

# **Northern Gold NL**

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# **EL 8056**

# 1995/96 ANNUAL REPORT

15.9.95 to 14.9.96

Pine Creek 1:100,000 Map Sheet

Title Holder:- Territory Goldfields N.L.

Managed by:- Northern Gold N.L.

October 1996

Author:- N.Socic

NTDME

10 10 m

Northern Gold N.L., Adelaide River

Northern Gold N.L., Perth Office

#### SUMMARY

EL 8056 is located approximately 100 kilometres south - east of Darwin on the Pine Creek 1:100,000 scale map sheet and the Union Reef (14/6-I) 1:50,000 scale map sheet.

The tenement area is dominated by Burrell Creek and Mount Bonnie Formation sediments with Gerowie Tuff and Koolpin Formation present in the east and the McKinlay Granite in the west.

The licence was granted to Northern Territory Gold Mines N.L. on the 15<sup>th</sup> of September 1993 for a period of 6 years. EL 8056 is now held by Territory Goldfields N.L. and managed by Northern Gold N.L.

During the 1995/96 exploration season, Northern Gold N.L. completed a work program based on digital data acquisition and manipulation, a regional soil sampling program and stream sediment sampling.

Landsat Imagery, SPOT Imagery and AGSO mapping were obtained and used in conjunction with aerial mapping to determine the best method of gold exploration to be used on the licence.

The regional soil sampling program was conducted over five 400 metre spaced lines, each line being between 1,200 metres and 1,800 metres in length. A total of 65 samples, including duplicates, were collected.

The results were disappointing, with the highest value returned being 3 ppb Au.

A total of 3 stream sediment samples were also collected. The highest value return was 0.5 ppb Au.

Further soil sampling and geological mapping is required to fully assess the mineralisation potential within the licence.

The covenant for the 1995/96 year of tenure was \$6,000 and the expenditure totaled \$12,990.

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## 1.0 LOCATION AND TENURE

EL 8056 is located approximately 100 kilometres south - east of Darwin and 28 kilometres north of Pine Creek on the Union Reef (14/6-I) 1:50,000 scale and Pine Creek 1:100,000 scale map sheets. The licence consists of seven graticular blocks, 22 square kilometres in area, lying between latitudes 13°33' south and 13°37' south and longitudes 131°47' east and 131°49' east (Figure 1). EL 8056 is situated within Perpetual Pastoral Lease No. 1111, Ban Ban Springs, held by Ban Ban Springs Station Pty. Ltd. and Pastoral Lease No. 815, Mary River West, held by Equest Pty. Ltd.

Access is via the Stuart Highway to Pine Creek then via the Frances Creek Road and pastoral tracks. Access to most parts of the tenement can be reached over the relatively flat ground along the drainage course of Watts Creek.

The licence, originally consisting of 14 blocks, 45 square kilometres in area, was granted to Northern Territory Gold Mines N.L. on the 15<sup>th</sup> of September 1993 for a period of six years. Due to compulsory relinquishment, the tenement now stands at 7 blocks. Territory Goldfields N.L. which is now managed by Northern Gold N.L., acquired the tenement in 1995.

During the 1995/96 exploration season, Northern Gold N.L. completed a work program based on digital data acquisition and manipulation, a regional soil sampling program and stream sediment sampling.

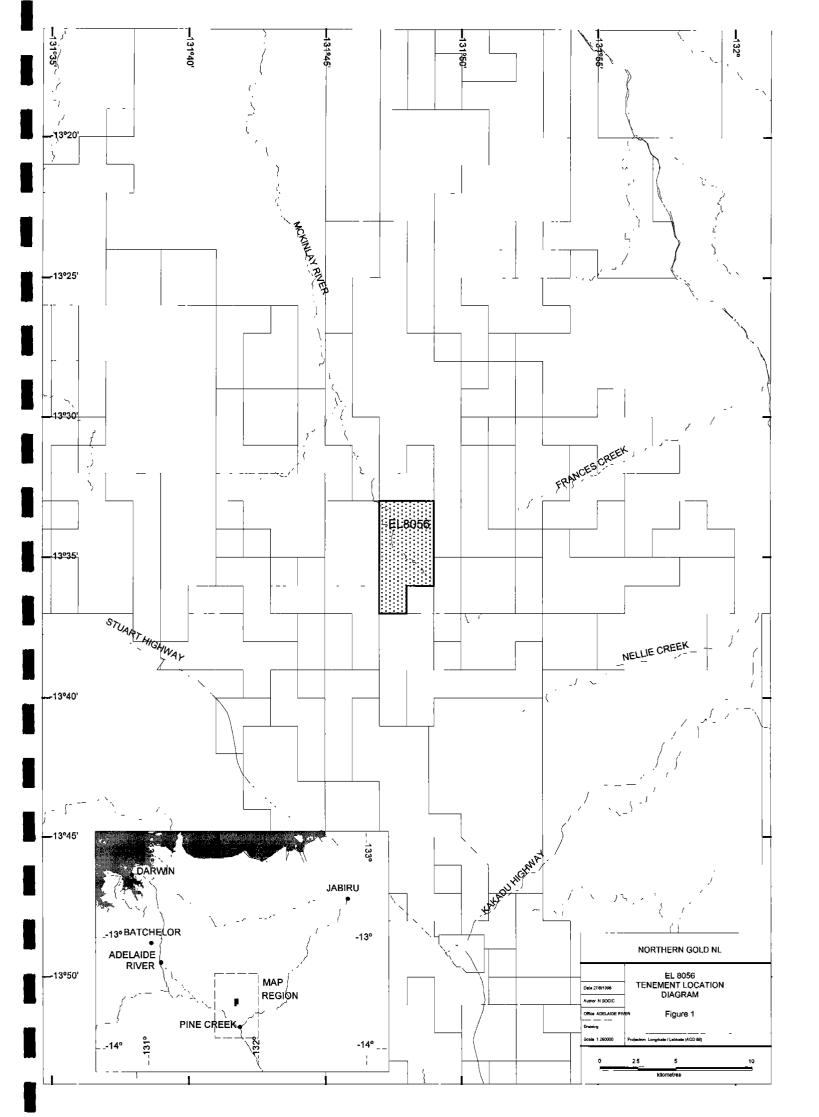
Landsat Imagery, SPOT Imagery and AGSO mapping were obtained and used in conjunction with aerial mapping to determine the best method of gold exploration to be used on the licence.

The regional soil sampling program was conducted over five 400 metre spaced lines, each line being between 1,200 metres and 1,800 metres in length. A total of 65 samples, including duplicates, were collected.

A total of 3 stream sediment samples were also collected.

Further soil sampling and geological mapping is required to fully assess the mineralisation potential within the licence.

The covenant for the 1995/96 year of tenure was \$6,000 and the expenditure totaled \$12,990.



## 2.0 GEOLOGY

# 2.1 Regional Geology

EL 8056 is situated within the Pine Creek Geosyncline, a tight to isoclinally folded sequence of mainly pelitic and psammitic Lower Proterozoic with interlayered tuff units. All rocks in the area have been metamorphosed to low, and in places medium grade, metamorphic assemblages. For the purposes of this report the prefix "meta" is implied, but omitted from the rock names and descriptions.

The sequence has been intruded by pre-orogenic sills of the Zamu Dolerite and a number of late syn-orogenic to post-orogenic Proterozoic granitoids. Largely undeformed Middle and Late Proterozoic, Palaeozoic and Mesozoic strata as well as Cainozoic sediments and laterite overlie the Pine Creek Geosyncline rocks.

# 2.2 Local Geology

The tenement predominantly consists of the Burrell Creek Formation of the Finniss River Group. Sedimentary units from the Mount Bonnie Formation, Gerowie Tuff, Koolpin Formation and Wildman Siltstone are also present within the licence (Figure 2).

The Burrell Creek Formation in the central part of the licence consists of metamorphosed shale, siltstone and greywacke.

The main lithologies present in the South Alligator Group units, consisting of the Mount Bonnie Formation, Gerowie Tuff and the Koolpin Formation, are pelitic and psammitic rocks, chert, banded iron formation, vitric and lithic tuffs. Carbonaceous and sulphidic pelites are common particularly in the Koolpin Formation.

All units have undergone tight to isoclinal folding about north - northwest to south - southeast axes and plunge mainly to the north.

The McKinlay Granite intrudes the area to the west of the tenement.

## 3.0 PREVIOUS EXPLORATION

The highlights of previous exploration activities are summarised below. In this work, the results of 1:100,000 scale geological mapping by the BMR have been used as the starting point by most previous explorers for large amounts of stream-sediment, soil and rock geochemistry, followed by limited drilling in some cases. While low-order geochemical anomalies have been quite commonplace in the past, none has led to intensive drill testing, except for prospects to the north of Mount Porter (Fawcett, 1995).

The multi-client, high resolution, airborne geophysical survey flown by Aerodata in 1988 (with additions in 1991 and 1992) covers only a small portion of the total area (Fawcett, 1995).

#### EL 4752 - R.G.C. Exploration Pty. Ltd.

- extensive program completed in Mount Porter locality involving detailed geological mapping, rock chip sampling, costeaning, and drilling (percussion and core).
- encouraging surface and costean sample results were not confirmed by core drilling.
- Mount Porter and Western anticlines were the principal foci of the exploration.

#### EL 4759 - Kable Resources Pty. Ltd. and Dominion Mining Ltd.

- extensive costeaning to north north west and south south east of old Watts
   Creek alluvial diggings by Kable plus follow-up mapping, sampling and reverse
   circulation drilling by Dominion of low-grade, stockwork-type Au mineralisation
   (Hosking, 1994).
- Southern Stockwork Zone (SSZ), Watts Creek North and Watts Creek South prospects.

