

Partial Surrender Report  
for EL30/2004 Warrentinna  
for the Period 26 November 2004 to 25 November 2009

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## **ABSTRACT**

EL30/2004 Warrentinna is located 60km north-east of Launceston in north-east Tasmania and covers Mathinna Group meta-sediments. The company's main focus was gold mineralisation, however other styles of mineralisation are present within the licence area.

Work completed during the period in the area surrendered comprised soil sampling. Results of soil sampling were considered subdued.

## **KEYWORDS**

Geology/Mineralisation

Mathinna Group

Minerals

Gold

Deposits/Occurrences

Kerrisons

## **COORDINATES**

All lat/long co-ordinates in this report refer to the AGD66 Datum

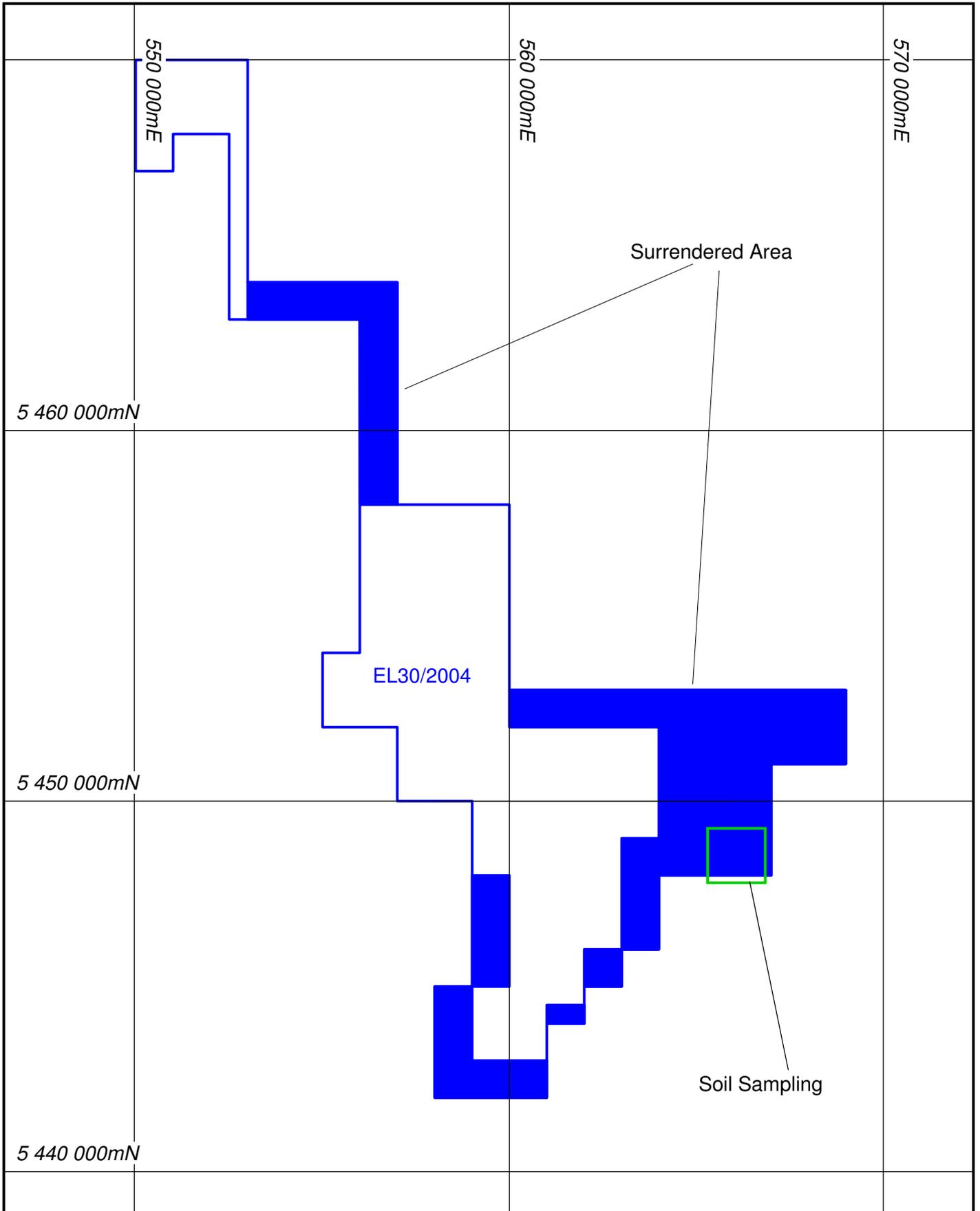
All AMG co-ordinates in this report refer to the AGD66 Datum - Zone55

## FILE SUMMARY LIST

File Name	Format	Contents
el302004_200912_01_report	pdf	report
el302004_200912_02_geochem	txt	data

### **SUMMARY OF ACTIVITIES FOR PARTIAL SURRENDER OF EL30/2004 WARRENTINNA FOR THE PERIOD 26 NOVEMBER 2004 TO 25 NOVEMBER 2009**

- Soil Sampling



AGD66-ZONE55



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GREATLAND PTY LTD  
EL30/2004 WARRENTINNA  
Exploration Index Map  
Partial Surrender

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## 1.0 Introduction

This report details the exploration activities completed within the surrendered area of EL30/2004 during the period 26 November 2004 to 25 November 2009. The lease is located 60km north-east of Launceston in north-east Tasmania.

