



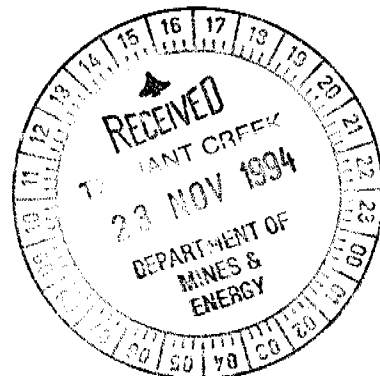
POSEIDON GOLD LIMITED

A.C.N. 007 511 006

A PosGold Company

TENNANT CREEK OPERATIONS :
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FINAL REPORT

FOR EXPLORATION LICENCE 8024

FOR THE PERIOD 28/4/93 TO 1/9/94

TENNANT CREEK DISTRICT, NORTHERN TERRITORY

MARY LANE PROSPECT

TENNANT CREEK 1:250,000 SHEET SE 53-14

VOLUME 1 OF 1

AUTHOR: J KUONI
EXPLORATION GEOLOGIST

DATE: NOVEMBER 1994

AUTHORISED BY:

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CONTENTS

PAGE

LIST OF FIGURES
LIST OF TABLES
LIST OF PLANS
LIST OF APPENDICES

1.	SUMMARY	1
2.	INTRODUCTION	2
2.1	Location and Access	2
2.2	Climate and Physiography	2
2.3	Tenure	2
3.	GEOLOGICAL SETTING	2
4.	EXPLORATION SUMMARY AND RESULTS FOR THE PERIOD 28/4/93 TO 1/9/94	2
4.1	Regional Soil Sampling	3
4.2	Vacuum Drilling	3
4.3	Rock Chip Sampling	3
5.	EXPLORATION EXPENDITURE FOR THE REPORT PERIOD 28/4/93 TO 1/9/94	4
6.	CONCLUSIONS	4

COMMODITIES: Gold, Copper

FIGURES

<u>Fig. No.</u>	<u>Title</u>	<u>Scale</u>
1	Mary Lane - EL 8024 Location Plan	1:250,000

LIST OF TABLES

<u>Table No.</u>	<u>Title</u>
1	Summary Work Statistics for EL 8024 for the period ending 1/9/94
2	Exploration Expenditure on EL 8024 for the period ending 1/9/94

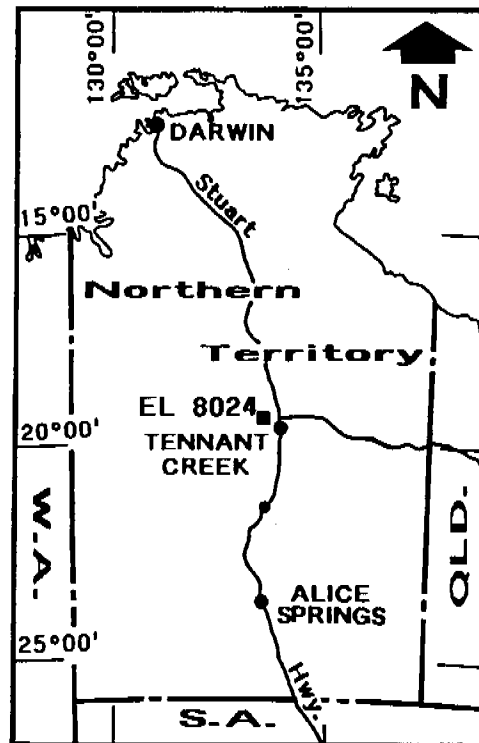
LIST OF PLANS

<u>Plan No.</u>	<u>Title</u>	<u>Scale</u>
1	Highway Group Generalised Geology	1:50,000
2	Highway Group Mary Lane - EL 8024 Soil Sample Locations -	1:5,000
3	Highway Group Mary Lane - EL 8024 Soil Geochemistry - Au (ppb)	1:5,000
4	Highway Group Mary Lane - EL 8024 Soil Geochemistry - Cu (ppm)	1:5,000
5	Highway Group Mary Lane - EL 8024 Soil Geochemistry - Bi (ppm)	1:5,000
6	Highway Group Vacuum Drillhole Location Plan	1:5,000
7	Highway Group Vacuum Bedrock Lithology	1:5,000
8	Highway Group Mary Lane - EL 8024 Vacuum Geochemistry - Au (ppb)	1:5,000
9	Highway Group Mary Lane - EL 8024 Vacuum Geochemistry - Cu (ppm)	1:5,000
10	Highway Group Mary Lane - EL 8024 Vacuum Geochemistry - Bi (ppm)	1:5,000
11	Highway Group Mary Lane - EL 8024 Rock Chip Sample Locations and Results	1:5,000

LIST OF APPENDICES

<u>Appendix No.</u>	<u>Title</u>
1	Soil Geochemistry Assay Results
2	Vacuum Bedrock Lithologies and Assay Data
3	Rock Chip Assay Results and Descriptions
4	Bibliographic Data Sheet

REPORT NO: 11770
TITLE: FINAL REPORT FOR EXPLORATION LICENCE 8024 FOR THE PERIOD
28/4/93 TO 1/9/94, TENNANT CREEK DISTRICT, NORTHERN
TERRITORY, MARY LANE PROSPECT
AUTHOR: J KUONI
DATE: OCTOBER 1994



1. SUMMARY

Exploration Licence 8024 situated in the central region of the Tennant Creek field is being explored for shear hosted and haematite/magnetite related gold-copper-bismuth mineralisation. To date, an exploration programme involving hand and compass gridding, regional soil sampling, rock chip sampling and bedrock vacuum drilling has been completed.

Several Au-base metal responses were generated from soil sampling, and follow-up vacuum drilling has resulted in the delineation of a 0.4 x 0.05km anomalous zone with a peak value of 10 ppb Au.

This anomaly will be further investigated under SEL 8666.

2. INTRODUCTION

2.1 Location and Access

Exploration Licence 8024 is located approximately six kilometres NW of Tennant Creek, refer Figure 1. The licence comprises two graticular blocks covering an area of 6.5km². Access to the area is via the Warrego Road which intersects the EL.

2.2 Climate and Physiography

Conditions are typically mild and dry throughout much of the year, with cool and gusty winds sometimes occurring during winter. Summer temperatures are usually high (in excess of 35°C) with seasonal rainfall from December through to March.

The licence area is covered by flat spinifex-covered plains to rubbly outcrops, with densely vegetated creek channels cutting through in the north.

2.3 Tenure

Exploration Licence 8024 comprising two graticular blocks, was granted to Poseidon Gold Limited on 28 April 1993 for a period of three years.

This licence along with two adjacent licences were included into a Substitute Exploration Licence Application which was subsequently granted (SEL 8666) on 1 September 1994.

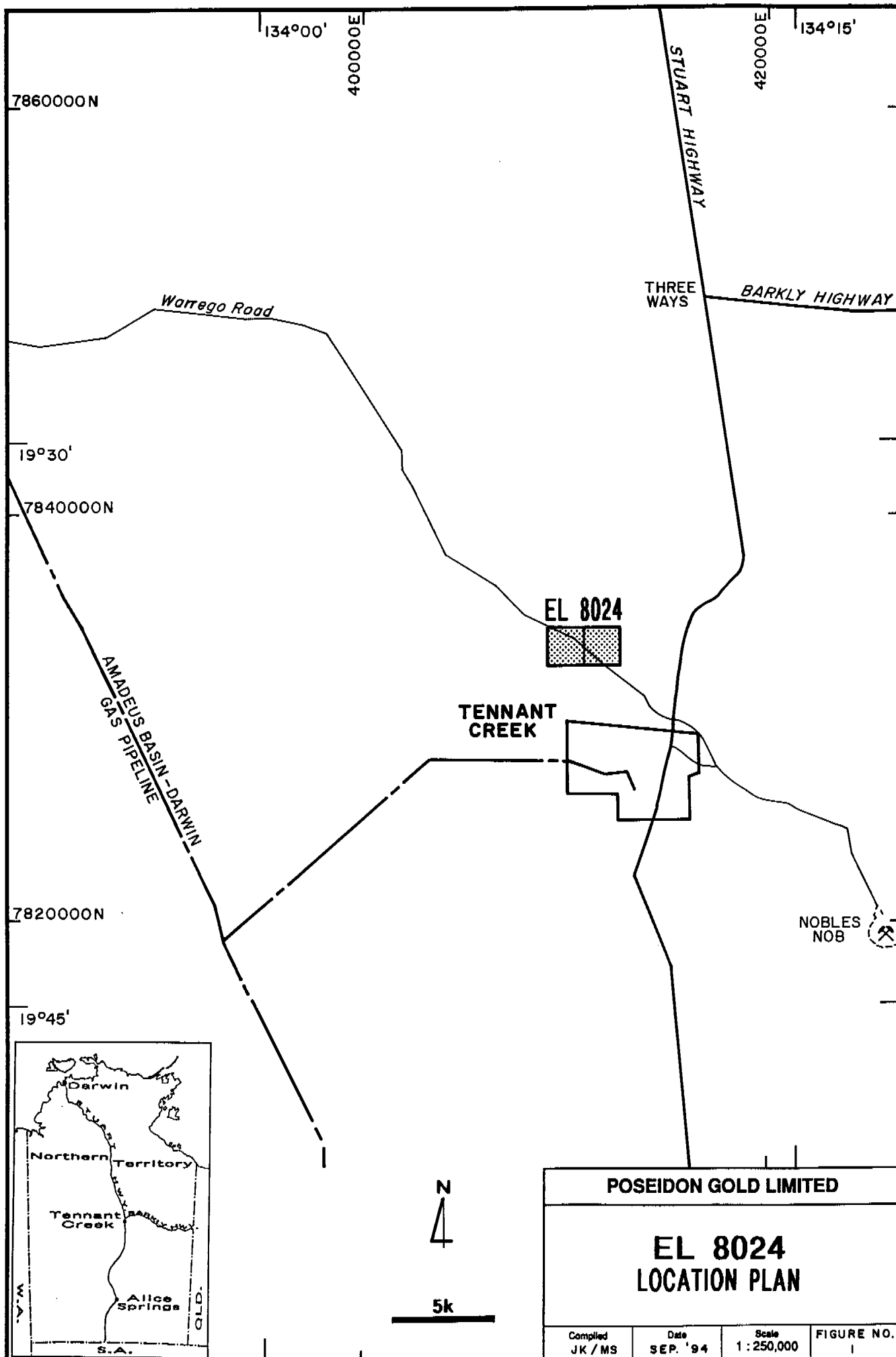
3. GEOLOGICAL SETTING

Exploration Licence 8024 comprises sediments of the early Proterozoic Warramunga Group including siltstones, sandstones, greywackes and shales with minor concordant felsic porphyries. Tennant Creek Granite outcrops to the north of the EL.