#### EL 5064 - Western Gulf Oil and Mining Ltd.

- rock chip and soil (eluvial) sampling along selected traverses
- initial anomalous values not enhanced by follow-up sampling
- best values from initial sampling of 0.94g/t Au and 4.35% As (Fawcett, 1995)

#### EL 6222 and EL 6335 - Billiton Australia

- discouraging results from stream sediment (including BCL type), soil and rock chip sampling, geological mapping, ground magnetic surveying and interpretation of aeromagnetic data (Hosking, 1994).
- most significant results obtained were:

#### EL 6222

- 1.29g/t Au (rock chip sampling)
- 0.4ppb Au (BCL stream sediment sampling)
- magnetic anomalies due to presence of pyrrhotite and magnetite in hornfels adjacent to granite.

#### **EL 6335**

- 0.1g/t Au (rock chip sampling)
- 0.13ppb Au (BCL stream sediment sampling)

#### EL 6653 - Robert Johnston

discouraging results from geochemical sampling and geological mapping.

#### EL 6702 - Rosequartz Mining N.L.

- geological reconnaissance and rock chip sampling completed, with emphasis on gossanous quartz stockworks and breccias.
- only one small area located with slightly anomalous gold values which were deemed to be insignificant.

#### EL 7316 - Northern Gold N.L

 discouraging results from stream sediment and soil sampling plus geological mapping, with no anomalies defined for follow-up work.

#### EL 8056 - Territory Goldfields N.L.

 research of available geological and exploration-related data, acquisition and digitising of colour aerial photography and establishment of a Geographic Information System (Fawcett, 1995). The principal findings of past mineral exploration programs within and/or close to the present licence areas are, (Fawcett, 1995):-

- 1. a close association of tin and gold has been demonstrated in quartz and quartz-haematite (ex-sulphide) veins which are invariably related to faulting or shearing.
- 2. the Koolpin Formation and to a lesser extent, the Zamu Dolerite, have received much exploration for syngenetic, stratiform-stratabound and epigenetic, discordant (structurally controlled) types of Au mineralisation respectively, mostly for bulk-tonnage, low grade deposits.
- 3. past exploration detected subeconomic Au mineralisation using BLEG, silt and pan-concentrate types of stream sediment and/or soil samples.
- 4. tourmaline is a common accessory in known tin-gold mineralisation.
- 5. higher gold values in the ferruginous cappings of quartz-sulphide veins and sulphidic metasediments point to a considerable degree of surficial enrichment during oxidation and weathering.
- 6. sulphidic-carbonaceous units are common throughout the South Alligator Group, with the greatest concentrations being in the Mundogie Sandstone and Koolpin Formation.

## 4.0 1995/96 EXPLORATION COMPLETED

During the 1995/96 field season Northern Gold N.L. carried out a work program based on digital data studies, a regional soil sampling program and stream sediment sampling.

# 4.1 GIS and Remote Sensing Studies

Northern Gold N.L. completed a work program involving digital data acquisition and manipulation. Landsat Imagery, SPOT Imagery and AGSO mapping were obtained and used in conjunction with aerial mapping and site visits to determine the best method of exploration to be used on the licence.

GIS and satellite imagery were used to log soil types, indicating that the region comprises mainly lateritised lower saprolite, however, a thin band of black soil trends north - west to south - east through the tenement due to the McKinlay River drainage system.

Satellite imagery was also used to interpret the structural geology of the region. Figure 3 shows the satellite image as well as the regional soil sampling locations.

Interpretation of the GIS and remote sensing imagery shows the McKinlay Granite intruding into the surrounding strata. The metamorphic aureole extends approximately 250 metres into the licence. In the north - east of the tenement, the folded sequence of Gerowie Tuff, Mount Bonnie Formation, Koolpin Formation and the Wildman Siltstone outcrop. The Burrell Creek Formation dominates the region, and is indicated on the satellite image as a lighter shade of grey.

# 4.2 Regional Soil Sampling Program

During the 1995/96 year of tenure, Northern Gold N.L. completed a regional soil sampling program over EL 8056. The soil sampling program consisted of five 400 metre spaced lines, varying in length from 1,200 to 1,800 metres. Samples were collected at 25 metre intervals and composited to 100 metres. A total of 65 samples (Sample Nos. 144262 - 144330), including duplicates were collected and sieved to -6 millimetre fraction. All samples were submitted to Assaycorp, in Pine Creek, for BLEG assay technique and analysed for Au, As, Pb, Cu and Zn.

The regional soil sampling program sample locations are shown in plan on Figure 4 and given in Appendix 1.

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8499500AMGN	+	+,,44305,,44304,,44303,,443	<sup>32</sup> , 44 <sup>300</sup> , 44 <sup>298</sup> , 14 <sup>298</sup> , 144 <sup>297</sup> , 144 <sup>29</sup>	\$ 14 <sup>295</sup> 14 <sup>4254</sup> 14 <sup>4253</sup>	+	+	84 <u>995004 MGN</u>
8499000AMGN	+	+	+ + 14 13 12 1	+	+	+	84 <u>99000</u> 4MGN
8498500AMGN	B02500AMGE	+ 1 dae + 1 dae + 1 dae + 1 dae	16 + 14 42 13 14 14 14 14 14 14 14 14 14 14 14 14 14	# 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	BO4500AMGE + AVA TAVE SATURAL SATURA SATUR		thern Gold N.L.  EL 8056 ATTS CREEK OIL SAMPLE CATION PLAN FIGURE 4  DATE SHEET 03/10/96 1 of 1  REF No. JB Plotted with MICROMINE

#### 4.2.1 Regional Soil Sampling Results

The results from the regional soil sampling program were generally disappointing with the highest value returned being 3 ppb Au (Sample No. 144287, 8499083N: 803435E). The results for all other elements analysed were poor.

The assay results for Au, As, Cu, Pb, and Zn are given in Appendix 1, and shown on plan in Figures 5 to 9.

Anomalous values are shown on the satellite image in Figures 10 to 14, to determine the relationships between the anomalies and underlying structures and geology.

## 4.2.2 Statistical Analysis of the Regional Soil Sampling Results

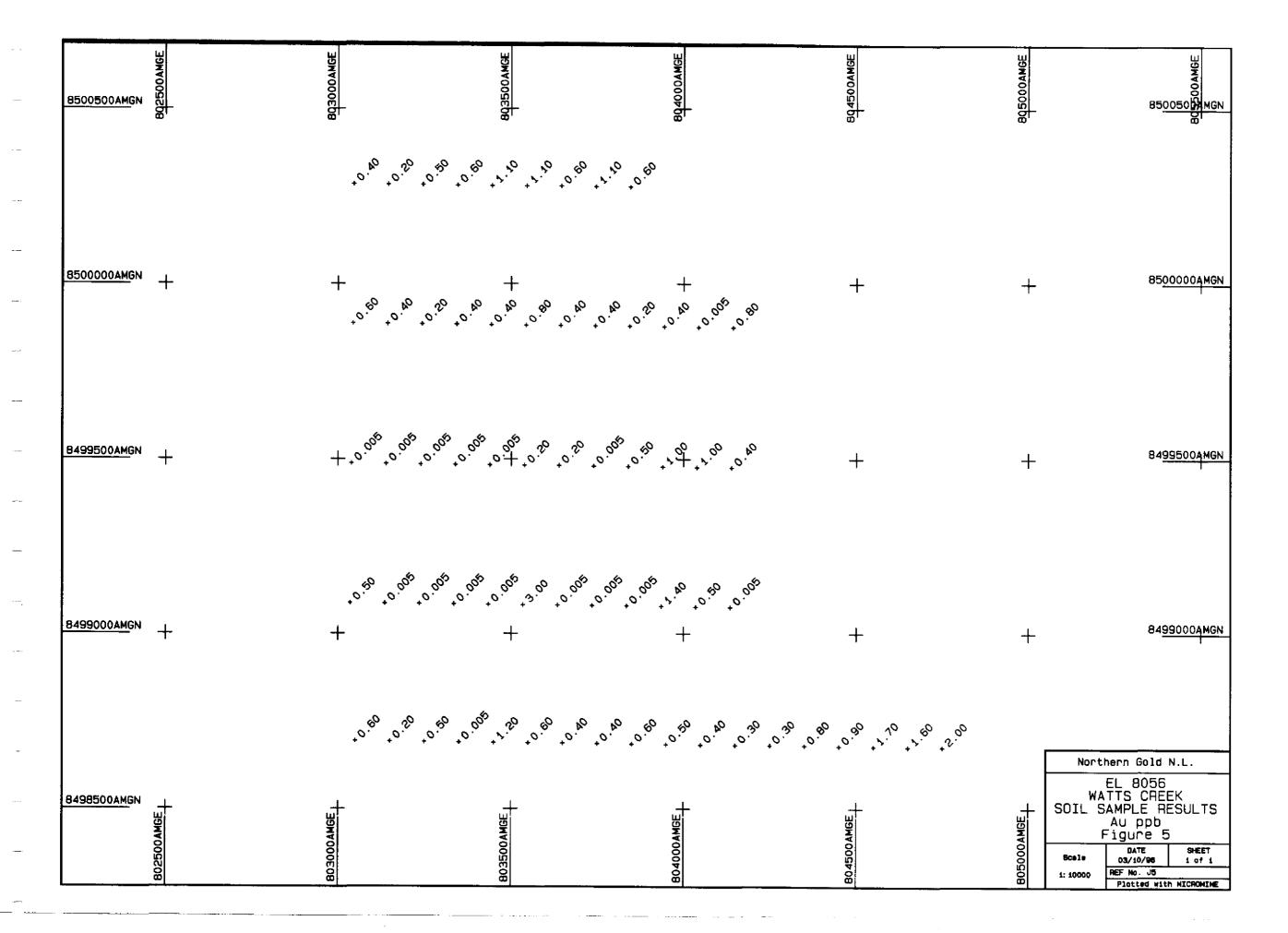
Summary statistics for each element analysed in the soil sampling program are as follows:-