The surrendered tenement area covers Mathinna Group meta-sediments. The company's main focus was gold mineralisation, however other styles of mineralisation are present within the licence area.

Work completed during the period comprised soil sampling.

## 2.0 Tenement Details

EL30/2004 Warrentinna was applied for by Greatland Pty Ltd during April 2004 and was granted during November 2004. The surrendered area covers 44 square kilometres. Tenement details are shown in Table 1.

Table 1 – Tenement Details

Tenement	Holder	Date Applied	Date Granted	Surrendered Area
EL30/2004 Warrentinna	Greatland Pty Ltd 100%	5 Apr 2004	26 Nov 2004	44km <sup>2</sup>

## 3.0 Location and Access

EL30/2004 Warrentinna is located 60km north-east of Launceston in north-east Tasmania (Figure 1). It lies some 20km north-east of the town of Scottsdale. The tenement forms the south and eastern parts of the Company's Warrentinna project (Figure 2). The bulk of land within the

tenement is logged state forest, with only the northern and southern extremities covering private farming land.

The project lies within the Tasmania NE (SK55-21) 1:250,000 map sheet, and straddles the 1:100,000 map sheets of Forester (8415) and Cape Portland (8416).

From Launceston, access to the project area is by sealed road to Branxholm via Scottsdale, then into the tenements via the formed Warrentinna-Forester road. Logging tracks and local roads provide good access within the project area.

#### **4.0 Geology and Mineralisation**

The Warrentinna project area covers Mathinna Group rocks (Figure 3) which comprise metamorphosed sandstones, siltstones and mudstones of late Cambrian to Early Devonian age. The Mathinna Group metasediments, together with intrusive Devonian granites, cover much of the north eastern parts of Tasmania and are considered to be equivalent to rocks of the Melbourne Trough which host the bulk of Victoria's gold mineralisation. Goldfields in north eastern Tasmania hosted by the Mathinna group or adjacent rocks of the same age include Beaconsfield, Lefroy, Mangana, Mathinna, Alberton, Warrentinna, Forester, Waterhouse, Scamander and Portland (Figure 2).

#### **5.0 Previous Exploration**

Previous exploration activities in the area surrendered was carried out by Texins Development Pty Ltd (Rattigan, 1969), Australian Anglo American Ltd (Shaw, 1985), Billiton Australia Ltd (Randell, 1991), Herald Resources Ltd (Turner, 1996) and Tasmania Department of Mines (Mineral Resources Tasmania, 2006).

Relevant aeromagnetic and radiometric surveys were flown by Placeco Australia Pty Ltd in 1987 (Davidson and Hofto, 1988) and the Tasmanian Geological Survey in 2007. Interpretation of the data sets was completed by Leaman (1994) and Godbear (2008).

The reader is referred to these reports.

## **6.0 Work Carried Out During the Tenure Period**

Work completed during the tenure period in the area surrendered comprised soil sampling at an area known as Kerrisons.

### *Soil Sampling*

A total of 84 soil samples were collected from the Kerrisons area. Samples were collected to follow up a drainage anomaly outlined by compilation of previous exploration data. Samples were collected over four traverses with samples collected every 50m along each traverse. Material was taken from a depth of around 150mm, and coarse screened to -10mm; approximately 2kg of -10mm material was collected at each site.

All samples were sent to Genalysis Laboratories in Adelaide/Perth for screening to -180micron (-80mesh) then analysis of Au, Ag, As, Bi, Co, Cu, Pb, Sb, W and Zn to detection limits of 0.0001, 0.05, 1, 0.01, 0.1, 1, 1, 0.02, 0.05 and 1ppm respectively. Gold analysis was by Aqua Regia digest with an enhanced sensitivity AAS read (lab code B/EETA). Cu and Zn were by Aqua Regia digest with an AAS read (lab code B/AAS) while all other elements were by Aqua Regia digest with a mass spectrometry read (lab code B/MS).

Maximum results were 6.5ppb Au, 0.44ppm Ag, 149ppm As, 0.38ppm Bi, 49.2ppm Co, 53ppm Cu, 15ppm Pb, 0.79ppm Sb, 0.57ppm W and 108ppm Zn. All sample results are presented in Appendix I and locations are shown in Figure 4.

Results from Kerrisons were considered subdued.

## **7.0 Conclusions**

EL30/2004 Warrentinna is located 60km north-east of Launceston in north-east Tasmania and covers Mathinna Group meta-sediments. The company's main focus was gold mineralisation, however other styles of mineralisation are present within the licence area.

