675	56976.8	3900	6930	56754.5	3900	7185	56764.0	3900	7440	56803.1
3900	6680	56928.9	3900	6935	56770.6	3900	7190	56768.1	3900	7445	56808.2
3900	6685	56875.7	3900	6940	56776.2	3900	7195	56777.1	3900	7450	56813.8
3900	6690	56831.7	3900	6945	56789.7	3900	7200	56768.9	3900	7455	56815.7
3900	6695	56811.2	3900	6950	56797.0	3900	7205	56775.3	3900	7460	56811.1
3900	6700	56797.7	3900	6955	56798.7	3900	7210	56797.4	3900	7465	56811.2
3900	6705	56803.3	3900	6960	56796.7	3900	7215	56801.2	3900	7470	56827.0
3900	6710	56807.8	3900	6965	56801.7	3900	7220	56801.9	3900	7475	56853.7
3900	6715	56806.0	3900	6970	56818.1	3900	7225	56808.2	3900	7480	56894.5
3900	6720	56761.5	3900	6975	56840.1	3900	7230	56819.4	3900	7485	56945.7
3900	6725	56745.6	3900	6980	56858.2	3900	7235	56823.4	3900	7490	56798.2
3900	6730	56761.0	3900	6985	56888.4	3900	7240	56839.4	3900	7495	56728.8
3900	6735	56779.8	3900	6990	56905.1	3900	7245	56848.8	3900	7500	56666.1
3900	6740	56764.2	3900	6995	56929.2	3900	7250	56860.9	3900	7500	56882.1
3900	6745	56771.7	3900	7000	56934.0	3900	7255	56861.5	3900	7505	56879.8
3900	6750	56769.7	3900	7005	56950.8	3900	7260	56886.3	3900	7510	56951.9
3900	6755	56758.0	3900	7010	56980.7	3900	7265	56917.7	3900	7515	56972.2
3900	6760	56748.6	3900	7015	56996.2	3900	7270	56859.7	3900	7520	56959.7
3900	6765	56742.3	3900	7020	57007.8	3900	7275	56853.4	3900	7525	56963.8
3900	6770	56756.4	3900	7025	57022.6	3900	7280	56829.5	3900	7530	56913.2
3900	6775	56772.6	3900	7030	57051.5	3900	7285	56814.5	3900	7535	56892.1
3900	6780	56786.0	3900	7035	57060.6	3900	7290	56794.0	3900	7540	56899.9
3900	6785	56790.8	3900	7040	57022.9	3900	7295	56753.0	3900	7545	56887.7
3900	6790	56779.2	3900	7045	56986.0	3900	7300	56730.6	3900	7550	56843.5
3900	6795	56774.1	3900	7050	56961.7	3900	7305	56694.8	3900	7555	56932.0
3900	6800	56774.8	3900	7055	56937.8	3900	7310	56664.4	3900	7560	56938.7
3900	6805	56750.6	3900	7060	56973.7	3900	7315	56634.5	3900	7565	56895.8
3900	6810	56743.8	3900	7065	56895.5	3900	7320	56676.9	3900	7570	56906.7
3900	6815	56739.2	3900	7070	56851.0	3900	7325	56721.9	3900	7575	56914.5
3900	6820	56745.7	3900	7075	56933.2	3900	7330	56739.5	3900	7580	56927.5
3900	6825	56732.0	3900	7080	56916.0	3900	7335	56756.7	3900	7585	56942.0
3900	6830	56726.9	3900	7085	56963.6	3900	7340	56766.5	3900	7590	56957.3
3900	6835	56711.6	3900	7090	56932.8	3900	7345	56769.6	3900	7595	56963.0
3900	6840	56714.2	3900	7095	56769.7	3900	7350	56776.1	3900	7600	56970.9
3900	6845	56712.3	3900	7100	56663.1	3900	7355	56739.1	3900	7605	56974.5
3900	6850	56716.9	3900	7105	56627.4	3900	7360	56726.6	3900	7610	56976.1
3900	6855	56732.3	3900	7110	56661.6	3900	7365	56734.9	3900	7615	56962.0
3900	6860	56741.6	3900	7115	56670.4	3900	7370	56743.8	3900	7620	56949.4
3900	6865	56746.5	3900	7120	56671.8	3900	7375	56746.3	3900	7625	56936.0
3900	6870	56755.5	3900	7125	56678.4	3900	7380	56811.0	3900	7630	56930.4

## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI
Easting	Easting		(nT)	Easting	Easting		(nT)	Easting	Easting		(nT)	Easting	Easting		(nT)
<b>Line 3900 East (cont.)</b>				<b>Line 3900 East (cont.)</b>				<b>Line 3900 East (cont.)</b>				<b>Line 3900 East (cont.)</b>			
3900	7635		56922.9	3900	7890		56792.8	3900	8145		56666.4	3900	8400		56761.0
3900	7640		56905.1	3900	7895		56802.9	3900	8150		56664.7	3900	8405		56752.3
3900	7645		56888.6	3900	7900		56802.3	3900	8155		56661.8	3900	8410		56749.5
3900	7650		56873.7	3900	7905		56792.2	3900	8160		56707.0	3900	8415		56775.2
3900	7655		56845.8	3900	7910		56793.9	3900	8165		56756.2	3900	8420		56777.4
3900	7660		56829.1	3900	7915		56816.7	3900	8170		56794.6	3900	8425		56779.0
3900	7665		56819.1	3900	7920		56841.6	3900	8175		56802.8	3900	8430		56769.3
3900	7670		56819.1	3900	7925		56847.6	3900	8180		56793.5	3900	8435		56754.8
3900	7675		56807.7	3900	7930		56856.8	3900	8185		56768.2	3900	8440		56749.9
3900	7680		56842.2	3900	7935		56851.0	3900	8190		56769.2	3900	8445		56742.7
3900	7685		56864.6	3900	7940		56870.1	3900	8195		56771.2	3900	8450		56742.4
3900	7690		56956.0	3900	7945		56872.9	3900	8200		56781.9	3900	8455		56744.0
3900	7695		57087.5	3900	7950		56871.2	3900	8205		56783.2	3900	8460		56755.1
3900	7700		57204.2	3900	7955		56878.3	3900	8210		56771.1	3900	8465		56754.0
3900	7705		57059.8	3900	7960		56889.2	3900	8215		56762.2	3900	8470		56770.1
3900	7710		56996.4	3900	7965		56889.9	3900	8220		56752.5	3900	8475		56790.8
3900	7715		56986.6	3900	7970		56878.5	3900	8225		56749.4	3900	8480		56782.1
3900	7720		57039.4	3900	7975		56893.3	3900	8230		56744.7	3900	8485		56769.6
3900	7725		57169.1	3900	7980		56866.1	3900	8235		56733.0	3900	8490		56759.8
3900	7730		57283.7	3900	7985		56868.1	3900	8240		56728.5	3900	8495		56757.9
3900	7735		57339.4	3900	7990		56889.4	3900	8245		56732.8	3900	8500		56756.6
3900	7740		57234.1	3900	7995		56909.6	3900	8250		56747.3	3900	8505		56762.3
3900	7745		57123.9	3900	8000		56883.1	3900	8255		56749.0	3900	8510		56778.7
3900	7750		56822.5	3900	8005		56871.7	3900	8260		56751.0	3900	8515		56774.0
3900	7755		56669.9	3900	8010		56873.0	3900	8265		56732.7				
3900	7760		56424.7	3900	8015		56644.9	3900	8270		56744.4	<b>Line 4000 East</b>			
3900	7765		56239.0	3900	8020		56652.0	3900	8275		56733.1	4000	7500		57211.1
3900	7770		56360.3	3900	8025		56709.6	3900	8280		56760.8	4000	7505		57328.0
3900	7775		56562.0	3900	8030		56729.6	3900	8285		56777.3	4000	7510		57160.0
3900	7780		56692.4	3900	8035		56762.6	3900	8290		56757.9	4000	7515		56947.1
3900	7785		56809.3	3900	8040		56697.6	3900	8295		56733.0	4000	7520		56929.4
3900	7790		56695.0	3900	8045		56683.3	3900	8300		56743.3	4000	7525		57003.8
3900	7795		56761.4	3900	8050		56665.7	3900	8305		56756.8	4000	7530		57042.8
3900	7800		56742.6	3900	8055		56694.0	3900	8310		56743.1	4000	7535		57054.6
3900	7805		56818.6	3900	8060		56710.3	3900	8315		56736.5	4000	7540		57080.2
3900	7810		57019.0	3900	8065		56719.1	3900	8320		56738.1	4000	7545		57087.5
3900	7815		56901.4	3900	8070		56739.6	3900	8325		56742.4	4000	7550		57129.3
3900	7820		56850.1	3900	8075		56675.9	3900	8330		56730.6	4000	7555		57174.5
3900	7825		56892.3	3900	8080		56703.4	3900	8335		56740.3	4000	7560		57205.1
3900	7830		56930.0	3900	8085		56717.2	3900	8340		56762.5	4000	7565		57252.5
3900	7835		56775.2	3900	8090		56597.9	3900	8345		56767.9	4000	7570		57259.4
3900	7840		56524.7	3900	8095		56641.3	3900	8350		56780.0	4000	7575		57248.5
3900	7845		56401.4	3900	8100		56674.4	3900	8355		56772.7	4000	7580		57276.1
3900	7850		56391.0	3900	8105		56680.6	3900	8360		56753.3	4000	7585		57357.6
3900	7855		56439.0	3900	8110		56664.2	3900	8365		56748.7	4000	7590		57464.4
3900	7860		56466.4	3900	8115		56707.0	3900	8370		56748.0	4000	7595		57266.1
3900	7865		56666.1	3900	8120		56708.0	3900	8375		56772.4	4000	7600		57195.8
3900	7870		56617.6	3900	8125		56721.4	3900	8380		56767.8	4000	7605		57204.2
3900	7875		56635.6	3900	8130		56764.9	3900	8385		56771.4	4000	7610		57242.7
3900	7880		56628.6	3900	8135		56717.5	3900	8390		56748.0	4000	7615		57372.9
3900	7885		56802.9	3900	8140		56670.6	3900	8395		56772.0	4000	7620		57483.7

## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI
Easting		Easting	(nT)	Easting		Easting	(nT)	Easting		Easting	(nT)	Easting		Easting	(nT)
<b>Line 4000 East (cont.)</b>				<b>Line 4000 East (cont.)</b>				<b>Line 4100 East (cont.)</b>				<b>Line 4100 East (cont.)</b>			
4000	7625		57539.8	4000	7880		56768.9	4100	7615		57059.3	4100	7870		56608.1
4000	7630		57302.1	4000	7885		56782.4	4100	7620		57076.1	4100	7875		56616.4
4000	7635		57046.2	4000	7890		56797.8	4100	7625		57086.5	4100	7880		56610.2
4000	7640		56818.7	4000	7895		56823.3	4100	7630		57086.5	4100	7885		56637.5
4000	7645		56713.8	4000	7900		56853.3	4100	7635		57082.7	4100	7890		56622.4
4000	7650		56851.0	4000	7905		56830.8	4100	7640		57070.7	4100	7895		56626.0
4000	7655		57105.4	4000	7910		56831.6	4100	7645		57046.6	4100	7900		56648.9
4000	7660		57324.4	4000	7915		56842.2	4100	7650		57018.2	4100	7905		56632.2
4000	7665		57637.6	4000	7920		56869.2	4100	7655		56975.0	4100	7910		56622.3
4000	7670		57604.4	4000	7925		56881.7	4100	7660		56943.1	4100	7915		56647.1
4000	7675		57191.4	4000	7930		56873.4	4100	7665		56946.9	4100	7920		56661.8
4000	7680		56955.5	4000	7935		56858.2	4100	7670		56981.2	4100	7925		56692.9
4000	7685		56900.9	4000	7940		56901.3	4100	7675		57043.7	4100	7930		56680.8
4000	7690		57062.8	4000	7945		56876.2	4100	7680		57100.8	4100	7935		56685.3
4000	7695		57073.2	4000	7950		56861.4	4100	7685		57105.6	4100	7940		56691.6
4000	7700		56815.0	4000	7955		56873.9	4100	7690		57043.1	4100	7945		56764.2
4000	7705		56829.6	4000	7960		56891.3	4100	7695		56948.2	4100	7950		56734.3
4000	7710		56656.7	4000	7965		56857.4	4100	7700		56789.5	4100	7955		56691.2
4000	7715		56456.6	4000	7970		56855.4	4100	7705		56852.0	4100	7960		56668.2
4000	7720		56395.8	4000	7975		56870.0	4100	7710		56858.7	4100	7965		56656.8
4000	7725		56482.5	4000	7980		56862.3	4100	7715		56590.5	4100	7970		56664.2
4000	7730		56602.5	4000	7985		56912.4	4100	7720		56176.5	4100	7975		56677.0
4000	7735		56661.0	4000	7990		56945.8	4100	7725		56006.3	4100	7980		56683.7
4000	7740		56769.7	4000	7995		56913.9	4100	7730		56034.5	4100	7985		56691.6
4000	7745		56814.7	4000	8000		56839.0	4100	7735		56322.3	4100	7990		56706.0
4000	7750		56721.5	4000	8005		56837.6	4100	7740		56240.6	4100	7995		56706.1
4000	7755		56578.4					4100	7745		56245.2	4100	8000		56711.3
4000	7760		56702.7					4100	7750		56333.2				
4000	7765		56723.0	<b>Line 4100 East</b>				4100	7755		56386.9	<b>Line 4200 East</b>			
4000	7770		56729.0	4100	7500		56845.2	4100	7760		56421.0	4200	7500		57077.3
4000	7775		56711.3	4100	7505		56863.1	4100	7765		56497.6	4200	7505		57096.9
4000	7780		56683.4	4100	7510		56872.1	4100	7770		56530.2	4200	7510		57114.0
4000	7785		56693.0	4100	7515		56874.2	4100	7775		56379.1	4200	7515		57112.4
4000	7790		56730.7	4100	7520		56881.4	4100	7780		56352.2	4200	7520		57088.2
4000	7795		56809.6	4100	7525		56882.2	4100	7785		56350.7	4200	7525		57120.4
4000	7800		56932.6	4100	7530		56873.1	4100	7790		56401.0	4200	7530		57100.1
4000	7805		57153.6	4100	7535		56875.5	4100	7795		56408.3	4200	7535		57104.1
4000	7810		56852.7	4100	7540		56868.5	4100	7800		56448.7	4200	7540		57090.1
4000	7815		56697.1	4100	7545		56867.9	4100	7805		56480.1	4200	7545		57105.6
4000	7820		56627.9	4100	7550		56860.8	4100	7810		56511.2	4200	7550		57110.2
4000	7825		56612.3	4100	7555		56861.4	4100	7815		56541.0	4200	7555		57115.3
4000	7830		56634.8	4100	7560		56867.6	4100	7820		56545.6	4200	7560		57018.0
4000	7835		56555.2	4100	7565		56879.3	4100	7825		56578.8	4200	7565		57108.8
4000	7840		56578.6	4100	7570		56886.8	4100	7830		56559.4	4200	7570		57109.5
4000	7845		56611.6	4100	7575		56894.6	4100	7835		56612.4	4200	7575		57122.8
4000	7850		56712.2	4100	7580		56907.9	4100	7840		56615.5	4200	7580		57132.1
4000	7855		56672.4	4100	7585		56924.5	4100	7845		56669.3	4200	7585		57146.2
4000	7860		56672.3	4100	7590		56947.3	4100	7850		56601.3	4200	7590		57157.7
4000	7865		56752.6	4100	7595		56964.1	4100	7855		56584.1	4200	7595		57174.3
4000	7870		56763.8	4100	7600		56990.0	4100	7860		56647.3	4200	7600		57193.2
4000	7875		56765.9	4100	7605		57029.4	4100	7865		56629.2	4200	7605		57215.1
4000	7880			4100	7610		57035.7	4100				4200			

## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI
Easting	Easting		(nT)	Easting	Easting		(nT)	Easting	Easting		(nT)	Easting	Easting		(nT)
<b>Line 4200 East (cont.)</b>				<b>Line 4200 East (cont.)</b>				<b>Line 4300 East (cont.)</b>				<b>Line 4300 East (cont.)</b>			
4200	7610		57228.4	4200	7865		56971.9	4300	7605		56714.0	4300	7860		56441.9
4200	7615		57274.0	4200	7870		56988.0	4300	7610		56726.1	4300	7865		56472.7
4200	7620		57307.3	4200	7875		57045.9	4300	7615		56756.0	4300	7870		56516.3
4200	7625		57387.9	4200	7880		56997.6	4300	7620		56782.5	4300	7875		56545.0
4200	7630		57420.1	4200	7885		57011.5	4300	7625		56826.6	4300	7880		56559.4
4200	7635		57376.0	4200	7890		56928.1	4300	7630		56867.4	4300	7885		56529.5
4200	7640		57300.1	4200	7895		56968.9	4300	7635		56936.1	4300	7890		56555.7
4200	7645		57217.2	4200	7900		56950.0	4300	7640		56983.0	4300	7895		56554.6
4200	7650		57106.7	4200	7905		56959.6	4300	7645		57073.4	4300	7900		56588.3
4200	7655		56932.3	4200	7910		57025.2	4300	7650		57139.6	4300	7905		56602.2
4200	7660		56812.0	4200	7915		57008.4	4300	7655		57250.7	4300	7910		56609.2
4200	7665		56782.1	4200	7920		56988.2	4300	7660		57354.1	4300	7915		56626.8
4200	7670		56853.4	4200	7925		57006.0	4300	7665		57456.8	4300	7920		56655.5
4200	7675		56965.3	4200	7930		57010.3	4300	7670		57488.8	4300	7925		56646.2
4200	7680		57066.9	4200	7935		57006.7	4300	7675		57510.4	4300	7930		56632.2
4200	7685		57117.3	4200	7940		57016.3	4300	7680		57469.5	4300	7935		56619.3
4200	7690		57214.0	4200	7945		57017.9	4300	7685		57405.7	4300	7940		56664.2
4200	7695		57298.9	4200	7950		57012.9	4300	7690		57277.5	4300	7945		56675.6
4200	7700		57286.7	4200	7955		57010.6	4300	7695		57072.6	4300	7950		56720.2
4200	7705		57346.8	4200	7960		56997.5	4300	7700		56819.4	4300	7955		56707.0
4200	7710		57559.3	4200	7965		56989.4	4300	7705		56549.7	4300	7960		56644.5
4200	7715		57247.7	4200	7970		56998.0	4300	7710		56409.1	4300	7965		56638.6
4200	7720		57034.2	4200	7975		57015.8	4300	7715		56275.2	4300	7970		56632.2
4200	7725		56611.3	4200	7980		57029.9	4300	7720		56208.8	4300	7975		56662.1
4200	7730		56444.7	4200	7985		57031.0	4300	7725		56192.6	4300	7980		56637.9
4200	7735		56715.4	4200	7990		57042.4	4300	7730		56258.0	4300	7985		56632.5
4200	7740		57078.2	4200	7995		57038.1	4300	7735		56304.9	4300	7990		56638.0
4200	7745		57233.9	4200	8000		57044.3	4300	7740		56449.8	4300	7995		56644.1
4200	7750		57174.2					4300	7745		56702.3	4300	8000		56646.3
4200	7755		57023.9					4300	7750		56816.6				
4200	7760		56986.0	<b>Line 4300 East</b>				4300	7755		56623.2	<b>Line 4400 East</b>			
4200	7765		56894.5	4300	7500		56664.8	4300	7760		56259.4	4400	7500		57140.3
4200	7770		56760.0	4300	7505		56637.6	4300	7765		56063.8	4400	7505		57163.8
4200	7775		56690.5	4300	7510		56633.5	4300	7770		56292.3	4400	7510		57239.7
4200	7780		56882.3	4300	7515		56644.6	4300	7775		56357.5	4400	7515		57275.3
4200	7785		56906.4	4300	7520		56638.9	4300	7780		56266.3	4400	7520		57184.6
4200	7785		56906.4	4300	7525		56647.7	4300	7785		56367.7	4400	7525		57153.3
4200	7790		56881.2	4300	7530		56658.0	4300	7790		56448.8	4400	7530		57090.1
4200	7795		56971.7	4300	7535		56665.1	4300	7795		56448.8	4400	7535		57079.9
4200	7800		56908.8	4300	7540		56670.5	4300	7800		56478.1	4400	7540		56968.0
4200	7805		56805.7	4300	7545		56673.9	4300	7805		56482.2	4400	7545		56859.6
4200	7810		56725.3	4300	7550		56669.5	4300	7810		56525.4	4400	7550		56948.5
4200	7815		56728.8	4300	7555		56675.1	4300	7815		56484.0	4400	7555		56960.4
4200	7820		56726.6	4300	7560		56678.3	4300	7820		56557.1	4400	7560		56987.9
4200	7825		56964.2	4300	7565		56691.9	4300	7825		56608.1	4400	7565		56991.0
4200	7830		56996.7	4300	7570		56685.4	4300	7830		56641.9	4400	7570		57011.0
4200	7835		56791.3	4300	7575		56694.6	4300	7835		56611.5	4400	7575		56968.2
4200	7840		56893.1	4300	7580		56692.0	4300	7840		56567.6	4400	7580		57151.0
4200	7845		56894.1	4300	7585		56702.9	4300	7845		56503.2	4400	7585		57086.6
4200	7850		56905.7	4300	7590		56704.7	4300	7850		56449.7	4400	7590		57133.2
4200	7855		56904.5	4300	7595		56679.5	4300	7855		56464.2	4400	7595		57151.4
4200	7860		56968.3	4300	7600		56696.4								

## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI
Easting	Easting		(nT)	Easting	Easting		(nT)	Easting	Easting		(nT)	Easting	Easting		(nT)
<u>Line 4400 East (cont.)</u>				<u>Line 4400 East (cont.)</u>				<u>Line 4500 East (cont.)</u>				<u>Line 4500 East (cont.)</u>			
4400	7600		57119.4	4400	7855		56773.9	4500	7595		56840.4	4500	7850		56724.5
4400	7605		57152.6	4400	7860		56802.4	4500	7600		56678.3	4500	7855		56730.3
4400	7610		57173.7	4400	7865		56843.3	4500	7605		56926.3	4500	7860		56820.9
4400	7615		57210.2	4400	7870		56943.9	4500	7610		57037.6	4500	7865		56870.5
4400	7620		57250.5	4400	7875		56922.4	4500	7615		56995.5	4500	7870		56827.0
4400	7625		57295.5	4400	7880		56888.3	4500	7620		57154.2	4500	7875		56812.3
4400	7630		57349.9	4400	7885		56955.4	4500	7625		57173.3	4500	7880		56854.9
4400	7635		57388.3	4400	7890		56918.8	4500	7630		57198.9	4500	7885		56867.2
4400	7640		57413.5	4400	7895		56913.8	4500	7635		57253.8	4500	7890		56846.7
4400	7645		57485.6	4400	7900		56897.7	4500	7640		57284.2	4500	7895		56886.2
4400	7650		57534.1	4400	7905		56899.1	4500	7645		57298.6	4500	7900		56909.2
4400	7655		57596.0	4400	7910		56881.2	4500	7650		57275.9	4500	7905		56913.7
4400	7660		57657.6	4400	7915		56899.7	4500	7655		57279.8	4500	7910		56924.2
4400	7665		57711.8	4400	7920		56915.5	4500	7660		57284.4	4500	7915		56915.6
4400	7670		57818.2	4400	7925		56923.1	4500	7665		57268.6	4500	7920		56924.4
4400	7675		57848.5	4400	7930		56929.9	4500	7670		57254.4	4500	7925		56933.1
4400	7680		57808.3	4400	7935		56930.5	4500	7675		57239.9	4500	7930		56945.9
4400	7685		57701.9	4400	7940		56942.8	4500	7680		57251.8	4500	7935		56970.8
4400	7690		57615.6	4400	7945		56943.7	4500	7685		57243.8	4500	7940		56957.3
4400	7695		57660.4	4400	7950		56967.0	4500	7690		57225.5	4500	7945		56959.2
4400	7700		57854.7	4400	7955		56972.2	4500	7695		57223.9	4500	7950		56964.8
4400	7705		58023.6	4400	7960		56973.4	4500	7700		57204.9	4500	7955		56970.7
4400	7710		57875.1	4400	7965		56994.3	4500	7705		57201.6	4500	7960		56972.7
4400	7715		56571.1	4400	7970		57004.0	4500	7710		57204.1	4500	7965		56971.6
4400	7720		56340.3	4400	7975		56994.0	4500	7715		57220.0	4500	7970		56988.9
4400	7725		56099.1	4400	7980		56958.7	4500	7720		57212.7	4500	7975		56986.3
4400	7730		56059.1	4400	7985		56972.5	4500	7725		57241.1	4500	7980		56980.4
4400	7735		56239.9	4400	7990		56988.5	4500	7730		57240.7	4500	7985		56980.4
4400	7740		56433.2	4400	7995		56992.2	4500	7735		57236.8	4500	7990		57009.4
4400	7745		56671.7	4400	8000		56997.7	4500	7740		57188.1	4500	7995		57005.2
4400	7750		56514.2					4500	7745		57049.3	4500	8000		56971.0
4400	7755		56506.3	<u>Line 4500 East</u>				4500	7750		56958.2				
4400	7760		56695.3	4500	7500		57095.8	4500	7755		56874.6	<u>Line 4600 East</u>			
4400	7765		56634.7	4500	7505		57125.8	4500	7760		56815.6	4600	7500		57086.1
4400	7770		56665.1	4500	7510		57107.7	4500	7765		56793.8	4600	7505		57066.3
4400	7775		56724.6	4500	7515		57149.4	4500	7770		56759.0	4600	7510		57062.1
4400	7780		56685.2	4500	7520		57166.7	4500	7775		56646.1	4600	7515		57065.9
4400	7785		56714.7	4500	7525		57172.7	4500	7780		56676.7	4600	7520		57073.2
4400	7790		56716.3	4500	7530		57196.6	4500	7785		56767.7	4600	7525		57083.6
4400	7795		56672.0	4500	7535		57217.4	4500	7790		56875.0	4600	7530		57099.8
4400	7800		56807.8	4500	7540		57257.5	4500	7795		56928.5	4600	7535		57111.1
4400	7805		56918.6	4500	7545		57307.1	4500	7800		57205.7	4600	7540		57129.1
4400	7810		57107.4	4500	7550		57372.0	4500	7805		56941.5	4600	7545		57135.1
4400	7815		57261.3	4500	7555		57431.6	4500	7810		57030.7	4600	7550		57159.3
4400	7820		56962.8	4500	7560		57473.6	4500	7815		56905.6	4600	7555		57150.1
4400	7825		57041.8	4500	7565		57479.7	4500	7820		56832.5	4600	7560		57166.5
4400	7830		56893.2	4500	7570		57478.0	4500	7825		56684.8	4600	7565		57207.4
4400	7835		56829.5	4500	7575		57129.7	4500	7830		56611.3	4600	7570		57242.6
4400	7840		56720.7	4500	7580		57111.8	4500	7835		56624.2	4600	7575		57284.1
4400	7845		56750.5	4500	7585		57095.8	4500	7840		56688.7	4600	7580		57159.7
4400	7850		56752.8	4500	7590		57117.6	4500	7845		56663.7	4600	7585		57163.5



## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates			Grid Co-ordinates			Grid Co-ordinates			Grid Co-ordinates		
Easting		TMI	Easting		TMI	Easting		TMI	Easting		TMI
Easting		(nT)	Easting		(nT)	Easting		(nT)	Easting		(nT)
<b>Line 4800 East (cont.)</b>			<b>Line 4800 East (cont.)</b>			<b>Line 4900 East (cont.)</b>			<b>Line 4900 East (cont.)</b>		
4800	7580	56885.7	4800	7835	56980.3	4900	7175	56873.3	4900	7430	56962.0
4800	7585	56856.1	4800	7840	56980.7	4900	7180	56851.3	4900	7435	56963.9
4800	7590	56850.7	4800	7845	56983.0	4900	7185	56807.7	4900	7440	56962.7
4800	7595	56849.5	4800	7850	56976.1	4900	7190	56869.2	4900	7445	56959.5
4800	7600	56853.9	4800	7855	56986.4	4900	7195	56946.2	4900	7450	56952.9
4800	7605	56860.8	4800	7860	56985.4	4900	7200	57047.8	4900	7455	56955.3
4800	7610	56869.3	4800	7865	56979.4	4900	7205	57061.5	4900	7460	56955.0
4800	7615	56880.7	4800	7870	56973.1	4900	7210	57084.5	4900	7465	56943.6
4800	7620	56872.0	4800	7875	56961.9	4900	7215	57071.7	4900	7470	56948.4
4800	7625	56876.5	4800	7880	56973.3	4900	7220	57052.4	4900	7475	56958.0
4800	7630	56883.8	4800	7885	56970.2	4900	7225	57031.9	4900	7480	56955.8
4800	7635	56908.4	4800	7890	56927.3	4900	7230	57009.2	4900	7485	56955.6
4800	7640	56905.9	4800	7895	56918.3	4900	7235	56983.7	4900	7490	56956.9
4800	7645	56917.6	4800	7900	56918.7	4900	7240	56975.4	4900	7495	56958.5
4800	7650	56923.4	4800	7905	56916.4	4900	7245	56977.2	4900	7500	56951.2
4800	7655	56902.3	4800	7910	56930.7	4900	7250	56970.8	4900	7505	56861.2
4800	7660	56898.2	4800	7915	56969.8	4900	7255	56970.4	4900	7510	56867.6
4800	7665	56900.1	4800	7920	57029.1	4900	7260	56981.1	4900	7515	56868.8
4800	7670	56909.0	4800	7925	57206.1	4900	7265	56989.9	4900	7520	56876.8
4800	7675	56928.3	4800	7930	57397.9	4900	7270	56995.1	4900	7525	56879.4
4800	7680	56929.8	4800	7935	57355.1	4900	7275	56961.1	4900	7530	56885.3
4800	7685	56933.6	4800	7940	57396.3	4900	7280	56987.6	4900	7535	56891.1
4800	7690	56919.6	4800	7945	57380.1	4900	7285	57043.0	4900	7540	56896.5
4800	7695	56920.6	4800	7950	57194.9	4900	7290	57065.4	4900	7545	56905.4
4800	7700	56930.4	4800	7955	57038.2	4900	7295	57069.6	4900	7550	56912.7
4800	7705	56936.1	4800	7960	56627.4	4900	7300	57088.2	4900	7555	56914.8
4800	7710	56940.5	4800	7965	56607.6	4900	7305	57089.0	4900	7560	56929.4
4800	7715	56936.6	4800	7970	56752.6	4900	7310	57044.3	4900	7565	56935.0
4800	7720	56946.6	4800	7975	56732.1	4900	7315	57005.2	4900	7570	56946.6
4800	7725	56960.0	4800	7980	56540.5	4900	7320	56880.8	4900	7575	56956.6
4800	7730	56961.5	4800	7985	56524.5	4900	7325	56870.5	4900	7580	56964.7
4800	7735	56965.7	4800	7990	56787.2	4900	7330	56916.5	4900	7585	56961.4
4800	7740	56984.2	4800	7995	56918.7	4900	7335	56951.7	4900	7590	56940.0
4800	7745	57001.2	4800	8000	56009.4	4900	7340	56990.9	4900	7595	56925.6
4800	7750	57013.0				4900	7345	56982.1	4900	7600	56923.2
4800	7755	57013.9	<b>Line 4900 East</b>			4900	7350	57003.4	4900	7605	56924.9
4800	7760	57003.7	4900	7100	56949.7	4900	7355	57005.1	4900	7610	56927.1
4800	7765	56986.8	4900	7105	56944.1	4900	7360	57002.7	4900	7615	56911.3
4800	7770	56971.8	4900	7110	56954.7	4900	7365	57003.6	4900	7620	56895.7
4800	7775	56968.2	4900	7115	56963.4	4900	7370	57010.1	4900	7625	56888.5
4800	7780	56960.7	4900	7120	56966.6	4900	7375	57015.7	4900	7630	56886.0
4800	7785	56973.9	4900	7125	56974.6	4900	7380	57016.1	4900	7635	56862.6
4800	7790	56984.7	4900	7130	56931.9	4900	7385	57013.4	4900	7640	56857.3
4800	7795	57000.7	4900	7135	56704.1	4900	7390	57007.2	4900	7645	56853.4
4800	7800	57005.9	4900	7140	56907.7	4900	7395	56996.5	4900	7650	56847.1
4800	7805	56993.1	4900	7145	56967.8	4900	7400	56997.7	4900	7655	56860.0
4800	7810	56979.8	4900	7150	56944.2	4900	7405	56959.0	4900	7660	56865.1
4800	7815	56992.7	4900	7155	56974.2	4900	7410	56949.6	4900	7665	56869.8
4800	7820	56985.2	4900	7160	56940.0	4900	7415	56952.4	4900	7670	56873.5
4800	7825	56966.6	4900	7165	56944.1	4900	7420	56961.0	4900	7675	56876.5
4800	7830	56972.3	4900	7170	56922.9	4900	7425	56959.1	4900	7680	56877.3



## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates			Grid Co-ordinates			Grid Co-ordinates			Grid Co-ordinates		
Easting		TMI	Easting		TMI	Easting		TMI	Easting		TMI
Easting		(nT)	Easting		(nT)	Easting		(nT)	Easting		(nT)
<u>Line 4900 East (cont.)</u>			<u>Line 4900 East (cont.)</u>			<u>Line 4900 East (cont.)</u>			<u>Line 5000 East (cont.)</u>		
4900	7680	56885.1	4900	7935	56961.2	4900	8190	56754.9	5000	7330	56956.3
4900	7685	56886.9	4900	7940	56990.7	4900	8195	56758.4	5000	7335	56987.9
4900	7690	56877.5	4900	7945	57007.1	4900	8200	56762.2	5000	7340	56895.2
4900	7695	56885.2	4900	7950	57037.3				5000	7345	56857.3
4900	7700	56874.9	4900	7955	57041.5	<u>Line 5000 East</u>			5000	7350	56765.6
4900	7705	56882.4	4900	7960	57059.5	5000	7100	57185.4	5000	7355	56783.1
4900	7710	56880.4	4900	7965	57088.1	5000	7105	57073.9	5000	7360	56814.6
4900	7715	56872.9	4900	7970	57104.3	5000	7110	56908.6	5000	7365	56875.2
4900	7720	56867.0	4900	7975	57114.4	5000	7115	56947.0	5000	7370	56938.4
4900	7725	56865.5	4900	7980	57114.4	5000	7120	57034.3	5000	7375	56958.0
4900	7730	56830.1	4900	7985	57054.6	5000	7125	56854.7	5000	7380	56958.4
4900	7735	56790.8	4900	7990	57039.4	5000	7130	56877.0	5000	7385	56963.8
4900	7740	56812.7	4900	7995	56972.2	5000	7135	56945.8	5000	7390	56965.3
4900	7745	56831.5	4900	8000	56895.1	5000	7140	56946.6	5000	7395	56963.5
4900	7750	56836.0	4900	8005	56842.7	5000	7145	56958.9	5000	7400	56967.4
4900	7755	56850.2	4900	8010	56804.7	5000	7150	56980.4	5000	7405	56966.4
4900	7760	56859.2	4900	8015	56786.5	5000	7155	56968.3	5000	7410	56979.5
4900	7765	56852.5	4900	8020	56771.7	5000	7160	56976.6	5000	7415	56988.4
4900	7770	56859.4	4900	8025	56769.7	5000	7165	56988.3	5000	7420	56991.1
4900	7775	56860.9	4900	8030	56780.9	5000	7170	57003.4	5000	7425	56996.7
4900	7780	56864.5	4900	8035	56788.7	5000	7175	57010.2	5000	7430	56999.7
4900	7785	56862.6	4900	8040	56776.9	5000	7180	57011.1	5000	7435	56992.9
4900	7790	56864.6	4900	8045	56790.0	5000	7185	56990.8	5000	7440	56991.5
4900	7795	56867.6	4900	8050	56899.4	5000	7190	56982.6	5000	7445	56991.1
4900	7800	56861.5	4900	8055	56887.0	5000	7195	56991.2	5000	7450	56960.2
4900	7805	56864.4	4900	8060	56705.7	5000	7200	57003.1	5000	7455	56942.1
4900	7810	56863.9	4900	8065	56707.6	5000	7205	57004.5	5000	7460	56925.3
4900	7815	56870.3	4900	8070	56763.2	5000	7210	57001.2	5000	7465	56906.4
4900	7820	56881.8	4900	8075	56703.5	5000	7215	56942.4	5000	7470	56904.9
4900	7825	56886.1	4900	8080	56392.8	5000	7220	56909.3	5000	7475	56895.6
4900	7830	56888.2	4900	8085	56272.9	5000	7225	56998.6	5000	7480	56868.1
4900	7835	56902.3	4900	8090	55959.6	5000	7230	57059.8	5000	7485	56853.5
4900	7840	56921.4	4900	8095	55974.6	5000	7235	57025.6	5000	7490	56892.8
4900	7845	56934.1	4900	8100	56014.1	5000	7240	56995.9	5000	7495	56912.7
4900	7850	56940.5	4900	8105	56361.0	5000	7245	56959.7	5000	7500	56936.5
4900	7855	56939.3	4900	8110	56419.1	5000	7250	56940.1	5000	7500	56806.5
4900	7860	56847.8	4900	8115	56144.8	5000	7255	56929.5	5000	7505	56907.4
4900	7865	56799.4	4900	8120	56414.9	5000	7260	56931.7	5000	7510	56928.1
4900	7870	56804.4	4900	8125	56530.2	5000	7265	56932.1	5000	7515	56831.0
4900	7875	56802.6	4900	8130	56629.3	5000	7270	56925.9	5000	7520	56843.1
4900	7880	56819.4	4900	8135	56732.3	5000	7275	56920.9	5000	7525	56835.4
4900	7885	56835.6	4900	8140	56706.1	5000	7280	56897.7	5000	7530	56832.8
4900	7890	56837.9	4900	8145	56670.4	5000	7285	56870.5	5000	7535	56826.9
4900	7895	56828.0	4900	8150	56626.6	5000	7290	56871.3	5000	7540	56826.5
4900	7900	56821.2	4900	8155	56683.5	5000	7295	56877.3	5000	7545	56828.9
4900	7905	56820.9	4900	8160	56715.1	5000	7300	56810.0	5000	7550	56834.2
4900	7910	56817.9	4900	8165	56723.1	5000	7305	56796.1	5000	7555	56821.8
4900	7915	56836.8	4900	8170	56731.1	5000	7310	56883.1	5000	7560	56823.2
4900	7920	56863.5	4900	8175	56739.5	5000	7315	56994.8	5000	7565	56831.7
4900	7925	56898.7	4900	8180	56750.5	5000	7320	57029.9	5000	7570	56835.7
4900	7930	56919.0	4900	8185	56753.1	5000	7325	56981.6	5000	7575	56840.8

## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI
Eastings	Eastings		(nT)	Eastings	Eastings		(nT)	Eastings	Eastings		(nT)	Eastings	Eastings		(nT)
<b>Line 5000 East (cont.)</b>				<b>Line 5000 East (cont.)</b>				<b>Line 5000 East (cont.)</b>				<b>Line 5000 East (cont.)</b>			
5000	7580		56842.7	5000	7835		56834.0	5000	8090		56503.9	5000	8345		56779.6
5000	7585		56843.9	5000	7840		56834.6	5000	8095		56480.9	5000	8350		56787.1
5000	7590		56846.0	5000	7845		56829.1	5000	8100		56482.9	5000	8355		56784.2
5000	7595		56853.8	5000	7850		56841.0	5000	8105		56444.8	5000	8360		56787.6
5000	7600		56857.8	5000	7855		56849.7	5000	8110		56454.9	5000	8365		56786.0
5000	7605		56857.4	5000	7860		56846.7	5000	8115		56535.8	5000	8370		56781.8
5000	7610		56866.0	5000	7865		56839.1	5000	8120		56537.8	5000	8375		56772.0
5000	7615		56862.0	5000	7870		56822.9	5000	8125		56539.3	5000	8380		56771.7
5000	7620		56868.8	5000	7875		56792.2	5000	8130		56584.7	5000	8385		56770.7
5000	7625		56861.4	5000	7880		56788.8	5000	8135		56612.2	5000	8390		56769.3
5000	7630		56867.1	5000	7885		56785.6	5000	8140		56627.0	5000	8395		56762.0
5000	7635		56875.3	5000	7890		56778.9	5000	8145		56638.6	5000	8400		56764.3
5000	7640		56882.7	5000	7895		56770.8	5000	8150		56658.9	5000	8405		56763.0
5000	7645		56876.7	5000	7900		56774.2	5000	8155		56662.7	5000	8410		56763.1
5000	7650		56873.0	5000	7905		56796.8	5000	8160		56670.4	5000	8415		56764.9
5000	7655		56871.8	5000	7910		56810.6	5000	8165		56681.3	5000	8420		56764.4
5000	7660		56869.8	5000	7915		56821.2	5000	8170		56678.8	5000	8425		56770.3
5000	7665		56867.2	5000	7920		56805.7	5000	8175		56688.4	5000	8430		56765.6
5000	7670		56866.2	5000	7925		56872.8	5000	8180		56690.0	5000	8435		56763.4
5000	7675		56869.7	5000	7930		56820.5	5000	8185		56675.7	5000	8440		56760.4
5000	7680		56875.7	5000	7935		56697.1	5000	8190		56692.7	5000	8445		56772.1
5000	7685		56875.4	5000	7940		56731.0	5000	8195		56708.7	5000	8450		56764.9
5000	7690		56871.9	5000	7945		56753.7	5000	8200		56662.9	5000	8455		56761.0
5000	7695		56863.8	5000	7950		56761.1	5000	8205		56700.7	5000	8460		56755.9
5000	7700		56861.6	5000	7955		56765.0	5000	8210		56705.5	5000	8465		56762.8
5000	7705		56851.6	5000	7960		56764.1	5000	8215		56712.1	5000	8470		56770.2
5000	7710		56848.6	5000	7965		56763.9	5000	8220		56713.6	5000	8475		56773.9
5000	7715		56853.4	5000	7970		56764.3	5000	8225		56719.0	5000	8480		56782.3
5000	7720		56846.6	5000	7975		56759.0	5000	8230		56719.9	5000	8485		56783.1
5000	7725		56849.2	5000	7980		56752.6	5000	8235		56723.4	5000	8490		56778.8
5000	7730		56857.7	5000	7985		56751.7	5000	8240		56730.8	5000	8495		56745.5
5000	7735		56870.5	5000	7990		56740.3	5000	8245		56731.0	5000	8500		56664.8
5000	7740		56860.9	5000	7995		56741.2	5000	8250		56737.6				
5000	7745		56857.6	5000	8000		56735.6	5000	8255		56742.0	<b>Line 5100 East</b>			
5000	7750		56846.6	5000	8005		56741.6	5000	8260		56743.4	5100	7050		56982.4
5000	7755		56836.0	5000	8010		56749.1	5000	8265		56745.9	5100	7055		56979.5
5000	7760		56830.6	5000	8015		56741.0	5000	8270		56746.8	5100	7060		56974.7
5000	7765		56827.7	5000	8020		56736.2	5000	8275		56757.2	5100	7065		56974.4
5000	7770		56818.5	5000	8025		56719.1	5000	8280		56750.2	5100	7070		56976.3
5000	7775		56818.9	5000	8030		56715.2	5000	8285		56752.2	5100	7075		56973.1
5000	7780		56838.4	5000	8035		56699.1	5000	8290		56752.1	5100	7080		56985.6
5000	7785		56847.0	5000	8040		56680.2	5000	8295		56751.0	5100	7085		56987.8
5000	7790		56860.9	5000	8045		56661.9	5000	8300		56751.7	5100	7090		56991.8
5000	7795		56888.9	5000	8050		56633.5	5000	8305		56752.9	5100	7095		56969.8
5000	7800		56827.5	5000	8055		56628.9	5000	8310		56750.9	5100	7100		56942.6
5000	7805		56841.1	5000	8060		56664.1	5000	8315		56754.1	5100	7105		56955.6
5000	7810		56837.1	5000	8065		56726.1	5000	8320		56762.1	5100	7110		56965.4
5000	7815		56828.4	5000	8070		56754.8	5000	8325		56765.7	5100	7115		56982.9
5000	7820		56830.0	5000	8075		56742.5	5000	8330		56766.9	5100	7120		56973.3
5000	7825		56827.2	5000	8080		56743.1	5000	8335		56771.9	5100	7125		56967.6
5000	7830		56832.7	5000	8085		56612.5	5000	8340		56771.7	5100	7130		56984.5

## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI
Easting		Easting	(nT)	Easting		Easting	(nT)	Easting		Easting	(nT)	Easting		Easting	(nT)
Line 5100 East (cont.)				Line 5100 East (cont.)				Line 5100 East (cont.)				Line 5100 East (cont.)			
5100	7135	56990.9		5100	7390	56962.0		5100	7645	56984.2		5100	7900	57006.3	
5100	7140	57010.9		5100	7395	56957.1		5100	7650	56981.9		5100	7905	57002.7	
5100	7145	56998.2		5100	7400	56961.5		5100	7655	56980.6		5100	7910	57000.2	
5100	7150	56980.3		5100	7405	56963.3		5100	7660	56985.6		5100	7915	57001.3	
5100	7155	56961.9		5100	7410	56976.7		5100	7665	56991.5		5100	7920	57000.9	
5100	7160	56954.7		5100	7415	56988.0		5100	7670	56998.8		5100	7925	57001.4	
5100	7165	56958.6		5100	7420	56981.5		5100	7675	57002.1		5100	7930	57003.3	
5100	7170	56949.6		5100	7425	56976.3		5100	7680	57006.2		5100	7935	57004.6	
5100	7175	56954.1		5100	7430	56971.2		5100	7685	57011.2		5100	7940	57003.6	
5100	7180	56976.4		5100	7435	56971.0		5100	7690	57000.3		5100	7945	57003.6	
5100	7185	56985.6		5100	7440	56975.6		5100	7695	56989.1		5100	7950	57002.1	
5100	7190	56990.6		5100	7445	56975.0		5100	7700	56966.6		5100	7955	57003.6	
5100	7195	56969.7		5100	7450	56968.6		5100	7705	56943.6		5100	7960	57002.2	
5100	7200	56933.1		5100	7455	56953.7		5100	7710	56889.3		5100	7965	57002.0	
5100	7205	56994.3		5100	7460	56954.8		5100	7715	56787.7		5100	7970	57002.6	
5100	7210	57031.9		5100	7465	56956.6		5100	7720	56814.7		5100	7975	57001.5	
5100	7215	57028.2		5100	7470	56957.4		5100	7725	57125.9		5100	7980	57003.8	
5100	7220	57040.3		5100	7475	56960.1		5100	7730	57080.9		5100	7985	57004.7	
5100	7225	57045.9		5100	7480	56963.6		5100	7735	57082.0		5100	7990	57008.1	
5100	7230	57037.3		5100	7485	56968.0		5100	7740	57078.8		5100	7995	57005.7	
5100	7235	57041.9		5100	7490	56970.9		5100	7745	57032.4		5100	8000	57003.9	
5100	7240	57072.6		5100	7495	56965.0		5100	7750	57006.5		5100	8005	57000.8	
5100	7245	57047.8		5100	7500	56974.9		5100	7755	56961.6		5100	8010	56996.6	
5100	7250	57018.1		5100	7505	56974.6		5100	7760	56967.4		5100	8015	56994.6	
5100	7255	56977.5		5100	7510	56973.8		5100	7765	57032.5		5100	8020	56990.3	
5100	7260	56970.1		5100	7515	56977.5		5100	7770	57113.8		5100	8025	56984.1	
5100	7265	56970.4		5100	7520	56981.2		5100	7775	57075.4		5100	8030	56973.1	
5100	7270	56970.7		5100	7525	56982.7		5100	7780	57021.7		5100	8035	56962.3	
5100	7275	56961.2		5100	7530	56987.2		5100	7785	57063.5		5100	8040	56950.1	
5100	7280	56966.7		5100	7535	56989.1		5100	7790	57112.1		5100	8045	56938.5	
5100	7285	57011.9		5100	7540	56991.3		5100	7795	56983.7		5100	8050	56909.0	
5100	7290	57125.0		5100	7545	56990.1		5100	7800	56906.2		5100	8055	56893.9	
5100	7295	57106.4		5100	7550	56988.5		5100	7805	56919.5		5100	8060	56876.0	
5100	7300	57080.6		5100	7555	56987.8		5100	7810	56955.2		5100	8065	56841.6	
5100	7305	57068.2		5100	7560	56985.1		5100	7815	56987.9		5100	8070	56821.4	
5100	7310	57052.4		5100	7565	56985.2		5100	7820	57008.0		5100	8075	56805.8	
5100	7315	57059.9		5100	7570	56987.1		5100	7825	57015.3		5100	8080	56784.6	
5100	7320	57104.7		5100	7575	56988.5		5100	7830	57002.1		5100	8085	56774.9	
5100	7325	57242.5		5100	7580	56991.4		5100	7835	56993.1		5100	8090	56766.6	
5100	7330	57461.2		5100	7585	56995.0		5100	7840	56993.7		5100	8095	56760.4	
5100	7335	57384.2		5100	7590	57001.6		5100	7845	56998.5		5100	8100	56750.5	
5100	7340	57268.1		5100	7595	57006.3		5100	7850	57003.0		5100	8105	56732.9	
5100	7345	57276.3		5100	7600	57011.3		5100	7855	56999.3		5100	8110	56722.7	
5100	7350	56965.9		5100	7605	57015.8		5100	7860	57001.1		5100	8115	56720.9	
5100	7355	56989.0		5100	7610	57021.1		5100	7865	57007.6		5100	8120	56733.4	
5100	7360	56946.0		5100	7615	57025.3		5100	7870	57014.2		5100	8125	56755.0	
5100	7365	56953.3		5100	7620	57026.6		5100	7875	57004.7		5100	8130	56779.2	
5100	7370	56967.2		5100	7625	57024.6		5100	7880	57013.7		5100	8135	56809.9	
5100	7375	56973.2		5100	7630	57025.6		5100	7885	57009.1		5100	8140	56910.4	
5100	7380	56963.1		5100	7635	57000.1		5100	7890	57003.2		5100	8145	56985.1	
5100	7385	56966.1		5100	7640	56985.8		5100	7895	57004.4		5100	8150	57128.9	

## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI
Easting	Easting		(nT)	Easting	Easting		(nT)	Easting	Easting		(nT)
<u>Line 5100 East (cont.)</u>				<u>Line 5100 East (cont.)</u>				<u>Line 5200 East (cont.)</u>			
5100	8155		57092.1	5100	8410		56898.3	5200	7350		56961.1
5100	8160		57001.3	5100	8415		56874.0	5200	7355		56973.7
5100	8165		56840.9	5100	8420		56873.9	5200	7360		56962.9
5100	8170		56797.7	5100	8425		56875.4	5200	7365		56957.4
5100	8175		56757.7	5100	8430		56880.3	5200	7370		56957.3
5100	8180		56661.9	5100	8435		56872.2	5200	7375		56954.3
5100	8185		56681.3	5100	8440		56899.2	5200	7380		56959.5
5100	8190		56723.1	5100	8445		56903.6	5200	7385		56960.2
5100	8195		56734.6	5100	8450		56903.4	5200	7390		56958.4
5100	8200		56749.9	5100	8455		56905.1	5200	7395		56956.0
5100	8205		56759.4	5100	8460		56902.2	5200	7400		56954.0
5100	8210		56775.1	5100	8465		56899.3	5200	7405		56950.9
5100	8215		56792.2	5100	8470		56901.0	5200	7410		56958.5
5100	8220		56802.0	5100	8475		56902.8	5200	7415		56966.6
5100	8225		56805.9	5100	8480		56900.7	5200	7420		56970.6
5100	8230		56809.9	5100	8485		56895.3	5200	7425		56973.6
5100	8235		56813.4	5100	8490		56904.7	5200	7430		56970.0
5100	8240		56825.7	5100	8495		56910.3	5200	7435		56965.9
5100	8245		56830.3	5100	8500		56898.3	5200	7440		56948.5
5100	8250		56820.6					5200	7445		56946.5
5100	8255		56833.7	<u>Line 5200 East</u>				5200	7450		56957.0
5100	8260		56849.7	5200	7200		56965.0	5200	7455		56961.2
5100	8265		56852.9	5200	7205		56964.8	5200	7460		56968.0
5100	8270		56860.7	5200	7210		56965.9	5200	7465		56971.0
5100	8275		56859.6	5200	7215		56968.9	5200	7470		56972.5
5100	8280		56860.5	5200	7220		56971.1	5200	7475		56927.8
5100	8285		56863.1	5200	7225		56973.6	5200	7480		56940.8
5100	8290		56865.8	5200	7230		56973.4	5200	7485		56954.5
5100	8295		56872.3	5200	7235		56975.0	5200	7490		57006.6
5100	8300		56873.5	5200	7240		56974.9	5200	7495		56959.4
5100	8305		56873.7	5200	7245		56974.9	5200	7500		56966.8
5100	8310		56870.7	5200	7250		56974.6	5200	7505		56957.2
5100	8315		56872.5	5200	7255		56976.3	5200	7510		56952.3
5100	8320		56871.8	5200	7260		56972.3	5200	7515		56953.7
5100	8325		56872.8	5200	7265		56972.1	5200	7520		56956.7
5100	8330		56876.8	5200	7270		56974.3	5200	7525		56960.6
5100	8335		56883.0	5200	7275		56969.7	5200	7530		56965.7
5100	8340		56891.8	5200	7280		56967.8	5200	7535		56967.8
5100	8345		56897.8	5200	7285		56964.7	5200	7540		56971.3
5100	8350		56898.0	5200	7290		56961.8	5200	7545		56974.0
5100	8355		56901.8	5200	7295		56961.4	5200	7550		56972.4
5100	8360		56902.0	5200	7300		56957.3	5200	7555		56979.2
5100	8365		56901.3	5200	7305		56947.4	5200	7560		56981.8
5100	8370		56894.5	5200	7310		56939.5	5200	7565		56979.9
5100	8375		56891.5	5200	7315		56948.1	5200	7570		56989.3
5100	8380		56887.9	5200	7320		56955.4	5200	7575		56982.9
5100	8385		56888.9	5200	7325		56963.4	5200	7580		56984.7
5100	8390		56889.9	5200	7330		56961.9	5200	7585		56985.1
5100	8395		56890.7	5200	7335		56958.6	5200	7590		56985.0
5100	8400		56898.9	5200	7340		56956.0	5200	7595		56986.3
5100	8405		56897.3	5200	7345		56955.1				

## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI
Easting	Easting		(nT)	Easting	Easting		(nT)	Easting	Easting		(nT)	Easting	Easting		(nT)
<u>Line 5200 East (cont.)</u>				<u>Line 5200 East (cont.)</u>				<u>Line 5200 East (cont.)</u>				<u>Line 5200 East (cont.)</u>			
5200	7855		56982.1	5200	8110		57133.4	5200	8365		56852.5	5200	8550		56936.9
5200	7860		56967.3	5200	8115		57144.8	5200	8370		56943.1	5200	8555		56938.0
5200	7865		56958.7	5200	8120		57162.0	5200	8375		57082.5	5200	8560		56939.1
5200	7870		56957.0	5200	8125		57180.7	5200	8380		56843.5	5200	8565		56933.7
5200	7875		56961.1	5200	8130		57195.5	5200	8385		56754.3	5200	8570		56929.7
5200	7880		56993.4	5200	8135		57205.4	5200	8390		56934.2	5200	8575		56924.5
5200	7885		56965.4	5200	8140		57208.3	5200	8395		56746.6	5200	8580		56917.2
5200	7890		56929.9	5200	8145		57194.9	5200	8400		56559.4	5200	8585		56911.6
5200	7895		56967.0	5200	8150		57169.6	5200	8405		56688.8	5200	8590		56915.5
5200	7900		56986.3	5200	8155		57154.4	5200	8410		56737.2	5200	8595		56919.5
5200	7905		56992.9	5200	8160		57135.8	5200	8415		56763.4	5200	8600		56923.3
5200	7910		56991.0	5200	8165		57130.8	5200	8420		56776.4	5200	8605		56914.4
5200	7915		56968.5	5200	8170		57131.4	5200	8425		56799.1	5200	8610		56904.0
5200	7920		56967.6	5200	8175		57136.6	5200	8430		56815.8	5200	8615		56890.5
5200	7925		57012.2	5200	8180		57171.1	5200	8435		56829.6	5200	8620		56886.6
5200	7930		57017.8	5200	8185		57219.9	5200	8440		56836.7	5200	8625		56878.3
5200	7935		57008.0	5200	8190		57218.2	5200	8445		56843.7	5200	8630		56879.9
5200	7940		57011.3	5200	8195		57173.1	5200	8450		56848.7	5200	8635		56880.1
5200	7945		57011.2	5200	8200		57088.0	5200	8455		56858.8	5200	8640		56896.8
5200	7950		57013.0	5200	8205		57026.0	5200	8460		56868.7	5200	8645		56903.3
5200	7955		57030.2	5200	8210		56992.0	5200	8465		56875.5	5200	8650		56911.1
5200	7960		57012.3	5200	8215		56970.7	5200	8470		56880.0	5200	8655		56916.2
5200	7965		57010.3	5200	8220		56965.1	5200	8475		56905.6	5200	8660		56921.8
5200	7970		57009.7	5200	8225		56812.0	5200	8480		56903.6	5200	8665		56923.0
5200	7975		57014.9	5200	8230		56698.5	5200	8485		56900.1	5200	8670		56917.7
5200	7980		57017.1	5200	8235		56601.9	5200	8490		56895.8	5200	8675		56908.0
5200	7985		57017.7	5200	8240		56556.1	5200	8495		56891.2	5200	8680		56903.7
5200	7990		57023.0	5200	8245		56539.3	5200	8500		56888.6	5200	8685		56899.3
5200	7995		57024.8	5200	8250		56432.5	5200	8505		56881.7	5200	8690		56900.4
5200	8000		57026.2	5200	8255		56624.8	5200	8510		56876.8	5200	8695		56897.8
5200	8005		57030.3	5200	8260		56870.7	5200	8515		56876.7	5200	8700		56898.8
5200	8010		57031.4	5200	8265		56472.3	5200	8520		56877.8				
5200	8015		57030.6	5200	8270		56521.1	5200	8525		56884.4	<u>Line 5300 East</u>			
5200	8020		57028.0	5200	8275		56546.4	5200	8530		56886.7	5300	7300		56969.7
5200	8025		57031.1	5200	8280		56653.4	5200	8535		56886.2	5300	7305		56969.6
5200	8030		57030.8	5200	8285		56640.9	5200	8540		56892.2	5300	7310		56970.2
5200	8035		57036.3	5200	8290		56628.3	5200	8545		56906.4	5300	7315		56969.3
5200	8040		57034.8	5200	8295		56657.6	5200	8550		56916.8	5300	7320		56969.7
5200	8045		57033.0	5200	8300		56698.2	5200	8555		56928.4	5300	7325		56971.3
5200	8050		57039.4	5200	8305		56665.4	5200	8560		56930.0	5300	7330		56972.8
5200	8055		57046.8	5200	8310		56743.0	5200	8565		56926.8	5300	7335		56970.4
5200	8060		57055.1	5200	8315		56862.6	5200	8570		56920.3	5300	7340		56976.4
5200	8065		57069.5	5200	8320		56935.1	5200	8575		56910.9	5300	7345		56980.4
5200	8070		57075.7	5200	8325		56866.3	5200	8580		56902.5	5300	7350		56973.7
5200	8075		57084.1	5200	8330		56838.6	5200	8585		56922.2	5300	7355		56978.7
5200	8080		57091.0	5200	8335		56727.0	5200	8590		56946.9	5300	7360		56980.8
5200	8085		57099.4	5200	8340		56777.1	5200	8595		56949.2	5300	7365		56983.2
5200	8090		57109.1	5200	8345		56802.2	5200	8600		56941.9	5300	7370		56985.0
5200	8095		57116.5	5200	8350		56787.5	5200	8605		56948.6	5300	7375		56983.7
5200	8100		57121.4	5200	8355		56757.3	5200	8610		56940.0	5300	7380		56983.0
5200	8105		57128.9	5200	8360		56789.4	5200	8615		56936.6	5300	7385		56985.4

## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI
Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)
<b>Line 5300 East (cont.)</b>			<b>Line 5300 East (cont.)</b>			<b>Line 5300 East (cont.)</b>			<b>Line 5300 East (cont.)</b>		
5300	7390	56995.1	5300	7640	56996.6	5300	7895	57017.7	5300	8150	57108.0
5300	7395	57001.9	5300	7645	56997.8	5300	7900	57031.8	5300	8155	57112.4
5300	7400	57003.6	5300	7650	57000.0	5300	7905	57045.7	5300	8160	57119.5
5300	7405	56991.4	5300	7655	57000.6	5300	7910	57106.9	5300	8165	57119.8
5300	7410	56981.0	5300	7660	56997.7	5300	7915	57070.6	5300	8170	57116.5
5300	7415	56956.0	5300	7665	56993.7	5300	7920	56959.7	5300	8175	57116.0
5300	7420	56912.4	5300	7670	56989.9	5300	7925	56984.8	5300	8180	57119.1
5300	7425	56950.7	5300	7675	56986.9	5300	7930	57013.6	5300	8185	57132.4
5300	7430	56963.1	5300	7680	56987.1	5300	7935	57012.6	5300	8190	57150.9
5300	7435	56942.8	5300	7685	56993.8	5300	7940	57016.0	5300	8195	57171.7
5300	7440	56886.1	5300	7690	56992.4	5300	7945	57008.2	5300	8200	57183.0
5300	7445	56921.7	5300	7695	56985.4	5300	7950	57009.2	5300	8205	57208.5
5300	7450	56973.8	5300	7700	56987.2	5300	7955	57011.9	5300	8210	57169.3
5300	7455	56956.3	5300	7705	56990.7	5300	7960	57011.1	5300	8215	57141.7
5300	7460	56963.2	5300	7710	56996.6	5300	7965	57013.8	5300	8220	57117.5
5300	7465	56964.9	5300	7715	57003.4	5300	7970	57019.4	5300	8225	57101.4
5300	7470	56966.2	5300	7720	57024.4	5300	7975	57019.9	5300	8230	57065.5
5300	7475	56962.7	5300	7725	57130.1	5300	7980	57022.9	5300	8235	57009.1
5300	7480	56957.2	5300	7730	57767.2	5300	7985	57028.2	5300	8240	56979.5
5300	7485	56956.6	5300	7735	57000.3	5300	7990	57029.4	5300	8245	56961.3
5300	7490	56961.3	5300	7740	57011.0	5300	7995	57023.6	5300	8250	56809.0
5300	7495	56965.2	5300	7745	57003.5	5300	8000	57028.3	5300	8255	56678.5
5300	7500	56968.5	5300	7750	57002.7	5300	8005	57050.5	5300	8260	56605.0
5300	7500	56972.6	5300	7755	56990.4	5300	8010	57067.1	5300	8265	56569.4
5300	7505	56970.4	5300	7760	56989.9	5300	8015	57031.9	5300	8270	56626.9
5300	7510	56968.8	5300	7765	56991.6	5300	8020	57020.9	5300	8275	56713.0
5300	7515	56971.1	5300	7770	56991.0	5300	8025	57016.9	5300	8280	56789.7
5300	7520	56971.0	5300	7775	56937.4	5300	8030	57014.3	5300	8285	56809.3
5300	7525	56974.2	5300	7780	57025.6	5300	8035	57010.2	5300	8290	56811.6
5300	7530	56977.2	5300	7785	57004.6	5300	8040	57008.6	5300	8295	56817.7
5300	7535	56963.1	5300	7790	57016.9	5300	8045	57010.3	5300	8300	56810.7
5300	7540	56956.3	5300	7795	57021.2	5300	8050	57012.6	5300	8305	56803.4
5300	7545	56969.7	5300	7800	57018.8	5300	8055	57010.1	5300	8310	56792.8
5300	7550	56976.8	5300	7805	57024.1	5300	8060	57005.8	5300	8315	56791.9
5300	7555	56980.9	5300	7810	57022.7	5300	8065	56976.0	5300	8320	56795.8
5300	7560	56984.7	5300	7815	57022.0	5300	8070	56983.6	5300	8325	56809.5
5300	7565	56986.8	5300	7820	57024.2	5300	8075	56987.3	5300	8330	56821.2
5300	7570	56986.8	5300	7825	57032.9	5300	8080	56996.9	5300	8335	56826.3
5300	7575	56995.8	5300	7830	57030.1	5300	8085	57001.3	5300	8340	56828.6
5300	7580	57092.1	5300	7835	57033.6	5300	8090	57017.7	5300	8345	56827.0
5300	7585	57601.0	5300	7840	57029.0	5300	8095	57035.3	5300	8350	56824.7
5300	7590	56971.6	5300	7845	57040.4	5300	8100	57046.7	5300	8355	56805.5
5300	7595	56988.0	5300	7850	57037.9	5300	8105	57047.3	5300	8360	56788.3
5300	7600	56994.0	5300	7855	57051.7	5300	8110	57040.9	5300	8365	56765.1
5300	7605	56997.4	5300	7860	57055.8	5300	8115	57051.2	5300	8370	56720.8
5300	7610	56999.6	5300	7865	57081.0	5300	8120	57068.4	5300	8375	56711.9
5300	7615	56999.5	5300	7870	57106.6	5300	8125	57087.6	5300	8380	56711.4
5300	7620	56998.3	5300	7875	57047.9	5300	8130	57102.0	5300	8385	56723.1
5300	7625	56996.2	5300	7880	57045.9	5300	8135	57119.1	5300	8390	56735.5
5300	7630	56994.6	5300	7885	57022.3	5300	8140	57123.7	5300	8395	56749.3
5300	7635	56992.9	5300	7890	57009.8	5300	8145	57116.3	5300	8400	56755.0

## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates			Grid Co-ordinates			Grid Co-ordinates			Grid Co-ordinates		
Easting		TMI	Easting		TMI	Easting		TMI	Easting		TMI
Easting		(nT)	Easting		(nT)	Easting		(nT)	Easting		(nT)
<b>Line 5300 East (cont.)</b>			<b>Line 5300 East (cont.)</b>			<b>Line 5400 East (cont.)</b>			<b>Line 5400 East (cont.)</b>		
5300	8405	56764.1	5300	8650	56869.4	5400	7690	56962.3	5400	7945	56978.3
5300	8410	56773.4	5300	8655	56877.2	5400	7695	56964.4	5400	7950	56978.7
5300	8415	56778.3	5300	8660	56880.3	5400	7700	56962.9	5400	7955	56981.6
5300	8420	56784.6	5300	8665	56887.9	5400	7705	56956.4	5400	7960	56980.9
5300	8425	56796.4	5300	8670	56891.0	5400	7710	56962.0	5400	7965	56980.9
5300	8430	56801.7	5300	8675	56894.5	5400	7715	56956.7	5400	7970	56981.7
5300	8435	56804.9	5300	8680	56897.6	5400	7720	56958.2	5400	7975	56984.2
5300	8440	56805.5	5300	8685	56906.8	5400	7725	56963.2	5400	7980	56985.3
5300	8445	56810.7	5300	8690	56917.2	5400	7730	56967.8	5400	7985	56984.7
5300	8450	56814.7	5300	8695	56921.3	5400	7735	56963.7	5400	7990	56986.0
5300	8455	56811.4	5300	8700	56929.2	5400	7740	56966.8	5400	7995	56985.1
5300	8460	56820.6				5400	7745	56968.9	5400	8000	56989.5
5300	8465	56821.9				5400	7750	56970.0	5400	8005	56988.3
5300	8470	56824.4	<b>Line 5400 East</b>			5400	7755	56968.1	5400	8010	56991.5
5300	8475	56825.7	5400	7500	56974.2	5400	7760	56970.5	5400	8015	56995.1
5300	8480	56828.4	5400	7505	56977.7	5400	7765	56969.0	5400	8020	57003.1
5300	8485	56830.6	5400	7510	56973.8	5400	7770	56968.4	5400	8025	57006.9
5300	8490	56836.4	5400	7515	56976.6	5400	7775	56977.6	5400	8030	57010.5
5300	8495	56839.6	5400	7520	56975.6	5400	7780	56970.3	5400	8035	57007.1
5300	8500	56840.0	5400	7525	56976.8	5400	7785	56973.6	5400	8040	56999.3
5300	8505	56840.6	5400	7530	56975.8	5400	7785	56973.6	5400	8040	56999.3
5300	8505	56840.6	5400	7535	56976.2	5400	7790	56974.6	5400	8045	56990.6
5300	8500	56862.5	5400	7540	56974.5	5400	7795	56984.0	5400	8050	57032.1
5300	8505	56858.0	5400	7545	56973.1	5400	7800	56994.1	5400	8055	56999.9
5300	8510	56859.6	5400	7550	56973.5	5400	7805	56992.1	5400	8060	57025.6
5300	8515	56862.2	5400	7555	56972.2	5400	7810	56989.3	5400	8065	56999.2
5300	8520	56867.5	5400	7560	56974.2	5400	7815	56894.2	5400	8070	56988.8
5300	8525	56869.5	5400	7565	56976.1	5400	7820	56980.7	5400	8075	56949.2
5300	8530	56871.1	5400	7570	56977.8	5400	7825	56977.5	5400	8080	56974.9
5300	8535	56868.3	5400	7575	56976.2	5400	7830	56987.9	5400	8085	56976.0
5300	8540	56869.4	5400	7580	56978.4	5400	7835	56989.2	5400	8090	56998.7
5300	8545	56869.3	5400	7585	56978.3	5400	7840	56979.9	5400	8095	56995.6
5300	8550	56869.6	5400	7590	56976.9	5400	7845	56974.0	5400	8100	56983.7
5300	8555	56867.1	5400	7595	56977.7	5400	7850	56971.1	5400	8105	56989.0
5300	8560	56865.1	5400	7600	56981.3	5400	7855	56965.0	5400	8110	56992.9
5300	8565	56862.7	5400	7605	56983.9	5400	7860	56960.6	5400	8115	57025.7
5300	8570	56867.7	5400	7610	56984.7	5400	7865	56968.6	5400	8120	57025.7
5300	8575	56887.1	5400	7615	56986.7	5400	7870	56975.7	5400	8125	56994.3
5300	8580	56904.0	5400	7620	56989.3	5400	7875	56970.6	5400	8130	57005.7
5300	8585	56939.8	5400	7625	56993.1	5400	7880	56979.6	5400	8135	57013.5
5300	8590	56962.9	5400	7630	56983.7	5400	7885	56972.6	5400	8140	57027.7
5300	8595	56970.5	5400	7635	56982.2	5400	7890	56977.9	5400	8145	57045.7
5300	8600	56925.1	5400	7640	56961.7	5400	7895	56978.1	5400	8150	56961.4
5300	8605	56822.4	5400	7645	56949.6	5400	7900	56976.4	5400	8155	56999.6
5300	8610	56776.0	5400	7650	56939.9	5400	7905	56978.1	5400	8160	57023.4
5300	8615	56778.5	5400	7655	56942.5	5400	7910	56975.8	5400	8165	57032.1
5300	8620	56774.0	5400	7660	56951.3	5400	7915	56975.2	5400	8170	57030.8
5300	8625	56780.7	5400	7665	56956.3	5400	7920	56974.3	5400	8175	57035.8
5300	8630	56834.8	5400	7670	56957.6	5400	7925	56973.4	5400	8180	57043.0
5300	8635	56846.1	5400	7675	56957.4	5400	7930	56974.3	5400	8185	57048.2
5300	8640	56859.8	5400	7680	56958.8	5400	7935	56974.1	5400	8190	57053.7
5300	8645	56866.1	5400	7685	56963.3	5400	7940	56976.6	5400	8195	57058.1

## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI
Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)
<u>Line 5400 East (cont.)</u>			<u>Line 5400 East (cont.)</u>			<u>Line 5400 East (cont.)</u>			<u>Line 5400 East (cont.)</u>		
5400	8200	57070.9	5400	8455	56681.5	5400	8705	56827.0	5400	8960	56927.3
5400	8205	57112.7	5400	8460	56702.1	5400	8710	56826.2	5400	8965	56925.3
5400	8210	57122.9	5400	8465	56666.0	5400	8715	56831.5	5400	8970	56926.0
5400	8215	57015.2	5400	8470	56449.1	5400	8720	56847.9	5400	8975	56922.7
5400	8220	57046.9	5400	8475	56689.1	5400	8725	56870.1	5400	8980	56923.1
5400	8225	57070.6	5400	8480	56704.5	5400	8730	56876.9	5400	8985	56920.1
5400	8230	57092.6	5400	8485	56750.8	5400	8735	56892.7	5400	8990	56925.1
5400	8235	57097.0	5400	8490	56895.8	5400	8740	56900.4	5400	8995	56925.2
5400	8240	57104.8	5400	8495	56930.6	5400	8745	56921.7	5400	9000	56924.7
5400	8245	57108.9	5400	8500	57090.4	5400	8750	56908.7			
5400	8250	57111.9	5400	8500	57014.2	5400	8755	56907.8	<u>Line 5500 East</u>		
5400	8255	57109.9	5400	8505	57096.0	5400	8760	56907.6	5500	8000	56984.6
5400	8260	57101.9	5400	8510	57069.4	5400	8765	56929.3	5500	8005	56976.3
5400	8265	57097.3	5400	8515	57132.1	5400	8770	56940.2	5500	8010	56978.8
5400	8270	57086.3	5400	8520	57001.1	5400	8775	56944.1	5500	8015	56976.5
5400	8275	57074.2	5400	8525	56866.9	5400	8780	56941.5	5500	8020	57015.3
5400	8280	57061.3	5400	8530	56948.1	5400	8785	56953.4	5500	8025	56989.2
5400	8285	57065.8	5400	8535	56986.9	5400	8790	56950.8	5500	8030	56997.3
5400	8290	57169.3	5400	8540	56573.7	5400	8795	56952.4	5500	8035	56992.1
5400	8295	57252.8	5400	8545	56613.3	5400	8800	56959.3	5500	8040	56985.2
5400	8300	57193.1	5400	8550	56925.8	5400	8805	56958.6	5500	8045	56994.1
5400	8305	56922.5	5400	8555	57011.4	5400	8810	56955.8	5500	8050	56989.9
5400	8310	56593.0	5400	8560	56853.1	5400	8815	56951.0	5500	8055	56989.7
5400	8315	56181.8	5400	8565	56849.4	5400	8820	56946.2	5500	8060	57014.2
5400	8320	55987.1	5400	8570	56930.9	5400	8825	56939.8	5500	8065	56973.1
5400	8325	55736.5	5400	8575	57083.5	5400	8830	56920.2	5500	8070	56982.6
5400	8330	55533.4	5400	8580	57410.7	5400	8835	56900.5	5500	8075	56978.7
5400	8335	55555.5	5400	8585	57529.8	5400	8840	56891.7	5500	8080	56981.8
5400	8340	56486.2	5400	8590	57487.0	5400	8845	56885.8	5500	8085	56983.4
5400	8345	57484.0	5400	8595	57441.9	5400	8850	56861.2	5500	8090	56973.0
5400	8350	58114.8	5400	8600	57503.4	5400	8855	56828.2	5500	8095	56993.5
5400	8355	56640.8	5400	8605	57554.9	5400	8860	56820.5	5500	8100	56999.2
5400	8360	56735.0	5400	8610	57472.8	5400	8865	56847.6	5500	8105	56991.7
5400	8365	56999.9	5400	8615	57277.8	5400	8870	56920.4	5500	8110	56994.5
5400	8370	56912.6	5400	8620	57184.5	5400	8875	56932.9	5500	8115	57008.5
5400	8375	60170.3	5400	8625	56979.7	5400	8880	56937.4	5500	8120	57007.8
5400	8380	61047.7	5400	8630	56624.8	5400	8885	56883.3	5500	8125	57009.5
5400	8385	59518.8	5400	8635	56555.1	5400	8890	56893.4	5500	8130	57000.7
5400	8390	56987.3	5400	8640	56638.2	5400	8895	56894.5	5500	8135	57012.6
5400	8395	57075.4	5400	8645	56690.5	5400	8900	56914.4	5500	8140	57002.8
5400	8400	57153.5	5400	8650	56649.9	5400	8905	56921.1	5500	8145	56991.1
5400	8405	56928.6	5400	8655	56634.2	5400	8910	56919.9	5500	8150	57010.1
5400	8410	56424.1	5400	8660	56464.8	5400	8915	56929.1	5500	8155	56995.7
5400	8415	56548.0	5400	8665	56486.2	5400	8920	56942.0	5500	8160	56996.3
5400	8420	56790.2	5400	8670	56443.0	5400	8925	56951.7	5500	8165	56998.1
5400	8425	56609.7	5400	8675	56509.8	5400	8930	56954.6	5500	8170	57000.5
5400	8430	56525.5	5400	8680	56567.4	5400	8935	56962.1	5500	8175	57001.6
5400	8435	56621.2	5400	8685	56634.2	5400	8940	56952.7	5500	8180	56997.6
5400	8440	56608.6	5400	8690	56700.3	5400	8945	56941.8	5500	8185	56993.6
5400	8445	56574.8	5400	8695	56755.1	5400	8950	56930.6	5500	8190	56990.5
5400	8450	56676.1	5400	8700	56793.5	5400	8955	56928.1	5500	8195	57004.8



## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates			Grid Co-ordinates			Grid Co-ordinates			Grid Co-ordinates		
Easting		TMI	Easting		TMI	Easting		TMI	Easting		TMI
Easting		(nT)	Easting		(nT)	Easting		(nT)	Easting		(nT)
<u>Line 5500 East (cont.)</u>			<u>Line 5500 East (cont.)</u>			<u>Line 5500 East (cont.)</u>			<u>Line 5500 East (cont.)</u>		
5500	8200	57003.3	5500	8455	57117.6	5500	8705	56266.3	5500	8960	56914.8
5500	8205	57003.8	5500	8460	57136.6	5500	8710	56395.5	5500	8965	56908.5
5500	8210	57012.4	5500	8465	57132.9	5500	8715	56542.4	5500	8965	56910.8
5500	8215	57015.8	5500	8470	57107.2	5500	8720	56713.9	5500	8970	56907.4
5500	8220	57009.0	5500	8475	57053.3	5500	8725	56776.3	5500	8975	56913.0
5500	8225	57010.8	5500	8480	57030.6	5500	8730	56809.0	5500	8980	56897.5
5500	8230	57009.3	5500	8485	56995.6	5500	8735	56823.0	5500	8985	56909.5
5500	8235	57007.2	5500	8490	56975.5	5500	8740	56853.3	5500	8990	56919.8
5500	8240	57006.0	5500	8495	56961.6	5500	8745	56878.0	5500	8995	56920.4
5500	8245	57007.9	5500	8500	56979.5	5500	8750	56888.5	5500	9000	56920.8
5500	8250	57009.0	5500	8500	56999.4	5500	8755	56905.6			
5500	8255	57004.5	5500	8505	57050.2	5500	8760	56910.6	<u>Line 5600 East</u>		
5500	8260	56998.9	5500	8510	57127.0	5500	8765	56910.4	5600	8200	57004.1
5500	8265	56997.5	5500	8515	57188.6	5500	8770	56917.1	5600	8205	57003.3
5500	8270	56998.7	5500	8520	57185.3	5500	8775	56931.8	5600	8210	57000.5
5500	8275	57005.6	5500	8525	57235.6	5500	8780	56949.2	5600	8215	57000.3
5500	8280	56995.5	5500	8530	57237.8	5500	8785	57003.0	5600	8220	57000.1
5500	8285	57000.8	5500	8535	57198.0	5500	8790	56979.1	5600	8225	56997.3
5500	8290	56996.4	5500	8540	57233.6	5500	8795	56953.1	5600	8230	56994.0
5500	8295	57001.9	5500	8545	57302.1	5500	8800	56915.9	5600	8235	56988.5
5500	8300	56994.6	5500	8550	57330.0	5500	8805	56890.0	5600	8240	56986.9
5500	8305	56991.6	5500	8555	57361.2	5500	8810	56883.1	5600	8245	56986.1
5500	8310	56990.7	5500	8560	57387.1	5500	8815	56822.0	5600	8250	56984.3
5500	8315	56991.9	5500	8565	57405.7	5500	8820	56863.4	5600	8255	56980.2
5500	8320	56982.6	5500	8570	57432.2	5500	8825	56950.2	5600	8260	56976.0
5500	8325	56980.3	5500	8575	57447.3	5500	8830	56938.4	5600	8265	56972.1
5500	8330	56982.4	5500	8580	57502.7	5500	8835	56945.3	5600	8270	56969.2
5500	8335	56980.6	5500	8585	57369.6	5500	8840	56941.2	5600	8275	56965.2
5500	8340	56982.1	5500	8590	57353.0	5500	8845	56903.4	5600	8280	56961.5
5500	8345	56977.7	5500	8595	57475.8	5500	8850	56899.4	5600	8285	56959.4
5500	8350	56984.2	5500	8600	57636.2	5500	8855	56895.9	5600	8290	56957.5
5500	8355	56997.4	5500	8605	57643.6	5500	8860	56875.9	5600	8295	56951.8
5500	8360	56980.7	5500	8610	57540.7	5500	8865	56896.5	5600	8300	56948.2
5500	8365	56981.4	5500	8615	57433.2	5500	8870	56907.8	5600	8305	56946.1
5500	8370	56988.5	5500	8620	57493.8	5500	8875	56914.7	5600	8310	56948.5
5500	8375	56983.0	5500	8625	57376.9	5500	8880	56914.1	5600	8315	56943.2
5500	8380	56980.3	5500	8630	57282.2	5500	8885	56917.4	5600	8320	56940.7
5500	8385	56981.7	5500	8635	57315.4	5500	8890	56911.4	5600	8325	56938.0
5500	8390	57005.1	5500	8640	57281.1	5500	8895	56882.4	5600	8330	56937.4
5500	8395	57025.2	5500	8645	57157.0	5500	8900	56879.3	5600	8335	56939.6
5500	8400	57015.9	5500	8650	57193.8	5500	8905	56880.8	5600	8340	56934.7
5500	8405	57012.3	5500	8655	57478.2	5500	8910	56887.3	5600	8345	56937.6
5500	8410	57015.1	5500	8660	57749.2	5500	8915	56887.5	5600	8350	56939.3
5500	8415	57020.7	5500	8665	58256.5	5500	8920	56891.9	5600	8355	56940.8
5500	8420	57025.6	5500	8670	57143.8	5500	8925	56884.3	5600	8360	56940.2
5500	8425	57038.4	5500	8675	55664.9	5500	8930	56914.0	5600	8365	56943.4
5500	8430	57053.0	5500	8680	56020.0	5500	8935	56894.0	5600	8370	56944.9
5500	8435	57063.0	5500	8685	56411.1	5500	8940	56896.2	5600	8375	56946.6
5500	8440	57068.0	5500	8690	56323.4	5500	8945	56911.3	5600	8380	56949.9
5500	8445	57081.8	5500	8695	56343.1	5500	8950	56902.6	5600	8385	56958.8
5500	8450	57098.3	5500	8700	56306.7	5500	8955	56907.1	5600	8390	56957.4

## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates			Grid Co-ordinates			Grid Co-ordinates			Grid Co-ordinates		
Eastings		TMI	Eastings		TMI	Eastings		TMI	Eastings		TMI
Eastings	Eastings	(nT)	Eastings	Eastings	(nT)	Eastings	Eastings	(nT)	Eastings	Eastings	(nT)
<b>Line 5600 East (cont.)</b>			<b>Line 5600 East (cont.)</b>			<b>Line 5600 East (cont.)</b>			<b>Line 5700 East (cont.)</b>		
5600	8395	56958.8	5600	8645	57014.7	5600	8900	56921.9	5700	8340	56918.7
5600	8400	56964.9	5600	8650	57081.1	5600	8905	56923.1	5700	8345	56917.4
5600	8405	56967.4	5600	8655	57131.0	5600	8910	56917.2	5700	8350	56916.7
5600	8410	56967.7	5600	8660	57190.9	5600	8915	56924.0	5700	8355	56916.9
5600	8415	56969.3	5600	8665	57226.7	5600	8920	56933.1	5700	8360	56917.4
5600	8420	56971.7	5600	8670	57228.8	5600	8925	56944.1	5700	8365	56917.6
5600	8425	56977.3	5600	8675	57081.7	5600	8930	56948.1	5700	8370	56919.1
5600	8430	56982.1	5600	8680	56715.4	5600	8935	56947.1	5700	8375	56920.5
5600	8435	56982.8	5600	8685	56609.2	5600	8940	56946.8	5700	8380	56923.7
5600	8440	56982.0	5600	8690	56714.5	5600	8945	56949.8	5700	8385	56927.4
5600	8445	56988.5	5600	8695	56423.0	5600	8950	56948.5	5700	8390	56932.3
5600	8450	56992.9	5600	8700	56299.5	5600	8955	56949.6	5700	8395	56934.0
5600	8455	56993.3	5600	8705	56300.2	5600	8960	56951.9	5700	8400	56938.2
5600	8460	56992.9	5600	8710	56384.7	5600	8965	56951.5	5700	8405	56939.5
5600	8465	56999.3	5600	8715	56502.3	5600	8970	56942.6	5700	8410	56942.9
5600	8470	56984.2	5600	8720	56628.8	5600	8975	56963.6	5700	8415	56946.3
5600	8475	56991.1	5600	8725	56705.0	5600	8980	56972.9	5700	8420	56950.5
5600	8480	56990.3	5600	8730	56770.1	5600	8985	56996.6	5700	8425	56953.1
5600	8485	56990.6	5600	8735	56810.5	5600	8990	57020.4	5700	8430	56957.0
5600	8490	56989.9	5600	8740	56830.4	5600	8995	56994.1	5700	8435	56960.0
5600	8495	56991.1	5600	8745	56851.3	5600	9000	57005.9	5700	8440	56965.2
5600	8500	56976.6	5600	8750	56859.7				5700	8445	56965.6
5600	8500	56965.5	5600	8755	56879.0	<b>Line 5700 East</b>			5700	8450	56969.5
5600	8505	56953.4	5600	8760	56902.6	5700	8200	57007.6	5700	8455	56971.4
5600	8510	56934.7	5600	8765	56935.5	5700	8205	57005.9	5700	8460	56976.5
5600	8515	56922.3	5600	8770	56940.5	5700	8210	57004.3	5700	8465	56987.8
5600	8520	56914.8	5600	8775	56953.0	5700	8215	57002.8	5700	8470	57020.4
5600	8525	56906.4	5600	8780	56967.0	5700	8220	56999.8	5700	8475	57050.6
5600	8530	56905.7	5600	8785	56971.1	5700	8225	57000.6	5700	8480	57179.6
5600	8535	56911.6	5600	8790	56983.3	5700	8230	57000.7	5700	8485	57422.6
5600	8540	56933.6	5600	8795	56990.3	5700	8235	56996.1	5700	8490	57210.2
5600	8545	57017.5	5600	8800	56998.5	5700	8240	56991.3	5700	8495	56883.6
5600	8550	57009.6	5600	8805	57013.1	5700	8245	56989.3	5700	8500	56929.1
5600	8555	56794.7	5600	8810	57036.6	5700	8250	56987.0	5700	8500	56834.9
5600	8560	56777.8	5600	8815	57049.5	5700	8255	56985.6	5700	8505	56847.5
5600	8565	56839.4	5600	8820	57057.2	5700	8260	56986.8	5700	8510	56909.5
5600	8570	56853.5	5600	8825	57056.5	5700	8265	56975.0	5700	8515	56915.9
5600	8575	56819.3	5600	8830	57056.8	5700	8270	56971.6	5700	8520	56926.6
5600	8580	56793.6	5600	8835	57017.6	5700	8275	56968.3	5700	8525	56937.6
5600	8585	56816.6	5600	8840	57029.3	5700	8280	56963.4	5700	8530	56951.3
5600	8590	56820.1	5600	8845	56990.7	5700	8285	56960.3	5700	8535	56962.7
5600	8595	56819.3	5600	8850	56953.8	5700	8290	56955.6	5700	8540	56974.3
5600	8600	56790.8	5600	8855	56920.6	5700	8295	56952.1	5700	8545	56992.0
5600	8605	56754.4	5600	8860	56888.6	5700	8300	56946.7	5700	8550	57031.1
5600	8610	56693.8	5600	8865	56893.9	5700	8305	56943.7	5700	8555	57170.8
5600	8615	56597.3	5600	8870	56898.8	5700	8310	56938.7	5700	8560	57152.5
5600	8620	56597.5	5600	8875	56907.8	5700	8315	56935.1	5700	8565	56849.2
5600	8625	56676.2	5600	8880	56913.4	5700	8320	56929.4	5700	8570	56757.5
5600	8630	56828.0	5600	8885	56921.3	5700	8325	56925.1	5700	8575	56808.4
5600	8635	56944.3	5600	8890	56921.2	5700	8330	56922.2	5700	8580	56810.8
5600	8640	56974.0	5600	8895	56923.8	5700	8335	56919.8	5700	8585	56762.5

## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates			Grid Co-ordinates			Grid Co-ordinates			Grid Co-ordinates		
Easting		TMI	Easting		TMI	Easting		TMI	Easting		TMI
Easting		(nT)	Easting		(nT)	Easting		(nT)	Easting		(nT)
<b>Line 5700 East (cont.)</b>			<b>Line 5700 East (cont.)</b>			<b>Line 5700 East (cont.)</b>			<b>Line 5700 East (cont.)</b>		
5700	8590	56705.2	5700	8845	56772.3	5700	9100	56796.0	5700	9355	56942.8
5700	8595	56555.1	5700	8850	56796.5	5700	9105	56735.3	5700	9360	56943.5
5700	8600	56422.1	5700	8855	56782.3	5700	9110	56713.9	5700	9365	56943.9
5700	8605	56372.6	5700	8860	56816.3	5700	9115	56853.7	5700	9370	56946.7
5700	8610	56381.7	5700	8865	56831.3	5700	9120	57008.5	5700	9375	56948.5
5700	8615	56432.2	5700	8870	56827.6	5700	9125	56922.2	5700	9380	56955.2
5700	8620	56448.2	5700	8875	56856.1	5700	9130	56883.0	5700	9385	56955.0
5700	8625	56474.6	5700	8880	56856.1	5700	9135	56855.0	5700	9390	56955.4
5700	8630	56511.2	5700	8885	56848.4	5700	9140	56868.0	5700	9395	56949.8
5700	8635	56541.1	5700	8890	56849.1	5700	9145	56964.1	5700	9400	56947.2
5700	8640	56484.8	5700	8895	56849.8	5700	9150	57099.3	5700	9405	56945.8
5700	8645	56554.2	5700	8900	56850.5	5700	9155	57051.2	5700	9410	56942.6
5700	8650	56552.0	5700	8905	56849.8	5700	9160	56982.0	5700	9415	56938.7
5700	8655	56573.1	5700	8910	56855.4	5700	9165	56958.2	5700	9420	56969.0
5700	8660	56618.7	5700	8915	56864.4	5700	9170	56990.3	5700	9425	56905.8
5700	8665	56643.5	5700	8920	56872.4	5700	9175	56998.0	5700	9430	56924.7
5700	8670	56678.2	5700	8925	56875.3	5700	9180	56992.2	5700	9435	56938.1
5700	8675	56688.9	5700	8930	56877.8	5700	9185	56975.3	5700	9440	56943.1
5700	8680	56696.7	5700	8935	56887.0	5700	9190	56956.5	5700	9445	56947.8
5700	8685	56707.1	5700	8940	56890.7	5700	9195	57029.5	5700	9450	56950.5
5700	8690	56712.1	5700	8945	56896.6	5700	9200	57173.1	5700	9455	56950.1
5700	8695	56710.0	5700	8950	56898.5	5700	9205	57218.6	5700	9460	56962.6
5700	8700	56723.5	5700	8955	56902.7	5700	9210	57194.1	5700	9465	56971.4
5700	8705	56750.2	5700	8960	56906.3	5700	9215	57355.7	5700	9470	56915.7
5700	8710	56767.3	5700	8965	56906.9	5700	9220	57054.5	5700	9475	56939.7
5700	8715	56780.4	5700	8970	56909.8	5700	9225	56876.5	5700	9480	56951.7
5700	8720	56794.0	5700	8975	56911.5	5700	9230	56854.1	5700	9485	56955.8
5700	8725	56798.1	5700	8980	56915.6	5700	9235	56851.1	5700	9490	56965.2
5700	8730	56804.2	5700	8985	56917.1	5700	9240	56883.0	5700	9495	56983.2
5700	8735	56811.7	5700	8990	56919.8	5700	9245	56876.9	5700	9500	57009.5
5700	8740	56817.0	5700	8995	56923.9	5700	9250	56892.8			
5700	8745	56818.8	5700	9000	56927.3	5700	9255	56897.7	<b>Line 5800 East</b>		
5700	8750	56820.4	5700	9005	56933.6	5700	9260	56900.8	5800	8500	57101.4
5700	8755	56823.3	5700	9010	56934.9	5700	9265	56897.4	5800	8505	57004.8
5700	8760	56822.4	5700	9015	56927.3	5700	9270	56901.2	5800	8510	56945.3
5700	8765	56823.4	5700	9020	56921.9	5700	9275	56906.4	5800	8515	56926.0
5700	8770	56820.5	5700	9025	56920.9	5700	9280	56914.8	5800	8520	56921.5
5700	8775	56816.9	5700	9030	56919.3	5700	9285	56910.6	5800	8525	57112.8
5700	8780	56818.2	5700	9035	56913.4	5700	9290	56917.8	5800	8530	56857.4
5700	8785	56816.7	5700	9040	56902.1	5700	9295	56920.3	5800	8535	56061.5
5700	8790	56817.6	5700	9045	56894.6	5700	9300	56929.0	5800	8535	56061.7
5700	8795	56815.5	5700	9050	56885.8	5700	9305	56932.8	5800	8540	55958.1
5700	8800	56809.9	5700	9055	56870.5	5700	9310	56930.5	5800	8545	56287.8
5700	8805	56808.5	5700	9060	56872.4	5700	9315	56931.9	5800	8550	56370.1
5700	8810	56809.3	5700	9065	56860.3	5700	9320	56928.0	5800	8555	56430.8
5700	8815	56808.0	5700	9070	56851.8	5700	9325	56929.1	5800	8560	56511.9
5700	8820	56811.9	5700	9075	56831.8	5700	9330	56930.7	5800	8565	56584.6
5700	8825	56796.4	5700	9080	56738.9	5700	9335	56936.0	5800	8570	56629.9
5700	8830	56793.4	5700	9085	56707.9	5700	9340	56939.5	5800	8575	56652.2
5700	8835	56770.9	5700	9090	56735.3	5700	9345	56945.3	5800	8580	56659.4
5700	8840	56773.4	5700	9095	56818.0	5700	9350	56941.2	5800	8585	56677.4

## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI
Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)
<b>Line 5800 East (cont.)</b>			<b>Line 5800 East (cont.)</b>			<b>Line 5800 East (cont.)</b>			<b>Line 5800 East (cont.)</b>		
5800	8590	56695.8	5800	8845	56896.8	5800	9100	56893.1	5800	9355	56787.1
5800	8595	56727.4	5800	8850	56882.3	5800	9105	56909.9	5800	9360	56814.1
5800	8600	56740.1	5800	8855	56869.2	5800	9110	56912.7	5800	9365	56855.6
5800	8605	56736.1	5800	8860	56880.5	5800	9115	56907.2	5800	9370	56883.3
5800	8610	56751.2	5800	8865	56901.3	5800	9120	56909.8	5800	9375	56889.9
5800	8615	56791.1	5800	8870	56930.6	5800	9125	56911.8	5800	9380	56891.7
5800	8620	56804.5	5800	8875	56937.8	5800	9130	56925.1	5800	9385	56893.3
5800	8625	56810.8	5800	8880	56951.6	5800	9135	56944.5	5800	9390	56897.2
5800	8630	56792.3	5800	8885	57085.8	5800	9140	56967.9	5800	9395	56900.7
5800	8635	56786.3	5800	8890	57042.3	5800	9145	56986.6	5800	9400	56933.8
5800	8640	56817.2	5800	8895	56976.5	5800	9150	56983.8	5800	9405	56925.7
5800	8645	56866.8	5800	8900	56957.6	5800	9155	56982.8	5800	9410	56899.0
5800	8650	56912.5	5800	8905	56893.0	5800	9160	56983.9	5800	9415	56932.4
5800	8655	56956.5	5800	8910	56807.4	5800	9165	56973.4	5800	9420	56932.4
5800	8660	56985.0	5800	8915	56741.1	5800	9170	56965.4	5800	9425	56942.4
5800	8665	57006.6	5800	8920	56746.6	5800	9175	56964.5	5800	9430	56943.9
5800	8670	56993.3	5800	8925	56784.8	5800	9180	56962.6	5800	9435	56948.5
5800	8675	56983.6	5800	8930	56816.6	5800	9185	56957.2	5800	9440	56950.3
5800	8680	56982.0	5800	8935	56830.8	5800	9190	56958.6	5800	9445	56948.2
5800	8685	56978.4	5800	8940	56847.1	5800	9195	56961.9	5800	9450	56948.2
5800	8690	56961.0	5800	8945	56857.7	5800	9200	56967.4	5800	9455	56947.3
5800	8695	56934.0	5800	8950	56866.1	5800	9205	56964.2	5800	9460	56948.6
5800	8700	56914.4	5800	8955	56865.3	5800	9210	56966.0	5800	9465	56947.7
5800	8705	56920.0	5800	8960	56859.6	5800	9215	56973.0	5800	9470	56951.6
5800	8710	56939.1	5800	8965	56870.6	5800	9220	56979.1	5800	9475	56950.4
5800	8715	56933.0	5800	8970	56879.6	5800	9225	56980.5	5800	9480	56952.2
5800	8720	56927.5	5800	8975	56877.7	5800	9230	56970.9	5800	9485	56952.1
5800	8725	56926.5	5800	8980	56874.1	5800	9235	56967.7	5800	9490	56954.0
5800	8730	56924.6	5800	8985	56873.3	5800	9240	56955.4	5800	9495	56954.1
5800	8735	56919.6	5800	8990	56878.0	5800	9245	56957.3	5800	9500	56955.9
5800	8740	56913.8	5800	8995	56881.4	5800	9250	56957.3			
5800	8745	56909.8	5800	9000	56892.6	5800	9255	56948.7	<b>Line 5900 East</b>		
5800	8750	56896.2	5800	9005	56915.0	5800	9260	56946.9	5900	8500	57036.5
5800	8755	56890.1	5800	9010	56891.1	5800	9265	56946.0	5900	8505	56952.3
5800	8760	56885.5	5800	9015	56856.2	5800	9270	56945.7	5900	8510	56861.2
5800	8765	56823.1	5800	9020	56857.1	5800	9275	56946.3	5900	8515	56788.6
5800	8770	56508.2	5800	9025	56860.5	5800	9280	56947.9	5900	8520	56874.0
5800	8775	56782.3	5800	9030	56863.3	5800	9285	56955.0	5900	8525	56930.8
5800	8780	56864.7	5800	9035	56865.7	5800	9290	56955.8	5900	8530	56865.4
5800	8785	56890.1	5800	9040	56859.5	5800	9295	56947.9	5900	8535	56853.2
5800	8790	56892.7	5800	9045	56866.5	5800	9300	56945.4	5900	8540	56848.1
5800	8795	56860.2	5800	9050	56888.1	5800	9305	56960.7	5900	8545	56817.6
5800	8800	56828.6	5800	9055	56885.4	5800	9310	57009.9	5900	8550	56709.6
5800	8805	56813.9	5800	9060	56893.8	5800	9315	57202.2	5900	8555	56641.9
5800	8810	56822.3	5800	9065	56885.9	5800	9320	57685.6	5900	8560	56633.5
5800	8815	56830.7	5800	9070	56877.3	5800	9325	58623.3	5900	8565	56659.8
5800	8820	56834.3	5800	9075	56875.1	5800	9330	59480.1	5900	8570	56662.3
5800	8825	56835.9	5800	9080	56877.8	5800	9335	57104.7	5900	8575	56657.2
5800	8830	56844.0	5800	9085	56871.9	5800	9340	56481.9	5900	8580	56687.6
5800	8835	57545.3	5800	9090	56869.6	5800	9345	56708.6	5900	8585	56730.6
5800	8840	56856.8	5800	9095	56874.5	5800	9350	56741.9	5900	8590	56785.5

## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates			Grid Co-ordinates			Grid Co-ordinates			Grid Co-ordinates		
Eastng	Eastng	TMI (nT)	Eastng	Eastng	TMI (nT)	Eastng	Eastng	TMI (nT)	Eastng	Eastng	TMI (nT)
<b>Line 5900 East (cont.)</b>			<b>Line 5900 East (cont.)</b>			<b>Line 5900 East (cont.)</b>			<b>Line 5900 East (cont.)</b>		
5900	8595	56621.7	5900	8850	57298.6	5900	9105	57030.2	5900	9360	57154.2
5900	8600	56404.0	5900	8855	57324.2	5900	9110	57018.1	5900	9365	57308.9
5900	8605	56505.0	5900	8860	57413.0	5900	9115	57002.4	5900	9370	57603.4
5900	8610	56578.8	5900	8865	57526.7	5900	9120	56985.7	5900	9375	57257.7
5900	8615	56663.2	5900	8870	57968.6	5900	9125	56968.5	5900	9380	57323.7
5900	8620	56694.3	5900	8875	57819.6	5900	9130	56956.7	5900	9385	57168.1
5900	8625	56642.7	5900	8880	57648.9	5900	9135	56944.4	5900	9390	57475.9
5900	8630	56590.5	5900	8885	57181.2	5900	9140	56938.2	5900	9395	57342.5
5900	8635	56582.7	5900	8890	57021.8	5900	9145	56931.9	5900	9400	57037.0
5900	8640	56583.0	5900	8895	56987.5	5900	9150	56928.9	5900	9405	57145.5
5900	8645	56581.9	5900	8900	56986.4	5900	9155	56928.7	5900	9410	57079.8
5900	8650	56574.3	5900	8905	56959.1	5900	9160	56926.5	5900	9415	56683.7
5900	8655	56576.6	5900	8910	56948.1	5900	9165	56928.5	5900	9420	56761.4
5900	8660	56596.1	5900	8915	56937.8	5900	9170	56933.7	5900	9425	56628.8
5900	8665	56656.1	5900	8920	56929.7	5900	9175	56942.1	5900	9430	56771.9
5900	8670	56736.7	5900	8925	56924.5	5900	9180	56943.0	5900	9435	56864.5
5900	8675	56821.9	5900	8930	56922.2	5900	9185	56951.1	5900	9440	56928.9
5900	8680	56914.8	5900	8935	56923.2	5900	9190	56959.2	5900	9445	56901.9
5900	8685	56861.4	5900	8940	56922.8	5900	9195	56968.5	5900	9450	57221.4
5900	8690	56798.3	5900	8945	56921.7	5900	9200	56979.4	5900	9455	56750.7
5900	8695	56711.6	5900	8950	56921.2	5900	9205	56991.8	5900	9460	56750.1
5900	8700	56651.4	5900	8955	56925.2	5900	9210	57002.9	5900	9465	57150.2
5900	8705	56613.3	5900	8960	56926.4	5900	9215	57018.7	5900	9470	57307.0
5900	8710	56594.9	5900	8965	56929.8	5900	9220	57025.1	5900	9475	56823.8
5900	8715	56597.9	5900	8970	56937.0	5900	9225	57037.3	5900	9480	56758.0
5900	8720	56628.9	5900	8975	56939.9	5900	9230	57054.0	5900	9485	56785.2
5900	8725	56662.0	5900	8980	56942.4	5900	9235	57062.3	5900	9490	56830.1
5900	8730	56784.3	5900	8985	56942.4	5900	9240	57071.5	5900	9495	56868.2
5900	8735	56874.8	5900	8990	56945.4	5900	9245	57080.3	5900	9500	56898.0
5900	8740	56979.9	5900	8995	56944.3	5900	9250	57099.9			
5900	8745	57123.1	5900	9000	56944.8	5900	9255	57113.1	<b>Line 6000 East</b>		
5900	8750	57096.5	5900	9005	56944.6	5900	9260	57130.2	6000	8500	56877.3
5900	8755	57039.9	5900	9010	56946.4	5900	9265	57145.6	6000	8505	56864.2
5900	8760	57001.9	5900	9015	56950.0	5900	9270	57161.4	6000	8510	56866.3
5900	8765	56994.1	5900	9020	56954.6	5900	9275	57165.7	6000	8515	56872.8
5900	8770	56993.9	5900	9025	56956.0	5900	9280	57160.7	6000	8520	56884.2
5900	8775	56999.7	5900	9030	56959.2	5900	9285	57148.5	6000	8525	56889.8
5900	8780	57014.7	5900	9035	56960.2	5900	9290	57128.5	6000	8530	56909.8
5900	8785	57020.3	5900	9040	56969.1	5900	9295	57110.2	6000	8535	56915.3
5900	8790	57042.4	5900	9045	56985.4	5900	9300	57092.5	6000	8540	56941.8
5900	8795	57074.1	5900	9050	56989.4	5900	9305	57075.2	6000	8545	56941.3
5900	8800	57103.5	5900	9055	56960.8	5900	9310	57073.1	6000	8550	56957.2
5900	8805	57140.5	5900	9060	56982.5	5900	9315	57067.8	6000	8555	56963.8
5900	8810	57162.8	5900	9065	56997.0	5900	9320	57056.5	6000	8560	56985.1
5900	8815	57171.4	5900	9070	57009.3	5900	9325	57036.7	6000	8565	57017.5
5900	8820	57192.3	5900	9075	57016.3	5900	9330	57020.2	6000	8570	57043.9
5900	8825	57187.3	5900	9080	57024.7	5900	9335	56992.8	6000	8575	57052.7
5900	8830	57193.5	5900	9085	57027.9	5900	9340	56988.1	6000	8580	57108.0
5900	8835	57201.9	5900	9090	57033.5	5900	9345	57030.9	6000	8585	57115.9
5900	8840	57208.1	5900	9095	57037.7	5900	9350	57063.2	6000	8590	57138.5
5900	8845	57255.2	5900	9100	57034.6	5900	9355	57096.8	6000	8595	57142.6

## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI
Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)
<b>Line 6000 East (cont.)</b>			<b>Line 6000 East (cont.)</b>			<b>Line 6000 East (cont.)</b>			<b>Line 6000 East (cont.)</b>		
6000	8600	57135.2	6000	8855	57016.2	6000	9110	56975.5	6000	9365	57042.1
6000	8605	57171.0	6000	8860	57011.6	6000	9115	56981.3	6000	9370	57045.7
6000	8610	57173.4	6000	8865	57005.9	6000	9120	56984.8	6000	9375	57052.6
6000	8615	57181.1	6000	8870	57004.8	6000	9125	56990.8	6000	9380	57056.9
6000	8620	57187.6	6000	8875	56997.1	6000	9130	56992.7	6000	9385	57060.7
6000	8625	57186.9	6000	8880	57003.3	6000	9135	56990.1	6000	9390	57069.2
6000	8630	57199.9	6000	8885	56995.7	6000	9140	56987.2	6000	9395	57072.6
6000	8635	57210.8	6000	8890	56994.8	6000	9145	56990.6	6000	9400	57076.6
6000	8640	57227.5	6000	8895	56990.3	6000	9150	57008.9	6000	9405	57080.3
6000	8645	57236.7	6000	8900	56990.0	6000	9155	57023.1	6000	9410	57082.4
6000	8650	57228.9	6000	8905	56983.6	6000	9160	57006.7	6000	9415	57096.1
6000	8655	57227.6	6000	8910	56976.8	6000	9165	57006.0	6000	9420	57104.5
6000	8660	57230.4	6000	8915	56972.1	6000	9170	57010.6	6000	9425	57119.1
6000	8665	57241.2	6000	8920	56968.5	6000	9175	57016.5	6000	9430	57119.7
6000	8670	57244.9	6000	8925	56968.3	6000	9180	57034.6	6000	9435	57147.3
6000	8675	57228.9	6000	8930	56955.5	6000	9185	57056.9	6000	9440	57182.4
6000	8680	57213.6	6000	8935	56948.4	6000	9190	57071.3	6000	9445	57183.0
6000	8685	57190.6	6000	8940	56945.1	6000	9195	57075.7	6000	9450	57177.0
6000	8690	57168.6	6000	8945	56941.7	6000	9200	57068.2	6000	9455	57151.1
6000	8695	57138.4	6000	8950	56941.3	6000	9205	57049.4	6000	9460	57146.9
6000	8700	57107.2	6000	8955	56941.7	6000	9210	57018.0	6000	9465	57139.5
6000	8705	57066.9	6000	8960	56934.3	6000	9215	56999.4	6000	9470	57146.8
6000	8710	57029.2	6000	8965	56938.1	6000	9220	56961.0	6000	9475	57166.2
6000	8715	57005.0	6000	8970	56939.1	6000	9225	56938.9	6000	9480	57187.2
6000	8720	56983.6	6000	8975	56938.6	6000	9230	56948.4	6000	9485	57205.0
6000	8725	56963.1	6000	8980	56939.4	6000	9235	56967.3	6000	9490	57213.1
6000	8730	56960.0	6000	8985	56939.3	6000	9240	56985.0	6000	9495	57195.7
6000	8735	56958.0	6000	8990	56943.1	6000	9245	56992.8	6000	9500	57219.4
6000	8740	56953.0	6000	8995	56943.0	6000	9250	56998.1			
6000	8745	56956.1	6000	9000	56944.9	6000	9255	57002.0	<b>Line 6100 East</b>		
6000	8750	56966.6	6000	9005	56947.8	6000	9260	57002.3	6100	8500	56849.8
6000	8755	56983.1	6000	9010	56949.3	6000	9265	57005.9	6100	8505	56841.2
6000	8760	56997.7	6000	9015	56951.1	6000	9270	57006.0	6100	8510	56844.7
6000	8765	57009.7	6000	9020	56953.6	6000	9275	57007.8	6100	8515	56853.8
6000	8770	57012.0	6000	9025	56958.6	6000	9280	57006.1	6100	8520	56856.9
6000	8775	57015.7	6000	9030	56959.7	6000	9285	57005.9	6100	8525	56861.7
6000	8780	57019.4	6000	9035	56964.6	6000	9290	57008.5	6100	8530	56867.7
6000	8785	57019.7	6000	9040	56967.2	6000	9295	57011.7	6100	8535	56870.5
6000	8790	57017.1	6000	9045	56970.6	6000	9300	57013.7	6100	8540	56874.1
6000	8795	57020.4	6000	9050	56978.9	6000	9305	57013.9	6100	8545	56877.9
6000	8800	57021.3	6000	9055	56980.1	6000	9310	57012.9	6100	8550	56884.2
6000	8805	57020.0	6000	9060	56977.9	6000	9315	57012.8	6100	8555	56898.6
6000	8810	57020.3	6000	9065	56980.7	6000	9320	57012.3	6100	8560	56899.3
6000	8815	57021.1	6000	9070	56988.3	6000	9325	57014.5	6100	8565	56894.5
6000	8820	57023.6	6000	9075	56996.0	6000	9330	57014.0	6100	8570	56902.2
6000	8825	57030.6	6000	9080	56998.9	6000	9335	57016.4	6100	8575	56903.8
6000	8830	57025.1	6000	9085	56994.8	6000	9340	57016.5	6100	8580	56911.9
6000	8835	57023.4	6000	9090	56987.7	6000	9345	57020.5	6100	8585	56914.7
6000	8840	57019.0	6000	9095	56978.4	6000	9350	57023.6	6100	8590	56926.4
6000	8845	57023.9	6000	9100	56978.5	6000	9355	57030.3	6100	8595	56930.9
6000	8850	57013.8	6000	9105	56972.9	6000	9360	57036.4	6100	8600	56928.2

APPENDIX 5A:

CONTINUED

Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI
Easting	Easting		(nT)	Easting	Easting		(nT)	Easting	Easting		(nT)	Easting	Easting		(nT)
<b>Line 6100 East (cont.)</b>				<b>Line 6100 East (cont.)</b>				<b>Line 6100 East (cont.)</b>				<b>Line 6100 East (cont.)</b>			
6100	8605		56936.9	6100	8860		56967.8	6100	9115		56965.0	6100	9370		57137.0
6100	8610		56946.8	6100	8865		56964.4	6100	9120		56963.5	6100	9375		57072.4
6100	8615		56973.4	6100	8870		56961.2	6100	9125		56968.2	6100	9380		56932.6
6100	8620		56922.4	6100	8875		56957.4	6100	9130		56970.1	6100	9385		56960.1
6100	8625		56899.4	6100	8880		56955.3	6100	9135		56971.1	6100	9390		56979.8
6100	8630		56982.7	6100	8885		56954.2	6100	9140		56974.0	6100	9395		56983.7
6100	8635		56927.4	6100	8890		56950.0	6100	9145		56976.1	6100	9400		56997.1
6100	8640		56930.3	6100	8895		56955.8	6100	9150		56974.4	6100	9405		57009.5
6100	8645		56947.3	6100	8900		56945.5	6100	9155		56973.5	6100	9410		57014.0
6100	8650		56963.8	6100	8905		56946.4	6100	9160		56972.8	6100	9415		57015.6
6100	8655		56984.0	6100	8910		56942.8	6100	9165		56974.5	6100	9420		57018.8
6100	8660		56965.2	6100	8915		56936.2	6100	9170		56975.4	6100	9425		57019.0
6100	8665		56976.5	6100	8920		56931.9	6100	9175		56976.3	6100	9430		57024.0
6100	8670		56960.8	6100	8925		56919.5	6100	9180		56977.0	6100	9435		57025.1
6100	8675		56974.2	6100	8930		56912.4	6100	9185		56976.7	6100	9440		57025.7
6100	8680		56989.4	6100	8935		56923.3	6100	9190		56974.9	6100	9445		57025.5
6100	8685		57007.3	6100	8940		56925.9	6100	9195		56978.8	6100	9450		57028.5
6100	8690		57002.9	6100	8945		56921.2	6100	9200		56980.0	6100	9455		57028.3
6100	8695		57001.6	6100	8950		56922.3	6100	9205		56981.5	6100	9460		57028.8
6100	8700		56985.1	6100	8955		56926.6	6100	9210		56980.4				
6100	8705		56966.9	6100	8960		56930.9	6100	9215		56977.9	<b>Line 8500 North (Upper Baseline)</b>			
6100	8710		56978.1	6100	8965		56930.1	6100	9220		56977.8	5750	8500		57070.4
6100	8715		56988.2	6100	8970		56927.5	6100	9225		56980.1	5755	8500		57079.1
6100	8720		56992.5	6100	8975		56929.1	6100	9230		56983.0	5760	8500		57062.6
6100	8725		56983.9	6100	8980		56930.3	6100	9235		56983.0	5765	8500		57024.3
6100	8730		56977.9	6100	8985		56932.0	6100	9240		56987.5	5770	8500		57065.9
6100	8735		56973.0	6100	8990		56933.4	6100	9245		56995.3	5775	8500		57051.3
6100	8740		56990.3	6100	8995		56935.2	6100	9250		57000.2	5780	8500		57089.1
6100	8745		56984.3	6100	9000		56938.1	6100	9255		56999.8	5785	8500		57111.3
6100	8750		56977.0	6100	9005		56932.0	6100	9260		57005.1	5790	8500		57120.4
6100	8755		56976.4	6100	9010		56938.7	6100	9265		57023.2	5795	8500		57124.1
6100	8760		56975.2	6100	9015		56939.0	6100	9270		57023.1	5800	8500		57097.7
6100	8765		56978.3	6100	9020		56935.1	6100	9275		57032.4	5805	8500		57081.9
6100	8770		56976.1	6100	9025		56938.7	6100	9280		57055.8	5810	8500		57085.7
6100	8775		56978.8	6100	9030		56940.8	6100	9285		57087.8	5815	8500		57058.8
6100	8780		56978.8	6100	9035		56941.3	6100	9290		57137.9	5820	8500		57032.2
6100	8785		56984.1	6100	9040		56940.0	6100	9295		57205.8	5825	8500		56986.4
6100	8790		56984.0	6100	9045		56942.1	6100	9300		57296.3	5830	8500		56945.6
6100	8795		56985.6	6100	9050		56946.1	6100	9305		57465.8	5835	8500		56912.9
6100	8800		56984.6	6100	9055		56953.2	6100	9310		57499.3	5840	8500		56900.4
6100	8805		56987.3	6100	9060		56974.8	6100	9315		56993.8	5845	8500		56890.8
6100	8810		56986.4	6100	9065		56970.6	6100	9320		56641.0	5850	8500		56880.2
6100	8815		56982.6	6100	9070		56948.3	6100	9325		56598.7	5855	8500		56857.9
6100	8820		56986.8	6100	9075		56954.1	6100	9330		56639.6	5860	8500		56854.2
6100	8825		56980.4	6100	9080		56955.2	6100	9335		56749.3	5865	8500		56861.9
6100	8830		56975.8	6100	9085		56952.4	6100	9340		56847.1	5870	8500		56861.2
6100	8835		56978.1	6100	9090		56956.3	6100	9345		56881.5	5875	8500		56865.6
6100	8840		56977.3	6100	9095		56958.4	6100	9350		56729.1	5880	8500		56900.7
6100	8845		56981.9	6100	9100		56957.9	6100	9355		56579.2	5885	8500		56929.6
6100	8850		56973.4	6100	9105		56959.4	6100	9360		56760.2	5890	8500		56966.6
6100	8855		56971.8	6100	9110		56963.0	6100	9365		56878.7	5895	8500		57032.7

## APPENDIX 5A:

## CONTINUED

<u>Grid Co-ordinates</u>			<u>TMI</u>	<u>Grid Co-ordinates</u>			<u>TMI</u>	<u>Grid Co-ordinates</u>			<u>TMI</u>	<u>Grid Co-ordinates</u>			<u>TMI</u>
<u>Easting</u>	<u>Easting</u>		<u>(nT)</u>	<u>Easting</u>	<u>Easting</u>		<u>(nT)</u>	<u>Easting</u>	<u>Easting</u>		<u>(nT)</u>	<u>Easting</u>	<u>Easting</u>		<u>(nT)</u>
<u>Line 8500 North (Upper Baseline)</u>				<u>Line 8500 North (cont.)</u>				<u>Line 8500 North (cont.)</u>				<u>Line 8500 North (cont.)</u>			
5900	8500		57069.6	5955	8500		57259.6	6010	8500		56833.5	6065	8500		56831.2
5905	8500		57117.1	5960	8500		57125.9	6015	8500		56828.0	6070	8500		56823.1
5910	8500		57149.2	5965	8500		57017.6	6020	8500		56822.5	6075	8500		56839.0
5915	8500		57174.6	5970	8500		56946.0	6025	8500		56825.1	6080	8500		56839.2
5920	8500		57200.2	5975	8500		56907.0	6030	8500		56833.9	6085	8500		56834.8
5925	8500		57258.6	5980	8500		56889.7	6035	8500		56837.7	6090	8500		56834.5
5930	8500		57316.2	5985	8500		56876.3	6040	8500		56839.4	6095	8500		56834.9
5935	8500		57378.6	5990	8500		56860.0	6045	8500		56844.4	6100	8500		56844.2
5940	8500		57366.1	5995	8500		56875.2	6050	8500		56832.6				
5945	8500		57347.8	6000	8500		56873.1	6055	8500		56835.7				
5950	8500		57311.0	6005	8500		56844.0	6060	8500		56837.2				



## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI
Easting		Easting	(nT)	Easting		Easting	(nT)	Easting		Easting	(nT)	Easting		Easting	(nT)
<b>ROADSIDE CARBONATITE (VPCC)</b>															
<b>Line 5700 North</b>				<b>Line 5700 North (cont.)</b>				<b>Line 5700 North (cont.)</b>				<b>Line 5800 North (cont.)</b>			
6800	5700	56565.6		7050	5700	56546.3		7300	5700	56512.3		7035	5800	56489.7	
6805	5700	56593.3		7055	5700	56593.5						7040	5800	56499.9	
6810	5700	56543.8		7060	5700	56610.0		<b>Line 5800 North</b>			7045	5800	56492.4		
6815	5700	56554.9		7065	5700	56653.6		6800	5800	56537.2		7050	5800	56491.8	
6820	5700	56559.4		7070	5700	56644.0		6805	5800	56608.5		7055	5800	56425.5	
6825	5700	56570.4		7075	5700	56638.9		6810	5800	56591.5		7060	5800	56357.4	
6830	5700	56565.2		7080	5700	56615.3		6815	5800	56552.2		7065	5800	56241.6	
6835	5700	56563.0		7085	5700	56569.1		6820	5800	56522.1		7070	5800	56232.4	
6840	5700	56564.4		7090	5700	56525.8		6825	5800	56513.6		7075	5800	56063.3	
6845	5700	56573.1		7095	5700	56495.2		6830	5800	56533.7		7080	5800	55980.2	
6850	5700	56588.7		7100	5700	56501.4		6835	5800	56530.6		7085	5800	56337.5	
6855	5700	56600.7		7105	5700	56505.9		6840	5800	56505.6		7090	5800	56905.1	
6860	5700	56604.6		7110	5700	56496.7		6845	5800	56497.2		7095	5800	57116.9	
6865	5700	56619.5		7115	5700	56489.6		6850	5800	56496.6		7100	5800	57065.0	
6870	5700	56614.5		7120	5700	56511.0		6855	5800	56491.0		7105	5800	56906.6	
6875	5700	56629.9		7125	5700	56539.7		6860	5800	56506.5		7110	5800	56822.6	
6880	5700	56630.7		7130	5700	56554.0		6865	5800	56501.8		7115	5800	56760.0	
6885	5700	56587.7		7135	5700	56547.4		6870	5800	56492.1		7120	5800	56738.5	
6890	5700	56588.8		7140	5700	56543.9		6875	5800	56488.7		7125	5800	56721.5	
6895	5700	56668.8		7145	5700	56545.3		6880	5800	56471.9		7130	5800	56698.5	
6900	5700	56625.0		7150	5700	56562.5		6885	5800	56464.8		7135	5800	56666.8	
6905	5700	56623.7		7155	5700	56555.5		6890	5800	56455.2		7140	5800	56623.3	
6910	5700	56632.9		7160	5700	56539.8		6895	5800	56462.5		7145	5800	56658.2	
6915	5700	56635.5		7165	5700	56539.0		6900	5800	56482.8		7150	5800	56626.3	
6920	5700	56693.7		7170	5700	56524.3		6905	5800	56495.0		7155	5800	56614.0	
6925	5700	56716.9		7175	5700	56541.3		6910	5800	56519.5		7160	5800	56605.9	
6930	5700	56741.2		7180	5700	56559.9		6915	5800	56535.6		7165	5800	56578.0	
6935	5700	56753.7		7185	5700	56571.4		6920	5800	56531.4		7170	5800	56612.0	
6940	5700	56738.4		7190	5700	56576.2		6925	5800	56493.2		7175	5800	56777.3	
6945	5700	56678.6		7195	5700	56561.6		6930	5800	56529.8		7180	5800	56583.6	
6950	5700	56624.3		7200	5700	56518.7		6935	5800	56553.5		7185	5800	56602.7	
6955	5700	56616.7		7205	5700	56574.1		6940	5800	56549.1		7190	5800	56588.6	
6960	5700	56611.4		7210	5700	56564.3		6945	5800	56544.5		7195	5800	56575.5	
6965	5700	56610.4		7215	5700	56570.0		6950	5800	56515.0		7200	5800	56555.8	
6970	5700	56617.1		7220	5700	56556.3		6955	5800	56467.6		7205	5800	56558.6	
6975	5700	56611.8		7225	5700	56543.4		6960	5800	56563.6		7210	5800	56568.6	
6980	5700	56562.8		7230	5700	56523.9		6965	5800	56468.7		7215	5800	56565.9	
6985	5700	56571.7		7235	5700	56540.5		6970	5800	56171.6		7220	5800	56552.3	
6990	5700	56557.4		7240	5700	56543.0		6975	5800	56336.9		7225	5800	56538.0	
6995	5700	56526.0		7245	5700	56579.5		6980	5800	56407.3		7230	5800	56497.2	
7000	5700	56511.7		7250	5700	56574.9		6985	5800	56406.8		7235	5800	56477.9	
7005	5700	56511.2		7255	5700	56716.4		6990	5800	56402.9		7240	5800	56470.4	
7010	5700	56497.2		7260	5700	56813.8		6995	5800	56450.4		7245	5800	56489.3	
7015	5700	56482.6		7265	5700	56635.8		7000	5800	56475.0		7250	5800	56552.0	
7020	5700	56486.6		7270	5700	55379.0		7005	5800	56506.0		7255	5800	56606.3	
7025	5700	56498.5		7275	5700	56503.4		7010	5800	56531.1		7260	5800	56737.4	
7030	5700	56513.0		7280	5700	56474.1		7015	5800	56536.7		7265	5800	56830.6	
7035	5700	56508.3		7285	5700	56478.0		7020	5800	56513.1		7270	5800	56767.2	
7040	5700	56497.1		7290	5700	56480.2		7025	5800	56501.0		7275	5800	56681.4	
7045	5700	56508.1		7295	5700	56472.1		7030	5800	56493.2		7280	5800	56626.6	



## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI
Easting	Easting		(nT)	Easting	Easting		(nT)	Easting	Easting		(nT)	Easting	Easting		(nT)
<b>Line 6100 North (cont.)</b>				<b>Line 6100 North (cont.)</b>				<b>Line 6200 North (cont.)</b>				<b>Line 6200 North (cont.)</b>			
7100	6100		57003.7	7355	6100		56724.9	6995	6200		56785.7	7235	6200		57086.7
7105	6100		56858.8	7360	6100		56724.7	7000	6200		56867.5	7240	6200		56825.5
7110	6100		56777.6	7365	6100		56711.2	7005	6200		56771.4	7245	6200		56780.3
7115	6100		56801.8	7370	6100		56655.1	7010	6200		56677.5	7250	6200		56666.6
7120	6100		56746.7	7375	6100		56599.5	7015	6200		56666.2	7255	6200		56581.9
7125	6100		56782.6	7380	6100		56554.8	7020	6200		56757.4	7260	6200		56560.0
7130	6100		56828.2	7385	6100		56513.9	7025	6200		57122.1	7265	6200		56547.9
7135	6100		56708.8	7390	6100		56499.8	7030	6200		56942.5	7270	6200		56552.0
7140	6100		56621.6	7395	6100		56510.0	7035	6200		56716.1	7275	6200		56574.4
7145	6100		56667.1	7400	6100		56526.0	7040	6200		56634.7	7280	6200		56613.6
7150	6100		56696.3	7405	6100		56550.6	7045	6200		56682.4	7285	6200		56628.7
7155	6100		57047.2	7410	6100		56572.3	7050	6200		56819.9	7290	6200		56627.1
7160	6100		57247.4	7415	6100		56595.1	7055	6200		56561.8	7295	6200		56659.4
7165	6100		57090.9	7420	6100		56590.7	7060	6200		56501.4	7300	6200		56710.1
7170	6100		56818.9	7425	6100		56599.8	7065	6200		56517.6	7300	6200		56707.0
7175	6100		56821.4	7430	6100		56609.5	7070	6200		56485.0	7300	6200		56711.5
7180	6100		56671.3	7435	6100		56600.0	7075	6200		56441.2	7305	6200		56743.4
7185	6100		56642.3	7440	6100		56603.3	7080	6200		56381.9	7310	6200		56793.6
7190	6100		56655.2	7445	6100		56617.1	7085	6200		56363.8	7315	6200		56797.5
7195	6100		56664.2	7450	6100		56621.5	7090	6200		56490.2	7320	6200		56784.0
7200	6100		56694.3	7455	6100		56620.7	7095	6200		56666.9	7325	6200		56740.1
7205	6100		56718.9	7460	6100		56625.2	7100	6200		56464.2	7330	6200		56709.4
7210	6100		56701.2	7465	6100		56620.7	7105	6200		56653.4	7335	6200		56709.7
7215	6100		56625.4	7470	6100		56633.3	7110	6200		56585.2	7340	6200		56705.0
7220	6100		56519.4	7475	6100		56633.4	7115	6200		57688.9	7345	6200		56713.6
7225	6100		56530.7	7480	6100		56641.9	7120	6200		57418.4	7350	6200		56741.6
7230	6100		56541.2	7485	6100		56643.6	7125	6200		57196.3	7355	6200		56759.0
7235	6100		56542.6	7490	6100		56629.1	7125	6200		57186.8	7360	6200		56712.5
7240	6100		56551.6	7495	6100		56631.5	7130	6200		56623.1	7365	6200		56732.1
7245	6100		56549.2	7500	6100		56643.6	7130	6200		56665.2	7370	6200		56765.3
7250	6100		56558.7	7505	6100		56636.2	7135	6200		56442.5	7375	6200		56809.0
7255	6100		56572.1	7510	6100		56629.1	7135	6200		56419.7	7380	6200		56841.6
7260	6100		56571.5	7515	6100		56620.2	7140	6200		56561.9	7385	6200		56772.9
7265	6100		56556.9	7520	6100		56597.9	7145	6200		56796.1	7390	6200		56705.4
7270	6100		56551.4	7525	6100		56566.7	7150	6200		57234.4	7395	6200		56618.0
7275	6100		56553.8	7530	6100		56542.5	7155	6200		57291.4	7400	6200		56569.0
7280	6100		56554.1	7535	6100		56497.2	7160	6200		57695.8	7405	6200		56521.0
7285	6100		56531.5	7540	6100		56569.7	7165	6200		57918.1	7410	6200		56492.2
7290	6100		56548.2	7545	6100		56615.5	7170	6200		57421.1	7415	6200		56501.8
7295	6100		56535.3	7550	6100		56624.1	7175	6200		57524.3	7420	6200		56547.8
7300	6100		56563.8					7180	6200		56975.2	7425	6200		56575.1
7305	6100		56573.8	<b>Line 6200 North</b>				7185	6200		57111.7	7430	6200		56582.8
7310	6100		56575.2	6950	6200		56703.2	7190	6200		56827.1	7435	6200		56595.9
7315	6100		56611.6	6955	6200		56644.9	7195	6200		56817.7	7440	6200		56587.2
7320	6100		56724.4	6960	6200		56774.0	7200	6200		56775.2	7445	6200		56574.6
7325	6100		56801.4	6965	6200		56736.0	7205	6200		56687.0	7450	6200		56581.0
7330	6100		56777.1	6970	6200		56814.8	7210	6200		57263.8	7455	6200		56590.0
7335	6100		56713.8	6975	6200		56789.8	7215	6200		57431.1	7460	6200		56607.9
7340	6100		56704.8	6980	6200		56771.3	7220	6200		57565.4	7465	6200		56605.8
7345	6100		56742.2	6985	6200		56749.7	7225	6200		57628.3	7470	6200		56637.2
7350	6100		56721.3	6990	6200		56743.5	7230	6200		57155.8	7475	6200		56624.7