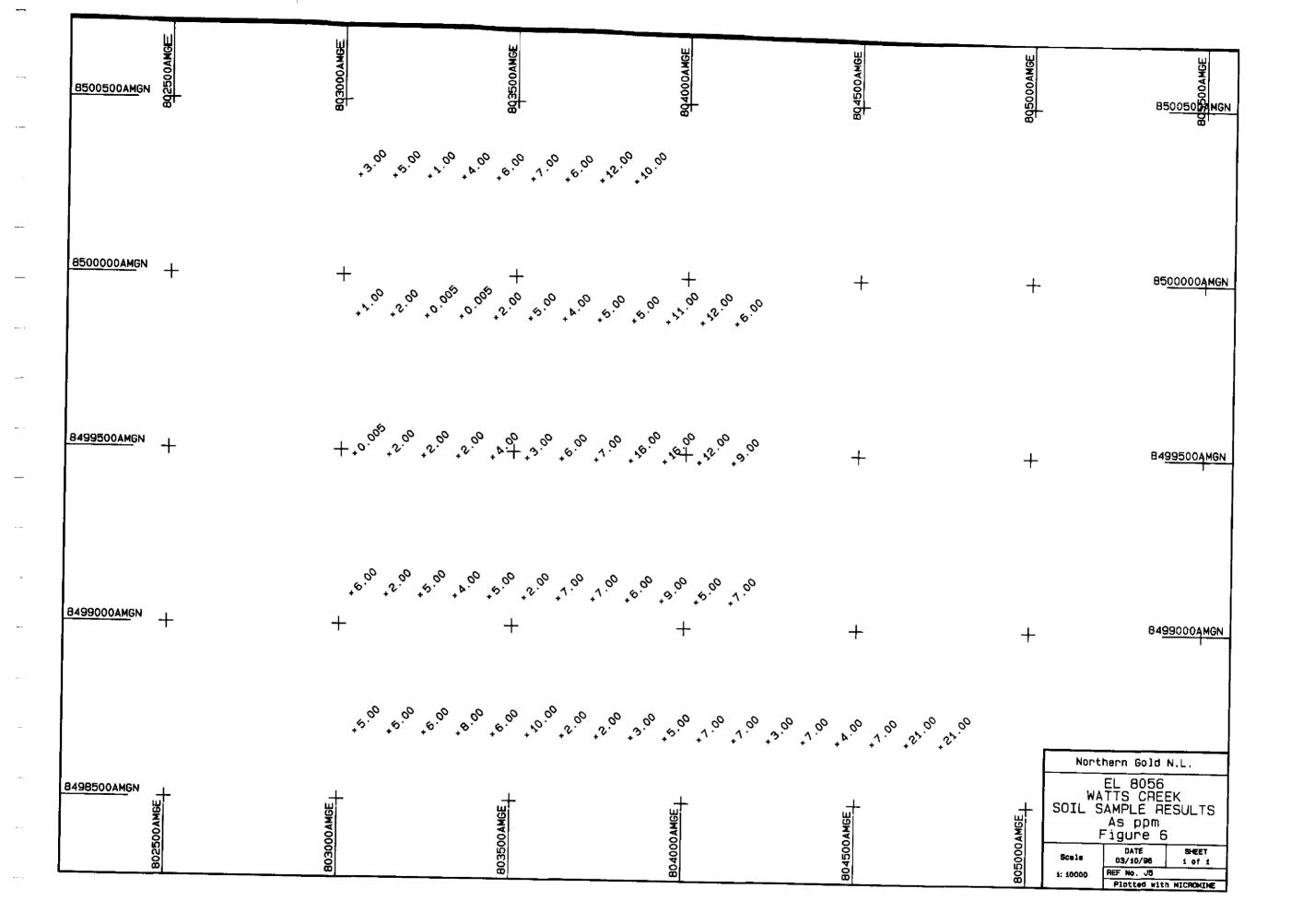
<u>Table 1</u> Summary Statistics for the Regional Soil Sampling Results

	<u>Au</u>	<u>Cu</u>	<u>Zn</u>	<u>As</u>	Pb
Samples	65	65	65	65	65
Minimum	0.005	11.000	18.000	0.005	9.000
Maximum	3.000	64.000	234.000	21.000	136.000
Class Int.	0.200	4.000	20.000	2.000	10.000
Median	0.400	17.000	44.000	5.000	31.000
Mean	0.512	18.554	55.554	6.046	38.769
Variance	0.304	69.064	1811.220	19.354	647.930
Std. Dev.	0.551	8.310	42.558	4.399	25.455
95th Percentile	1.250	23.000	132.000	7.500	75.000
99th Percentile	2.000	58.000	185.000	11.800	93.000

Both histograms and log probability plots were calculated for Au, Cu, As, Pb and Zn.

The histograms for each of the elements, indicate that the populations are log normal. However, at least two populations can be defined for all the elements analysed.