Work completed during the period in the area surrendered comprised soil sampling. Results of soil sampling were considered subdued.

## **References**

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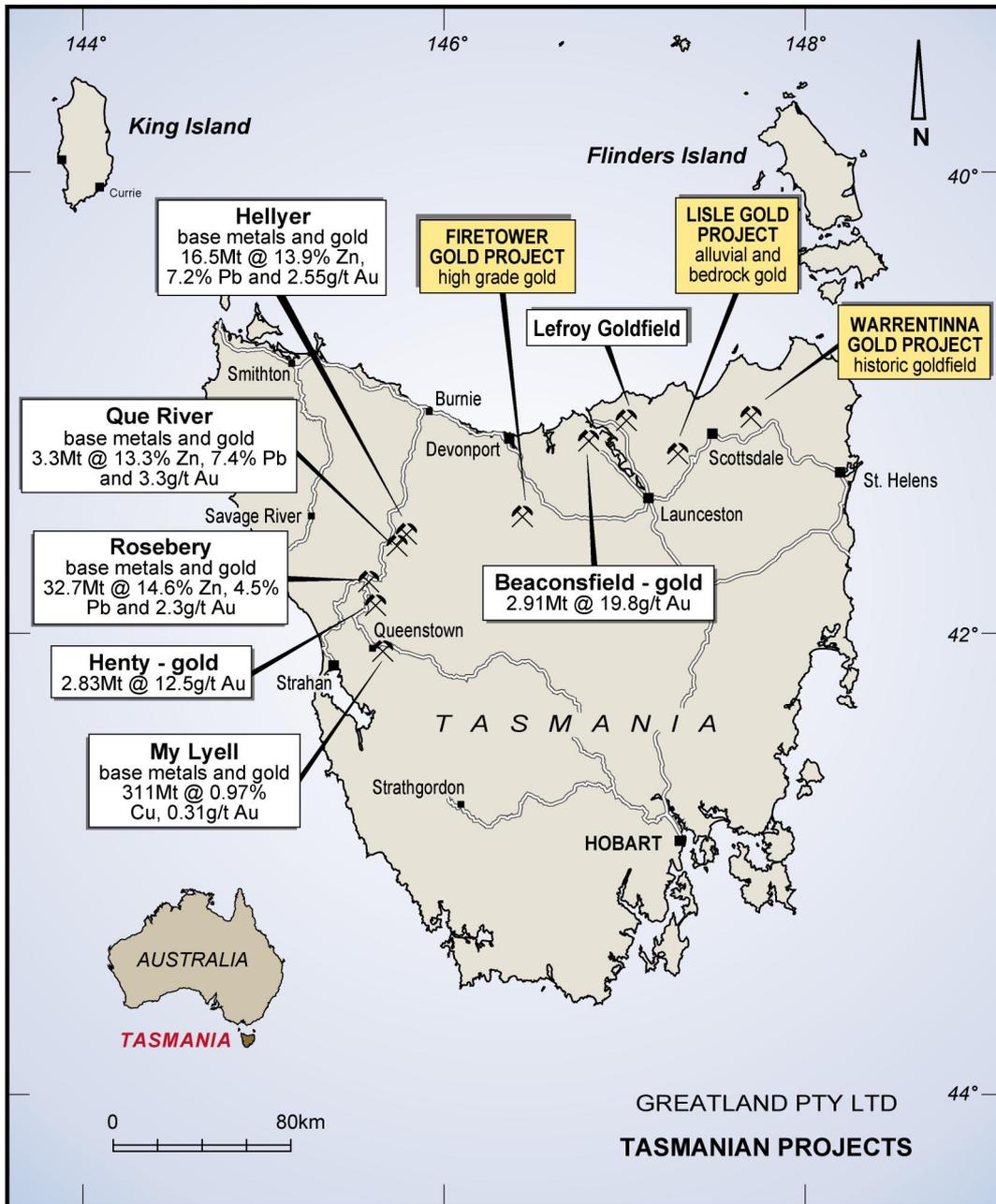