A major structure labelled the Mary Lane Shear Zone runs through the centre of the licence striking NW-SE. Where the zone is recognisable in the field, it can be up to 80 metres wide, refer Plan 1. Residual and aeolian sand and soil cover are dominant in the north, while the central to southern portions of the EL comprise Fe-enriched siltstones. Several occurrences of biotite-rich lamprophyre were intersected by vacuum drilling.

4. EXPLORATION SUMMARY AND RESULTS FOR THE PERIOD 28/4/93 TO 1/9/94

Work completed over Exploration Licence 8024 to date has included hand and compass gridding, regional soil geochemistry, a bedrock vacuum drilling programme and rock chip sampling. A summary of work statistics is given in Table 1 below:



POSEIDON GOLD LIMITED			
EL 8024 LOCATION PLAN			
Compiled JK / MS	Date SEP. '94	Scale 1:250,000	FIGURE NO. 1

TABLE 1
SUMMARY WORK STATISTICS FOR EL 8024
FOR THE PERIOD ENDING 1/9/94

GRIDDING

- Hand and Compass 36.8km

GEOCHEMISTRY

- Soil Sampling 596 samples

- Rock Chip Sampling 7 samples

DRILLING

- Bedrock Vacuum Drilling 506m (125 holes)

4.1 Regional Soil Sampling

A regional soil sampling programme was completed over the licence area during 1993, with a total of 596 samples being collected on a 200 x 50 metre spaced grid. Samples sieved at minus 1mm +300 micron were despatched to Australian Laboratory Services (Alice Springs) for low level gold and base metal analysis. The Mary Lane Shear Zone was highlighted with results peaking at 62 ppb Au and 113 ppm Cu in a NW-SE striking zone 1.0km x 0.4km in dimension. An extension to the north-west returned 19 ppb Au. Refer to Plan 2 for sample locations and Plans 3-5 for contoured assay values. Raw data is included in Appendix 1.

4.2 Vacuum Drilling

To investigate the Au and Cu anomalism obtained in the soil sampling, a vacuum drilling programme was carried out on 100 metre x 50 metre spacings over the areas of interest. A total of 506 metres were drilled in 125 holes (average 4 metres/hole), with one fresh bedrock sample collected from the bottom of each hole and despatched to Australian Laboratory Services (Alice Springs) for analysis of Au, Cu and Bi. A peak gold value of 10 ppb was obtained in a 0.4 x 0.05km anomalous zone striking NW-SE. Copper peaked at 159 ppm and several high bismuth values, up to 19 ppm were recorded. It appears that the higher Cu values may be related to Cu enrichment in lamprophyres.

Results are presented in Plans 6-10, and raw data included in Appendix 2.

4.3 Rock Chip Sampling

A total of seven rock chip samples were collected over an area in the western portion of the licence during the initial soil sampling programme. The samples were despatched to Amdel for gold and base metal analysis and returned a peak value of 0.09 ppm Au with corresponding 490 ppm Bi. This sample was located adjacent to the shear zone, comprising highly chloritised sediment with minor

haematite. Plan 11 gives the sample locations, with raw data presented in Appendix 2.

**5. EXPLORATION EXPENDITURE FOR THE PERIOD
28/4/93 TO 1/9/94**

The expenditure for EL 8024 during the period 28/4/93 to 1/9/94 is outlined in Table 2 below:

TABLE 2

**EXPLORATION EXPENDITURE FOR EL 8024
FOR THE PERIOD 28/4/93 TO 1/9/94**

EXPENSE	COST
Employee Costs	\$ 7,641
Overheads	\$ 818
Drilling	\$ 2,233
Assays	\$ 243
Operating Costs	\$ 1,252
Tenement Management	\$ 44
Research	\$ 104
	\$ 12,335

6. CONCLUSIONS

Exploration Licence 8024 has been included into SEL 8666, which was granted on 1 September 1994, allowing exploration to be carried out on a more regional scale.

It is proposed that exploration over the next 12 month period on SEL 8666 will involve further vacuum drilling along with geological mapping and rock chip sampling over the remainder of the licence area, and deeper RAB drill testing of the anomalous bedrock geochemistry defined to date.

APPENDIX ONE

SOIL GEOCHEMISTRY ASSAY RESULTS

Au	ppb
Cu	ppm
Bi	ppm
Fe	%
Mn	ppm

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PAGE 1 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
220901		8	2.75	245	<5	
220902		5	2.43	112	<5	
220903		6	2.81	182	<5	
220904		4	3.56	288	<5	
220905		6	4.60	93	<5	
220906		6	2.49	50	<5	
220907		6	3.96	83	<5	
220908		3	3.40	169	<5	
220909		5	2.45	67	<5	
220910		5	2.78	48	<5	
220911		3	2.58	36	<5	
220912		4	2.21	51	<5	
220913		4	2.96	91	<5	
220914		4	2.76	58	<5	
220915		6	2.38	78	<5	
220916		4	2.94	51	<5	
220917		7	3.36	266	<5	
220918		11	2.38	73	<5	
220919		6	1.87	35	<5	
220920		21	2.51	76	<5	
220921		14	2.88	180	<5	
220922		10	2.31	275	<5	
220923		11	2.89	217	<5	
220924		18	2.75	241	<5	
220925		16	2.28	341	<5	
220926		13	2.61	298	<5	
220927		11	2.00	296	<5	
220928		12	2.09	205	<5	
220929		14	2.53	328	<5	
220930		12	2.36	366	<5	
DETECTION LIMIT:		2	0.01	5	5	

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Perth Laboratory
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All pages of this report
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A. J. Finlayson
Signed

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PAGE 2 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
220931		11	2.04	293	<5	
220932		10	1.90	297	<5	
220933		9	1.99	275	<5	
220934		10	2.16	221	<5	
220935		9	2.12	153	<5	
220936		9	2.07	203	<5	
220937		10	2.27	163	<5	
220938		8	2.14	88	<5	
220939		9	2.13	130	<5	
220940		10	2.30	239	<5	
220941		8	1.99	171	<5	
220942		9	2.02	209	<5	
220943		11	2.14	272	<5	
220944		11	2.02	162	<5	
220945		11	2.63	586	<5	
220946		8	2.51	307	<5	
220947		12	2.49	287	<5	
220948		12	2.59	164	<5	
220949		15	2.35	265	<5	
220950		12	2.50	175	<5	
220951		113	2.91	251	5	
220952		12	2.75	354	<5	
220953		7	2.46	213	<5	
220954		4	2.55	145	<5	
220955		7	2.36	109	<5	
220956		5	2.68	40	<5	
220957		10	2.47	127	<5	
220958		6	2.49	112	<5	
220959		5	2.68	50	<5	
220960		5	2.60	89	<5	
DETECTION LIMIT:		2	0.01	5	5	

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LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
220961		5	2.37	46	<5	
220962		5	2.97	119	<5	
220963		5	2.93	72	<5	
220964		4	3.92	155	<5	
220965		8	3.67	354	<5	
220966		6	4.02	185	<5	
220967		<2	3.69	192	<5	
220968		17	5.99	166	<5	
220969		13	6.47	229	<5	
220970		9	2.81	118	<5	
220971		8	4.03	119	<5	
220972		4	3.39	96	<5	
220973		8	2.67	222	<5	
220974		7	2.93	213	<5	
220975		3	4.09	79	<5	
220976		5	3.76	79	<5	
220977		3	3.24	83	<5	
220978		6	3.71	197	<5	
220979		6	3.05	82	<5	
220980		7	2.96	87	<5	
220981		7	3.16	97	<5	
220982		7	3.59	103	<5	
220983		9	3.37	127	<5	
220984		5	3.44	83	<5	
220985		44	5.98	191	<5	
220986		14	3.00	241	<5	
220987		15	2.59	119	<5	
220988		5	5.00	78	<5	
220989		10	5.51	93	<5	
220990		14	5.27	118	<5	
DETECTION LIMIT:		2	0.01	5	5	

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LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
220991		9	2.60	48	<5	
220992		10	3.72	433	<5	
220993		9	3.17	76	<5	
220994		9	2.90	56	<5	
220995		9	2.67	70	<5	
220996		8	2.82	172	<5	
220997		7	2.09	73	<5	
220998		7	2.64	118	<5	
220999		5	2.71	46	<5	
221000		7	2.73	42	<5	
221001		11	3.49	446	<5	
221002		18	2.93	177	<5	
221003		67	3.49	494	<5	
221004		10	2.59	204	<5	
221005		11	2.37	104	<5	
221006		10	3.38	227	<5	
221007		5	2.21	37	<5	
221008		5	3.04	39	<5	
221009		5	2.78	37	<5	
221010		4	3.16	41	<5	
221011		7	2.95	55	<5	
221012		9	2.91	39	<5	
221013		32	3.88	422	<5	
221014		42	3.99	434	<5	
221015		17	3.18	68	<5	
221016		10	2.65	80	<5	
221017		11	2.35	82	<5	
221018		10	2.38	72	<5	
221019		11	2.39	154	<5	
221020		10	2.43	141	<5	
DETECTION LIMIT:		2	0.01	5	5	

COMMENTS:

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PAGE 5 of 20

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CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
221021		8	2.18	80	<5	
221022		8	2.33	109	<5	
221023		16	2.85	223	<5	
221024		19	3.03	201	<5	
221025		11	2.31	191	<5	
221026		11	2.44	238	<5	
221027		11	2.54	207	<5	
221028		9	2.81	154	<5	
221029		10	2.55	171	<5	
221030		7	2.32	96	<5	
221031		10	2.49	112	<5	
221032		15	2.80	277	<5	
221033		13	2.49	207	<5	
221034		13	2.63	216	<5	
221035		13	2.49	203	<5	
221036		14	2.52	236	<5	
221037		12	2.41	133	<5	
221038		11	2.28	128	<5	
221039		12	2.65	160	<5	
221040		13	2.41	192	<5	
221041		15	2.32	238	<5	
221042		15	2.58	179	<5	
221043		15	2.77	260	<5	
221044		13	2.75	226	<5	
221045		13	2.52	274	<5	
221046		12	2.44	193	<5	
221047		15	2.53	246	<5	
221048		13	2.48	227	<5	
221049		11	2.02	209	<5	
221050		15	2.12	132	<5	
DETECTION LIMIT:		2	0.01	5	5	