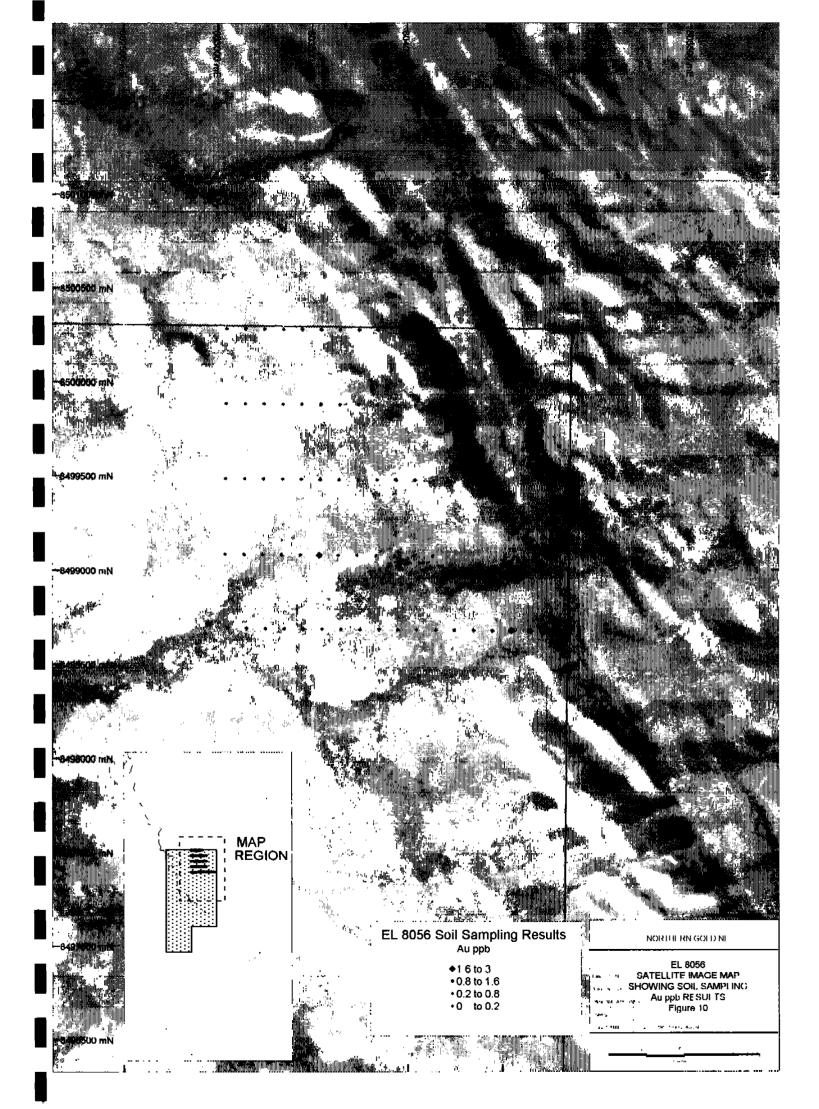


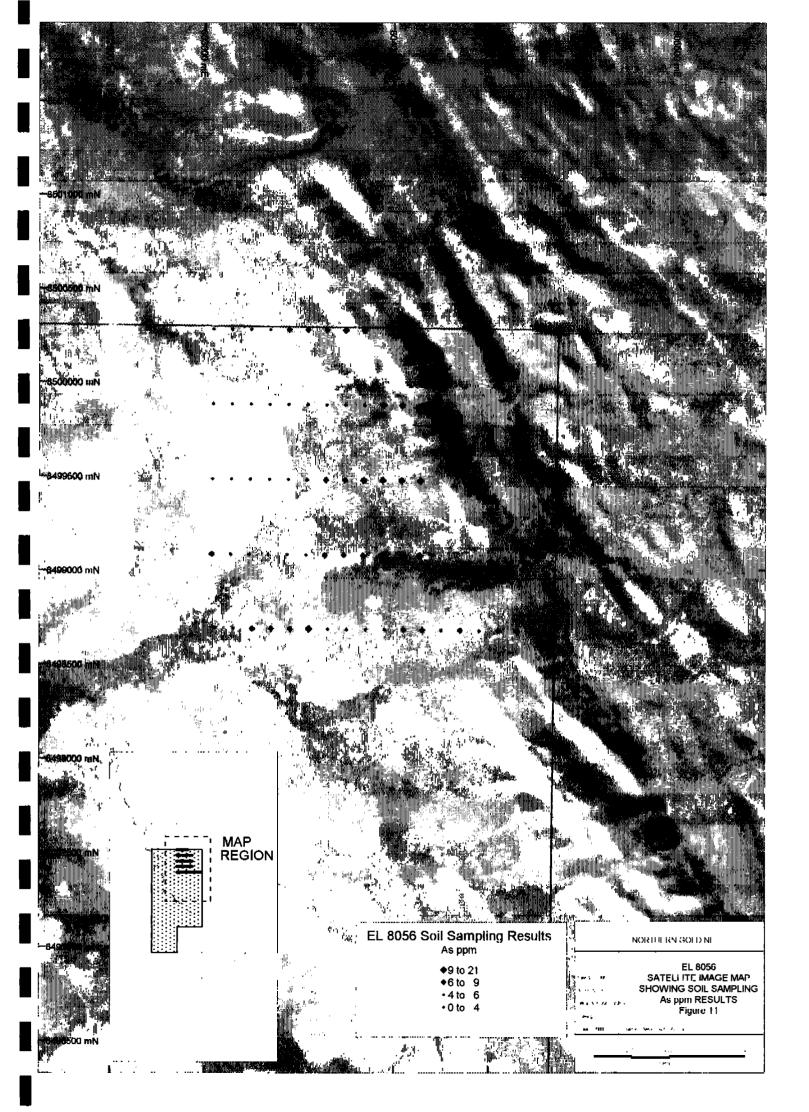
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<u>8499500AM</u> GN	+	+*****************		* 18+ * 18.0 * 12.00	+	+	84 <u>995004MG</u> N
8499000AMGN	+	+	+	+	+	+	84 <u>99000AMGN</u>
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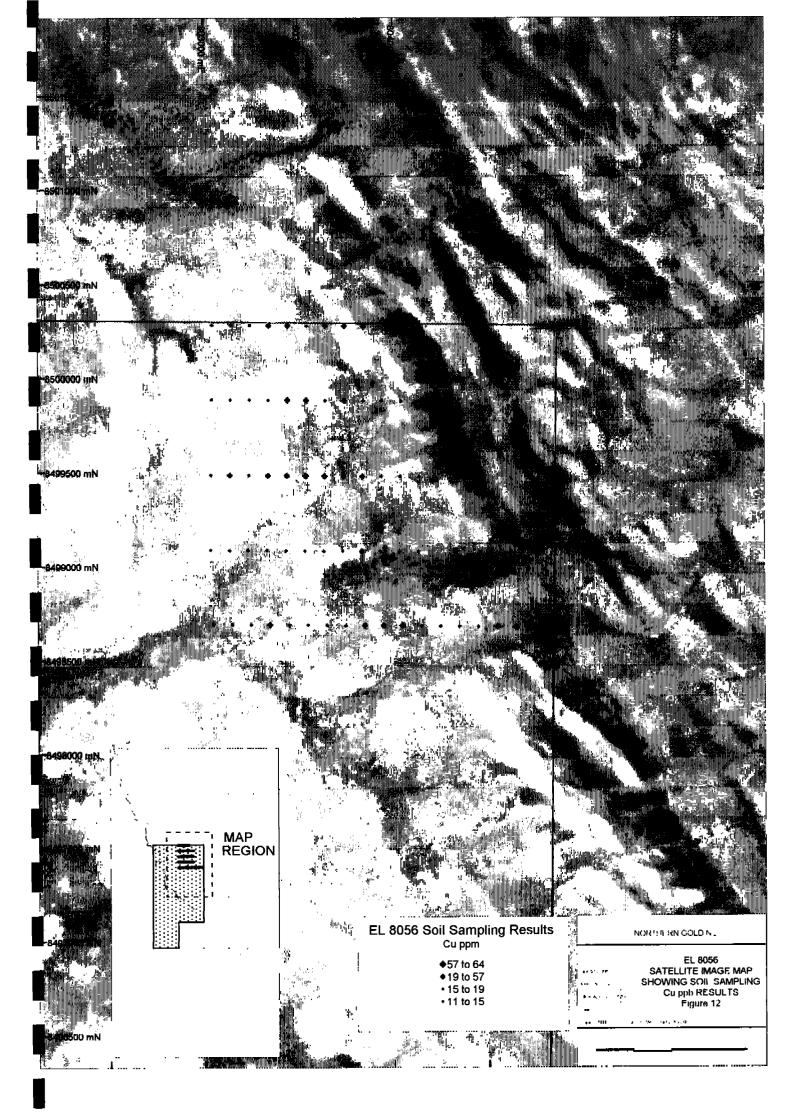
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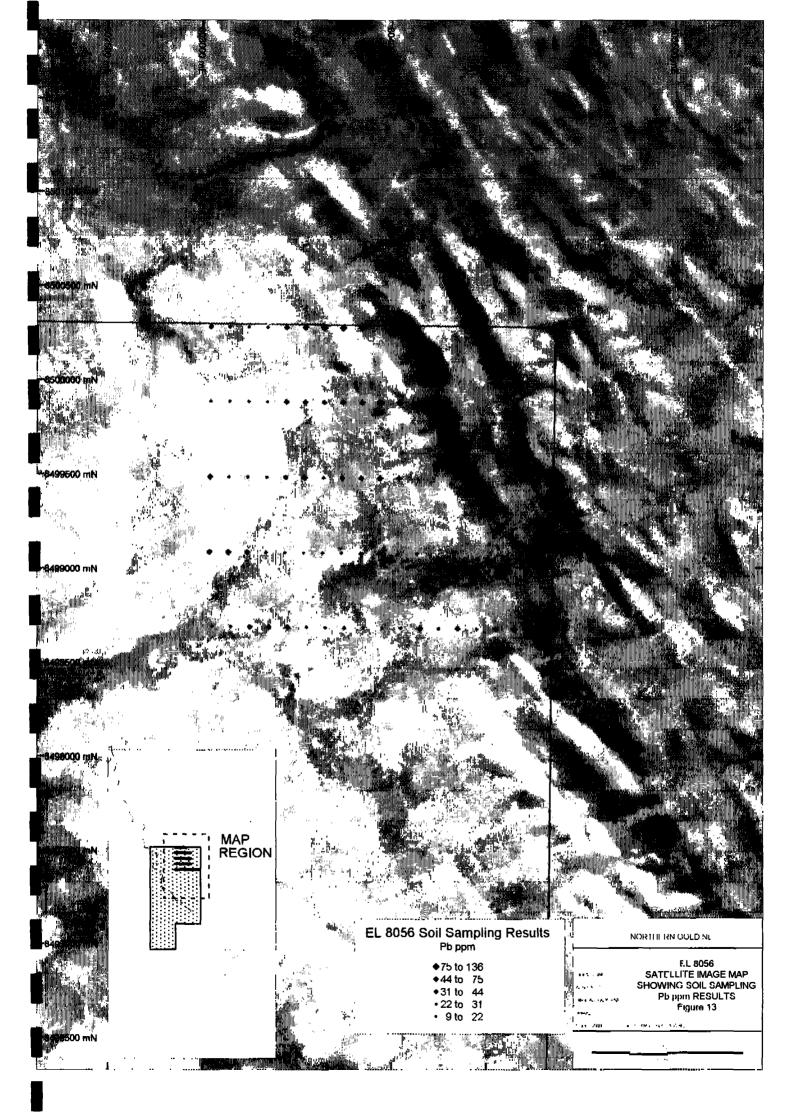
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8500000AMGN +		+ + + + + + + + + + + + + + + + + + +		+	+	85 <u>000004mgn</u>
8499500AMGN +	+. ***************************	*8.0° *8.0° *35+ *8*.0° *8.0°	\$°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	+	+	84 <u>99500AMGN</u>
8499000AMGN +	+	+	+	+	+	84 <u>99000AMGN</u>
802500AMGE	ВОЗОООАМGE   60 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	B03500AMGE + \$\$ 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	804000AMGE +	804500AMGE + 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Nor	rthern Gold N.L.  EL 8056 VATTS CREEK SAMPLE RESULTS Pb ppm Figure 8  DATE SHEET 03/10/96 1 0f 1 REF No. J5 Plotted with HICROMINE