Figure 1 – Project Location Map

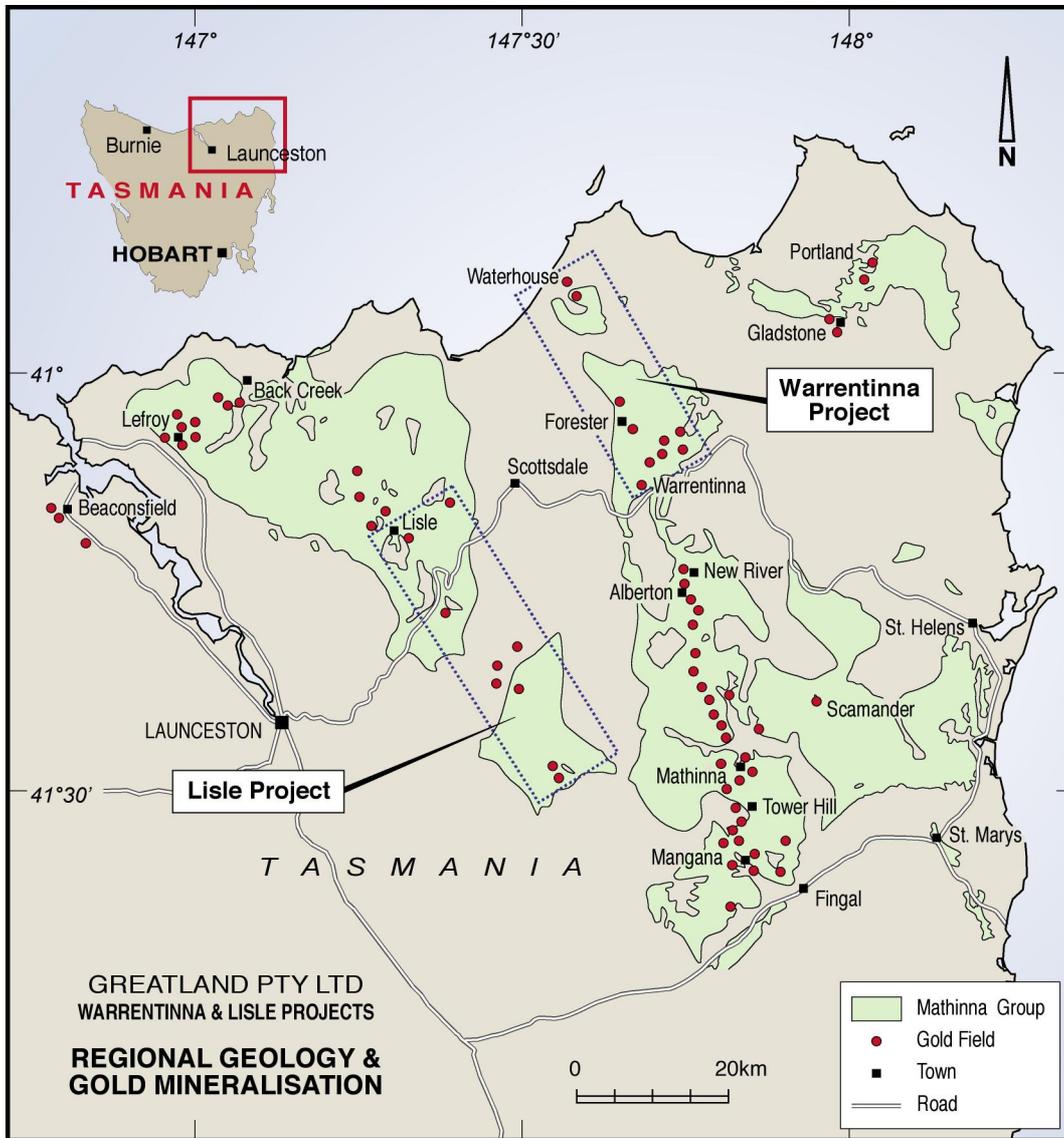


Figure 2 – Regional Geology