## APPENDIX 5A:

## CONTINUED

<u>Grid Co-ordinates</u>			<u>TMI</u>	<u>Grid Co-ordinates</u>			<u>TMI</u>	<u>Grid Co-ordinates</u>			<u>TMI</u>	<u>Grid Co-ordinates</u>			<u>TMI</u>
<u>Easting</u>	<u>Easting</u>		<u>(nT)</u>	<u>Easting</u>	<u>Easting</u>		<u>(nT)</u>	<u>Easting</u>	<u>Easting</u>		<u>(nT)</u>	<u>Easting</u>	<u>Easting</u>		<u>(nT)</u>
<u>Line 6200 North (cont.)</u>				<u>Line 6300 North (cont.)</u>				<u>Line 6300 North (cont.)</u>				<u>Line 6400 North (cont.)</u>			
7480	6200		56615.6	7100	6300		56559.3	7345	6300		56582.7	7135	6400		56708.1
7485	6200		56628.5	7100	6300		56565.2	7350	6300		56588.6	7140	6400		56699.8
7490	6200		56634.4	7105	6300		56721.5	7355	6300		56585.6	7145	6400		56685.4
7495	6200		56633.3	7110	6300		56874.3	7360	6300		56596.5	7150	6400		56728.7
7500	6200		56626.5	7115	6300		56763.5	7365	6300		56580.7	7155	6400		56730.2
7505	6200		56629.0	7120	6300		56844.4	7370	6300		56586.5	7160	6400		56654.8
7510	6200		56625.6	7125	6300		56945.0	7375	6300		56568.0	7165	6400		56595.4
7515	6200		56622.1	7130	6300		57102.2	7380	6300		56584.7	7170	6400		56523.6
7520	6200		56630.7	7135	6300		57140.9	7385	6300		56574.9	7175	6400		56528.4
7525	6200		56629.7	7140	6300		57011.8	7390	6300		56585.6	7180	6400		56536.1
7530	6200		56630.9	7145	6300		57258.5	7395	6300		56582.8	7185	6400		56398.4
7535	6200		56632.0	7150	6300		56853.8	7400	6300		56565.7	7190	6400		56853.7
7540	6200		56630.8	7155	6300		56894.2	7405	6300		56554.2	7195	6400		56521.5
7545	6200		56638.0	7160	6300		56824.6	7410	6300		56552.5	7200	6400		56309.7
7550	6200		56641.4	7165	6300		56564.2	7415	6300		56548.1	7205	6400		55869.8
				7170	6300		56531.3	7420	6300		56571.2	7210	6400		56400.0
				7175	6300		56537.1	7425	6300		56570.8	7215	6400		56716.5
<u>Line 6300 North</u>				7180	6300		56497.2	7430	6300		56587.7	7220	6400		56940.3
7000	6300		56878.5	7185	6300		56485.6	7435	6300		56604.5	7225	6400		56899.2
7005	6300		56701.7	7190	6300		56519.3	7440	6300		56595.4	7230	6400		56809.9
7010	6300		56693.2	7195	6300		56631.7	7445	6300		56584.3	7235	6400		56722.3
7015	6300		56829.5	7200	6300		56764.3	7450	6300		56555.0	7240	6400		56756.9
7020	6300		56882.7	7205	6300		56901.9	7455	6300		56582.6	7245	6400		56664.6
7025	6300		56596.4	7210	6300		57073.0	7460	6300		56601.4	7250	6400		56674.0
7030	6300		56523.4	7215	6300		57108.2	7465	6300		56605.9	7255	6400		56712.9
7030	6300		56528.7	7220	6300		57054.5	7470	6300		56602.9	7260	6400		56644.9
7035	6300		56564.8	7225	6300		57300.4	7475	6300		56599.9	7265	6400		56648.2
7035	6300		56566.3	7230	6300		57270.3	7480	6300		56600.1	7270	6400		56618.1
7040	6300		56431.7	7235	6300		56929.0	7485	6300		56597.6	7275	6400		56595.8
7040	6300		56471.4	7240	6300		56933.4	7490	6300		56608.2	7280	6400		56563.7
7045	6300		56391.2	7245	6300		56955.0	7495	6300		56601.6	7285	6400		56528.6
7045	6300		56395.5	7250	6300		56920.8	7500	6300		56607.3	7290	6400		56518.3
7050	6300		56383.5	7255	6300		56846.5	7505	6300		56604.4	7295	6400		56492.8
7050	6300		56380.5	7260	6300		56735.4	7510	6300		56608.8	7300	6400		56463.2
7055	6300		56379.1	7265	6300		56699.6	7515	6300		56618.1	7300	6400		56462.2
7055	6300		56380.4	7270	6300		56713.3	7520	6300		56618.4	7305	6400		56465.6
7060	6300		56441.5	7275	6300		56618.1	7525	6300		56607.5	7310	6400		56506.1
7060	6300		56441.4	7280	6300		56573.9	7530	6300		56603.7	7315	6400		56552.2
7065	6300		56562.6	7285	6300		56544.4	7535	6300		56602.7	7320	6400		56601.1
7065	6300		56566.5	7290	6300		56518.0	7540	6300		56604.8	7325	6400		56684.6
7070	6300		56691.7	7295	6300		56514.9	7545	6300		56605.2	7330	6400		56691.0
7070	6300		56693.4	7300	6300		56513.0	7550	6300		56606.5	7335	6400		56728.1
7075	6300		56739.1	7300	6300		56513.5					7340	6400		56771.7
7075	6300		56753.2	7305	6300		56507.8	<u>Line 6400 North</u>							
7080	6300		56759.5	7310	6300		56526.2	7100	6400		56550.8	7345	6400		56774.3
7080	6300		56771.5	7315	6300		56531.3	7105	6400		56569.6	7350	6400		56777.6
7085	6300		56839.2	7320	6300		56561.4	7110	6400		56594.3	7355	6400		56809.6
7085	6300		56846.8	7325	6300		56572.8	7115	6400		56620.0	7360	6400		56834.5
7090	6300		56752.5	7330	6300		56558.9	7120	6400		56651.7	7365	6400		56853.8
7090	6300		56748.3	7335	6300		56575.4	7125	6400		56678.6	7370	6400		56862.7
7095	6300		56632.7	7340	6300		56573.9	7130	6400		56706.0	7375	6400		56847.0
7095	6300		56634.6									7380	6400		56759.6

## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI
Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)
<u>Line 6400 North (cont.)</u>			<u>Line 6500 North (cont.)</u>			<u>Line 6500 North (cont.)</u>			<u>Line 6600 North (cont.)</u>		
7385	6400	56675.8	7175	6500	56511.7	7425	6500	57059.3	7215	6600	56585.6
7390	6400	56616.9	7180	6500	56527.3	7430	6500	56908.4	7220	6600	56646.6
7395	6400	56599.0	7185	6500	56558.6	7435	6500	56804.8	7225	6600	56828.0
7400	6400	56574.7	7190	6500	56589.6	7440	6500	56849.4	7230	6600	56931.5
7405	6400	56513.5	7195	6500	56626.4	7445	6500	56846.9	7235	6600	56760.7
7410	6400	56504.8	7200	6500	56609.2	7450	6500	56737.7	7240	6600	57505.6
7415	6400	56562.0	7205	6500	56610.2	7455	6500	56758.6	7245	6600	57252.5
7420	6400	56854.9	7210	6500	56645.5	7460	6500	56835.5	7250	6600	57399.2
7425	6400	56953.9	7215	6500	56708.8	7465	6500	56600.1	7255	6600	57120.1
7430	6400	56392.9	7220	6500	56701.9	7470	6500	56460.5	7260	6600	56881.4
7435	6400	56420.7	7225	6500	56680.6	7475	6500	56438.4	7265	6600	56737.0
7440	6400	56499.0	7230	6500	56710.9	7480	6500	56433.1	7270	6600	56606.8
7445	6400	56538.0	7235	6500	56644.1	7485	6500	56487.3	7275	6600	56522.5
7450	6400	56534.5	7240	6500	56635.4	7490	6500	56549.1	7280	6600	56638.2
7455	6400	56568.9	7245	6500	56666.9	7495	6500	56524.4	7285	6600	56778.5
7460	6400	56561.5	7250	6500	56724.3	7500	6500	56528.1	7290	6600	56696.9
7465	6400	56558.5	7255	6500	56720.8	7505	6500	56562.1	7295	6600	56714.2
7470	6400	56579.4	7260	6500	56679.3	7510	6500	56655.5	7300	6600	56768.6
7475	6400	56563.0	7265	6500	56652.1	7515	6500	56673.4	7305	6600	56822.7
7480	6400	56584.6	7270	6500	56672.6	7520	6500	56624.1	7310	6600	56880.9
7485	6400	56588.7	7275	6500	56601.9	7525	6500	56597.7	7315	6600	56923.8
7490	6400	56590.9	7280	6500	56510.7	7530	6500	56586.0	7320	6600	56943.0
7495	6400	56609.5	7285	6500	56521.0	7535	6500	56599.7	7325	6600	57036.1
7500	6400	56620.6	7290	6500	56584.1	7540	6500	56637.6	7330	6600	57261.6
7505	6400	56624.8	7295	6500	56528.7	7545	6500	56635.6	7335	6600	57117.3
7510	6400	56619.3	7300	6500	56477.5	7550	6500	56597.5	7340	6600	56900.7
7515	6400	56610.9	7300	6500	56478.6				7345	6600	56628.9
7520	6400	56598.5	7305	6500	56421.8	<u>Line 6600 North</u>			7350	6600	56531.8
7525	6400	56599.2	7310	6500	56482.5	7100	6600	56450.1	7355	6600	56495.7
7530	6400	56601.2	7315	6500	56692.4	7105	6600	56415.1	7360	6600	56493.7
7535	6400	56604.2	7320	6500	56660.3	7110	6600	56394.7	7365	6600	56484.2
7540	6400	56606.6	7325	6500	56802.3	7115	6600	56390.5	7370	6600	56491.5
7545	6400	56612.5	7330	6500	56956.1	7120	6600	56411.6	7375	6600	56494.0
7550	6400	56617.7	7335	6500	56937.0	7125	6600	56401.1	7380	6600	56494.3
			7340	6500	56963.5	7130	6600	56395.1	7385	6600	56509.8
			7345	6500	56917.0	7135	6600	56379.9	7390	6600	56498.4
			7350	6500	56841.6	7140	6600	56378.9	7395	6600	56499.1
			7355	6500	56615.4	7145	6600	56339.0	7400	6600	56514.9
			7360	6500	56560.6	7150	6600	56316.5	7405	6600	56498.9
			7365	6500	56708.1	7155	6600	56310.0	7410	6600	56547.5
			7370	6500	56703.9	7160	6600	56343.2	7415	6600	56434.6
			7375	6500	56790.6	7165	6600	56369.6	7420	6600	56503.8
			7380	6500	56758.6	7170	6600	56359.9	7425	6600	56462.0
			7385	6500	56714.7	7175	6600	56195.1	7430	6600	56486.1
			7390	6500	56688.5	7180	6600	56322.7	7435	6600	56417.1
			7395	6500	56680.0	7185	6600	56240.0	7440	6600	56790.4
			7400	6500	56691.2	7190	6600	56052.5	7445	6600	56949.1
			7405	6500	56724.6	7195	6600	56203.3	7450	6600	56889.5
			7410	6500	56769.6	7200	6600	56389.7	7455	6600	56916.6
			7415	6500	56811.9	7205	6600	56433.6	7460	6600	56726.2
			7420	6500	56905.2	7210	6600	56567.2	7465	6600	56729.7
<u>Line 6500 North</u>											
7100	6500	56393.6									
7105	6500	56385.4									
7110	6500	56392.5									
7115	6500	56405.4									
7120	6500	56401.0									
7125	6500	56404.3									
7130	6500	56408.0									
7135	6500	56411.4									
7140	6500	56429.8									
7145	6500	56424.1									
7150	6500	56456.6									
7155	6500	56440.8									
7160	6500	56482.6									
7165	6500	56487.8									
7170	6500	56504.9									

## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI
Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)
<b>Line 6600 North (cont.)</b>			<b>Line 6700 North (cont.)</b>			<b>Line 6700 North (cont.)</b>			<b>Line 6800 North (cont.)</b>		
7470	6600	56721.8	7260	6700	56440.6	7510	6700	56688.6	7300	6800	56637.8
7475	6600	56750.4	7265	6700	56438.4	7515	6700	56652.4	7305	6800	56690.2
7480	6600	56797.5	7270	6700	56428.3	7520	6700	56636.4	7310	6800	56820.7
7485	6600	56763.7	7275	6700	56412.5	7525	6700	56686.2	7315	6800	57128.1
7490	6600	56641.5	7280	6700	56409.6	7530	6700	56670.4	7320	6800	56764.0
7495	6600	57517.4	7285	6700	56415.2	7535	6700	56639.2	7325	6800	56437.8
7500	6600	56390.0	7290	6700	56391.5	7540	6700	56636.0	7330	6800	56415.2
7505	6600	56695.4	7295	6700	56408.1	7545	6700	56662.5	7335	6800	56401.4
7510	6600	56821.2	7300	6700	56407.9	7550	6700	56648.6	7340	6800	56389.0
7515	6600	56728.0	7300	6700	56416.0				7345	6800	56375.0
7520	6600	56611.0	7305	6700	56428.9	<b>Line 6800 North</b>			7350	6800	56397.6
7525	6600	56597.0	7310	6700	56438.6	7100	6800	56897.2	7355	6800	56409.6
7530	6600	56658.6	7315	6700	56441.4	7105	6800	56880.5	7360	6800	56424.7
7535	6600	56717.6	7320	6700	56453.7	7110	6800	56846.8	7365	6800	56433.6
7540	6600	56701.2	7325	6700	56467.0	7115	6800	56718.1	7370	6800	56447.3
7545	6600	56621.9	7330	6700	56468.1	7120	6800	56636.9	7375	6800	56463.5
7550	6600	56586.7	7335	6700	56470.0	7125	6800	56572.6	7380	6800	56478.2
			7340	6700	56487.0	7130	6800	56588.6	7385	6800	56494.5
			7345	6700	56507.8	7135	6800	56553.8	7390	6800	56504.5
<b>Line 6700 North</b>			7350	6700	56524.0	7140	6800	56655.1	7395	6800	56498.7
7100	6700	56446.8	7355	6700	56581.8	7145	6800	56728.4	7400	6800	56503.1
7105	6700	56414.2	7360	6700	56598.3	7150	6800	56870.3	7405	6800	56500.8
7110	6700	56389.7	7365	6700	56681.6	7155	6800	56942.2	7410	6800	56508.4
7115	6700	56384.4	7370	6700	56696.8	7160	6800	57066.1	7415	6800	56520.6
7120	6700	56369.1	7375	6700	56643.1	7165	6800	57283.9	7420	6800	56525.5
7125	6700	56302.2	7380	6700	56540.0	7170	6800	57019.4	7425	6800	56529.8
7130	6700	56282.0	7385	6700	56523.6	7175	6800	56518.8	7430	6800	56534.0
7135	6700	56278.9	7390	6700	56555.0	7180	6800	56476.3	7435	6800	56542.9
7140	6700	56299.0	7395	6700	56529.5	7185	6800	56651.6	7440	6800	56524.2
7145	6700	56319.2	7400	6700	56536.1	7190	6800	56766.7	7445	6800	56532.3
7150	6700	56317.2	7405	6700	56507.4	7195	6800	56870.2	7450	6800	56529.1
7155	6700	56256.2	7410	6700	56489.5	7200	6800	56896.7	7455	6800	56532.8
7160	6700	56254.5	7415	6700	56461.3	7205	6800	56892.9	7460	6800	56529.6
7165	6700	56286.3	7420	6700	56453.8	7210	6800	56809.2	7465	6800	56540.8
7170	6700	56303.4	7425	6700	56521.1	7215	6800	56694.9	7470	6800	56534.3
7175	6700	56293.5	7430	6700	56539.4	7220	6800	56615.8	7475	6800	56538.0
7180	6700	56289.5	7435	6700	56528.6	7225	6800	56534.2	7480	6800	56542.4
7185	6700	56290.5	7440	6700	56483.6	7230	6800	56434.8	7485	6800	56550.9
7190	6700	56503.2	7445	6700	56378.2	7235	6800	56433.7	7490	6800	56545.5
7195	6700	56514.8	7450	6700	56285.2	7240	6800	56603.4	7495	6800	56550.7
7200	6700	56509.3	7455	6700	56216.5	7245	6800	56515.5	7500	6800	56562.4
7205	6700	56781.1	7460	6700	56515.9	7250	6800	56525.5	7505	6800	56576.4
7210	6700	56621.8	7465	6700	56992.5	7255	6800	56649.6	7510	6800	56581.6
7215	6700	56308.6	7470	6700	56898.3	7260	6800	56607.6	7515	6800	56592.1
7220	6700	56443.3	7475	6700	56759.3	7265	6800	56439.9	7520	6800	56605.9
7225	6700	56497.7	7480	6700	56746.0	7270	6800	56426.6	7525	6800	56616.4
7230	6700	56692.9	7485	6700	56671.7	7275	6800	56591.0	7530	6800	56668.3
7235	6700	57042.8	7490	6700	56673.3	7280	6800	56558.8	7535	6800	56706.7
7240	6700	56968.8	7495	6700	56675.4	7285	6800	56491.8	7540	6800	56733.6
7245	6700	56688.7	7500	6700	56718.9	7290	6800	56521.0	7545	6800	56714.1
7250	6700	56284.0	7505	6700	56715.5	7295	6800	56581.5	7550	6800	56713.1
7255	6700	56387.8									

## APPENDIX 5A:

## CONTINUED

Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI
Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)	Easting	Easting	(nT)
<b>Line 6900 North</b>			<b>Line 7300 East (Baseline)</b>			<b>Line 7300 East (cont.)</b>			<b>Line 7300 East (cont.)</b>		
7300	6900	56602.0	7300	5700	56519.1	7300	5955	56508.4	7300	6200	56708.8
7305	6900	56583.2	7300	5705	56522.6	7300	5960	56541.5	7300	6200	56708.7
7310	6900	56572.3	7300	5710	56676.3	7300	5965	56583.7	7300	6200	56709.1
7315	6900	56570.0	7300	5715	56584.3	7300	5970	56617.9	7300	6205	56715.6
7320	6900	56569.5	7300	5720	56168.8	7300	5975	56625.4	7300	6210	56688.8
7325	6900	56563.8	7300	5725	56449.4	7300	5980	56627.1	7300	6215	56663.9
7330	6900	56556.7	7300	5730	56494.8	7300	5985	56559.8	7300	6220	56631.1
7335	6900	56551.7	7300	5735	56507.7	7300	5990	56701.1	7300	6225	56634.1
7340	6900	56539.3	7300	5740	56511.3	7300	5995	56763.3	7300	6230	56628.9
7345	6900	56523.9	7300	5745	56519.8	7300	6000	56780.2	7300	6235	56670.9
7350	6900	56498.2	7300	5750	56522.0	7300	6005	56758.9	7300	6240	56698.7
7355	6900	56482.1	7300	5755	56528.8	7300	6010	56713.9	7300	6245	56644.0
7360	6900	56481.7	7300	5760	56540.1	7300	6015	56722.8	7300	6250	56617.3
7365	6900	56498.7	7300	5765	56541.9	7300	6020	56704.2	7300	6255	56622.9
7370	6900	56506.7	7300	5770	56540.8	7300	6025	56676.1	7300	6260	56460.2
7375	6900	56538.1	7300	5775	56536.4	7300	6030	56631.6	7300	6265	56494.2
7380	6900	56522.6	7300	5780	56533.6	7300	6035	56633.3	7300	6270	56520.2
7385	6900	56381.0	7300	5785	56508.6	7300	6040	57015.6	7300	6275	56551.6
7390	6900	56384.9	7300	5790	56495.9	7300	6045	56864.5	7300	6280	56562.1
7395	6900	56391.8	7300	5795	56499.8	7300	6050	56713.7	7300	6285	56558.8
7400	6900	56403.9	7300	5800	56499.6	7300	6055	56631.5	7300	6290	56564.2
7405	6900	56407.2	7300	5805	56488.1	7300	6060	56581.5	7300	6295	56526.5
7410	6900	56411.6	7300	5810	56489.6	7300	6065	56530.2	7300	6300	56514.0
7415	6900	56421.1	7300	5815	56493.5	7300	6070	56486.6	7300	6305	56559.4
7420	6900	56439.4	7300	5820	56476.9	7300	6075	56457.7	7300	6310	56531.5
7425	6900	56445.4	7300	5825	56463.7	7300	6080	56437.4	7300	6315	56535.0
7430	6900	56446.1	7300	5830	56469.9	7300	6085	56427.1	7300	6320	56498.6
7435	6900	56466.1	7300	5835	56481.0	7300	6090	56430.6	7300	6325	56488.1
7440	6900	56465.4	7300	5840	56476.7	7300	6095	56437.6	7300	6330	56528.3
7445	6900	56474.5	7300	5845	56483.2	7300	6100	56478.1	7300	6335	56545.2
7450	6900	56481.0	7300	5850	56484.7	7300	6100	56558.3	7300	6340	56546.6
7455	6900	56495.4	7300	5855	56490.0	7300	6100	56562.9	7300	6345	56531.4
7460	6900	56494.2	7300	5860	56513.3	7300	6105	56571.7	7300	6350	56521.5
7465	6900	56500.1	7300	5865	56519.7	7300	6110	56583.5	7300	6355	56520.3
7470	6900	56505.0	7300	5870	56549.5	7300	6115	56601.2	7300	6360	56528.8
7475	6900	56508.2	7300	5875	56566.2	7300	6120	56612.9	7300	6365	56523.1
7480	6900	56512.8	7300	5880	56583.4	7300	6125	56620.4	7300	6370	56518.0
7485	6900	56520.8	7300	5885	56584.2	7300	6130	56629.5	7300	6375	56515.2
7490	6900	56529.4	7300	5890	56586.4	7300	6135	56643.1	7300	6380	56524.3
7495	6900	56532.7	7300	5895	56592.2	7300	6140	56633.8	7300	6385	56483.9
7500	6900	56538.3	7300	5900	56595.9	7300	6145	56632.7	7300	6390	56446.6
7505	6900	56536.9	7300	5905	56601.7	7300	6150	56651.8	7300	6395	56435.2
7510	6900	56537.1	7300	5910	56627.4	7300	6155	56628.1	7300	6400	56436.1
7515	6900	56538.7	7300	5915	56621.2	7300	6160	56622.1	7300	6400	56473.0
7520	6900	56541.0	7300	5920	56607.6	7300	6165	56620.7	7300	6400	56462.0
7525	6900	56545.6	7300	5925	56578.3	7300	6170	56632.9	7300	6405	56469.0
7530	6900	56547.9	7300	5930	56558.9	7300	6175	56663.5	7300	6410	56500.5
7535	6900	56550.2	7300	5935	56545.0	7300	6180	56689.4	7300	6415	56510.3
7540	6900	56549.4	7300	5940	56542.6	7300	6185	56700.1	7300	6420	56513.4
7545	6900	56551.7	7300	5945	56507.4	7300	6190	56706.4	7300	6425	56495.9
7550	6900	56557.5	7300	5950	56503.1	7300	6195	56707.8	7300	6430	56501.3

APPENDIX 5A:

CONTINUED

Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI
Easting		Easting	(nT)	Easting		Easting	(nT)	Easting		Easting	(nT)	Easting		Easting	(nT)
<b>Line 7300 East (cont.)</b>				<b>Line 7300 East (cont.)</b>				<b>Line 7300 East (cont.)</b>				<b>Line 7300 East (cont.)</b>			
7300	6435		56494.9	7300	6560		56941.9	7300	6685		56410.5	7300	6815		56559.6
7300	6440		56504.2	7300	6565		57010.3	7300	6690		56407.3	7300	6820		56668.0
7300	6445		56578.9	7300	6570		57061.0	7300	6695		56421.9	7300	6825		56647.1
7300	6450		56673.3	7300	6575		57023.6	7300	6700		56411.8	7300	6830		56636.9
7300	6455		56676.2	7300	6580		56997.1	7300	6705		56416.5	7300	6835		56620.6
7300	6460		56632.9	7300	6585		56989.2	7300	6710		56421.2	7300	6840		56582.7
7300	6465		56579.9	7300	6590		56930.9	7300	6715		56423.0	7300	6845		56548.6
7300	6470		56557.0	7300	6595		56827.8	7300	6720		56421.5	7300	6850		56534.8
7300	6475		56496.9	7300	6600		56772.2	7300	6725		56427.1	7300	6855		56524.5
7300	6480		56445.6	7300	6600		56748.0	7300	6730		56385.9	7300	6860		56543.7
7300	6485		56458.4	7300	6605		56756.5	7300	6735		56277.8	7300	6865		56551.3
7300	6490		56447.6	7300	6610		56771.4	7300	6740		56514.8	7300	6870		56555.5
7300	6495		56435.8	7300	6615		56784.1	7300	6745		56652.6	7300	6875		56563.6
7300	6500		56472.2	7300	6620		56799.4	7300	6750		56641.4	7300	6880		56571.8
7300	6500		56481.5	7300	6625		56760.7	7300	6755		56652.6	7300	6885		56588.2
7300	6505		56536.5	7300	6630		56768.6	7300	6760		56721.6	7300	6890		56589.9
7300	6510		56558.2	7300	6635		56744.9	7300	6765		56817.7	7300	6895		56595.5
7300	6515		56591.3	7300	6640		56703.8	7300	6770		57171.8	7300	6900		56601.9
7300	6520		56655.1	7300	6645		56655.7	7300	6775		57489.8				
7300	6525		56949.8	7300	6650		56624.8	7300	6780		56951.3				
7300	6530		57173.6	7300	6655		56535.0	7300	6785		56538.4				
7300	6535		56748.1	7300	6660		56496.8	7300	6790		56619.0				
7300	6540		56698.0	7300	6665		56478.3	7300	6795		56663.0				
7300	6545		56864.6	7300	6670		56461.4	7300	6800		56639.7				
7300	6550		56952.4	7300	6675		56460.2	7300	6805		56583.9				
7300	6555		56947.9	7300	6680		56429.7	7300	6810		56549.4				



## APPENDIX 5B: SCINTILLOMETER READINGS FROM THE MARA CLAIMS

Notes: The local grid is based on UTM Grid NAD 83. A Grid Easting/Northing of 3200, 7500 corresponds to UTM 353200, 5807500.