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ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
221051		20	2.27	187	<5	
221052		9	1.93	172	<5	
221053		11	2.21	198	<5	
221054		9	2.40	185	<5	
221055		8	2.23	76	<5	
221056		9	2.41	165	<5	
221057		10	2.42	96	<5	
221058		9	2.11	98	<5	
221059		9	1.96	70	<5	
221060		7	2.01	44	<5	
221061		9	1.99	32	<5	
221062		7	2.01	31	<5	
221063		11	1.84	58	<5	
221064		7	1.95	22	<5	
221065		19	2.75	45	<5	
221066		9	3.19	55	<5	
221067		5	2.00	49	<5	
221068		4	2.54	25	<5	
221069		6	1.66	35	<5	
221070		5	1.93	34	<5	
221071		4	1.69	27	<5	
221072		77	2.68	93	<5	
221073		6	1.61	27	<5	
221074		5	1.88	119	<5	
221075		7	1.73	328	<5	
221076		8	2.13	210	<5	
221077		8	2.29	315	<5	
221078		8	2.59	192	<5	
221079		14	2.82	128	<5	
221080		7	2.52	88	<5	
DETECTION LIMIT:		2	0.01	5	5	

COMMENTS:

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Facsimile: (07) 352 5109

ANALYTICAL REPORT

PAGE 7 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
221081		8	2.74	106	<5	
221082		9	2.91	171	<5	
221083		11	2.65	90	<5	
221084		8	2.70	55	<5	
221085		9	3.51	498	<5	
221086		5	2.55	32	<5	
221087		9	3.66	54	<5	
221088		6	2.43	34	<5	
221089		7	2.23	38	<5	
221090		8	3.53	48	<5	
221091		7	3.99	48	<5	
221092		7	2.67	33	<5	
221093		8	2.63	53	<5	
221094		6	2.19	31	<5	
221095		8	2.38	44	<5	
221096		14	2.58	133	<5	
221097		10	2.54	82	<5	
221098		10	2.37	135	<5	
221099		13	2.35	131	<5	
221100		12	2.39	140	<5	
221101		11	2.53	203	<5	
221102		12	2.38	168	<5	
221103		9	2.35	277	<5	
221104		10	2.36	306	<5	
221105		11	2.12	201	<5	
221106		11	2.41	298	<5	
221107		12	2.34	201	<5	
221108		19	2.89	315	<5	
221109		16	2.34	346	<5	
221110		13	2.33	185	<5	
DETECTION LIMIT:		2	0.01	5	5	

COMMENTS:

Townsville Laboratory
Phone: (077) 79 9155 Fax: (077) 79 9729
Clare Towers Laboratory
Phone: (077) 87 4155 Fax: (077) 87 4220
Orange Laboratory
Phone: (063) 63 1722 Fax: (063) 63 1189
Bendigo Laboratory
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Perth Laboratory
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Kalgoorlie Laboratory
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Alice Springs Laboratory
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ANALYTICAL REPORT

PAGE 8 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
221111		12	2.28	194	<5	
221112		16	2.77	145	<5	
221113		16	2.57	216	<5	
221114		15	2.90	188	<5	
221115		13	2.96	222	<5	
221116		13	2.82	168	<5	
221117		12	2.54	168	<5	
221118		13	2.53	160	<5	
221119		15	2.56	234	<5	
221120		13	2.17	242	<5	
221121		18	2.31	237	<5	
221122		16	2.08	232	<5	
221123		25	2.45	303	<5	
221124		11	2.03	97	<5	
221125		11	2.14	96	<5	
221126		10	1.94	185	<5	
221127		11	1.97	192	<5	
221128		12	1.94	160	<5	
221129		10	2.04	86	<5	
221130		10	1.93	115	<5	
221131		10	2.02	79	<5	
221132		8	2.02	59	<5	
221133		7	2.08	93	<5	
221134		7	2.01	43	<5	
221135		8	2.37	76	<5	
221136		6	2.37	40	<5	
221137		6	2.58	26	<5	
221138		5	2.49	48	<5	
221139		8	3.02	50	<5	
221140		9	3.15	294	<5	
DETECTION LIMIT:		2	0.01	5	5	

COMMENTS:

Toowoomba Laboratory
Phone: (077) 79 9155 Fax: (077) 79 9728
Claremont Laboratory
Phone: (077) 87 4155 Fax: (077) 87 4220
Orange Laboratory
Phone: (063) 63 1722 Fax: (063) 63 1189
Bendigo Laboratory
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Perth Laboratory
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Kalgoorlie Laboratory
Phone: (080) 21 1457 Fax: (080) 21 6253
Alice Springs Laboratory
Phone: (089) 52 6020 Fax: (089) 52 6028
Mt Isa Laboratory
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ANALYTICAL REPORT

PAGE 9 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580
221141		7	2.33	36	<5
221142		6	2.48	33	<5
221143		9	2.70	119	<5
221144		51	2.33	40	<5
221145		58	2.46	59	5
221146		6	2.30	34	<5
221147		9	2.18	35	<5
221148		6	2.05	87	<5
221149		6	2.07	141	<5
221150		8	1.94	217	<5
221151		8	2.51	407	<5
221152		10	2.52	190	<5
221153		12	2.64	272	<5
221154		22	3.08	362	<5
221155		9	2.52	297	<5
221156		18	2.91	391	<5
221157		8	2.19	128	<5
221158		9	2.42	56	<5
221159		6	1.79	54	<5
221160		8	2.02	73	<5
221161		9	2.40	161	<5
221162		19	2.65	42	<5
221163		10	2.36	67	<5
221164		10	2.85	55	<5
221165		7	2.67	38	<5
221166		7	3.58	60	<5
221167		8	2.89	38	<5
221168		8	3.13	66	<5
221169		11	2.87	35	<5
221170		17	2.99	41	<5
DETECTION LIMIT:		2	0.01	5	5

COMMENTS:

Toowoomba Laboratory
Phone: (077) 79 9165 Fax: (077) 79 9729
Claremont Laboratory
Phone: (077) 87 4165 Fax: (077) 87 4220
Orange Laboratory
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ANALYTICAL REPORT

PAGE 10 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0961

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
221171		14	3.69	39	<5	
221172		19	2.20	30	<5	
221173		8	2.25	62	<5	
221174		9	2.26	70	<5	
221175		11	2.36	128	<5	
221176		14	2.26	320	<5	
221177		18	2.29	142	<5	
221178		14	2.06	84	<5	
221179		13	2.09	106	<5	
221180		12	2.06	143	<5	
221181		11	1.92	97	<5	
221182		13	2.04	177	<5	
221183		14	2.31	240	<5	
221184		15	2.32	251	<5	
221185		14	2.00	266	<5	
221186		15	2.38	239	<5	
221187		14	2.38	196	<5	
221188		15	2.41	155	<5	
221189		14	2.39	181	<5	
221190		15	2.71	161	<5	
221191		13	2.41	106	<5	
221192		14	2.66	132	<5	
221193		14	2.80	127	<5	
221194		13	2.36	179	<5	
221195		15	2.25	171	<5	
221196		15	2.34	170	<5	
221197		15	1.87	237	<5	
221198		24	2.48	318	<5	
221199		20	2.69	438	<5	
221200		20	2.85	209	<5	
DETECTION LIMIT:		2	0.01	5	5	

COMMENTS:

Townsville Laboratory
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Bathurst Laboratory
Phone: (054) 46 1390 Fax: (054) 46 1389

Perth Laboratory
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ANALYTICAL REPORT

PAGE 11 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAUBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
221201		17	2.34	267	<5	
221202		18	2.41	315	<5	
221203		20	2.27	143	<5	
221204		14	2.17	97	<5	
221205		13	2.16	142	<5	
221206		12	1.94	123	<5	
221207		10	2.04	154	<5	
221208		9	2.08	69	<5	
221209		10	2.39	42	<5	
221210		33	3.83	46	10	
221211		17	4.07	77	<5	
221212		44	3.82	813	<5	
221213		39	2.35	105	<5	
221214		15	3.44	200	<5	
221215		8	2.94	133	<5	
221216		6	2.48	132	<5	
221217		7	2.54	116	<5	
221218		8	2.31	69	<5	
221219		10	2.69	80	<5	
221220		10	2.49	122	<5	
221221		17	3.19	192	<5	
221222		10	2.69	138	<5	
221223		12	2.83	277	<5	
221224		11	2.63	173	<5	
221225		11	2.43	340	<5	
221226		14	4.06	221	<5	
221227		9	2.70	172	<5	
221228		9	2.36	111	<5	
221229		8	2.28	75	<5	
221230		10	2.73	128	<5	
DETECTION LIMIT:		2	0.01	5	5	

COMMENTS:

ANALYTICAL REPORT

PAGE 12 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15259

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
221231		6	2.54	87	<5	
221232		8	2.67	58	<5	
221233		8	2.63	230	<5	
221234		6	2.05	42	<5	
221235		8	2.63	261	<5	
221236		6	2.29	56	<5	
221237		10	2.30	204	<5	
221238		16	2.99	246	<5	
221239		14	2.48	67	<5	
221240		25	3.36	196	<5	
221241		14	3.56	143	<5	
221242		9	3.19	59	<5	
221243		6	2.09	37	<5	
221244		7	2.05	59	<5	
221245		9	2.08	84	<5	
221246		17	2.44	163	<5	
221247		23	2.49	348	<5	
221248		11	2.14	298	<5	
221249		13	2.26	297	<5	
221250		12	2.39	312	<5	
221251		13	2.62	445	<5	
221252		13	2.19	303	<5	
221253		12	2.14	246	<5	
221254		13	2.18	226	<5	
221255		17	2.14	270	<5	
221256		11	2.15	207	<5	
221257		12	2.23	134	<5	
221258		10	2.29	165	<5	
221259		12	2.47	179	<5	
221260		13	2.46	181	<5	
DETECTION LIMIT:		2	0.01	5	5	

COMMENTS:

ANALYTICAL REPORT

PAGE 13 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
221261		11	2.24	201	<5	
221262		9	2.44	237	<5	
221263		10	2.38	143	<5	
221264		10	2.32	155	<5	
221265		13	2.42	182	<5	
221266		11	2.15	225	<5	
221267		10	2.12	238	<5	
221268		11	2.10	182	<5	
221269		12	1.94	275	<5	
221270		12	2.13	314	<5	
221271		12	2.21	330	<5	
221272		14	2.70	188	<5	
221273		11	2.36	154	<5	
221274		9	2.21	121	<5	
221275		10	2.12	191	<5	
221276		14	2.09	99	<5	
221277		9	2.02	174	<5	
221278		12	2.42	259	<5	
221279		9	2.09	62	<5	
221280		15	2.12	45	<5	
221281		14	2.44	40	<5	
221282		23	2.84	47	<5	
221283		12	2.35	47	<5	
221284		10	2.59	81	<5	
221285		5	2.15	31	<5	
221286		7	3.33	260	<5	
221287		7	3.63	60	<5	
221288		10	2.26	36	<5	
221289		12	2.90	176	<5	
221290		7	2.60	62	<5	
DETECTION LIMIT:		2	0.01	5	5	