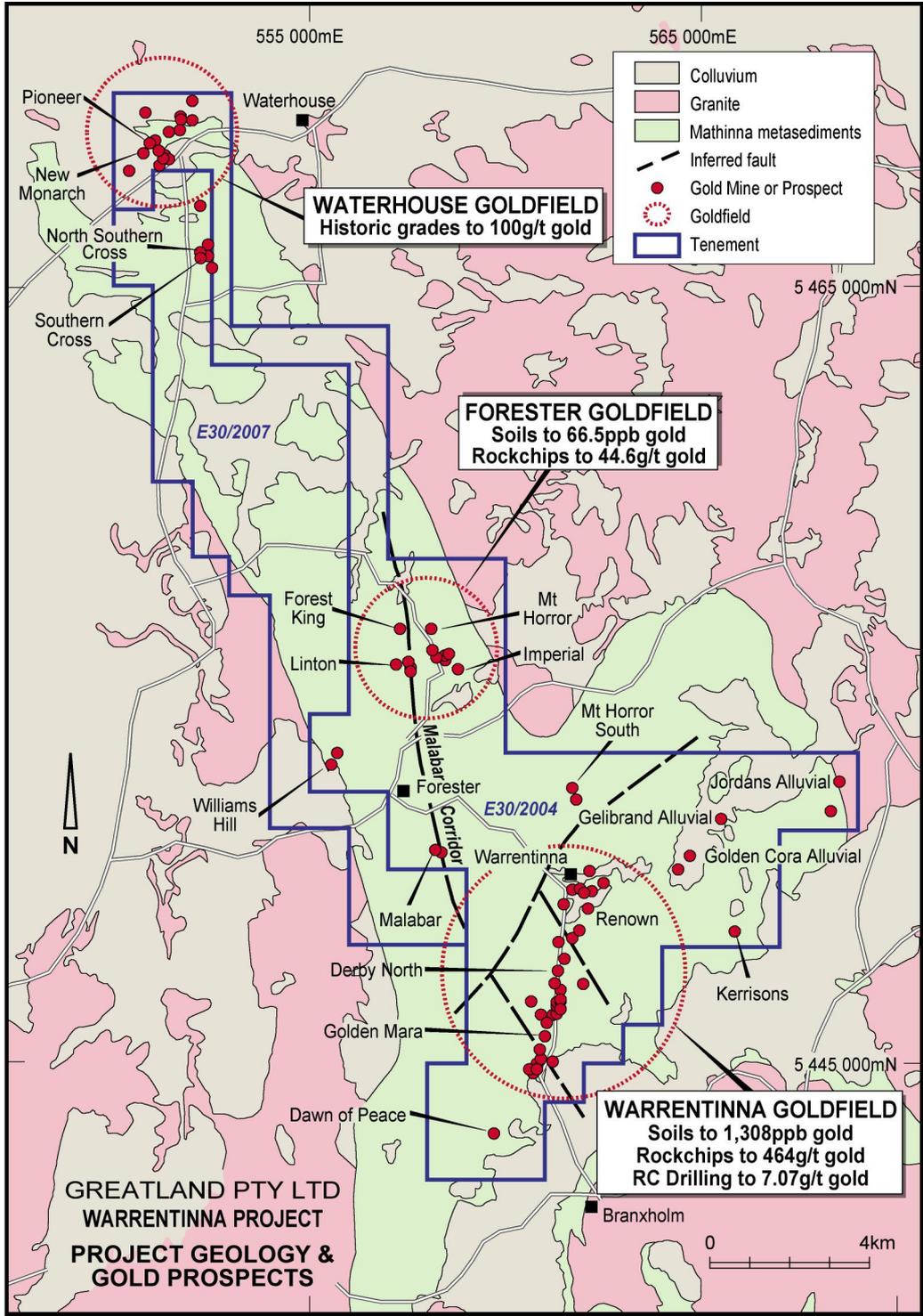
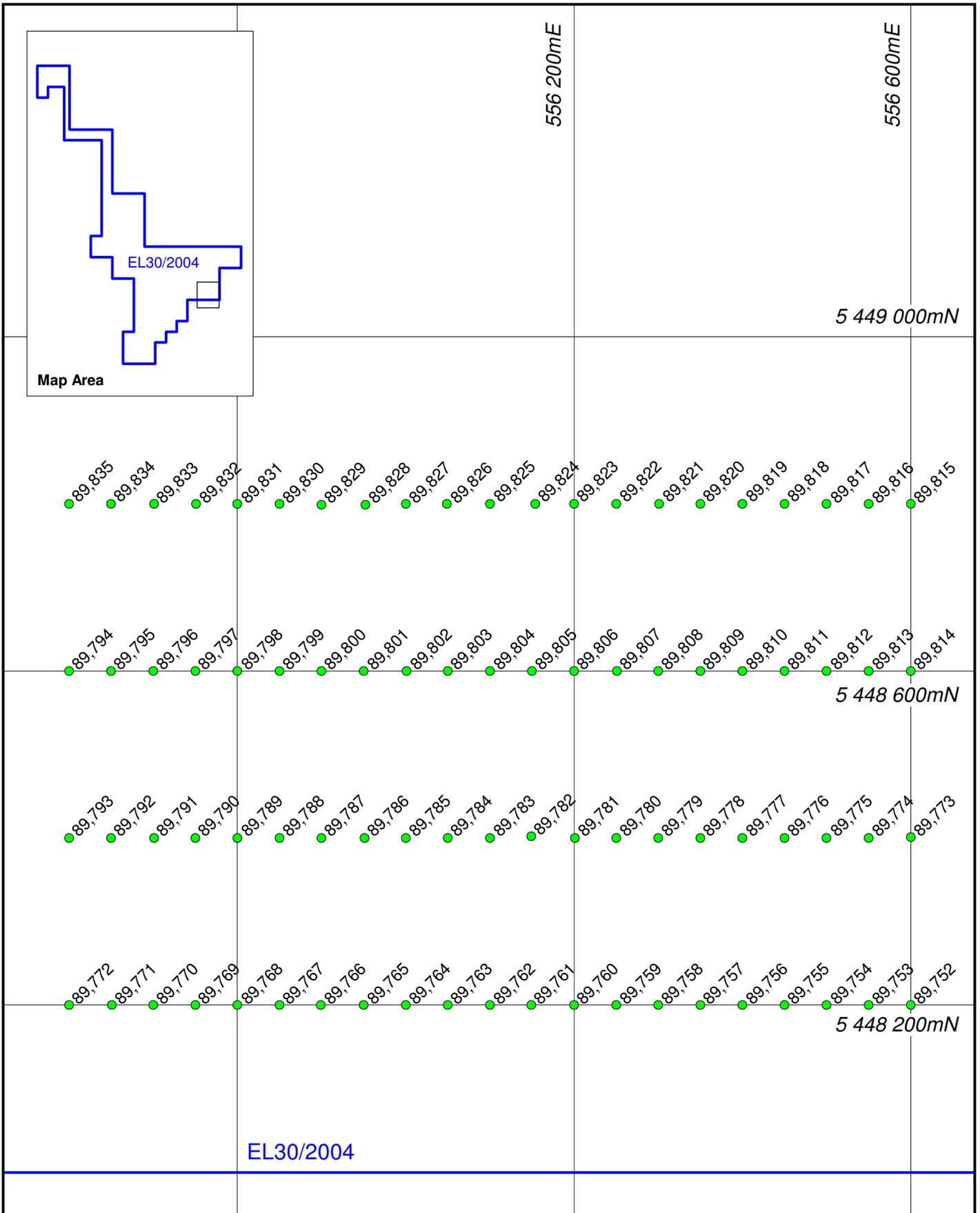