Grid Co-ordinates		UTM Co-ordinates		Counts	Grid Co-ordinates		UTM Co-ordinates		Counts
Easting	Northing	Easting	Northing	Per Second (300 cps)	Easting	Northing	Easting	Northing	Per Second (300 cps)
<b>Line 4400 East</b>					<b>Line 4400 East (cont.)</b>				
4400	7500	354,400	5,807,500	75	4400	7740	354,400	5,807,740	177
4400	7505	354,400	5,807,505	93	4400	7745	354,400	5,807,745	117
4400	7510	354,400	5,807,510	87	4400	7750	354,400	5,807,750	108
4400	7515	354,400	5,807,515	87	4400	7755	354,400	5,807,755	96
4400	7520	354,400	5,807,520	66	4400	7760	354,400	5,807,760	93
4400	7525	354,400	5,807,525	72	4400	7765	354,400	5,807,765	93
4400	7530	354,400	5,807,530	81	4400	7770	354,400	5,807,770	81
4400	7535	354,400	5,807,535	99	4400	7775	354,400	5,807,775	66
4400	7540	354,400	5,807,540	117	4400	7780	354,400	5,807,780	126
4400	7545	354,400	5,807,545	108	4400	7785	354,400	5,807,785	129
4400	7550	354,400	5,807,550	129	4400	7790	354,400	5,807,790	114
4400	7555	354,400	5,807,555	117	4400	7795	354,400	5,807,795	120
4400	7560	354,400	5,807,560	151	4400	7800	354,400	5,807,800	114
4400	7565	354,400	5,807,565	141	4400	7805	354,400	5,807,805	120
4400	7570	354,400	5,807,570	108	4400	7810	354,400	5,807,810	102
4400	7575	354,400	5,807,575	129	4400	7815	354,400	5,807,815	88
4400	7580	354,400	5,807,580	135	4400	7820	354,400	5,807,820	102
4400	7585	354,400	5,807,585	141	4400	7825	354,400	5,807,825	123
4400	7590	354,400	5,807,590	138	4400	7830	354,400	5,807,830	88
4400	7595	354,400	5,807,595	192	4400	7835	354,400	5,807,835	75
4400	7600	354,400	5,807,600	258	4400	7840	354,400	5,807,840	66
4400	7605	354,400	5,807,605	177	4400	7845	354,400	5,807,845	69
4400	7610	354,400	5,807,610	114	4400	7850	354,400	5,807,850	63
4400	7615	354,400	5,807,615	105	4400	7855	354,400	5,807,855	61
4400	7620	354,400	5,807,620	72	4400	7860	354,400	5,807,860	84
4400	7625	354,400	5,807,625	78	4400	7865	354,400	5,807,865	68
4400	7630	354,400	5,807,630	81	4400	7870	354,400	5,807,870	78
4400	7635	354,400	5,807,635	68	4400	7875	354,400	5,807,875	84
4400	7640	354,400	5,807,640	78	4400	7880	354,400	5,807,880	61
4400	7645	354,400	5,807,645	87	4400	7885	354,400	5,807,885	108
4400	7650	354,400	5,807,650	93	4400	7890	354,400	5,807,890	114
4400	7655	354,400	5,807,655	87	4400	7895	354,400	5,807,895	102
4400	7660	354,400	5,807,660	99	4400	7900	354,400	5,807,900	99
4400	7665	354,400	5,807,665	93	4400	7905	354,400	5,807,905	111
4400	7670	354,400	5,807,670	114	4400	7910	354,400	5,807,910	126
4400	7675	354,400	5,807,675	96	4400	7915	354,400	5,807,915	99
4400	7680	354,400	5,807,680	99	4400	7920	354,400	5,807,920	96
4400	7685	354,400	5,807,685	72	4400	7925	354,400	5,807,925	72
4400	7690	354,400	5,807,690	87	4400	7930	354,400	5,807,930	87
4400	7695	354,400	5,807,695	78	4400	7935	354,400	5,807,935	93
4400	7700	354,400	5,807,700	72	4400	7940	354,400	5,807,940	88
4400	7705	354,400	5,807,705	68	4400	7945	354,400	5,807,945	114
4400	7710	354,400	5,807,710	114	4400	7950	354,400	5,807,950	117
4400	7715	354,400	5,807,715	93	4400	7955	354,400	5,807,955	114
4400	7720	354,400	5,807,720	117	4400	7960	354,400	5,807,960	102
4400	7725	354,400	5,807,725	111	4400	7965	354,400	5,807,965	96
4400	7730	354,400	5,807,730	117	4400	7970	354,400	5,807,970	93
4400	7735	354,400	5,807,735	123	4400	7975	354,400	5,807,975	96
					4400	7980	354,400	5,807,980	123

## APPENDIX 5B:

## CONTINUED

Grid Co-ordinates		UTM Co-ordinates		Counts	Grid Co-ordinates		UTM Co-ordinates		Counts
Easting	Northing	Easting	Northing	Per Second (300 cps)	Easting	Northing	Easting	Northing	Per Second (300 cps)
<b>Line 4400 East (cont.)</b>					<b>Line 4500 East (cont.)</b>				
4400	7985	354,400	5,807,985	111	4500	7725	354,500	5,807,725	88
4400	7990	354,400	5,807,990	123	4500	7730	354,500	5,807,730	88
4400	7995	354,400	5,807,995	96	4500	7735	354,500	5,807,735	88
4400	8000	354,400	5,808,000	88	4500	7740	354,500	5,807,740	72
					4500	7745	354,500	5,807,745	78
					4500	7750	354,500	5,807,750	96
<b>Line 4500 East</b>					4500	7755	354,500	5,807,755	123
4500	7500	354,500	5,807,500	66	4500	7760	354,500	5,807,760	105
4500	7505	354,500	5,807,505	72	4500	7765	354,500	5,807,765	123
4500	7510	354,500	5,807,510	93	4500	7770	354,500	5,807,770	96
4500	7515	354,500	5,807,515	88	4500	7775	354,500	5,807,775	66
4500	7520	354,500	5,807,520	87	4500	7780	354,500	5,807,780	93
4500	7525	354,500	5,807,525	93	4500	7785	354,500	5,807,785	114
4500	7530	354,500	5,807,530	88	4500	7790	354,500	5,807,790	111
4500	7535	354,500	5,807,535	72	4500	7795	354,500	5,807,795	102
4500	7540	354,500	5,807,540	68	4500	7800	354,500	5,807,800	93
4500	7545	354,500	5,807,545	78	4500	7805	354,500	5,807,805	111
4500	7550	354,500	5,807,550	72	4500	7810	354,500	5,807,810	105
4500	7555	354,500	5,807,555	87	4500	7815	354,500	5,807,815	108
4500	7560	354,500	5,807,560	78	4500	7820	354,500	5,807,820	111
4500	7565	354,500	5,807,565	88	4500	7825	354,500	5,807,825	117
4500	7570	354,500	5,807,570	105	4500	7830	354,500	5,807,830	96
4500	7575	354,500	5,807,575	147	4500	7835	354,500	5,807,835	99
4500	7580	354,500	5,807,580	111	4500	7840	354,500	5,807,840	99
4500	7585	354,500	5,807,585	96	4500	7845	354,500	5,807,845	96
4500	7590	354,500	5,807,590	93	4500	7850	354,500	5,807,850	84
4500	7595	354,500	5,807,595	88	4500	7855	354,500	5,807,855	81
4500	7600	354,500	5,807,600	88	4500	7860	354,500	5,807,860	81
4500	7605	354,500	5,807,605	123	4500	7865	354,500	5,807,865	68
4500	7610	354,500	5,807,610	111	4500	7870	354,500	5,807,870	75
4500	7615	354,500	5,807,615	96	4500	7875	354,500	5,807,875	72
4500	7620	354,500	5,807,620	102	4500	7880	354,500	5,807,880	93
4500	7625	354,500	5,807,625	84	4500	7885	354,500	5,807,885	117
4500	7630	354,500	5,807,630	78	4500	7890	354,500	5,807,890	123
4500	7635	354,500	5,807,635	102	4500	7895	354,500	5,807,895	78
4500	7640	354,500	5,807,640	66	4500	7900	354,500	5,807,900	84
4500	7645	354,500	5,807,645	78	4500	7905	354,500	5,807,905	93
4500	7650	354,500	5,807,650	88	4500	7910	354,500	5,807,910	87
4500	7655	354,500	5,807,655	68	4500	7915	354,500	5,807,915	88
4500	7660	354,500	5,807,660	72	4500	7920	354,500	5,807,920	96
4500	7665	354,500	5,807,665	75	4500	7925	354,500	5,807,925	66
4500	7670	354,500	5,807,670	75	4500	7930	354,500	5,807,930	81
4500	7675	354,500	5,807,675	75	4500	7935	354,500	5,807,935	87
4500	7680	354,500	5,807,680	93	4500	7940	354,500	5,807,940	99
4500	7685	354,500	5,807,685	87	4500	7945	354,500	5,807,945	114
4500	7690	354,500	5,807,690	72	4500	7950	354,500	5,807,950	102
4500	7695	354,500	5,807,695	78	4500	7955	354,500	5,807,955	72
4500	7700	354,500	5,807,700	68	4500	7960	354,500	5,807,960	75
4500	7705	354,500	5,807,705	78	4500	7965	354,500	5,807,965	66
4500	7710	354,500	5,807,710	81	4500	7970	354,500	5,807,970	63
4500	7715	354,500	5,807,715	93	4500	7975	354,500	5,807,975	69
4500	7720	354,500	5,807,720	88					

## APPENDIX 5B:

## CONTINUED

Grid Co-ordinates		UTM Co-ordinates		Counts	Grid Co-ordinates		UTM Co-ordinates		Counts
Easting	Northing	Easting	Northing	Per Second (300 cps)	Easting	Northing	Easting	Northing	Per Second (300 cps)
<b>Line 4500 East (cont.)</b>					<b>Line 4600 East (cont.)</b>				
4500	7980	354,500	5,807,980	72	4600	7720	354,600	5,807,720	93
4500	7985	354,500	5,807,985	87	4600	7725	354,600	5,807,725	81
4500	7990	354,500	5,807,990	81	4600	7730	354,600	5,807,730	78
4500	7995	354,500	5,807,995	72	4600	7735	354,600	5,807,735	87
4500	8000	354,500	5,808,000	78	4600	7740	354,600	5,807,740	81
<b>Line 4600 East</b>					4600	7745	354,600	5,807,745	68
4600	7500	354,600	5,807,500	63	4600	7750	354,600	5,807,750	88
4600	7505	354,600	5,807,505	78	4600	7755	354,600	5,807,755	93
4600	7510	354,600	5,807,510	78	4600	7760	354,600	5,807,760	78
4600	7515	354,600	5,807,515	78	4600	7765	354,600	5,807,765	75
4600	7520	354,600	5,807,520	84	4600	7770	354,600	5,807,770	120
4600	7525	354,600	5,807,525	78	4600	7775	354,600	5,807,775	75
4600	7530	354,600	5,807,530	88	4600	7780	354,600	5,807,780	93
4600	7535	354,600	5,807,535	72	4600	7785	354,600	5,807,785	88
4600	7540	354,600	5,807,540	75	4600	7790	354,600	5,807,790	88
4600	7545	354,600	5,807,545	87	4600	7795	354,600	5,807,795	96
4600	7550	354,600	5,807,550	68	4600	7800	354,600	5,807,800	105
4600	7555	354,600	5,807,555	84	4600	7805	354,600	5,807,805	120
4600	7560	354,600	5,807,560	72	4600	7810	354,600	5,807,810	99
4600	7565	354,600	5,807,565	75	4600	7815	354,600	5,807,815	123
4600	7570	354,600	5,807,570	72	4600	7820	354,600	5,807,820	129
4600	7575	354,600	5,807,575	78	4600	7825	354,600	5,807,825	135
4600	7580	354,600	5,807,580	68	4600	7830	354,600	5,807,830	123
4600	7585	354,600	5,807,585	87	4600	7835	354,600	5,807,835	120
4600	7590	354,600	5,807,590	63	4600	7840	354,600	5,807,840	120
4600	7595	354,600	5,807,595	61	4600	7845	354,600	5,807,845	123
4600	7600	354,600	5,807,600	72	4600	7850	354,600	5,807,850	165
4600	7605	354,600	5,807,605	72	4600	7855	354,600	5,807,855	138
4600	7610	354,600	5,807,610	66	4600	7860	354,600	5,807,860	129
4600	7615	354,600	5,807,615	57	4600	7865	354,600	5,807,865	126
4600	7620	354,600	5,807,620	61	4600	7870	354,600	5,807,870	99
4600	7625	354,600	5,807,625	48	4600	7875	354,600	5,807,875	75
4600	7630	354,600	5,807,630	51	4600	7880	354,600	5,807,880	96
4600	7635	354,600	5,807,635	54	4600	7885	354,600	5,807,885	93
4600	7640	354,600	5,807,640	63	4600	7890	354,600	5,807,890	75
4600	7645	354,600	5,807,645	66	4600	7895	354,600	5,807,895	81
4600	7650	354,600	5,807,650	63	4600	7900	354,600	5,807,900	87
4600	7655	354,600	5,807,655	68	4600	7905	354,600	5,807,905	88
4600	7660	354,600	5,807,660	63	4600	7910	354,600	5,807,910	75
4600	7665	354,600	5,807,665	57	4600	7915	354,600	5,807,915	75
4600	7670	354,600	5,807,670	96	4600	7920	354,600	5,807,920	84
4600	7675	354,600	5,807,675	99	4600	7925	354,600	5,807,925	75
4600	7680	354,600	5,807,680	81	4600	7930	354,600	5,807,930	78
4600	7685	354,600	5,807,685	84	4600	7935	354,600	5,807,935	78
4600	7690	354,600	5,807,690	93	4600	7940	354,600	5,807,940	72
4600	7695	354,600	5,807,695	81	4600	7945	354,600	5,807,945	66
4600	7700	354,600	5,807,700	72	4600	7950	354,600	5,807,950	63
4600	7705	354,600	5,807,705	78	4600	7955	354,600	5,807,955	66
4600	7710	354,600	5,807,710	87	4600	7960	354,600	5,807,960	61
4600	7715	354,600	5,807,715	81	4600	7965	354,600	5,807,965	174
					4600	7970	354,600	5,807,970	75

## APPENDIX 5B:

## CONTINUED

Grid Co-ordinates		UTM Co-ordinates		Counts	Grid Co-ordinates		UTM Co-ordinates		Counts
Easting	Northing	Easting	Northing	Per Second (300 cps)	Easting	Northing	Easting	Northing	Per Second (300 cps)
<b>Line 4600 East (cont.)</b>					<b>Line 4700 East (cont.)</b>				
4600	7975	354,600	5,807,975	54	4700	7715	354,700	5,807,715	82.5
4600	7980	354,600	5,807,980	57	4700	7720	354,700	5,807,720	75
4600	7985	354,600	5,807,985	61	4700	7725	354,700	5,807,725	68
4600	7990	354,600	5,807,990	63	4700	7730	354,700	5,807,730	61
4600	7995	354,600	5,807,995	66	4700	7735	354,700	5,807,735	84
4600	8000	354,600	5,808,000	57	4700	7740	354,700	5,807,740	61
<b>Line 4700 East</b>					4700	7745	354,700	5,807,745	51
4700	7500	354,700	5,807,500	61	4700	7750	354,700	5,807,750	68
4700	7505	354,700	5,807,505	75	4700	7755	354,700	5,807,755	72
4700	7510	354,700	5,807,510	61	4700	7760	354,700	5,807,760	81
4700	7515	354,700	5,807,515	75	4700	7765	354,700	5,807,765	78
4700	7520	354,700	5,807,520	75	4700	7770	354,700	5,807,770	78
4700	7525	354,700	5,807,525	88	4700	7775	354,700	5,807,775	88
4700	7530	354,700	5,807,530	75	4700	7780	354,700	5,807,780	93
4700	7535	354,700	5,807,535	75	4700	7785	354,700	5,807,785	108
4700	7540	354,700	5,807,540	75	4700	7790	354,700	5,807,790	84
4700	7545	354,700	5,807,545	75	4700	7795	354,700	5,807,795	87
4700	7550	354,700	5,807,550	75	4700	7800	354,700	5,807,800	117
4700	7555	354,700	5,807,555	75	4700	7805	354,700	5,807,805	114
4700	7560	354,700	5,807,560	75	4700	7810	354,700	5,807,810	105
4700	7565	354,700	5,807,565	68	4700	7815	354,700	5,807,815	88
4700	7570	354,700	5,807,570	68	4700	7820	354,700	5,807,820	97.5
4700	7575	354,700	5,807,575	88	4700	7825	354,700	5,807,825	93
4700	7580	354,700	5,807,580	97.5	4700	7830	354,700	5,807,830	99
4700	7585	354,700	5,807,585	88	4700	7835	354,700	5,807,835	102
4700	7590	354,700	5,807,590	105	4700	7840	354,700	5,807,840	96
4700	7595	354,700	5,807,595	105	4700	7845	354,700	5,807,845	129
4700	7600	354,700	5,807,600	96	4700	7850	354,700	5,807,850	120
4700	7605	354,700	5,807,605	84	4700	7855	354,700	5,807,855	147
4700	7610	354,700	5,807,610	87	4700	7860	354,700	5,807,860	112.5
4700	7615	354,700	5,807,615	84	4700	7865	354,700	5,807,865	84
4700	7620	354,700	5,807,620	72	4700	7870	354,700	5,807,870	68
4700	7625	354,700	5,807,625	75	4700	7875	354,700	5,807,875	72
4700	7630	354,700	5,807,630	84	4700	7880	354,700	5,807,880	105
4700	7635	354,700	5,807,635	68	4700	7885	354,700	5,807,885	87
4700	7640	354,700	5,807,640	81	4700	7890	354,700	5,807,890	97.5
4700	7645	354,700	5,807,645	63	4700	7895	354,700	5,807,895	88
4700	7650	354,700	5,807,650	78	4700	7900	354,700	5,807,900	108
4700	7655	354,700	5,807,655	81	4700	7905	354,700	5,807,905	96
4700	7660	354,700	5,807,660	68	4700	7910	354,700	5,807,910	90
4700	7665	354,700	5,807,665	75	4700	7915	354,700	5,807,915	66
4700	7670	354,700	5,807,670	84	4700	7920	354,700	5,807,920	93
4700	7675	354,700	5,807,675	78	4700	7925	354,700	5,807,925	111
4700	7680	354,700	5,807,680	93	4700	7930	354,700	5,807,930	99
4700	7685	354,700	5,807,685	82.5	4700	7935	354,700	5,807,935	75
4700	7690	354,700	5,807,690	61	4700	7940	354,700	5,807,940	51
4700	7695	354,700	5,807,695	75	4700	7945	354,700	5,807,945	75
4700	7700	354,700	5,807,700	82.5	4700	7950	354,700	5,807,950	63
4700	7705	354,700	5,807,705	78	4700	7955	354,700	5,807,955	66
4700	7710	354,700	5,807,710	68	4700	7960	354,700	5,807,960	66
					4700	7965	354,700	5,807,965	57

## APPENDIX 5B:

## CONTINUED

Grid Co-ordinates		UTM Co-ordinates		Counts	Grid Co-ordinates		UTM Co-ordinates		Counts
Eastings	Northing	Eastings	Northing	Per Second (300 cps)	Eastings	Northing	Eastings	Northing	Per Second (300 cps)
<b>Line 4700 East (cont.)</b>					<b>Line 5400 East (cont.)</b>				
4700	7970	354,700	5,807,970	63	5400	8740	355,400	5,808,740	70
4700	7975	354,700	5,807,975	72	5400	8760	355,400	5,808,760	50
4700	7980	354,700	5,807,980	51	5400	8780	355,400	5,808,780	70
4700	7985	354,700	5,807,985	48	5400	8800	355,400	5,808,800	60
4700	7990	354,700	5,807,990	45	5400	8820	355,400	5,808,820	60
4700	7995	354,700	5,807,995	61	5400	8840	355,400	5,808,840	110
4700	8000	354,700	5,808,000	61	5400	8850	355,400	5,808,850	130
<b>Line 5200 East</b>					5400	8860	355,400	5,808,860	120
5200	8500	355,200	5,808,500	90	5400	8870	355,400	5,808,870	120
5200	8520	355,200	5,808,520	70	5400	8880	355,400	5,808,880	100
5200	8540	355,200	5,808,540	90	5400	8890	355,400	5,808,890	100
5200	8560	355,200	5,808,560	70	5400	8900	355,400	5,808,900	120
5200	8580	355,200	5,808,580	80	5400	8920	355,400	5,808,920	100
5200	8600	355,200	5,808,600	70	5400	8940	355,400	5,808,940	100
5200	8620	355,200	5,808,620	80	5400	8960	355,400	5,808,960	90
5200	8640	355,200	5,808,640	70	5400	8980	355,400	5,808,980	100
5200	8660	355,200	5,808,660	95	5400	9000	355,400	5,809,000	90
5200	8680	355,200	5,808,680	100	<b>Line 5500 East</b>				
5200	8700	355,200	5,808,700	90	5500	8500	355,500	5,808,500	80
<b>Line 5300 East</b>					5500	8520	355,500	5,808,520	70
5300	8510	355,300	5,808,510	80	5500	8540	355,500	5,808,540	70
5300	8530	355,300	5,808,530	80	5500	8560	355,500	5,808,560	70
5300	8550	355,300	5,808,550	80	5500	8580	355,500	5,808,580	70
5300	8570	355,300	5,808,570	80	5500	8600	355,500	5,808,600	60
5300	8590	355,300	5,808,590	90	5500	8620	355,500	5,808,620	60
5300	8610	355,300	5,808,610	80	5500	8640	355,500	5,808,640	70
5300	8620	355,300	5,808,620	70	5500	8660	355,500	5,808,660	70
5300	8640	355,300	5,808,640	90	5500	8680	355,500	5,808,680	60
5300	8660	355,300	5,808,660	70	5500	8700	355,500	5,808,700	60
5300	8670	355,300	5,808,670	80	5500	8720	355,500	5,808,720	70
5300	8690	355,300	5,808,690	80	5500	8730	355,500	5,808,730	80
5300	8700	355,300	5,808,700	80	5500	8750	355,500	5,808,750	110
<b>Line 5400 East</b>					5500	8770	355,500	5,808,770	110
5400	8500	355,400	5,808,500	80	5500	8780	355,500	5,808,780	90
5400	8520	355,400	5,808,520	100	5500	8790	355,500	5,808,790	120
5400	8540	355,400	5,808,540	100	5500	8800	355,500	5,808,800	120
5400	8560	355,400	5,808,560	100	5500	8820	355,500	5,808,820	110
5400	8580	355,400	5,808,580	100	5500	8840	355,500	5,808,840	90
5400	8590	355,400	5,808,590	70	5500	8860	355,500	5,808,860	70
5400	8600	355,400	5,808,600	60	5500	8880	355,500	5,808,880	50
5400	8620	355,400	5,808,620	100	5500	8900	355,500	5,808,900	90
5400	8640	355,400	5,808,640	60	5500	8920	355,500	5,808,920	90
5400	8660	355,400	5,808,660	150	5500	8940	355,500	5,808,940	90
5400	8670	355,400	5,808,670	150	5500	8960	355,500	5,808,960	90
5400	8680	355,400	5,808,680	130	5500	8980	355,500	5,808,980	90
5400	8700	355,400	5,808,700	110	5500	9000	355,500	5,809,000	80
5400	8720	355,400	5,808,720	90					

## APPENDIX 5B:

## CONTINUED

Grid Co-ordinates		UTM Co-ordinates		Counts	Grid Co-ordinates		UTM Co-ordinates		Counts
Easting	Northing	Easting	Northing	Per Second (300 cps)	Easting	Northing	Easting	Northing	Per Second (300 cps)
<b>Line 5600 East</b>					<b>Line 5700 East (cont.)</b>				
5600	8500	355,600	5,808,500	80	5700	8970	355,700	5,808,970	60
5600	8520	355,600	5,808,520	80	5700	8990	355,700	5,808,990	60
5600	8540	355,600	5,808,540	80	5700	9010	355,700	5,809,010	60
5600	8560	355,600	5,808,560	100	5700	9020	355,700	5,809,020	50
5600	8580	355,600	5,808,580	100	5700	9030	355,700	5,809,030	50
5600	8600	355,600	5,808,600	100	5700	9050	355,700	5,809,050	50
5600	8610	355,600	5,808,610	110	5700	9070	355,700	5,809,070	100
5600	8620	355,600	5,808,620	100	5700	9080	355,700	5,809,080	70
5600	8630	355,600	5,808,630	100	5700	9100	355,700	5,809,100	90
5600	8640	355,600	5,808,640	80	5700	9120	355,700	5,809,120	100
5600	8660	355,600	5,808,660	60	5700	9135	355,700	5,809,135	100
5600	8670	355,600	5,808,670	90	5700	9150	355,700	5,809,150	100
5600	8690	355,600	5,808,690	90	5700	9160	355,700	5,809,160	110
5600	8710	355,600	5,808,710	90	5700	9170	355,700	5,809,170	110
5600	8730	355,600	5,808,730	90	5700	9180	355,700	5,809,180	120
5600	8740	355,600	5,808,740	90	5700	9190	355,700	5,809,190	110
5600	8760	355,600	5,808,760	80	5700	9200	355,700	5,809,200	100
5600	8780	355,600	5,808,780	90	5700	9210	355,700	5,809,210	100
5600	8800	355,600	5,808,800	80	5700	9225	355,700	5,809,225	150
5600	8820	355,600	5,808,820	70	5700	9230	355,700	5,809,230	130
5600	8840	355,600	5,808,840	100	5700	9240	355,700	5,809,240	100
5600	8860	355,600	5,808,860	80	5700	9260	355,700	5,809,260	100
5600	8880	355,600	5,808,880	110	5700	9280	355,700	5,809,280	100
5600	8900	355,600	5,808,900	120	5700	9300	355,700	5,809,300	90
5600	8905	355,600	5,808,905	120	5700	9320	355,700	5,809,320	80
5600	8920	355,600	5,808,920	130	5700	9340	355,700	5,809,340	100
5600	8940	355,600	5,808,940	80	5700	9360	355,700	5,809,360	100
5600	8960	355,600	5,808,960	90	5700	9380	355,700	5,809,380	80
5600	8980	355,600	5,808,980	70	5700	9400	355,700	5,809,400	90
5600	9000	355,600	5,809,000	80	5700	9420	355,700	5,809,420	80
<b>Line 5700 East</b>					5700	9430	355,700	5,809,430	100
5700	8650	355,700	5,808,650	90	5700	9460	355,700	5,809,460	80
5700	8670	355,700	5,808,670	80	5700	9480	355,700	5,809,480	70
5700	8690	355,700	5,808,690	90	5700	9500	355,700	5,809,500	80
5700	8710	355,700	5,808,710	60	<b>Line 5800 East</b>				
5700	8730	355,700	5,808,730	60	5800	8500	355,800	5,808,500	110
5700	8750	355,700	5,808,750	60	5800	8520	355,800	5,808,520	90
5700	8770	355,700	5,808,770	60	5800	8540	355,800	5,808,540	100
5700	8790	355,700	5,808,790	60	5800	8580	355,800	5,808,580	90
5700	8800	355,700	5,808,800	100	5800	8600	355,800	5,808,600	100
5700	8810	355,700	5,808,810	100	5800	8620	355,800	5,808,620	90
5700	8820	355,700	5,808,820	80	5800	8640	355,800	5,808,640	100
5700	8830	355,700	5,808,830	80	5800	8660	355,800	5,808,660	100
5700	8840	355,700	5,808,840	90	5800	8680	355,800	5,808,680	80
5700	8850	355,700	5,808,850	120	5800	8700	355,800	5,808,700	110
5700	8870	355,700	5,808,870	100	5800	8720	355,800	5,808,720	110
5700	8890	355,700	5,808,890	90	5800	8740	355,800	5,808,740	100
5700	8910	355,700	5,808,910	70	5800	8760	355,800	5,808,760	120
5700	8930	355,700	5,808,930	70	5800	8780	355,800	5,808,780	100
5700	8950	355,700	5,808,950	50	5800	8800	355,800	5,808,800	100