COMMENTS:

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ANALYTICAL REPORT

PAGE 14 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
221291		6	2.37	114	<5	
221292		8	2.67	152	<5	
221293		8	2.60	223	<5	
221294		10	2.55	140	<5	
221295		9	2.45	78	<5	
221296		7	2.45	89	<5	
221297		9	3.16	261	<5	
221298		7	2.80	168	<5	
221299		5	3.10	57	<5	
221300		13	3.41	309	<5	
221401		9	2.69	102	<5	
221402		10	2.52	130	<5	
221403		12	2.40	177	<5	
221404		11	3.05	331	<5	
221405		14	2.34	112	<5	
221406		13	2.67	386	<5	
221407		15	2.26	234	<5	
221408		12	2.53	300	<5	
221409		11	2.19	366	<5	
221410		9	2.23	339	<5	
221411		8	2.25	323	<5	
221412		7	2.64	386	<5	
221413		10	2.45	369	<5	
221414		10	3.91	618	<5	
221415		11	3.76	176	<5	
221416		9	3.08	335	<5	
221417		9	2.60	105	<5	
221418		9	2.33	113	<5	
221419		10	2.78	212	<5	
221420		10	3.02	168	<5	
DETECTION LIMIT:		2	0.01	5	5	

COMMENTS:

Toowoomba Laboratory
Phone: (077) 79 9155 Fax: (077) 79 9729
Claremont Laboratory
Phone: (077) 87 4155 Fax: (077) 87 4220
Orange Laboratory
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Barraba Laboratory
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Perth Laboratory
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Kalgoorlie Laboratory
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Alice Springs Laboratory
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Mealy Mtn Laboratory
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ANALYTICAL REPORT

PAGE 15 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
	221421	9	3.02	257	<5	
	221422	12	3.31	237	<5	
	221423	12	3.24	180	<5	
	221424	12	3.46	281	<5	
	221425	11	2.67	173	<5	
	221426	16	3.18	153	<5	
	221427	23	4.19	295	<5	
	221428	24	3.53	252	<5	
	221429	8	3.61	71	<5	
	221430	17	4.07	116	<5	
	221431	12	3.05	156	<5	
	221432	10	2.68	82	<5	
	221433	19	5.15	135	<5	
	221434	7	3.15	95	<5	
	221435	9	3.62	102	<5	
	221436	9	4.08	70	<5	
	221437	8	2.66	73	<5	
	221438	8	3.25	116	<5	
	221439	9	2.65	179	<5	
	221440	11	2.69	274	<5	
	221441	12	2.75	186	<5	
	221442	14	3.23	248	<5	
	221443	28	3.67	349	<5	
	221444	15	3.31	91	<5	
	221445	14	3.11	154	<5	
	221446	7	3.08	161	<5	
	221447	5	2.36	48	<5	
	221448	7	2.59	102	<5	
	221449	5	2.22	49	<5	
	221450	3	2.27	38	<5	
DETECTION LIMIT:		2	0.01	5	5	

COMMENTS:

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ANALYTICAL REPORT

PAGE 16 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
221451		8	2.86	103	<5	
221452		11	3.71	292	<5	
221453		10	3.17	136	<5	
221454		9	2.94	110	<5	
221455		9	2.77	174	<5	
221456		11	2.68	171	<5	
221457		11	3.15	447	<5	
221458		13	2.91	255	<5	
221459		15	2.82	183	<5	
221460		19	3.56	293	<5	
221461		9	2.64	176	<5	
221462		9	2.56	169	<5	
221463		13	2.76	212	<5	
221464		9	3.29	149	<5	
221465		4	2.59	43	<5	
221466		5	3.04	91	<5	
221467		8	3.12	59	<5	
221468		4	2.93	39	<5	
221469		<2	2.33	28	<5	
221470		3	3.06	41	<5	
221471		4	2.21	34	<5	
221472		5	2.78	43	<5	
221473		12	3.62	237	<5	
221474		4	2.23	40	<5	
221475		3	2.34	41	<5	
221476		6	3.08	63	<5	
221477		7	2.84	69	<5	
221478		8	2.52	131	<5	
221479		10	2.94	146	<5	
221480		11	3.20	172	<5	
DETECTION LIMIT:		2	0.01	5	5	

COMMENTS:

Toowoomba Laboratory
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Alice Springs Laboratory
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ANALYTICAL REPORT

PAGE 17 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/03/93
DATE COMPLETED: 31/03/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
221481		11	5.24	69	<5	
221482		7	2.52	161	<5	
221483		12	2.84	302	<5	
221484		11	3.90	977	<5	
221485		13	2.27	203	<5	
221486		17	2.62	180	<5	
221487		13	2.32	128	<5	
221488		10	2.37	158	<5	
221489		9	2.42	121	<5	
221490		9	2.29	176	<5	
221491		11	2.20	100	<5	
221492		9	2.75	144	<5	
221493		16	2.78	252	<5	
221494		10	2.26	226	<5	
221495		4	1.75	60	<5	
221496		4	2.04	28	<5	
221497		4	1.67	30	<5	
221498		7	1.86	48	<5	
221499		6	1.89	49	<5	
221500		9	1.70	30	<5	
221501		8	3.07	251	<5	
221502		10	2.63	32	<5	
221503		5	1.44	33	<5	
221504		5	1.80	46	<5	
221505		7	2.74	440	<5	
221506		6	2.91	122	<5	
221507		6	2.21	59	<5	
221508		9	2.93	158	<5	
221509		4	1.64	27	<5	
221510		6	2.43	45	<5	
DETECTION LIMIT:		2	0.01	5	5	

COMMENTS:

ANALYTICAL REPORT

PAGE 18 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
221511		5	1.73	37	<5	
221512		6	1.73	36	<5	
221513		7	2.05	58	<5	
221514		8	1.91	63	<5	
221515		6	2.00	51	<5	
221516		8	2.39	76	<5	
221517		6	2.26	49	<5	
221518		9	2.50	53	<5	
221519		15	2.38	200	<5	
221520		31	2.91	632	<5	
221521		51	3.65	576	<5	
221522		8	1.85	110	<5	
221523		9	2.14	151	<5	
221524		10	2.66	72	<5	
221525		11	2.52	56	<5	
221526		13	2.99	131	<5	
221527		16	2.41	118	<5	
221528		21	3.44	227	<5	
221529		15	3.53	243	<5	
221530		23	8.36	131	5	
221531		13	3.39	256	<5	
221532		10	3.38	75	<5	
221533		11	3.15	157	<5	
221534		12	3.24	96	<5	
221535		18	5.14	160	<5	
221536		17	4.29	87	<5	
221537		9	3.85	62	<5	
221538		13	4.91	98	<5	
221539		25	2.65	185	<5	
221540		23	3.89	392	<5	
DETECTION LIMIT:		2	0.01	5	5	

COMMENTS:

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ANALYTICAL REPORT

PAGE 19 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
221541		9	2.60	207	<5	
221542		5	2.65	150	<5	
221543		9	2.59	183	<5	
221544		9	2.66	353	<5	
221545		9	3.02	344	<5	
221546		6	4.02	63	<5	
221547		4	2.64	41	<5	
221548		5	2.15	34	<5	
221549		5	3.22	74	<5	
221550		5	2.26	35	<5	
221551		5	2.13	33	<5	
221552		6	2.87	43	<5	
221553		6	2.86	50	<5	
221554		7	2.54	129	<5	
221555		14	3.10	262	<5	
221556		6	2.36	62	<5	
221557		8	3.31	175	<5	
221558		7	2.50	181	<5	
221559		9	2.84	100	<5	
221560		3	1.66	86	<5	
221561		7	2.08	155	<5	
221562		10	2.59	197	<5	
221563		11	2.53	230	<5	
221564		13	2.45	330	<5	
221565		19	2.81	360	<5	
221566		19	3.23	420	<5	
221567		3	2.81	132	<5	
221568		11	2.52	240	<5	
221569		7	2.34	178	<5	
221570		8	3.20	228	<5	
DETECTION LIMIT:		2	0.01	5	5	

COMMENTS:

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ANALYTICAL REPORT

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PAGE 20 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

ORDER No: 15959		SAMPLE TYPE: SOIL		PROJECT No:	
SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580
221571		8	2.92	42	<5
221572		6	2.65	46	<5
221573		8	2.53	95	<5
221574		15	2.95	206	<5
221575		14	3.01	118	<5
221576		12	2.83	204	<5
221577		13	3.19	268	<5
221578		11	2.63	269	<5
221579		24	2.85	314	<5
221580		13	2.70	412	<5
221581		13	3.14	432	<5
221582		9	2.89	171	<5
221583		8	3.28	308	<5
DETECTION LIMIT:		2	0.01	5	5

COMMENTS:

Tonawanda Laboratory
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Mt Isa Laboratory
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ANALYTICAL REPORT

PAGE 1 of 2

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLETYPE: QUALITY CONTROL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
*** 220909		6	2.43	64	<5	
*** 220919		7	1.85	35	<5	
*** 220929		13	2.42	310	<5	
*** 220953		4	2.53	218	<5	
*** 220963		3	3.09	77	<5	
*** 220973		7	2.65	224	<5	
*** 220997		7	2.63	83	<5	
*** 221007		5	2.25	37	<5	
*** 221017		10	2.33	81	<5	
*** 221041		15	2.45	256	<5	
*** 221051		20	2.21	181	<5	
*** 221061		9	1.97	32	<5	
*** 221085		7	3.48	502	<5	
*** 221095		8	2.41	45	<5	
*** 221105		12	2.23	207	<5	
*** 221129		10	2.12	85	<5	
*** 221139		9	3.07	50	<5	
*** 221149		6	2.01	141	<5	
*** 221173		11	2.36	65	<5	
*** 221183		19	2.32	235	<5	
*** 221193		17	2.80	125	<5	
*** 221217		7	2.56	116	<5	
*** 221227		9	2.71	173	<5	
*** 221237		10	2.28	206	<5	
*** 221261		11	2.32	205	<5	
*** 221271		11	2.23	327	<5	
*** 221281		15	2.59	43	<5	
*** 221405		15	2.48	118	<5	
*** 221415		11	3.99	183	<5	
*** 221425		10	2.81	185	<5	
DETECTION LIMIT:		2	0.01	5	5	

COMMENTS: Results which appear on this report are routine laboratory checks for QUALITY CONTROL purposes.