Figure 3 – Project Geology



AGD66-ZONE55



GREATLAND PTY LTD  
 EL30/2004 WARRENTINNA  
 Soil Samples - Kerrisons

Figure 4

## APPENDIX I

### Soil Sample Data

Data Template  
Soils

H0100	Tenement No/Combined Report No	EL30/2004		
H0101	Tenement Holder	Greatland Pty Ltd		
H0102	Tenement Operator	Greatland Pty Ltd		
H0103	Project Name	Warrentinna		
H0104	250K Map Sheet	SK55-21		
H0105	100K Map Sheet	8415	8416	
H0200	Start Date of Data Acquisition	Dec-04		
H0201	End Date of Data Acquisition	Nov-09		
H0202	Data Format	SG2		
H0203	Number of Data Records	84		
H0204	Date of Metadata Update	Dec-09		
H0500	Feature Located	Sample Point		
H0501	Geodetic Datum	AGD66		
H0502	Vertical Datum	N/A		
H0503	Projection	AMG		
H0504	Projection Zone	55		
H0505	Surveying Instrument	Handheld GPS		
H0506	Surveying Company	Greatland Pty Ltd		
H0600	Sample Code	Soil		
H0601	Sample Type	Soil		
H0602	Sample Description	180micron		
H0700	Sample Prep Code	SSMG		
H0701	Sample Prep Details	75micron		
H0702	Job No	904387		
H0800	Assay Code	B/EETA	B/AAS	B/MS
H0801	Assay Company	Genalysis Laboratories		
H0802	Assay Description	Aqua Regia digest - AAS/MS read		
H0900	Remarks	below detection -1 no data -999		