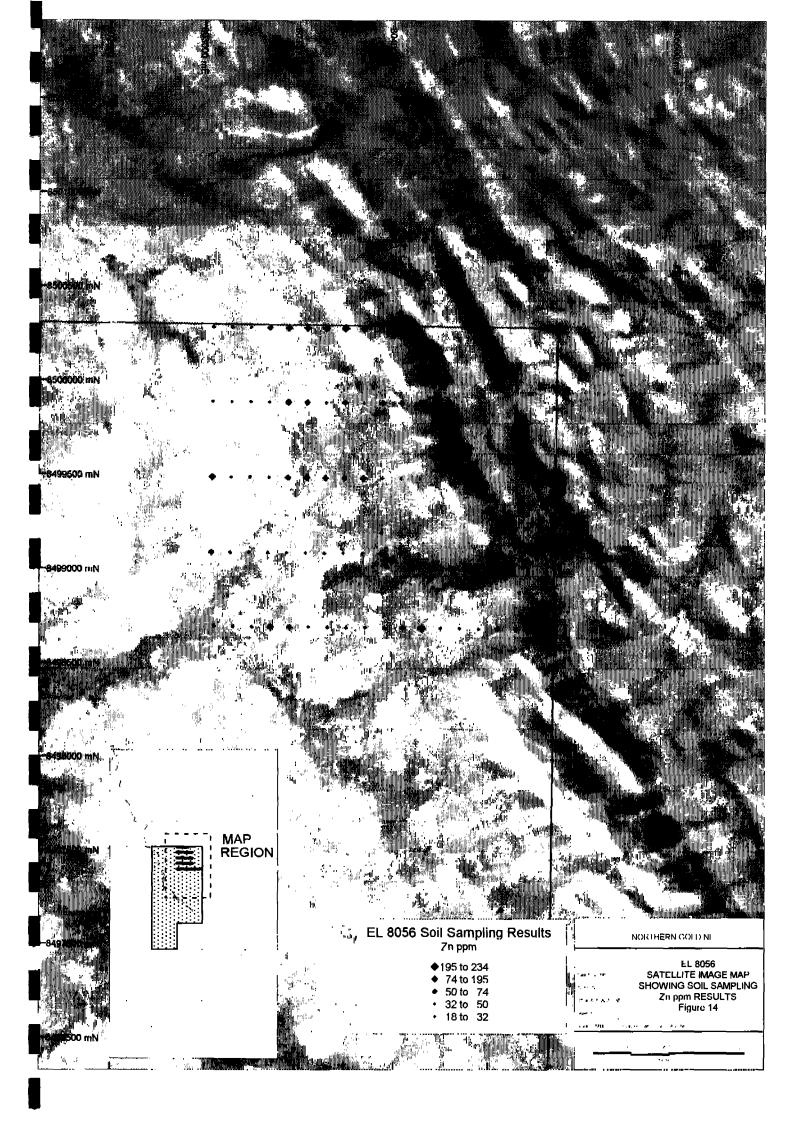
<u>8500500AM</u> GN	BQ2500ANGE	BQ3000ANGE	ВQ3500АМGE	BQ4000AMGE	BQ 4500 AMGE	ВОБОООАМСЕ	80000088 25M 5000MGE
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This is supported by the log probability plots. The data plot as two separate populations, indicating anomalous zones, deviating at a point of inflection, shown on the plots as a closed circle. It is inferred that the lower population represents the natural background for each element for the Pine Creek Geosyncline.

Deviations from the line in the upper 1% of the Cu and As, and in the lower 2% of the Zn probability plots, may be the result of problems with accurately plotting data or may represent a deviation from the interpreted population.

Histograms and log probability plots for Au, Cu, As, Pb, and Zn are given in Appendix 2.

# 4.3 Stream Sediment Sampling Program

Three stream sediment samples were collected from within the tenement (Figure 15). These samples were sent to Assaycorp, in Pine Creek, for BLEG assay technique and analysed for Au, As, Cu, Pb and Zn.

Table 2 EL 8056 Stream Sediment Sampling Locations

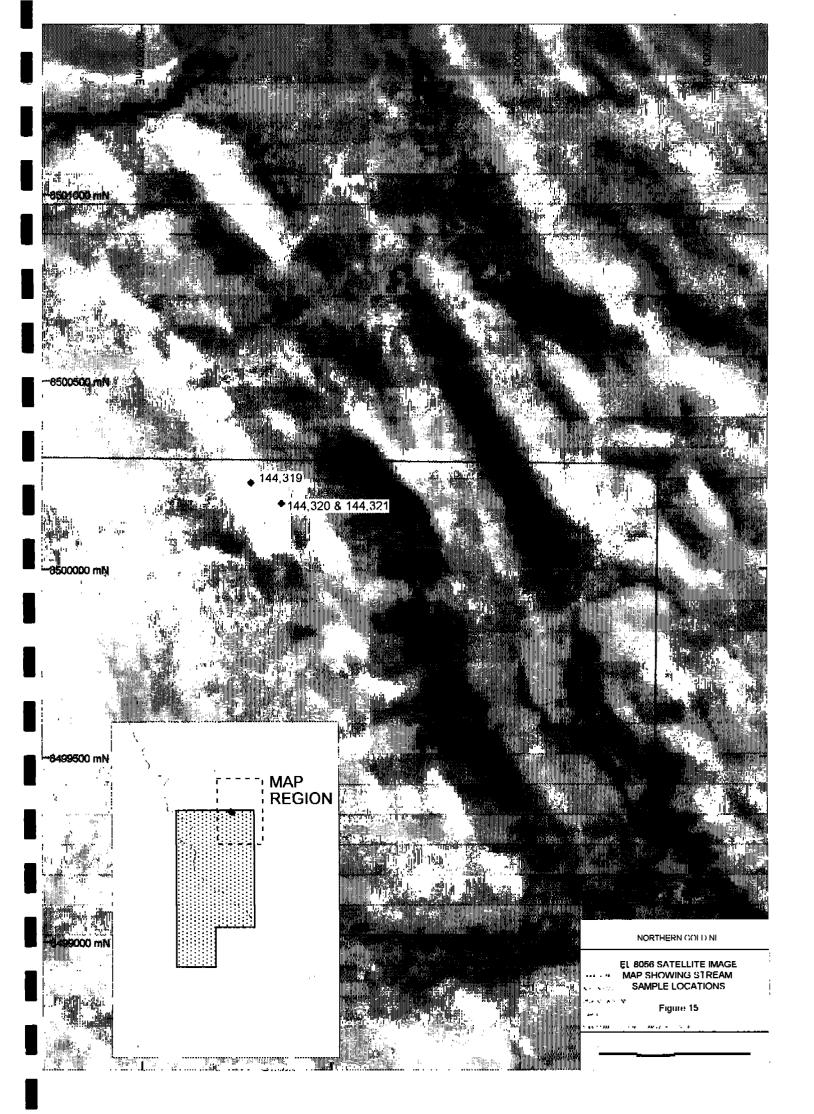
SAMPLE NO. EASTING (AMG)		NORTHING (AMG)	ASSAY TYPE
144319	803790.00	8500230.00	BLEG
144320	803870.00	8500175.00	BLEG
144321 (Duplicate)	803870.00	8500175.00	BLEG

#### 4.3.1 Stream Sediment Sampling Program Results

The results obtained from the stream sediment sampling were disappointing, with a peak result of 0.5 Au ppb returned. The base metal results indicate anomalous zinc and lead values within the north eastern block of the tenement.

Table 3 EL 8056 Stream Sediment Sampling Results

SAMPLE NO.	Au ppb	As ppm	Cu ppm	Zn ppm	Pb ppm
144319	0.50	22.00	37.00	395.00	203.00
144320	0.20	17.00	21.00	247.00	228.00
144321 (Duplicate)	0.40	16.00	22.00	247.00	236.00



#### 4.4 Conclusion

The results from the soil sampling program were generally disappointing with the highest value returned being 3 ppb Au (Sample No. 144287, 8499082N : 803535E). The results for all other elements analysed were poor.

The stream sediment sampling returned weak results, ranging from 0.2 ppb to 0.5 ppb Au.

Interpretation of the GIS and remote sensing imagery shows the McKinlay Granite intruding into the surrounding strata. The metamorphic aureole extends approximately 250 metres into the licence. In the north - east of the tenement, the folded sequence of Gerowie Tuff, Mount Bonnie Formation, Koolpin Formation and the Wildman Siltstone outcrop. The Burrell Creek Formation dominates the region.

Further soil sampling and geological mapping is required to fully assess the mineralisation potential within the licence.

# 5.0 1995/96 EXPENDITURE

Expenditure on EL 8056 during the 1995/96 year of tenure totaled \$12,990. Details of this expenditure are listed below as Table 4.

Table 4 EL 8056 1995/96 Expenditure

COSTS	AMOUNT
Assays	1,160
Sundry Expenses	440
Accomm.,Field, Travel Expenses	1,100
Consumables - Sampling etc.	2,030
Hire Charges	100
Motor Vehicle Charges and Fuel	1,295
AGSO Mapping	45
Satellite Imagery & Manipulation	165
GIS Manipulation	80
Tenement Management	370
Data Review	190
Report Compilation	385
Casual Wages	1,935
Salaries and Wages	2,000
Subtotal	11,295
Administration @ 15%	1,695
TOTAL	<u>\$12,990</u>

# 6.0 1996/97 PROPOSED WORK PROGRAM

Exploration work proposed for the 1996/97 year of tenure will include geological mapping, infill soil sampling and assaying.

An estimation of the cost of these programs is given below in Table 5.

Table 5 EL 8056 1996/97 Proposed Work Program

COSTS	AMOUNT
Geological Mapping	1,200
Infill Soil Sampling	2,000
Assaying	800
TOTAL	\$4,000

# 7.0 REFERENCES

- FAWCETT, C., (1995). EL 8056 Watts Creek, Annual Report, Year Two of Tenure, 15.09.94 14.09.95. Unpublished report by Territory Goldfields N.L. for the NTDME.
- HOSKING, A. J., (1994). Northern Territory Gold Mines N.L., Exploration Licences 8056/8161, Watts Creek. First Annual Report for Year Ending 14/09/93. Unpublished company report to the NTDME.