APPENDIX 5B:

CONTINUED

Grid Co-ordinates		UTM Co-ordinates		Counts	Grid Co-ordinates		UTM Co-ordinates		Counts
Easting	Northing	Easting	Northing	Per Second (300 cps)	Easting	Northing	Easting	Northing	Per Second (300 cps)
<b>Line 5800 East (cont.)</b>					<b>Line 5900 East (cont.)</b>				
5800	8820	355,800	5,808,820	110	5900	8760	355,900	5,808,760	80
5800	8840	355,800	5,808,840	100	5900	8780	355,900	5,808,780	80
5800	8860	355,800	5,808,860	110	5900	8800	355,900	5,808,800	90
5800	8880	355,800	5,808,880	130	5900	8820	355,900	5,808,820	80
5800	8900	355,800	5,808,900	120	5900	8840	355,900	5,808,840	90
5800	8920	355,800	5,808,920	120	5900	8860	355,900	5,808,860	130
5800	8940	355,800	5,808,940	100	5900	8870	355,900	5,808,870	160
5800	8960	355,800	5,808,960	80	5900	8875	355,900	5,808,875	230
5800	8980	355,800	5,808,980	80	5900	8880	355,900	5,808,880	240
5800	9000	355,800	5,809,000	90	5900	8890	355,900	5,808,890	120
5800	9020	355,800	5,809,020	80	5900	8900	355,900	5,808,900	80
5800	9040	355,800	5,809,040	70	5900	8920	355,900	5,808,920	90
5800	9060	355,800	5,809,060	50	5900	8940	355,900	5,808,940	70
5800	9080	355,800	5,809,080	70	5900	8960	355,900	5,808,960	80
5800	9100	355,800	5,809,100	80	5900	8980	355,900	5,808,980	80
5800	9120	355,800	5,809,120	120	5900	9000	355,900	5,809,000	70
5800	9140	355,800	5,809,140	110	5900	9020	355,900	5,809,020	80
5800	9160	355,800	5,809,160	110	5900	9040	355,900	5,809,040	70
5800	9180	355,800	5,809,180	100	5900	9060	355,900	5,809,060	80
5800	9200	355,800	5,809,200	75	5900	9080	355,900	5,809,080	90
5800	9220	355,800	5,809,220	80	5900	9100	355,900	5,809,100	90
5800	9235	355,800	5,809,235	70	5900	9120	355,900	5,809,120	70
5800	9260	355,800	5,809,260	90	5900	9140	355,900	5,809,140	70
5800	9280	355,800	5,809,280	80	5900	9160	355,900	5,809,160	80
5800	9300	355,800	5,809,300	90	5900	9180	355,900	5,809,180	70
5800	9320	355,800	5,809,320	70	5900	9200	355,900	5,809,200	80
5800	9340	355,800	5,809,340	80	5900	9220	355,900	5,809,220	90
5800	9360	355,800	5,809,360	100	5900	9230	355,900	5,809,230	80
5800	9380	355,800	5,809,380	75	5900	9240	355,900	5,809,240	70
5800	9400	355,800	5,809,400	100	5900	9260	355,900	5,809,260	80
5800	9420	355,800	5,809,420	100	5900	9280	355,900	5,809,280	90
5800	9440	355,800	5,809,440	80	5900	9300	355,900	5,809,300	90
5800	9460	355,800	5,809,460	70	5900	9320	355,900	5,809,320	90
5800	9480	355,800	5,809,480	70	5900	9340	355,900	5,809,340	90
5800	9500	355,800	5,809,500	100	5900	9360	355,900	5,809,360	100
<b>Line 5900 East (cont.)</b>					5900	9380	355,900	5,809,380	120
5900	8500	355,900	5,808,500	70	5900	9390	355,900	5,809,390	110
5900	8520	355,900	5,808,520	90	5900	9400	355,900	5,809,400	110
5900	8540	355,900	5,808,540	100	5900	9410	355,900	5,809,410	120
5900	8560	355,900	5,808,560	70	5900	9420	355,900	5,809,420	120
5900	8580	355,900	5,808,580	90	5900	9430	355,900	5,809,430	90
5900	8600	355,900	5,808,600	100	5900	9440	355,900	5,809,440	120
5900	8620	355,900	5,808,620	90	5900	9460	355,900	5,809,460	160
5900	8640	355,900	5,808,640	100	5900	9470	355,900	5,809,470	170
5900	8660	355,900	5,808,660	100	5900	9480	355,900	5,809,480	160
5900	8680	355,900	5,808,680	100	5900	9490	355,900	5,809,490	170
5900	8700	355,900	5,808,700	100	5900	9500	355,900	5,809,500	160
5900	8720	355,900	5,808,720	70					
5900	8730	355,900	5,808,730	80					
5900	8740	355,900	5,808,740	80					

## APPENDIX 5B:

## CONTINUED

Grid Co-ordinates		UTM Co-ordinates		Counts	Grid Co-ordinates		UTM Co-ordinates		Counts
Easting	Northing	Easting	Northing	Per Second (300 cps)	Easting	Northing	Easting	Northing	Per Second (300 cps)
<b>Line 6000 East</b>					<b>Line 6100 East</b>				
6000	8500	356,000	5,808,500	110	6100	8500	356,100	5,808,500	80
6000	8520	356,000	5,808,520	80	6100	8520	356,100	5,808,520	80
6000	8540	356,000	5,808,540	80	6100	8540	356,100	5,808,540	80
6000	8560	356,000	5,808,560	90	6100	8560	356,100	5,808,560	100
6000	8580	356,000	5,808,580	90	6100	8580	356,100	5,808,580	90
6000	8600	356,000	5,808,600	90	6100	8600	356,100	5,808,600	90
6000	8620	356,000	5,808,620	90	6100	8620	356,100	5,808,620	90
6000	8640	356,000	5,808,640	90	6100	8640	356,100	5,808,640	70
6000	8660	356,000	5,808,660	80	6100	8660	356,100	5,808,660	80
6000	8680	356,000	5,808,680	80	6100	8680	356,100	5,808,680	70
6000	8700	356,000	5,808,700	90	6100	8700	356,100	5,808,700	80
6000	8720	356,000	5,808,720	70	6100	8720	356,100	5,808,720	80
6000	8740	356,000	5,808,740	70	6100	8740	356,100	5,808,740	80
6000	8760	356,000	5,808,760	70	6100	8760	356,100	5,808,760	70
6000	8780	356,000	5,808,780	60	6100	8780	356,100	5,808,780	80
6000	8800	356,000	5,808,800	70	6100	8800	356,100	5,808,800	70
6000	8820	356,000	5,808,820	80	6100	8820	356,100	5,808,820	80
6000	8840	356,000	5,808,840	80	6100	8840	356,100	5,808,840	80
6000	8860	356,000	5,808,860	80	6100	8860	356,100	5,808,860	80
6000	8880	356,000	5,808,880	80	6100	8880	356,100	5,808,880	80
6000	8900	356,000	5,808,900	70	6100	8900	356,100	5,808,900	80
6000	8920	356,000	5,808,920	80	6100	8920	356,100	5,808,920	80
6000	8940	356,000	5,808,940	80	6100	8940	356,100	5,808,940	80
6000	8960	356,000	5,808,960	80	6100	8960	356,100	5,808,960	80
6000	8980	356,000	5,808,980	80	6100	8970	356,100	5,808,970	70
6000	9000	356,000	5,809,000	80	6100	9000	356,100	5,809,000	80
6000	9020	356,000	5,809,020	70	6100	9020	356,100	5,809,020	80
6000	9040	356,000	5,809,040	80	6100	9040	356,100	5,809,040	80
6000	9060	356,000	5,809,060	80	6100	9060	356,100	5,809,060	80
6000	9080	356,000	5,809,080	80	6100	9080	356,100	5,809,080	80
6000	9100	356,000	5,809,100	80	6100	9100	356,100	5,809,100	80
6000	9120	356,000	5,809,120	80	6100	9120	356,100	5,809,120	80
6000	9140	356,000	5,809,140	80	6100	9140	356,100	5,809,140	80
6000	9160	356,000	5,809,160	80	6100	9160	356,100	5,809,160	70
6000	9180	356,000	5,809,180	80	6100	9180	356,100	5,809,180	80
6000	9200	356,000	5,809,200	80	6100	9200	356,100	5,809,200	80
6000	9220	356,000	5,809,220	80	6100	9220	356,100	5,809,220	90
6000	9240	356,000	5,809,240	80	6100	9240	356,100	5,809,240	70
6000	9260	356,000	5,809,260	80	6100	9260	356,100	5,809,260	70
6000	9280	356,000	5,809,280	70	6100	9280	356,100	5,809,280	70
6000	9300	356,000	5,809,300	80	6100	9300	356,100	5,809,300	80
6000	9320	356,000	5,809,320	80	6100	9320	356,100	5,809,320	70
6000	9340	356,000	5,809,340	90	6100	9340	356,100	5,809,340	80
6000	9360	356,000	5,809,360	80	6100	9360	356,100	5,809,360	200
6000	9380	356,000	5,809,380	80	6100	9380	356,100	5,809,380	90
6000	9400	356,000	5,809,400	80	6100	9400	356,100	5,809,400	80
6000	9420	356,000	5,809,420	80	6100	9420	356,100	5,809,420	80
6000	9440	356,000	5,809,440	80	6100	9440	356,100	5,809,440	90
6000	9460	356,000	5,809,460	80	6100	9460	356,100	5,809,460	80
6000	9480	356,000	5,809,480	130					
6000	9500	356,000	5,809,500	80					



## APPENDIX 5B:

## CONTINUED

Grid Co-ordinates		UTM Co-ordinates		Counts	Grid Co-ordinates		UTM Co-ordinates		Counts
Easting	Northing	Easting	Northing	Per Second (300 cps)	Easting	Northing	Easting	Northing	Per Second (300 cps)
<b>Line 8500 North (Upper Base Line)</b>									
5760	8500	355,760	5,808,500	120	5960	8500	355,960	5,808,500	80
5780	8500	355,780	5,808,500	130	5980	8500	355,980	5,808,500	80
5800	8500	355,800	5,808,500	90	6000	8500	356,000	5,808,500	80
5820	8500	355,820	5,808,500	80	6010	8500	356,010	5,808,500	80
5840	8500	355,840	5,808,500	80	6020	8500	356,020	5,808,500	80
5860	8500	355,860	5,808,500	80	6040	8500	356,040	5,808,500	80
5880	8500	355,880	5,808,500	80	6060	8500	356,060	5,808,500	80
5900	8500	355,900	5,808,500	80	6080	8500	356,080	5,808,500	80
5920	8500	355,920	5,808,500	80	6100	8500	356,100	5,808,500	80
5940	8500	355,940	5,808,500	80					

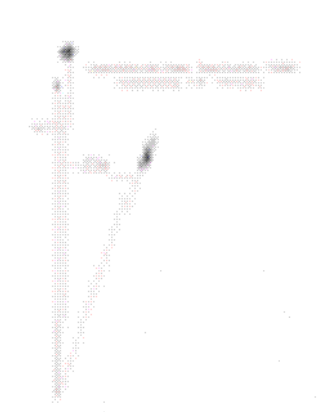
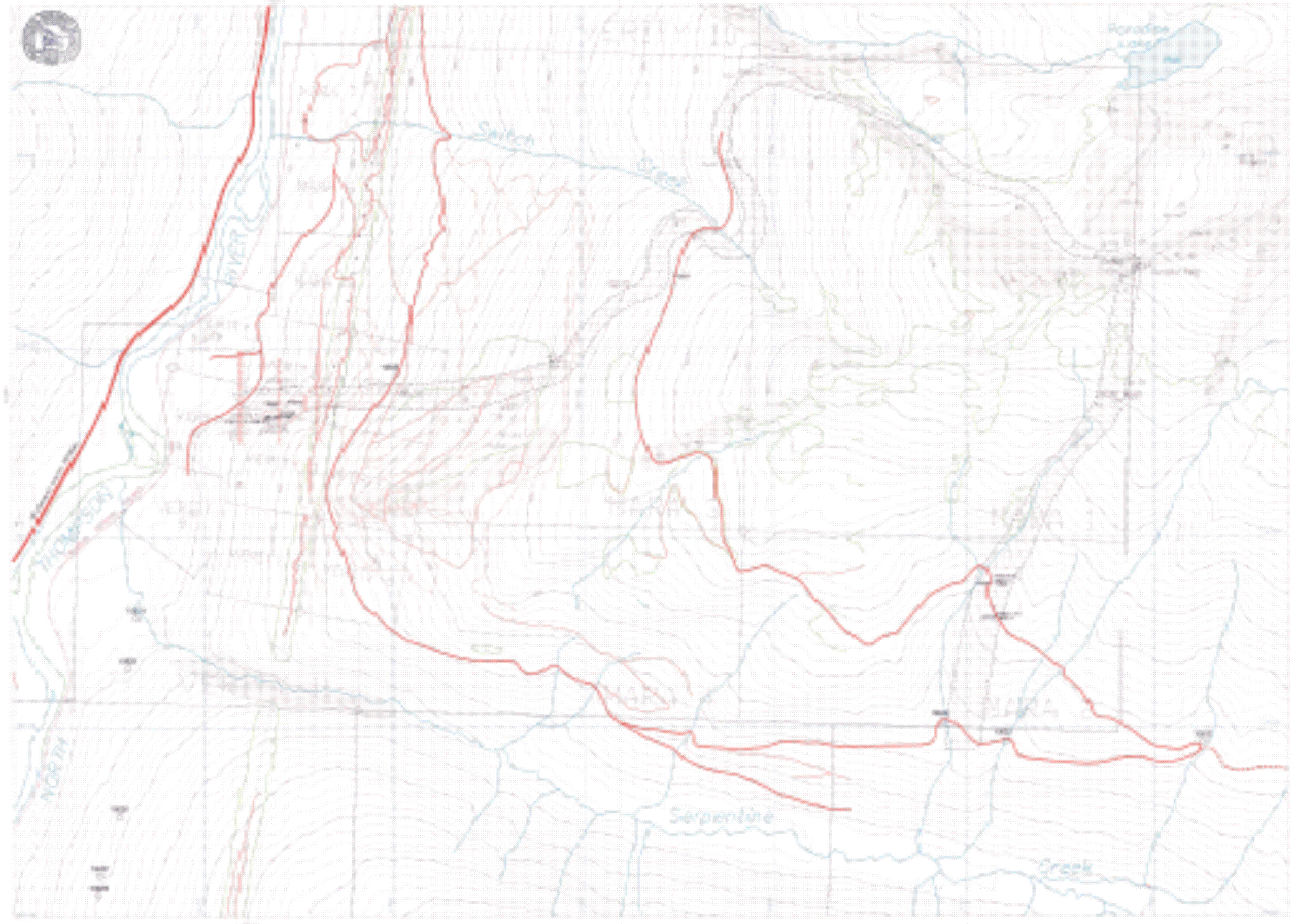
## **APPENDIX 6: STATEMENT OF QUALIFICATIONS**

The field work described in this report was supervised by Jeff Reeder and Jody Dahrouge.

Mr. Reeder is a geological consultant with Dahrouge Geological Consulting Ltd. based in Edmonton, Alberta. He obtained a degree in geology from the University of Alberta, Edmonton in 1988. He is registered as P. Geo. with the Association of Professional Engineers and Geoscientists of B.C. He has more than 13 years of experience in mineral exploration.

J.R. Dahrouge is a geological consultant with Dahrouge Geological Consulting Ltd. based in Edmonton, Alberta. He obtained degrees in geology and computing science from the University of Alberta, Edmonton in 1988 and 1994, respectively. He has more than 10 years of experience in mineral exploration. He is a member of the Canadian Institute of Mining and Metallurgy and is registered as P. Geol. with the Association of Professional Engineers, Geologists, and Geophysicists of Alberta.





**SYMBOLS**

- Contour lines, interval: 100
- Microcontour lines, interval: 20
- Geographic grid (approximate)
- Trail (approximate)
- Watercourse
- Peak (m)
- Advisory line
- Boundary (approximate)
- Boundary (approximate)
- Proposed access, upper 1/2 mile grid
- Geological contact line, 200'
- Geological contact, 100'
- Peak (m)
- 2000' contour interval, 100'
- Proposed access, lower 1/2 mile
- Geological contact
- Proposed access, lower 1/2 mile
- North arrow (approximate)

**NOTE**

1) This map shows approximate locations of sample sites.  
 2) Rock sample locations are shown. This map is for information only.

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SRX-CLM-0001P, BULKHEAD, BRITISH COLUMBIA

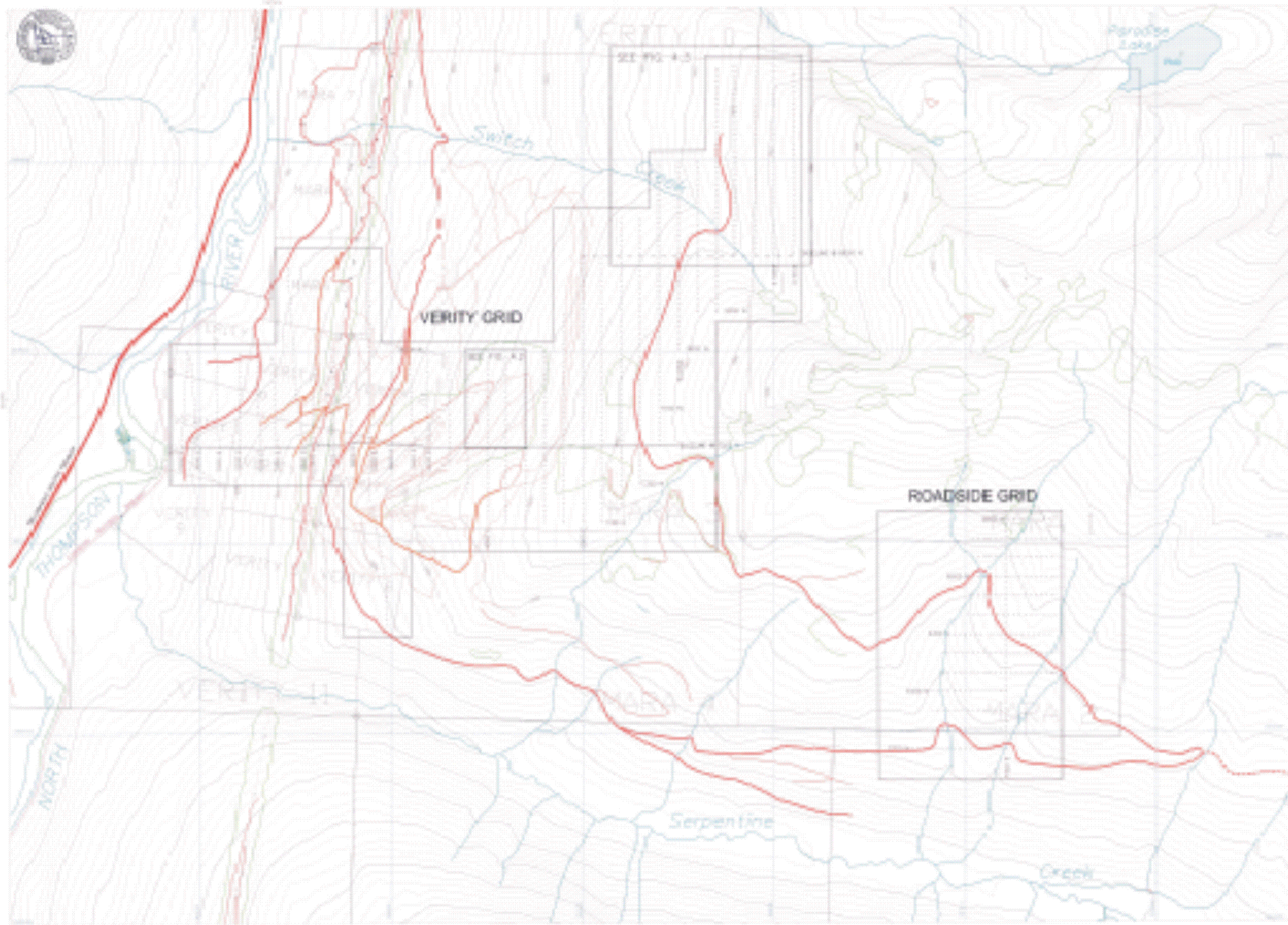
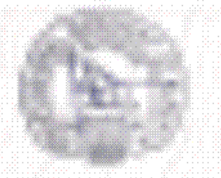
**Fig 3.1**  
**Geology, and Locations of Rock and Pan Concentrate Samples**

Scale: 1:1500

WM 200/1.12

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**SYMBOLS**

- Trail head
- Active logging road
- Non-logging road
- Proposed access (upstream of bridge)
- Established stream (20m)
- Flow line
- Designated access for natural habitat
- Designated access for logging

**NOTE**

- 1. 10m grid from 1983 map, 10m points
- 2. Main map coordinate lines of BC, Thompson River Grid and 1000m grid

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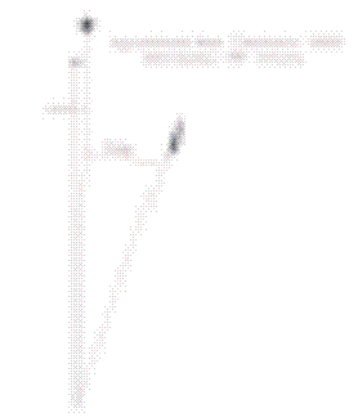
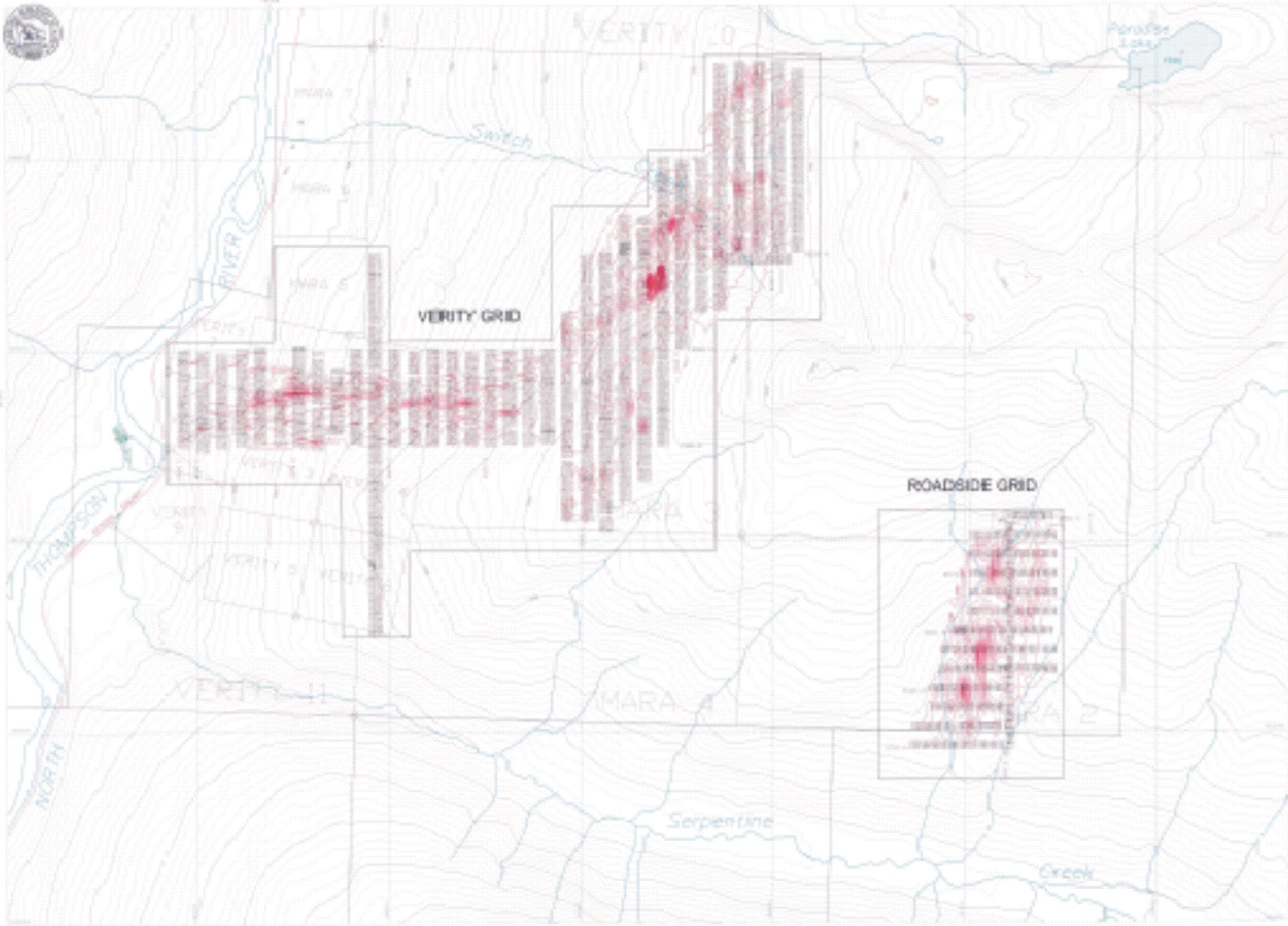
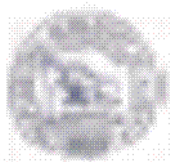
BARA CLAM GROUP, BLUE RIVER, BRITISH COLUMBIA

**Fig 3.2**  
Access Trails and Established Grid



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**SYMBOLS**

Boundary	
Active exploration	
Decontaminated soil	
Noncontaminated soil	
Proposed access (right of way) soil	
Boundary (width 20m)	
Contour interval (magnetic intensity)	
Topographic line interval (10m)	

**NOTE**

- 1. Contours North magnetic declination - 100 degrees
- 2. Magnetic intensity contours are in 1000 nT increments and 500 nT
- 3. Magnetic intensity contours within 5 m of any road, lake, or stream are shown. The symbols are for contour lines.

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MARA CLIME GROUP, BLUE RIVER, BRITISH COLUMBIA

**Fig 4.1**  
Contoured Ground Magnetic Data