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ANALYTICAL REPORT

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CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-0

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 583
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLETYPE: QUALITY CONTROL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Cu ppm IC580	Fe % IC580	Mn ppm IC580	Bi ppm IC580	
*** 221449		4	2.68	59	<5	
*** 221459		18	3.12	198	<5	
*** 221469		<2	2.56	32	<5	
*** 221493		17	3.37	300	<5	
*** 221503		6	1.91	44	<5	
*** 221513		7	2.20	62	<5	
*** 221537		9	3.97	65	<5	
*** 221547		4	2.63	41	<5	
*** 221557		8	3.32	177	<5	
*** 221581		13	3.17	432	<5	
*** 221582		10	2.84	165	<5	
DETECTION LIMIT:		2	0.01	5	5	

COMMENTS:

Toowoomba Laboratory
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ANALYTICAL REPORT

PAGE 1 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0961

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-1

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959	SAMPLE TYPE: SOIL		PROJECT No:			
SAMPLE NUMBER	ELEMENT UNIT METHOD	Au ppb PM205	Au(R) ppb CHECKS			
220901		<1	<1			
220902		<1				
220903		<1				
220904		1				
220905		2				
220906		<1				
220907		2				
220908		<1				
220909		<1	<1			
220910		<1				
220911		<1				
220912		<1				
220913		<1				
220914		<1				
220915		<1				
220916		<1				
220917		<1				
220918		<1				
220919		<1				
220920		<1				
220921		<1	<1			
220922		<1				
220923		<1				
220924		<1				
220925		<1				
220926		<1				
220927		<1				
220928		<1				
220929		<1	1			
220930		<1				
DETECTION LIMIT:		1	1			

COMMENTS:

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ANALYTICAL REPORT

PAGE 2 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-1

CONTACT: MR J SCHUSTAUREAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Au ppb PM205	Au(R) ppb CHECKS			
220931		<1				
220932		<1				
220933		1				
220934		1				
220935		1				
220936		2				
220937		<1				
220938		<1				
220939		1				
220940		1				
220941		1				
220942		1	2			
220943		<1				
220944		1				
220945		<1				
220946		1				
220947		2				
220948		2				
220949		2				
220950		1	1			
220951		2				
220952		<1				
220953		1				
220954		2				
220955		<1	1			
220956		2				
220957		<1				
220958		1				
220959		3				
220960		2				
DETECTION LIMIT:		1	1			

COMMENTS:

Toowoomba Laboratory
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Charters Towers Laboratory
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Bathurst Laboratory
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Perth Laboratory
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Kalgoorlie Laboratory
Phone: (090) 21 1457 Fax: (090) 21 6263
Alice Springs Laboratory
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Mt Isa Laboratory
Phone: (077) 49 5546 Fax: (077) 48 5546

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ANALYTICAL REPORT

PAGE 3 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-1

CONTACT: MR J SCHUSTAUREAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Au ppb PM205	Au (R) ppb CHECKS			
220961		2				
220962		2				
220963		1	1			
220964		2				
220965		1				
220966		2				
220967		1				
220968		<1	1			
220969		<1				
220970		<1				
220971		1				
220972		<1				
220973		<1				
220974		1				
220975		<1				
220976		<1	<1			
220977		1				
220978		1				
220979		<1				
220980		<1				
220981		<1				
220982		1				
220983		<1				
220984		1				
220985		<1				
220986		<1				
220987		<1				
220988		<1				
220989		<1	<1			
220990		<1				
DETECTION LIMIT:		1	1			

COMMENTS:

Townsville Laboratory
Phone: (077) 79 9155 Fax: (077) 79 9729
Charters Towers Laboratory
Phone: (077) 87 4155 Fax: (077) 87 4220
Orange Laboratory
Phone: (063) 63 1722 Fax: (063) 63 1189
Bathurst Laboratory
Phone: (054) 46 1390 Fax: (054) 46 1399

Perth Laboratory
Phone: (09) 249 2988 Fax: (09) 249 2942
Kalgoorlie Laboratory
Phone: (090) 21 1457 Fax: (090) 21 6253
Alice Springs Laboratory
Phone: (089) 52 6020 Fax: (089) 52 6028
Mealy Mtn Laboratory
Phone: (077) 49 5545 Fax: (077) 48 5548

ANALYTICAL REPORT

PAGE 4 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-1

CONTACT: MR J SCHUSTAUBAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Au ppb PM205	Au(R) ppb CHECKS			
220991		<1				
220992		<1				
220993		<1				
220994		<1				
220995		<1				
220996		<1				
220997		<1	<1			
220998		<1				
220999		<1				
221000		<1				
221001		<1				
221002		<1				
221003		<1				
221004		<1				
221005		<1				
221006		<1				
221007		<1				
221008		<1				
221009		<1				
221010		<1	<1			
221011		<1				
221012		<1				
221013		<1				
221014		<1				
221015		<1				
221016		<1				
221017		<1				
221018		<1	<1			
221019		<1				
221020		<1				
DETECTION LIMIT:		1	1			

COMMENTS:

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ANALYTICAL REPORT

PAGE 5 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-1

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/03/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Au ppb FM205	Au(R) ppb CHECKS			
	221021	<1				
	221022	<1				
	221023	<1	<1			
	221024	<1				
	221025	<1				
	221026	<1				
	221027	<1				
	221028	<1				
	221029	<1				
	221030	<1				
	221031	<1	<1			
	221032	<1				
	221033	<1				
	221034	<1				
	221035	<1				
	221036	<1	1			
	221037	<1				
	221038	<1				
	221039	<1				
	221040	<1				
	221041	<1				
	221042	<1				
	221043	<1				
	221044	<1	<1			
	221045	<1				
	221046	<1				
	221047	<1				
	221048	<1				
	221049	<1				
	221050	<1				
DETECTION LIMIT:		1	1			

COMMENTS:

Townsville Laboratory
Phone: (077) 79 9155 Fax: (077) 79 9729
Charters Towers Laboratory
Phone: (077) 87 4155 Fax: (077) 87 4220
Orange Laboratory
Phone: (063) 63 1722 Fax: (063) 63 1189
Bendigo Laboratory
Phone: (054) 46 1390 Fax: (054) 46 1389

Perth Laboratory
Phone: (08) 249 2988 Fax: (08) 249 2942
Kalgoorlie Laboratory
Phone: (080) 21 1457 Fax: (080) 21 6253
Alice Springs Laboratory
Phone: (089) 52 6020 Fax: (089) 52 6028
Mekeel Laboratory
Phone: (077) 49 5545 Fax: (077) 49 5546

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ANALYTICAL REPORT

PAGE 6 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-1

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Au ppb FM205	Au(R) ppb CHECKS			
221051		<1				
221052		<1				
221053		<1				
221054		<1				
221055		1				
221056		<1				
221057		<1	<1			
221058		<1				
221059		<1				
221060		<1				
221061		<1				
221062		<1				
221063		<1				
221064		<1				
221065		<1	<1			
221066		<1				
221067		<1				
221068		<1				
221069		<1				
221070		1				
221071		<1				
221072		19	35			
221073		1				
221074		2				
221075		<1				
221076		<1				
221077		<1				
221078		<1	2			
221079		<1				
221080		<1				
DETECTION LIMIT:		1	1			

COMMENTS:

Townsville Laboratory
Phone: (077) 79 9155 Fax: (077) 79 9729
Cairns Towers Laboratory
Phone: (077) 87 4155 Fax: (077) 87 4220
Cairns Laboratory
Phone: (063) 63 1722 Fax: (063) 63 1189
Bendigo Laboratory
Phone: (054) 48 1390 Fax: (054) 48 1389

Perth Laboratory
Phone: (09) 249 2988 Fax: (09) 249 2942
Kalgoorlie Laboratory
Phone: (080) 21 1457 Fax: (080) 21 6253
Alice Springs Laboratory
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PAGE 7 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: A943-1

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Au ppb PM205	Au(R) ppb CHECKS			
221081		<1				
221082		<1				
221083		<1				
221084		<1				
221085		<1				
221086		<1	<1			
221087		<1				
221088		<1				
221089		1				
221090		1				
221091		2	2			
221092		1				
221093		<1				
221094		<1				
221095		<1				
221096		<1				
221097		<1				
221098		<1				
221099		1	2			
221100		<1				
221101		2				
221102		<1				
221103		<1				
221104		1	1			
221105		1				
221106		1				
221107		2				
221108		3				
221109		2				
221110		<1				
DETECTION LIMIT:		1	1			

COMMENTS:

Townsville Laboratory
Phone: (077) 79 9155 Fax: (077) 79 9729
Claremont Laboratory
Phone: (077) 67 4155 Fax: (077) 67 4220
Orange Laboratory
Phone: (063) 63 1722 Fax: (063) 63 1189
Bendigo Laboratory
Phone: (054) 46 1390 Fax: (054) 46 1389

Perth Laboratory
Phone: (08) 249 2988 Fax: (08) 249 2942
Kalgoorlie Laboratory
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Alice Springs Laboratory
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ANALYTICAL REPORT

PAGE 8 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-1

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLETYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Au ppb PM205	Au(R) ppb CHECKS			
221111		<1				
221112		1	2			
221113		<1				
221114		<1				
221115		<1				
221116		<1				
221117		<1				
221118		<1				
221119		<1				
221120		<1				
221121		2				
221122		<1				
221123		1				
221124		<1				
221125		<1	1			
221126		<1				
221127		6	12			
221128		<1				
221129		<1				
221130		1				
221131		1				
221132		<1				
221133		<1	<1			
221134		<1				
221135		<1				
221136		<1				
221137		<1				
221138		2				
221139		2				
221140		2				
DETECTION LIMIT:		1	1			

COMMENTS:

Townsville Laboratory
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Cairns Laboratory
Phone: (077) 87 4155 Fax: (077) 87 4220
Oakey Laboratory
Phone: (083) 63 1722 Fax: (083) 63 1186
Bendigo Laboratory
Phone: (054) 48 1380 Fax: (054) 48 1389

Perth Laboratory
Phone: (09) 249 2988 Fax: (09) 249 2942
Kalgoorlie Laboratory
Phone: (080) 21 1457 Fax: (080) 21 6253
Alice Springs Laboratory
Phone: (089) 52 6020 Fax: (089) 52 6028
Mt Isa Laboratory
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ANALYTICAL REPORT

PAGE 9 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-1

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Au ppb PM205	Au(R) ppb CHECKS			
221141		2				
221142		<1				
221143		<1				
221144		4				
221145		3				
221146		1	2			
221147		<1				
221148		1				
221149		<1				
221150		<1				
221151		<1				
221152		<1				
221153		<1				
221154		2	2			
221155		<1				
221156		<1				
221157		<1				
221158		<1				
221159		3	3			
221160		2				
221161		1				
221162		2				
221163		5				
221164		<1				
221165		1				
221166		2				
221167		<1	<1			
221168		<1				
221169		1				
221170		<1				
DETECTION LIMIT:		1	1			