# **APPENDIX 1**

# Regional Soil Sampling Locations and Assay Results

144262   804750   8498676   2   21   BLEG   64   98   107   FeSol   144264   804550   8498678   1.7   7   BLEG   57   76   64   FeSol   144265   804450   8498678   1.7   7   BLEG   12   23   34   FeSol   144266   804350   8498680   0.8   7   BLEG   12   23   34   FeSol   144266   804350   8498680   0.8   7   BLEG   13   41   34   FeSol   144268   804450   8498681   0.3   3   BLEG   11   25   27   FeSol   144268   804450   8498681   0.3   3   BLEG   11   25   27   FeSol   144269   804650   8498681   0.3   7   BLEG   20   23   50   FeSol   144269   804650   8498683   0.4   7   BLEG   20   23   50   FeSol   144270   803850   8498684   0.5   5   BLEG   21   19   33   FeSol   144271   803850   8498685   0.6   3   BLEG   21   19   33   FeSol   144272   803750   8498686   0.4   2   BLEG   13   15   18   FeSol   144274   803550   8498687   0.4   2   BLEG   13   15   18   FeSol   144274   803550   8498688   0.6   10   BLEG   17   25   66   FeSol   144276   803450   8498689   0.10   0.005   8   BLEG   19   34   76   FeSol   144276   803450   8498689   0.5   6   BLEG   19   34   76   FeSol   144277   803250   8498699   0.005   8   BLEG   19   34   76   FeSol   144278   803150   8498699   0.5   6   BLEG   16   31   41   FeSol   144278   803150   8498699   0.5   6   BLEG   15   34   76   FeSol   144278   803150   8498699   0.5   6   BLEG   15   34   76   FeSol   144278   803150   8498699   0.5   5   BLEG   15   23   34   FeSol   144284   804135   8499076   0.005   7   BLEG   13   25   24   FeSol   144284   804135   8499076   0.005   7   BLEG   13   25   24   FeSol   144284   804353   8499076   0.005   7   BLEG   13   25   24   FeSol   144284   804353   8499078   0.005   7   BLEG   17   29   34   FeSol   144284   803355   8499080   0.005   7   BLEG   17   29   34   FeSol   144284   803355   8499080   0.005   7   BLEG   17   29   34   FeSol   144286   803335   8499080   0.005   7   BLEG   17   27   32   FeSol   144288   803335   8499080   0.005   7   BLEG   17   27   32   FeSol   144288   803335   8499080   0.005   7   BLEG	SAMPLE	EASTING	NORTHING	AU	AS	TYPE	CU	PB	ZN	SOIL TYPE
144264	144262	804750	8498676	2	21	BLEG	64	98	107	FeSol
144265	144263	804650	8498677	1.6	21	BLEG	57	76	64	FeSol
144266	144264	804550	8498678	1.7	7	BLEG	19	33	61	FeSol
144267	144265	804450	8498679	0.9	4	BLEG	12	23	34	FeSol
144268	144266	804350	8498680	0.8	7	BLEG	13	41	34	FeSol
144269	144267	804250	8498681	0.3	3	BLEG	11	25	27	FeSol
144270	144268	804150	8498682	0.3	7	BLEG	13	64	217	FeSol
144271	144269	804050	8498683	0.4	7	BLEG	20	23	50	FeSol
144271				0.5	5					
144272		803850	-		3	BLEG	19	17		
144273								15		
144274				0.4						
144275										
144276   803350   8498690   0.005   8   BLEG   19   34   76   FeSol   144277   803250   8498691   0.5   6   BLEG   16   31   41   FeSol   144278   803150   8498692   0.2   5   BLEG   15   28   34   FeSol   144278   803150   8498693   0.6   5   BLEG   18   30   40   FeSol   144280   804135   8499076   0.005   7   BLEG   13   25   24   FeSol   144281   804135   8499076   0.3   10   BLEG   13   25   20   FeSol   144282   804335   8499077   0.5   5   BLEG   11   24   27   FeSol   144284   803835   8499078   1.4   9   BLEG   14   34   50   FeSol   144284   803835   8499079   0.005   6   BLEG   20   20   33   FeSol   144286   803835   8499080   0.005   7   BLEG   17   29   34   FeSol   144286   803835   8499080   0.005   7   BLEG   17   29   34   FeSol   144288   803355   8499080   0.005   7   BLEG   13   18   38   FeSol   144288   803355   8499080   0.005   7   BLEG   13   18   38   FeSol   144288   803335   8499081   0.005   7   BLEG   13   18   38   FeSol   144288   803335   8499081   0.005   7   BLEG   14   22   32   FeSol   144288   803335   8499083   0.005   5   BLEG   14   22   32   FeSol   144289   803335   8499084   0.005   5   BLEG   14   26   39   44   FeSol   144290   803335   8499086   0.005   5   BLEG   17   31   44   FeSol   144291   803135   8499086   0.005   5   BLEG   17   31   44   FeSol   144291   803135   8499086   0.005   5   BLEG   17   31   44   FeSol   144292   803335   8499087   0.5   6   BLEG   16   56   64   FeSol   144292   803339   8499476   0.4   9   BLEG   17   27   32   FeSol   144294   804039   8499477   1   12   BLEG   18   37   39   FeSol   144296   803839   8499476   0.4   9   BLEG   17   27   32   FeSol   144296   803839   8499478   0.5   6   BLEG   18   46   44   FeSol   144296   803839   8499478   0.5   6   BLEG   23   55   FeSol   144300   803439   8499480   0.005   7   BLEG   22   35   52   FeSol   144300   803439   8499480   0.005   7   BLEG   22   35   52   FeSol   144300   803439   8499480   0.005   2   BLEG   19   15   39   FeSol   144300   803439   8499480   0.005   2										
144277										
144278										
144279										
144280										
144281   804135   8499076   0.3   10   BLEG   13   25   20   FeSol   144282   804035   8499077   0.5   5   BLEG   11   24   27   FeSol   144283   803935   8499078   1.4   9   BLEG   14   34   50   FeSol   144284   803835   8499079   0.005   6   BLEG   20   20   33   FeSol   144285   803735   8499080   0.005   7   BLEG   17   29   34   FeSol   144286   803635   8499081   0.005   7   BLEG   13   18   38   FeSol   144287   803535   8499082   3   2   BLEG   14   22   32   FeSol   144288   803435   8499084   0.005   5   BLEG   18   29   44   FeSol   144289   803335   8499084   0.005   5   BLEG   14   26   19   FeSol   144290   803235   8499085   0.005   5   BLEG   14   26   19   FeSol   144291   803135   8499086   0.005   5   BLEG   14   46   28   FeSol   144291   803135   8499087   0.05   5   BLEG   14   46   28   FeSol   144292   803035   8499087   0.5   6   BLEG   14   46   28   FeSol   144294   804039   8499476   0.4   9   BLEG   17   27   32   FeSol   144296   803838   8499476   0.4   9   BLEG   18   37   39   FeSol   144296   803839   8499478   1   16   BLEG   18   46   44   FeSol   144296   803839   8499479   0.5   16   BLEG   23   67   80   FeSol   144298   803639   8499481   0.2   6   BLEG   21   29   59   FeSol   144298   803639   8499481   0.2   6   BLEG   21   32   55   FeSol   144300   803439   8499481   0.2   6   BLEG   21   32   55   FeSol   144300   803439   8499480   0.005   7   BLEG   21   32   55   FeSol   144301   803439   8499480   0.005   2   BLEG   21   32   55   FeSol   144304   803139   8499480   0.005   2   BLEG   21   32   55   FeSol   144304   803139   8499486   0.005   2   BLEG   21   34   57   FeSol   144304   803139   8499486   0.005   2   BLEG   21   34   57   FeSol   144304   803139   8499486   0.005   2   BLEG   21   34   57   FeSol   144304   803139   8499486   0.005   2   BLEG   21   34   57   FeSol   144306   80443   849987   0.005   2   BLEG   21   34   57   FeSol   144306   80443   849987   0.005   2   BLEG   21   34   67   FeSol   144306   80443   849987   0.005   2   BLEG										
144282   804035   8499077   0.5   5   BLEG					-					
144283   803935   8499078   1.4   9   BLEG										
144284         803835         8499079         0.005         6 BLEG         20         20         33 FeSol           144285         803735         8499080         0.005         7 BLEG         17         29         34 FeSol           144286         803635         8499081         0.005         7 BLEG         13         18         38 FeSol           144287         803535         8499082         3         2 BLEG         14         22         32 FeSol           144288         803435         8499083         0.005         5 BLEG         18         29         44 FeSol           144290         803235         8499086         0.005         4 BLEG         14         26         19 FeSol           144291         803135         8499086         0.005         5 BLEG         17         31         44 FeSol           144292         803035         8499087         0.5         6 BLEG         16         56         64 FeSol           144293         804139         8499476         0.4         9 BLEG         17         27         32 FeSol           144294         804039         8499477         1         12 BLEG         18         37         39 FeSol      <										
144285         803735         8499080         0.005         7 BLEG         17         29         34 FeSol           144286         803635         8499081         0.005         7 BLEG         13         18         38 FeSol           144287         803635         8499082         3         2 BLEG         14         22         32 FeSol           144288         803335         8499084         0.005         4 BLEG         14         26         19 FeSol           144289         803335         8499085         0.005         5 BLEG         17         31         44 FeSol           144290         803235         8499086         0.005         5 BLEG         17         31         44 FeSol           144291         803135         8499087         0.5         6 BLEG         16         56         64 FeSol           144292         803035         8499087         0.5         6 BLEG         16         56         64 FeSol           144293         804139         8499477         1         12 BLEG         18         37         39 FeSol           144294         804039         8499478         1         16 BLEG         18         46         44 FeSol										
144266         803635         8499081         0.005         7         BLEG         13         18         38         FeSol           144287         803535         8499082         3         2         BLEG         14         22         32         FeSol           144288         803435         8499084         0.005         5         BLEG         18         29         44         FeSol           144290         803335         8499084         0.005         4         BLEG         17         23         14         4FeSol           144291         803135         8499086         0.005         2         BLEG         17         31         44         FeSol           144291         803135         8499087         0.5         6         BLEG         16         56         64         FeSol           144292         803035         8499476         0.4         9         BLEG         17         27         32         FeSol           144294         804039         8499477         1         12         BLEG         18         37         39         FeSol           144296         803639         8499481         0.5         16         BLEG <td></td>										
144287         803535         8499082         3         2         BLEG         14         22         32         FeSol           144288         803435         8499083         0.005         5         BLEG         18         29         44         FeSol           144289         803335         8499084         0.005         4         BLEG         14         26         19         FeSol           144290         803235         8499085         0.005         5         BLEG         17         31         44         FeSol           144291         803135         8499087         0.5         6         BLEG         16         56         64         FeSol           144293         804139         8499476         0.4         9         BLEG         17         27         32         FeSol           144294         804039         8499477         1         12         BLEG         18         37         39         FeSol           144294         803639         8499481         1         16         BLEG         23         67         80         FeSol           144296         803839         8499481         0.2         6         BLEG										