## Soil Samples

Sample ID	Sample Type	Mesh	AMG East	AMG North	Datum	Zone	Au_ppb	Ag_ppm	As_ppm	Bi_ppm	Co_ppm	Cu_ppm	Pb_ppm	Sb_ppm	W_ppm	Zn_ppm
89752	Soil	80mesh	566600	5448200	AGD66	55	0.8	-1	-1	0.05	4.4	16	3	0.03	-1	17
89753	Soil	80mesh	566550	5448200	AGD66	55	1.1	-1	1	0.11	8	27	8	0.11	-1	23
89754	Soil	80mesh	566500	5448200	AGD66	55	1.1	-1	1	0.16	1.9	10	10	0.12	-1	17
89755	Soil	80mesh	566450	5448200	AGD66	55	0.5	-1	2	0.19	4.5	17	11	0.18	-1	22
89756	Soil	80mesh	566400	5448200	AGD66	55	0.8	0.06	3	0.23	3.2	12	11	0.21	-1	23
89757	Soil	80mesh	566350	5448200	AGD66	55	1.1	-1	15	0.22	1.3	7	9	0.22	0.17	15
89758	Soil	80mesh	566300	5448200	AGD66	55	5.3	-1	12	0.13	0.6	6	5	0.03	-1	8
89759	Soil	80mesh	566250	5448200	AGD66	55	6.5	-1	27	0.09	0.3	6	3	0.04	-1	6
89760	Soil	80mesh	566200	5448200	AGD66	55	4.6	-1	14	0.15	2.4	9	8	0.09	0.08	9
89761	Soil	80mesh	566149	5448200	AGD66	55	3.5	-1	9	0.21	1.3	6	8	0.21	0.13	15
89762	Soil	80mesh	566100	5448200	AGD66	55	1.5	-1	7	0.21	2.4	13	8	0.15	0.07	13
89763	Soil	80mesh	566050	5448200	AGD66	55	0.7	-1	6	0.22	0.6	6	6	0.25	-1	8
89764	Soil	80mesh	566000	5448200	AGD66	55	0.6	-1	6	0.19	0.7	6	6	0.22	0.14	10
89765	Soil	80mesh	565950	5448200	AGD66	55	1.1	-1	5	0.32	0.6	9	9	0.2	0.1	19
89766	Soil	80mesh	565899	5448200	AGD66	55	1.2	-1	3	0.17	2.4	14	8	0.11	0.15	10
89767	Soil	80mesh	565850	5448200	AGD66	55	0.5	-1	4	0.09	0.8	6	6	0.05	-1	9
89768	Soil	80mesh	565800	5448200	AGD66	55	0.6	-1	4	0.19	2.5	12	8	0.08	0.08	9
89769	Soil	80mesh	565750	5448200	AGD66	55	0.7	-1	2	0.11	0.7	7	8	0.06	-1	8
89770	Soil	80mesh	565700	5448200	AGD66	55	0.5	-1	2	0.12	1.6	6	5	0.04	-1	7
89771	Soil	80mesh	565651	5448200	AGD66	55	0.8	-1	1	0.07	1	5	4	0.03	-1	6
89772	Soil	80mesh	565600	5448200	AGD66	55	2.4	-1	4	0.17	1.3	6	8	0.09	0.07	14
89773	Soil	80mesh	566600	5448401	AGD66	55	0.7	-1	1	0.06	15.1	47	6	0.08	-1	76
89774	Soil	80mesh	566550	5448400	AGD66	55	0.7	-1	-1	0.1	13.5	22	9	0.03	-1	61
89775	Soil	80mesh	566500	5448400	AGD66	55	0.6	-1	3	0.13	1.3	7	8	0.06	-1	11
89776	Soil	80mesh	566450	5448400	AGD66	55	0.9	-1	8	0.19	2.1	9	10	0.11	0.29	15
89777	Soil	80mesh	566400	5448400	AGD66	55	0.5	0.05	3	0.19	2.5	12	11	0.15	-1	19
89778	Soil	80mesh	566350	5448400	AGD66	55	0.7	0.05	8	0.27	3.2	12	12	0.19	-1	23
89779	Soil	80mesh	566300	5448400	AGD66	55	1.3	-1	10	0.17	1.3	8	7	0.33	0.07	14
89780	Soil	80mesh	566250	5448400	AGD66	55	1.2	0.06	25	0.23	2.2	13	12	0.25	0.09	16
89781	Soil	80mesh	566201	5448400	AGD66	55	1.8	-1	10	0.16	0.9	10	7	0.08	-1	12
89782	Soil	80mesh	566149	5448402	AGD66	55	0.7	-1	10	0.19	2.7	12	8	0.1	-1	11
89783	Soil	80mesh	566100	5448400	AGD66	55	0.5	-1	2	0.15	1	2	5	0.05	-1	10
89784	Soil	80mesh	566050	5448400	AGD66	55	0.7	-1	2	0.13	1.8	7	7	0.05	-1	14
89785	Soil	80mesh	566000	5448400	AGD66	55	0.4	-1	5	0.2	0.8	6	7	0.07	-1	12
89786	Soil	80mesh	565951	5448400	AGD66	55	0.8	-1	7	0.26	2	12	10	0.08	0.06	10
89787	Soil	80mesh	565900	5448400	AGD66	55	0.7	-1	3	0.12	0.6	4	6	0.06	-1	8
89788	Soil	80mesh	565850	5448400	AGD66	55	0.1	-1	-1	0.04	3.2	18	5	0.09	-1	14
89789	Soil	80mesh	565800	5448400	AGD66	55	0.5	-1	5	0.24	1.5	5	11	0.15	-1	14
89790	Soil	80mesh	565750	5448400	AGD66	55	1	-1	-1	0.08	2.2	11	4	0.05	-1	6
89791	Soil	80mesh	565701	5448400	AGD66	55	0.3	-1	-1	0.05	0.4	4	4	0.02	-1	6
89792	Soil	80mesh	565650	5448400	AGD66	55	0.4	-1	6	0.13	1.5	6	5	0.13	-1	8
89793	Soil	80mesh	565600	5448400	AGD66	55	0.7	-1	1	0.08	0.7	3	4	0.05	-1	12