COMMENTS:

Townsville Laboratory
Phone: (077) 79 9155 Fax: (077) 79 9729
Cairns Laboratory
Phone: (077) 87 4155 Fax: (077) 87 4220
Cape Laboratory
Phone: (083) 63 1722 Fax: (083) 63 1189
Bendigo Laboratory
Phone: (054) 48 1390 Fax: (054) 48 1398

Perth Laboratory
Phone: (08) 249 2988 Fax: (08) 249 2942
Kalgoorlie Laboratory
Phone: (080) 21 1457 Fax: (080) 21 6253
Alice Springs Laboratory
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ANALYTICAL REPORT

PAGE 10 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-1

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Au ppb PM205	Au(R) ppb CHECKS			
221171		<1				
221172		<1	<1			
221173		<1				
221174		<1				
221175		1				
221176		<1				
221177		<1				
221178		4				
221179		<1				
221180		<1	<1			
221181		<1				
221182		<1				
221183		<1				
221184		<1				
221185		<1				
221186		<1				
221187		<1				
221188		<1				
221189		<1				
221190		<1				
221191		<1				
221192		<1				
221193		1	1			
221194		1				
221195		2				
221196		<1				
221197		1				
221198		2				
221199		2				
221200		2				
DETECTION LIMIT:		1	1			

COMMENTS:

Townsville Laboratory
Phone: (077) 79 9155 Fax: (077) 79 9729
Charters Towers Laboratory
Phone: (077) 87 4155 Fax: (077) 87 4220
Onde Laboratory
Phone: (083) 63 1722 Fax: (083) 63 1189
Bendigo Laboratory
Phone: (054) 48 1390 Fax: (054) 48 1389

Perth Laboratory
Phone: (09) 249 2988 Fax: (09) 249 2942
Kalgoorlie Laboratory
Phone: (090) 21 1457 Fax: (090) 21 6253
Alice Springs Laboratory
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ANALYTICAL REPORT

PAGE 11 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-1

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Au ppb PM205	Au(R) ppb CHECKS			
221201		3	3			
221202		2				
221203		6	3			
221204		4				
221205		2				
221206		3				
221207		2				
221208		2				
221209		2				
221210		4	8			
221211		39	37			
221212		2				
221213		4				
221214		3	5			
221215		5				
221216		1				
221217		<1				
221218		1				
221219		<1				
221220		<1				
221221		1				
221222		<1	<1			
221223		<1				
221224		<1				
221225		2				
221226		3				
221227		<1	1			
221228		<1				
221229		<1				
221230		6				
DETECTION LIMIT:		1	1			

COMMENTS:

Townsville Laboratory
Phone: (077) 79 9155 Fax: (077) 79 9729
Claremont Laboratory
Phone: (077) 87 4155 Fax: (077) 87 4220
Orange Laboratory
Phone: (063) 63 1722 Fax: (063) 63 1189
Bendigo Laboratory
Phone: (054) 48 1380 Fax: (054) 48 1389

Perth Laboratory
Phone: (09) 249 2988 Fax: (09) 249 2942
Geelong Laboratory
Phone: (090) 21 1457 Fax: (090) 21 6253
Alice Springs Laboratory
Phone: (089) 52 6020 Fax: (089) 52 6028
Mt Isa Laboratory
Phone: (077) 48 5545 Fax: (077) 48 5546

ANALYTICAL REPORT

PAGE 12 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-1

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Au ppb PM205	Au(R) ppb CHECKS			
221231		5				
221232		2				
221233		2				
221234		1				
221235		2	2			
221236		3				
221237		4				
221238		62	64			
221239		6	21			
221240		15	17			
221241		31	31			
221242		5	15			
221243		7	8			
221244		5	11			
221245		5				
221246		5				
221247		1				
221248		<1	<1			
221249		<1				
221250		1				
221251		<1				
221252		<1				
221253		<1				
221254		<1				
221255		<1				
221256		<1				
221257		<1				
221258		<1				
221259		<1				
221260		<1				
DETECTION LIMIT:		1	1			

COMMENTS:

ANALYTICAL REPORT

PAGE 13 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-1

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Au ppb PM205	Au(R) ppb CHECKS			
221261		<1	<1			
221262		<1				
221263		<1				
221264		<1				
221265		<1				
221266		<1				
221267		<1				
221268		<1				
221269		<1	<1			
221270		<1				
221271		<1				
221272		<1				
221273		<1				
221274		2				
221275		3				
221276		1				
221277		1				
221278		2				
221279		<1				
221280		4				
221281		5				
221282		<1	1			
221283		<1				
221284		1				
221285		<1				
221286		1				
221287		6	12			
221288		4				
221289		3	6			
221290		4	5			
DETECTION LIMIT:		1	1			

COMMENTS:

ANALYTICAL REPORT

PAGE 14 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-1

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Au ppb PM205	Au(R) ppb CHECKS			
221291		<1				
221292		<1				
221293		<1				
221294		<1				
221295		<1	<1			
221296		<1				
221297		<1				
221298		<1				
221299		<1				
221300		<1				
221401		<1				
221402		<1				
221403		<1	<1			
221404		<1				
221405		<1				
221406		<1				
221407		<1				
221408		<1	<1			
221409		<1				
221410		1				
221411		<1				
221412		<1				
221413		<1				
221414		<1				
221415		<1				
221416		<1	<1			
221417		<1				
221418		<1				
221419		<1				
221420		<1				
DETECTION LIMIT:		1	1			

COMMENTS:

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ANALYTICAL REPORT

PAGE 15 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-1

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Au ppb PM205	Au(R) ppb CHECKS			
221421		<1				
221422		<1				
221423		<1				
221424		<1				
221425		<1				
221426		<1				
221427		<1				
221428		<1				
221429		<1	<1			
221430		<1				
221431		<1				
221432		<1				
221433		<1				
221434		<1				
221435		<1				
221436		<1				
221437		<1	<1			
221438		<1				
221439		<1				
221440		<1				
221441		<1				
221442		2				
221443		4				
221444		3				
221445		1				
221446		<1				
221447		<1				
221448		3				
221449		2				
221450		1	1			
DETECTION LIMIT:		1	1			

COMMENTS:

Townsville Laboratory
Phone: (077) 79 9155 Fax: (077) 79 9729
Claremont Laboratory
Phone: (077) 87 4155 Fax: (077) 87 4220
Orange Laboratory
Phone: (083) 63 1722 Fax: (083) 63 1189
Bendigo Laboratory
Phone: (054) 46 1390 Fax: (054) 46 1388

Perth Laboratory
Phone: (08) 249 2988 Fax: (08) 249 2942
Kalgoorlie Laboratory
Phone: (080) 21 1457 Fax: (080) 21 6253
Alice Springs Laboratory
Phone: (089) 52 6020 Fax: (089) 52 6028
Mt Isa Laboratory
Phone: (077) 48 5545 Fax: (077) 48 5546

**AUSTRALIAN
LABORATORY
SERVICES P/L**
A.C.N. 009 936 029

Brisbane Head Office and Laboratory
32 Shand Street, Stafford, Q. 4053
P.O. Box 66, Everton Park, Q. 4053
Telephone: (07) 352 5577
Facsimile: (07) 352 5109

ANALYTICAL REPORT

PAGE 16 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0961

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-1

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Au ppb PM205	Au(R) ppb CHECKS			
221451		2				
221452		2				
221453		2				
221454		1				
221455		2				
221456		2				
221457		1				
221458		<1	1			
221459		2				
221460		2				
221461		<1				
221462		<1				
221463		<1	<1			
221464		<1				
221465		<1				
221466		<1				
221467		1				
221468		1				
221469		<1				
221470		1				
221471		<1	<1			
221472		<1				
221473		<1				
221474		<1				
221475		<1				
221476		<1	<1			
221477		<1				
221478		<1				
221479		<1				
221480		<1				
DETECTION LIMIT:		1	1			

COMMENTS:

Townsville Laboratory
Phone: (077) 79 9155 Fax: (077) 79 9729
Claremont Laboratory
Phone: (077) 87 4155 Fax: (077) 87 4220
Orange Laboratory
Phone: (063) 63 1722 Fax: (063) 63 1189
Bendigo Laboratory
Phone: (054) 48 1390 Fax: (054) 48 1389

Perth Laboratory
Phone: (08) 249 2988 Fax: (08) 249 2942
Kalgoorlie Laboratory
Phone: (080) 21 1457 Fax: (080) 21 6253
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ANALYTICAL REPORT

PAGE 17 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-1

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Au ppb PM205	Au(R) ppb CHECKS			
221481		<1				
221482		<1				
221483		<1				
221484		<1	<1			
221485		<1				
221486		<1				
221487		<1				
221488		<1				
221489		<1				
221490		<1				
221491		<1				
221492		<1				
221493		<1				
221494		<1				
221495		<1				
221496		<1				
221497		<1	<1			
221498		<1				
221499		<1				
221500		<1				
221501		<1				
221502		<1				
221503		<1				
221504		<1				
221505		<1	<1			
221506		<1				
221507		<1				
221508		<1				
221509		<1				
221510		<1				
DETECTION LIMIT:		1	1			

COMMENTS:

Townsville Laboratory
Phone: (077) 79 9155 Fax: (077) 79 9729
Claremont Laboratory
Phone: (077) 87 4155 Fax: (077) 87 4220
Orange Laboratory
Phone: (063) 63 1722 Fax: (063) 63 1189
Bendigo Laboratory
Phone: (054) 46 1390 Fax: (054) 46 1389

Perth Laboratory
Phone: (09) 249 2988 Fax: (09) 249 2942
Kalgoorlie Laboratory
Phone: (080) 21 1457 Fax: (080) 21 6253
Alice Springs Laboratory
Phone: (089) 52 6020 Fax: (089) 52 6028
Mt Isa Laboratory
Phone: (077) 49 5545 Fax: (077) 49 5548



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Facsimile: (07) 352 5109

ANALYTICAL REPORT

PAGE 18 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: AS43-1

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	Au ppb PM205	Au(R) ppb CHECKS			
221511		<1				
221512		<1				
221513		<1				
221514		4				
221515		<1				
221516		<1				
221517		<1				
221518		<1	<1			
221519		<1				
221520		<1				
221521		<1				
221522		<1				
221523		1				
221524		<1				
221525		<1				
221526		<1	1			
221527		<1				
221528		<1				
221529		<1				
221530		<1				
221531		<1	<1			
221532		<1				
221533		1				
221534		1				
221535		<1				
221536		<1				
221537		<1				
221538		<1				
221539		<1	<1			
221540		<1				
DETECTION LIMIT:		1	1			