144288         803435         8499083         0.005         5         BLEG         18         29         44         FeSol           144289         803335         8499084         0.005         4         BLEG         14         26         19         FeSol           144290         803235         8499085         0.005         5         BLEG         17         31         44         FeSol           144291         803135         8499087         0.5         6         BLEG         16         56         64         FeSol           144292         803035         8499087         0.5         6         BLEG         17         27         32         FeSol           144294         804039         8499476         0.4         9         BLEG         17         27         32         FeSol           144294         804039         8499477         1         12         BLEG         18         37         39         FeSol           144296         803839         8499481         1         16         BLEG         23         67         80         FeSol           144298         803639         8499481         0.2         6         BLEG										
144289         803335         8499084         0.005         4         BLEG         14         26         19         FeSol           144290         803235         8499085         0.005         5         BLEG         17         31         44         FeSol           144291         803135         8499086         0.005         2         BLEG         14         46         28         FeSol           144292         803035         8499087         0.5         6         BLEG         16         56         64         FeSol           144293         804139         8499476         0.4         9         BLEG         17         27         32         FeSol           144294         804039         8499478         1         16         BLEG         18         46         44         FeSol           144296         803839         8499479         0.5         16         BLEG         23         67         80         FeSol           144297         803739         8499480         0.005         7         BLEG         22         35         52         FeSol           144298         803639         8499481         0.2         3         BLEG </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td>							_			
144290         803235         8499085         0.005         5         BLEG         17         31         44         FeSol           144291         803135         8499086         0.005         2         BLEG         14         46         28         FeSol           144292         803035         8499087         0.5         6         BLEG         16         56         64         FeSol           144293         804139         8499476         0.4         9         BLEG         17         27         32         FeSol           144294         804039         8499478         1         16         BLEG         18         46         44         FeSol           144295         803839         8499479         0.5         16         BLEG         23         67         80         FeSol           144296         803639         8499480         0.005         7         BLEG         22         35         52         FeSol           144297         803739         8499481         0.2         6         BLEG         21         29         59         FeSol           144298         803639         8499482         0.2         3         BLEG <td></td>										
144291         803135         8499086         0.005         2         BLEG         14         46         28         FeSol           144292         803035         8499087         0.5         6         BLEG         16         56         64         FeSol           144293         804139         8499476         0.4         9         BLEG         17         27         32         FeSol           144294         804039         8499477         1         12         BLEG         18         37         39         FeSol           144295         803939         8499479         0.5         16         BLEG         23         67         80         FeSol           144297         803739         8499480         0.005         7         BLEG         22         35         52         FeSol           144298         803639         8499481         0.2         6         BLEG         21         29         59         FeSol           144300         803439         8499483         0.005         4         BLEG         21         32         55         FeSol           144301         803439         8499484         0.005         2         BLEG </td <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td>					•					
144292         803035         8499087         0.5         6         BLEG         16         56         64         FeSol           144293         804139         8499476         0.4         9         BLEG         17         27         32         FeSol           144294         804039         8499477         1         12         BLEG         18         37         39         FeSol           144295         803939         8499478         1         16         BLEG         18         46         44         FeSol           144296         803839         8499480         0.005         7         BLEG         23         67         80         FeSol           144297         803739         8499481         0.2         6         BLEG         21         29         59         FeSol           144298         803639         8499482         0.2         3         BLEG         21         29         59         FeSol           144299         803539         8499483         0.005         4         BLEG         21         32         55         FeSol           144300         803439         8499483         0.005         3         BLEG										
144293         804139         8499476         0.4         9 BLEG         17         27         32 FeSol           144294         804039         8499477         1         12 BLEG         18         37         39 FeSol           144295         803939         8499478         1         16 BLEG         18         46         44 FeSol           144296         803839         8499479         0.5         16 BLEG         23         67         80 FeSol           144297         803739         8499480         0.005         7 BLEG         22         35         52 FeSol           144298         803639         8499481         0.2         6 BLEG         21         29         59 FeSol           144299         803539         8499482         0.2         3 BLEG         22         54         94 FeSol           144300         803439         8499483         0.005         4 BLEG         21         32         55 FeSol           144301         803339         8499484         0.005         2 BLEG         19         15         39 FeSol           144302         803339         8499485         0.005         2 BLEG         15         9         32 FeSol										
144294         804039         8499477         1         12         BLEG         18         37         39         FeSol           144295         803939         8499478         1         16         BLEG         18         46         44         FeSol           144296         803839         8499479         0.5         16         BLEG         23         67         80         FeSol           144297         803739         8499480         0.005         7         BLEG         22         35         52         FeSol           144298         803639         8499481         0.2         6         BLEG         21         29         59         FeSol           144299         803539         8499482         0.2         3         BLEG         21         29         59         FeSol           144300         803439         8499483         0.005         4         BLEG         21         32         55         FeSol           144301         803439         8499483         0.005         2         BLEG         21         34         57         FeSol           144302         803339         8499484         0.005         2         BLEG <td></td>										
144295         803939         8499478         1         16         BLEG         18         46         44         FeSol           144296         803839         8499479         0.5         16         BLEG         23         67         80         FeSol           144297         803739         8499480         0.005         7         BLEG         22         35         52         FeSol           144298         803639         8499481         0.2         6         BLEG         21         29         59         FeSol           144299         803539         8499482         0.2         3         BLEG         21         29         59         FeSol           144300         803439         8499483         0.005         4         BLEG         21         32         55         FeSol           144301         803439         8499483         0.005         3         BLEG         21         34         57         FeSol           144302         803339         8499484         0.005         2         BLEG         19         15         39         FeSol           144303         803139         8499486         0.005         2         BLEG										
144296         803839         8499479         0.5         16         BLEG         23         67         80 FeSol           144297         803739         8499480         0.005         7         BLEG         22         35         52 FeSol           144298         803639         8499481         0.2         6         BLEG         21         29         59 FeSol           144299         803539         8499482         0.2         3         BLEG         22         54         94 FeSol           144300         803439         8499483         0.005         4         BLEG         21         32         55 FeSol           144301         803439         8499483         0.005         3         BLEG         21         34         57 FeSol           144302         803339         8499484         0.005         2         BLEG         19         15         39 FeSol           144303         803239         8499485         0.005         2         BLEG         15         9         32 FeSol           144304         803139         8499486         0.005         2         BLEG         21         18         46 FeSol           144306         804143<										
144297       803739       8499480       0.005       7 BLEG       22       35       52 FeSol         144298       803639       8499481       0.2       6 BLEG       21       29       59 FeSol         144299       803539       8499482       0.2       3 BLEG       22       54       94 FeSol         144300       803439       8499483       0.005       4 BLEG       21       32       55 FeSol         144301       803439       8499483       0.005       3 BLEG       21       34       57 FeSol         144302       803339       8499484       0.005       2 BLEG       19       15       39 FeSol         144303       803239       8499485       0.005       2 BLEG       15       9       32 FeSol         144304       803139       8499486       0.005       2 BLEG       21       18       46 FeSol         144305       803039       8499487       0.005       0.005 BLEG       16       44       75 FeSol         144306       804143       8499876       0.8       6 BLEG       26       108       118 FeSol         144307       804043       8499879       0.2       5 BLEG       16				-						
144298         803639         8499481         0.2         6 BLEG         21         29         59 FeSol           144299         803539         8499482         0.2         3 BLEG         22         54         94 FeSol           144300         803439         8499483         0.005         4 BLEG         21         32         55 FeSol           144301         803439         8499483         0.005         3 BLEG         21         34         57 FeSol           144302         803339         8499484         0.005         2 BLEG         19         15         39 FeSol           144303         803239         8499485         0.005         2 BLEG         15         9         32 FeSol           144304         803139         8499486         0.005         2 BLEG         21         18         46 FeSol           144305         803039         8499487         0.005         0.005 BLEG         16         44         75 FeSol           144306         804143         8499876         0.8         6 BLEG         26         108         118 FeSol           144307         804043         8499879         0.2         5 BLEG         16         75         68 FeSol <td></td>										