## Soil Samples

Sample ID	Sample Type	Mesh	AMG East	AMG North	Datum	Zone	Au_ppb	Ag_ppm	As_ppm	Bi_ppm	Co_ppm	Cu_ppm	Pb_ppm	Sb_ppm	W_ppm	Zn_ppm
89794	Soil	80mesh	565600	5448600	AGD66	55	0.3	-1	-1	0.07	1.4	5	3	0.04	-1	6
89795	Soil	80mesh	565650	5448600	AGD66	55	0.6	-1	2	0.11	0.6	3	6	0.03	-1	8
89796	Soil	80mesh	565700	5448600	AGD66	55	0.9	-1	3	0.15	1.9	9	6	0.04	-1	10
89797	Soil	80mesh	565750	5448600	AGD66	55	0.5	-1	-1	0.08	0.8	5	3	0.03	-1	12
89798	Soil	80mesh	565800	5448600	AGD66	55	0.5	-1	2	0.12	1.8	4	5	0.03	-1	7
89799	Soil	80mesh	565850	5448600	AGD66	55	1.3	-1	7	0.15	1	4	7	0.03	-1	7
89800	Soil	80mesh	565900	5448600	AGD66	55	1.5	-1	12	0.13	2.4	7	7	0.09	-1	10
89801	Soil	80mesh	565950	5448600	AGD66	55	1.5	-1	26	0.17	0.7	2	10	0.07	-1	7
89802	Soil	80mesh	566001	5448600	AGD66	55	1.1	-1	11	0.1	3.1	11	9	0.11	-1	11
89803	Soil	80mesh	566050	5448600	AGD66	55	1	-1	4	0.07	0.9	4	6	0.11	-1	13
89804	Soil	80mesh	566100	5448600	AGD66	55	1.1	-1	59	0.13	1.4	6	6	0.11	-1	8
89805	Soil	80mesh	566150	5448600	AGD66	55	2.3	-1	62	0.19	0.7	3	8	0.25	0.12	12
89806	Soil	80mesh	566200	5448600	AGD66	55	1.3	0.05	24	0.2	2	7	6	0.06	-1	6
89807	Soil	80mesh	566251	5448600	AGD66	55	1.1	-1	9	0.2	0.8	5	10	0.5	0.1	11
89808	Soil	80mesh	566300	5448600	AGD66	55	1.2	-1	5	0.2	2.7	11	8	0.4	-1	16
89809	Soil	80mesh	566350	5448600	AGD66	55	0.7	-1	2	0.16	5.1	8	7	0.11	-1	19
89810	Soil	80mesh	566400	5448600	AGD66	55	0.8	-1	2	0.16	2.4	11	8	0.16	-1	18
89811	Soil	80mesh	566450	5448600	AGD66	55	0.8	0.06	3	0.16	1.5	7	7	0.11	-1	14
89812	Soil	80mesh	566500	5448600	AGD66	55	0.5	-1	2	0.15	2	7	6	0.07	-1	12
89813	Soil	80mesh	566550	5448600	AGD66	55	0.2	-1	3	0.2	1.3	9	8	0.27	-1	19
89814	Soil	80mesh	566600	5448600	AGD66	55	0.7	-1	-1	0.1	19.2	40	8	0.1	-1	54
89815	Soil	80mesh	566600	5448800	AGD66	55	0.7	-1	-1	0.07	49.2	53	6	0.05	-1	108
89816	Soil	80mesh	566550	5448800	AGD66	55	0.4	-1	2	0.25	2.3	9	10	0.22	-1	19
89817	Soil	80mesh	566500	5448800	AGD66	55	0.7	-1	9	0.24	1.4	12	8	0.35	0.57	21
89818	Soil	80mesh	566450	5448800	AGD66	55	0.7	-1	2	0.26	2.1	7	7	0.36	-1	18
89819	Soil	80mesh	566400	5448800	AGD66	55	0.9	-1	2	0.25	1.1	8	10	0.29	-1	15
89820	Soil	80mesh	566350	5448800	AGD66	55	0.5	-1	1	0.22	2.5	11	8	0.17	0.08	12
89821	Soil	80mesh	566301	5448800	AGD66	55	1	-1	4	0.27	1.3	8	10	0.26	-1	15
89822	Soil	80mesh	566250	5448800	AGD66	55	0.8	-1	2	0.18	2.1	11	9	0.19	0.07	13
89823	Soil	80mesh	566200	5448800	AGD66	55	0.7	-1	3	0.18	1.1	8	8	0.16	-1	12
89824	Soil	80mesh	566154	5448800	AGD66	55	2.7	0.05	149	0.38	3.5	17	15	0.79	0.13	19
89825	Soil	80mesh	566100	5448800	AGD66	55	1.3	0.06	14	0.2	1.1	6	9	0.3	-1	12
89826	Soil	80mesh	566049	5448800	AGD66	55	2.9	-1	43	0.26	2.9	14	13	0.54	-1	13
89827	Soil	80mesh	566000	5448800	AGD66	55	0.9	-1	22	0.14	1.3	7	8	0.24	0.15	11
89828	Soil	80mesh	565952	5448799	AGD66	55	4.5	0.44	27	0.18	3.7	11	12	0.17	0.1	12
89829	Soil	80mesh	565900	5448799	AGD66	55	4	-1	1	0.09	3.1	8	7	0.13	-1	24
89830	Soil	80mesh	565850	5448800	AGD66	55	1.7	-1	2	0.11	11.2	13	9	0.17	-1	49
89831	Soil	80mesh	565800	5448800	AGD66	55	1	-1	-1	0.09	41.8	36	8	0.06	-1	92
89832	Soil	80mesh	565751	5448800	AGD66	55	1.1	-1	1	0.16	15.2	27	13	0.07	-1	61
89833	Soil	80mesh	565701	5448800	AGD66	55	0.5	-1	4	0.17	1.3	8	15	0.3	0.12	19
89834	Soil	80mesh	565650	5448800	AGD66	55	1.2	-1	4	0.18	2	9	8	0.11	0.06	9
89835	Soil	80mesh	565600	5448800	AGD66	55	0.4	-1	2	0.16	0.5	4	5	0.03	-1	4