COMMENTS:

Townsville Laboratory
Phone: (077) 79 9155 Fax: (077) 79 9729
Clare Towers Laboratory
Phone: (077) 87 4155 Fax: (077) 87 4220
Orange Laboratory
Phone: (063) 63 1722 Fax: (063) 63 1189
Bendigo Laboratory
Phone: (054) 46 1390 Fax: (054) 46 1389

Perth Laboratory
Phone: (09) 249 2988 Fax: (09) 249 2942
Kalgoorlie Laboratory
Phone: (090) 21 1457 Fax: (090) 21 8253
Alice Springs Laboratory
Phone: (089) 52 8020 Fax: (089) 52 8028
Mt Isa Laboratory
Phone: (077) 49 5545 Fax: (077) 48 5546

ANALYTICAL REPORT

PAGE 19 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRINGS
BATCH NUMBER: A943-1

CONTACT: MR J SCHUSTAURBAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15959

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	AU PPB FM205	AL (P) PPB CHECKS			
221541		<1				
221542		<1				
221543		<1				
221544		<1	<1			
221545		<1				
221546		<1				
221547		<1				
221548		<1				
221549		<1				
221550		<1				
221551		<1				
221552		<1	<1			
221553		<1				
221554		<1				
221555		<1				
221556		<1				
221557		<1				
221558		<1				
221559		<1				
221560		<1				
221561		<1				
221562		<1				
221563		<1				
221564		<1				
221565		<1	<1			
221566		<1				
221567		<1				
221568		<1				
221569		<1				
221570		<1				
DETECTION LIMIT:		1	1			

COMMENTS:

ANALYTICAL REPORT

PAGE 20 of 20

CLIENT: POSEIDON GOLD LTD
ADDRESS: TENNANT CREEK OPERATION
P O BOX 294
TENNANT CREEK NT 0861

LABORATORY: ALICE SPRING
BATCH NUMBER: AS43-1

CONTACT: MR J SCHUSTAUBAUER

No. of SAMPLES: 594
DATE RECEIVED: 08/08/93
DATE COMPLETED: 31/08/93

ORDER No: 15859

SAMPLE TYPE: SOIL

PROJECT No:

SAMPLE NUMBER	ELEMENT UNIT METHOD	AU ppb FM205	AU (P) ppb CHECKS			
	221571	<1				
	221572	<1				
	221573	<1	<1			
	221574	<1				
	221575	<1				
	221576	<1				
	221577	<1				
	221578	2				
	221579	3				
	221580	1				
	221581	1				
	221582	1				
	221583	<1				
	*** FB 20	19				
	*** FB 20	20				
	*** FB 20	21				
	*** FB 20	21				
	*** FB 20	21				
	*** FB 20	20				
	*** FB 20	19				
	*** FB 20	19				
	*** FB 20	19				
	*** FB 20	21				
	*** FB 20	22				
DETECTION LIMIT:		1	1			

COMMENTS:

APPENDIX TWO

VACUUM BEDROCK LITHOLOGIES AND ASSAY DATA

SL	siltstone
QP	quartz porphyry
QZT	quartzite
LAMP	lamprophyre
qV	quartz veining
h	haematite staining
c	chlorite
li	limonite staining
Au	ppb
Cu	ppm
Bi	ppm

EL - 8024 MARYLANE VACUUM LITHOLOGIES AND ASSAY DATA

BHID	SNN	EASTING	NORTHING	LITHO	AU	CU	BI
HWVC-001	366601	409900	7834100	SL	1	3	TR
HWVC-002	366602	409900	7834050	SL	TR	2	TR
HWVC-003	366603	409900	7834000	SL	TR	TR	TR
HWVC-004	366604	409900	7833951	SL	TR	3	TR
HWVC-005	366605	409900	7833900	SL/qV	TR	4	TR
HWVC-006	366606	409900	7833850	SL	TR	TR	TR
HWVC-007	366607	409900	7833800	SL	TR	4	TR
HWVC-008	366608	409900	7833751	SL/h	TR	3	TR
HWVC-009	366609	409900	7833700	QP	TR	6	TR
HWVC-010	366610	410000	7833700	QP	1	6	2
HWVC-011	366611	410000	7833751	SL	TR	11	19
HWVC-012	366612	410000	7833800	SL/qV	TR	2	TR
HWVC-013	366613	410000	7833850	SL	1	3	1
HWVC-014	366614	410000	7833900	SL	TR	2	TR
HWVC-015	366615	410000	7833951	SL	TR	2	TR
HWVC-016	366616	410000	7834000	SL	TR	6	TR
HWVC-017	366617	410000	7834050	SL	TR	3	TR
HWVC-018	366618	410000	7834100	SL/h	2	3	TR
HWVC-019	366619	410100	7834100	SL	2	7	TR
HWVC-020	366620	410100	7834050	SL/h	TR	4	TR
HWVC-021	366621	410100	7834000	SL/c/qV	1	14	TR
HWVC-022	366621	410100	7833951	SL	1	14	TR
HWVC-023	366623	410100	7833900	SL	1	4	TR
HWVC-024	366624	410100	7833850	SL	TR	4	TR
HWVC-025	366625	410100	7833800	SL/qV	TR	7	TR
HWVC-026	366626	410100	7833751	SL/h	TR	4	TR
HWVC-027	366627	410100	7833700	QP	TR	6	TR
HWVC-028	366628	410200	7833650	SL/h	TR	15	1
HWVC-029	366629	410200	7837000	SL	4	43	2
HWVC-030	366630	410200	7833751	SL	TR	8	TR
HWVC-031	366631	410200	7833800	SL	2	3	TR
HWVC-032	366632	410200	7833850	SL/qV	2	8	1
HWVC-033	366633	410200	7833900	SL	TR	TR	TR
HWVC-034	366634	410200	7833951	SL/h	TR	2	TR
HWVC-035	366635	410200	7834000	SL	TR	TR	TR
HWVC-036	366636	410300	7834000	SL/h	2	3	TR
HWVC-037	366637	410300	7833951	SL/h	TR	2	TR
HWVC-038	366638	410300	7833900	SL	TR	TR	TR
HWVC-039	366639	410300	7833850	SL/h	TR	2	TR
HWVC-040	366640	410300	7833800	SL	TR	4	TR
HWVC-041	366642	410300	7833751	SL	TR	4	TR
HWVC-042	366643	410300	7833700	SL	TR	14	TR
HWVC-043	366644	410300	7833650	SL/h	TR	3	TR
HWVC-044	366645	410300	7833151	SL	TR	4	TR
HWVC-045	366646	410400	7833650	SL/qV	TR	14	TR
HWVC-046	366647	410400	7833700	SL	TR	21	2
HWVC-047	366648	410400	7833751	SL	TR	10	3
HWVC-048	366649	410400	7833800	QZT	8	36	2
HWVC-049	366650	410400	7833850	SL/li	1	5	TR
HWVC-050	366651	410400	7833900	SL/h	TR	3	1
HWVC-051	366652	410400	7833951	SL/h	TR	2	1
HWVC-052	366653	410400	7834000	SL	TR	3	TR
HWVC-053	366654	410500	7834000	SL/h	2	4	TR
HWVC-054	366655	410500	7833951	SL/h	2	4	TR
HWVC-055	366656	410500	7833900	SL	TR	3	TR
HWVC-056	366657	410500	7833850	SL/h	3	5	TR
HWVC-057	366658	410500	7833800	LAMP ?	TR	9	TR
HWVC-058	366659	410500	7833751	SL	10	14	1
HWVC-059	366660	410500	7833700	SL	7	15	TR

EL - 8024 MARYLANE VACUUM LITHOLOGIES AND ASSAY DATA

BHID	SNN	EASTING	NORTHING	LITHO	AU	CU	BI
HWVC-060	366661	410500	7833650	SL	1	3	TR
HWVC-061	366662	410500	7833600	SL	3	2	TR
HWVC-062	366663	410500	7833551	SL	3	3	TR
HWVC-063	366664	410600	7833551	SL/li	2	2	TR
HWVC-064	366665	410600	7833600	SL/h	5	4	TR
HWVC-065	366666	410600	7833650	SL/qv	1	4	TR
HWVC-066	366667	410600	7833700	SL/h	TR	2	TR
HWVC-067	366668	410600	7833751	SL/h	TR	2	TR
HWVC-068	366669	410600	7833800	SL/h	1	2	TR
HWVC-069	366670	410600	7833850	SL/h	1	3	1
HWVC-070	366671	410600	7833900	SL/h	1	91	1
HWVC-071	366672	410700	7833900	SL/q	TR	78	TR
HWVC-072	366673	410700	7833850	SL	TR	3	TR
HWVC-073	366674	410700	7833800	SL/h	TR	5	TR
HWVC-074	366675	410700	7833751	SL/h	TR	2	TR
HWVC-075	366676	410700	7833700	SL	1	2	TR
HWVC-076	366677	410700	7833650	SL	TR	4	TR
HWVC-077	366678	410700	7833600	SL/h	1	12	1
HWVC-078	366679	410700	7833551	SL/h	TR	50	4
HWVC-079	366680	410700	7833500	SL/li	TR	8	1
HWVC-080	366681	410700	7833450	SL	TR	21	2
HWVC-081	366683	410800	7833450	SL	TR	8	TR
HWVC-082	366684	410800	7833500	SL/LAMP	1	40	1
HWVC-083	366685	410800	7833551	LAMP	TR	159	1
HWVC-084	366686	410800	7833600	SL	TR	6	1
HWVC-085	366687	410800	7833650	SL	TR	2	1
HWVC-086	366688	410800	7833700	SL	TR	TR	TR
HWVC-087	366689	410800	7833751	SL	TR	TR	TR
HWVC-088	366690	410800	7833800	SL	TR	3	TR
HWVC-089	366691	410800	7833850	SL/h	TR	2	TR
HWVC-090	366692	410800	7833900	SL	TR	3	TR
HWVC-091	366693	410800	7833951	SL	TR	19	TR
HWVC-092	366694	410400	7833500	SL	-	-	-
HWVC-093	366695	410400	7833450	SL	TR	7	TR
HWVC-094	366696	410400	7833400	SL	TR	3	TR
HWVC-095	366697	410400	7833351	SL	3	4	TR
HWVC-096	366698	410400	7833300	5	2	21	1
HWVC-097	366699	410400	7833250	SL	1	10	TR
HWVC-098	366700	410400	7833200	SL	TR	2	TR
HWVC-099	366701	410500	7833200	SL	2	5	TR
HWVC-100	366702	410500	7833250	SL	TR	9	4
HWVC-101	366703	410500	7833300	SL	1	6	TR
HWVC-102	366704	410500	7833351	SL	1	5	TR
HWVC-103	366705	410500	7833400	SL	TR	21	TR
HWVC-104	366706	410500	7833450	SL	1	22	TR
HWVC-105	366707	410500	7833500	SL	5	4	TR
HWVC-106	366708	410600	7833500	SL	1	4	1
HWVC-107	366709	410600	7833450	SL/h	TR	6	TR
HWVC-108	366710	410600	7833400	SL	TR	21	1
HWVC-109	366711	410600	7833351	LAMP	1	133	TR
HWVC-110	366712	410600	7833300	SL	TR	6	TR
HWVC-111	366713	410600	7833250	SL	TR	4	TR
HWVC-112	366714	410600	7833200	SL	TR	7	TR
HWVC-113	366715	410600	7833151	SL	TR	9	TR
HWVC-114	366716	410700	7833151	SL	TR	4	TR
HWVC-115	366717	410700	7833200	SL	TR	3	TR
HWVC-116	366718	410700	7833250	SL/h	TR	8	TR
HWVC-117	366719	410700	7833300	SL	TR	11	TR
HWVC-118	366720	410700	7833351	SL	1	11	TR