144299       803539       8499482       0.2       3 BLEG       22       54       94 FeSol         144300       803439       8499483       0.005       4 BLEG       21       32       55 FeSol         144301       803439       8499483       0.005       3 BLEG       21       34       57 FeSol         144302       803339       8499484       0.005       2 BLEG       19       15       39 FeSol         144303       803239       8499485       0.005       2 BLEG       15       9       32 FeSol         144304       803139       8499486       0.005       2 BLEG       21       18       46 FeSol         144305       803039       8499487       0.005       0.005 BLEG       16       44       75 FeSol         144306       804143       8499876       0.8       6 BLEG       26       108       118 FeSol         144307       804043       8499877       0.005       12 BLEG       16       79       70 FeSol         144308       803943       8499878       0.4       11 BLEG       16       75       68 FeSol         144310       803743       8499880       0.4       5 BLEG       19 <t< td=""><td>144297</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	144297									
144300       803439       8499483       0.005       4 BLEG       21       32       55 FeSol         144301       803439       8499483       0.005       3 BLEG       21       34       57 FeSol         144302       803339       8499484       0.005       2 BLEG       19       15       39 FeSol         144303       803239       8499485       0.005       2 BLEG       15       9       32 FeSol         144304       803139       8499486       0.005       2 BLEG       21       18       46 FeSol         144305       803039       8499487       0.005       0.005 BLEG       16       44       75 FeSol         144306       804143       8499876       0.8       6 BLEG       26       108       118 FeSol         144307       804043       8499877       0.005       12 BLEG       16       79       70 FeSol         144308       803943       8499878       0.4       11 BLEG       16       75       68 FeSol         144310       803743       8499880       0.4       5 BLEG       19       59       58 FeSol         144311       803643       8499881       0.4       BLEG       17										
144301       803439       8499483       0.005       3 BLEG       21       34       57 FeSol         144302       803339       8499484       0.005       2 BLEG       19       15       39 FeSol         144303       803239       8499485       0.005       2 BLEG       15       9 32 FeSol         144304       803139       8499486       0.005       2 BLEG       21       18       46 FeSol         144305       803039       8499487       0.005       0.005 BLEG       16       44       75 FeSol         144306       804143       8499876       0.8       6 BLEG       26       108       118 FeSol         144307       804043       8499877       0.005       12 BLEG       16       79       70 FeSol         144308       803943       8499878       0.4       11 BLEG       16       75       68 FeSol         144309       803843       8499879       0.2       5 BLEG       19       59       58 FeSol         144310       803743       8499880       0.4       5 BLEG       17       39       44 FeSol         144312       803543       8499881       0.4       4 BLEG       17       39       <							<u> </u>			
144302       803339       8499484       0.005       2 BLEG       19       15       39 FeSol         144303       803239       8499485       0.005       2 BLEG       15       9 32 FeSol         144304       803139       8499486       0.005       2 BLEG       21       18       46 FeSol         144305       803039       8499487       0.005       0.005 BLEG       16       44       75 FeSol         144306       804143       8499876       0.8       6 BLEG       26       108       118 FeSol         144307       804043       8499877       0.005       12 BLEG       16       79       70 FeSol         144308       803943       8499878       0.4       11 BLEG       16       75       68 FeSol         144309       803843       8499879       0.2       5 BLEG       16       45       28 FeSol         144310       803743       8499880       0.4       5 BLEG       17       39       44 FeSol         144312       803543       8499881       0.4       4 BLEG       17       39       44 FeSol         15       75       75       75       75       75       75       75 <td< td=""><td>144300</td><td>803439</td><td></td><td>0.005</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	144300	803439		0.005						
144303       803239       8499485       0.005       2 BLEG       15       9 32 FeSol         144304       803139       8499486       0.005       2 BLEG       21       18       46 FeSol         144305       803039       8499487       0.005       0.005 BLEG       16       44       75 FeSol         144306       804143       8499876       0.8       6 BLEG       26       108       118 FeSol         144307       804043       8499877       0.005       12 BLEG       16       79       70 FeSol         144308       803943       8499878       0.4       11 BLEG       16       75       68 FeSol         144309       803843       8499879       0.2       5 BLEG       16       45       28 FeSol         144310       803743       8499880       0.4       5 BLEG       19       59       58 FeSol         144311       803643       8499881       0.4       4 BLEG       17       39       44 FeSol         144312       803543       8499882       0.8       5 BLEG       23       37       64 FeSol	144301	803439		0.005						
144304       803139       8499486       0.005       2 BLEG       21       18       46 FeSol         144305       803039       8499487       0.005       0.005 BLEG       16       44       75 FeSol         144306       804143       8499876       0.8       6 BLEG       26       108       118 FeSol         144307       804043       8499877       0.005       12 BLEG       16       79       70 FeSol         144308       803943       8499878       0.4       11 BLEG       16       75       68 FeSol         144309       803843       8499879       0.2       5 BLEG       16       45       28 FeSol         144310       803743       8499880       0.4       5 BLEG       19       59       58 FeSol         144311       803643       8499881       0.4       4 BLEG       17       39       44 FeSol         144312       803543       8499882       0.8       5 BLEG       23       37       64 FeSol	144302	803339	8499484	0.005	2	BLEG	19		39	FeSol
144305         803039         8499487         0.005         0.005         BLEG         16         44         75         FeSol           144306         804143         8499876         0.8         6         BLEG         26         108         118         FeSol           144307         804043         8499877         0.005         12         BLEG         16         79         70         FeSol           144308         803943         8499878         0.4         11         BLEG         16         75         68         FeSol           144309         803843         8499879         0.2         5         BLEG         16         45         28         FeSol           144310         803743         8499880         0.4         5         BLEG         19         59         58         FeSol           144311         803643         8499881         0.4         4         BLEG         17         39         44         FeSol           144312         803543         8499882         0.8         5         BLEG         23         37         64         FeSol	144303	803239	8499485	0.005	2	BLEG	15			FeSol
144306       804143       8499876       0.8       6       BLEG       26       108       118       FeSol         144307       804043       8499877       0.005       12       BLEG       16       79       70       FeSol         144308       803943       8499878       0.4       11       BLEG       16       75       68       FeSol         144309       803843       8499879       0.2       5       BLEG       16       45       28       FeSol         144310       803743       8499880       0.4       5       BLEG       19       59       58       FeSol         144311       803643       8499881       0.4       4       BLEG       17       39       44       FeSol         144312       803543       8499882       0.8       5       BLEG       23       37       64       FeSol	144304	803139	8499486	0.005	2	BLEG	21	18	46	FeSol
144307       804043       8499877       0.005       12       BLEG       16       79       70       FeSol         144308       803943       8499878       0.4       11       BLEG       16       75       68       FeSol         144309       803843       8499879       0.2       5       BLEG       16       45       28       FeSol         144310       803743       8499880       0.4       5       BLEG       19       59       58       FeSol         144311       803643       8499881       0.4       4       BLEG       17       39       44       FeSol         144312       803543       8499882       0.8       5       BLEG       23       37       64       FeSol	144305	803039	8499487	0.005	0.005	BLEG	16	44	75	FeSol
144307       804043       8499877       0.005       12 BLEG       16 79 70 FeSol         144308       803943       8499878       0.4 11 BLEG       16 75 68 FeSol         144309       803843       8499879       0.2 5 BLEG       16 45 28 FeSol         144310       803743       8499880       0.4 5 BLEG       19 59 58 FeSol         144311       803643       8499881       0.4 4 BLEG       17 39 44 FeSol         144312       803543       8499882       0.8 5 BLEG       23 37 64 FeSol	144306	804143	8499876	0.8	6	BLEG	26	108	118	FeSol
144308       803943       8499878       0.4       11 BLEG       16       75       68 FeSol         144309       803843       8499879       0.2       5 BLEG       16       45       28 FeSol         144310       803743       8499880       0.4       5 BLEG       19       59       58 FeSol         144311       803643       8499881       0.4       4 BLEG       17       39       44 FeSol         144312       803543       8499882       0.8       5 BLEG       23       37       64 FeSol				0.005	12	BLEG	16	79	70	FeSol
144309       803843       8499879       0.2       5 BLEG       16       45       28 FeSol         144310       803743       8499880       0.4       5 BLEG       19       59       58 FeSol         144311       803643       8499881       0.4       4 BLEG       17       39       44 FeSol         144312       803543       8499882       0.8       5 BLEG       23       37       64 FeSol							16	75	68	FeSol
144310     803743     8499880     0.4     5 BLEG     19     59     58 FeSol       144311     803643     8499881     0.4     4 BLEG     17     39     44 FeSol       144312     803543     8499882     0.8     5 BLEG     23     37     64 FeSol										
144311     803643     8499881     0.4     4     BLEG     17     39     44     FeSol       144312     803543     8499882     0.8     5     BLEG     23     37     64     FeSol								59	58	FeSol
144312 803543 8499882 0.8 5 BLEG 23 37 64 FeSol										
									<b>↓</b>	
	144313		8499883	0.4			20			

# EL 8056 SOIL SAMPLING

144314	803343	8499884	0.4	0.005	BLEG	15	22	37	FeSol
144315	803243	8499885	0.2	0.005	BLEG	12	17	22	FeSol
144316	803143	8499886	0.4	2	BLEG	13	12	25	FeSol
144317	803043	8499887	0.6	1	BLEG	15	12	26	FeSol
144322	803845	8500276	0.6	10	BLEG	22	136	195	FeSol
144323	803745	8500277	1.1	12	BLEG	22	91	234	FeSol
144324	803645	8500278	0.6	6	BLEG	21	93	119	FeSol
144325	803545	8500279	1.1	7	BLEG	17	60	80	FeSol
144326	803445	8500280	1.1	6	BLEG	24	41	74	FeSol
144327	803345	8500281	0.6	_ 4	BLEG	19	29	51	FeSol
144328	803245	8500282	0.5	1	BLEG	15	19	27	FeSol
144329	803145	8500283	0.2	5	BLEG	16	15	25	FeSol
144330	803045	8500284	0.4	_ 3	BLEG	16	33	24	FeSol

# **APPENDIX 2**

Summary Statistics Histograms and Log Probability Plots for the Regional Soil Sampling Results