EL - 8024 MARYLANE VACUUM LITHOLOGIES AND ASSAY DATA

BHID	SNN	EASTING	NORTHING	LITHO	AU	CU	BI
HWVC-119	366721	410700	7833400	SL	TR	5	TR
HWVC-120	366722	410800	7833400	SL	TR	6	2
HWVC-121	366724	410800	7833351	SL	TR	3	TR
HWVC-122	366725	410800	7833300	SL	TR	27	TR
HWVC-123	366726	410800	7833250	SL	TR	4	TR
HWVC-124	366727	410800	7833200	SL	TR	23	1
HWVC-125	366728	410800	7833200	SL	TR	13	TR

APPENDIX THREE

ROCK CHIP ASSAY RESULTS AND DESCRIPTIONS

ROCK CHIP SAMPLING - EL 8024

Sample Number	Easting	Northing (prefix 78-)	Au (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Bi (ppm)	Fe (%)	Mn (ppm)
285401	409200	33950	0.09	<5	49	54	7	490	13.80	105
285402	409200	33900	0.04	<5	20	19	6	195	14.50	130
285403	409200	33750	<0.02	<5	4	3	4	<1	4.04	95
285404	409200	33550	<0.02	<5	12	18	6	<1	15.30	120
285405	409200	33000	<0.02	10	62	10	6	.1	18.20	64
285406	409600	33700	<0.02	<5	12	8	6	<1	5.16	135
285407	410600	33800	<0.02	<5	29	3	13	<1	13.70	480

ROCK DESCRIPTIONS

Sample No. 285401

Highly altered sediments, pervasive alteration of haematite after magnetite + quartz + sericite.

Sample No. 285402

- a. Highly altered quartz-schist, possibly metasilstone, with abundant magnetite crystals, slightly oxidised to haematite.
- b. (Sample assayed) Massive haematite, fractured and limonite.

Sample No. 285403

Coarse haematite metamorphosed greywacke + magnetite + sericite.

Sample No. 285404

Massive haematite rock containing shears/fractures infilled with limonite + sericite.

Sample No. 285405

Cryptocrystalline ferruginous and jasperoidal quartz rock containing anhedral haematite blebs.

Sample No. 285406

Quartz/tourmaline rock exhibiting syntaxial growth texture and minor haematite manganese spots present along fractures.

Sample No. 285407

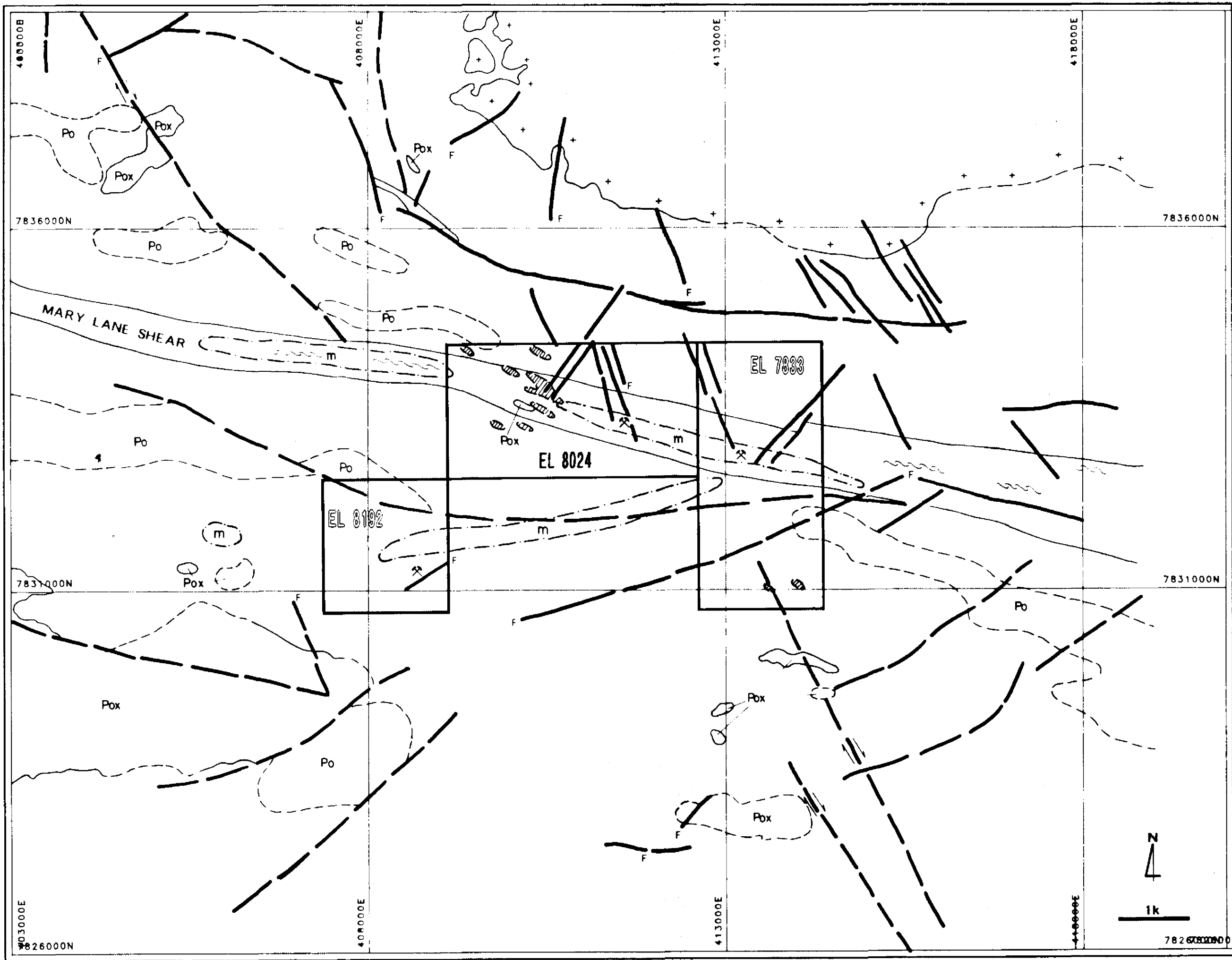
Medium grained brown-purple haematitic rock and milky quartz veins present.

APPENDIX FOUR

BIBLIOGRAPHIC DATA SHEET

BIBLIOGRAPHIC DATA-SHEET

REPORT NUMBER	11770
REPORT NAME	FINAL REPORT FOR EXPLORATION LICENCE 8024 FOR THE PERIOD 28/4/93 TO 1/9/94, TENNANT CREEK DISTRICT, NORTHERN TERRITORY, MARY LANE PROSPECT
PROSPECT NAME(S)	EL 8024 MARY LANE PROSPECT
OWNER/JV PARTNERS	POSEIDON GOLD LIMITED
KEYWORDS	WARRAMUNGA GROUP SHEAR ZONE SOIL SAMPLING ROCK CHIP SAMPLING VACUUM DRILLING GEOCHEMISTRY
COMMODITIES	GOLD, COPPER
TECTONIC UNIT	WARRAMUNGA GROUP
1:250,000 MAP SHEET	TENNANT CREEK SE 53-14
1:100,000 MAP SHEET	FLYNN 52/2



CR 9.4 GE 903

- + + Granite
- Po Porphyry
- Pox Felsic Porphyry

STRUCTURAL

- Shear Zone
- Fault

GEOPHYSICAL

- Magnetic Lineament
- Magnetic High
- m Magnetic Anomaly

GEOCHEMICAL

- Geochemical Anomaly

TENURE

- EL Boundaries

MINES

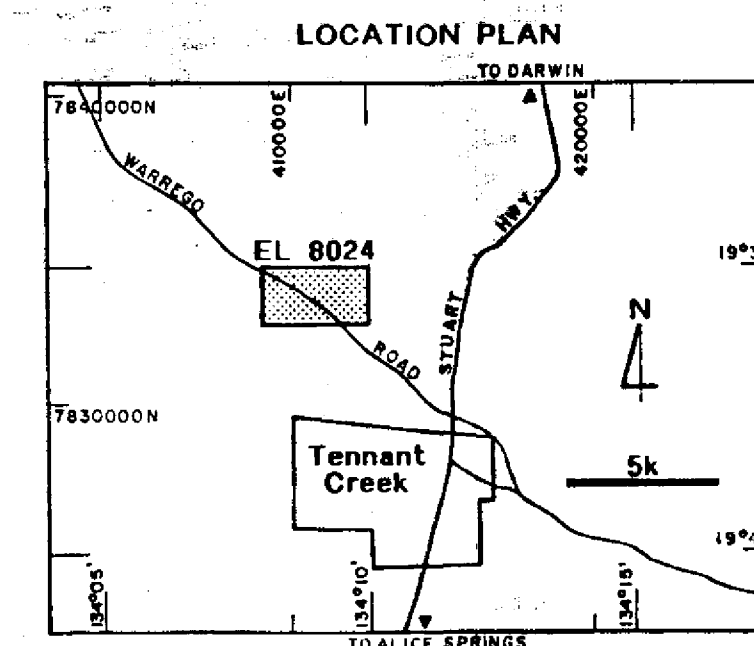
- Prospects

Plan No. 1

POSEIDON GOLD LIMITED

HIGHWAY GROUP
GENERALISED GEOLOGY

SCALE 1:50000	DRAWN DATAMINE	DATE 15 MAR 94	CHECKED JK
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POSEIDON GOLD LIMITED

HIGHWAY GROUP

MARYLANE - EL 8024

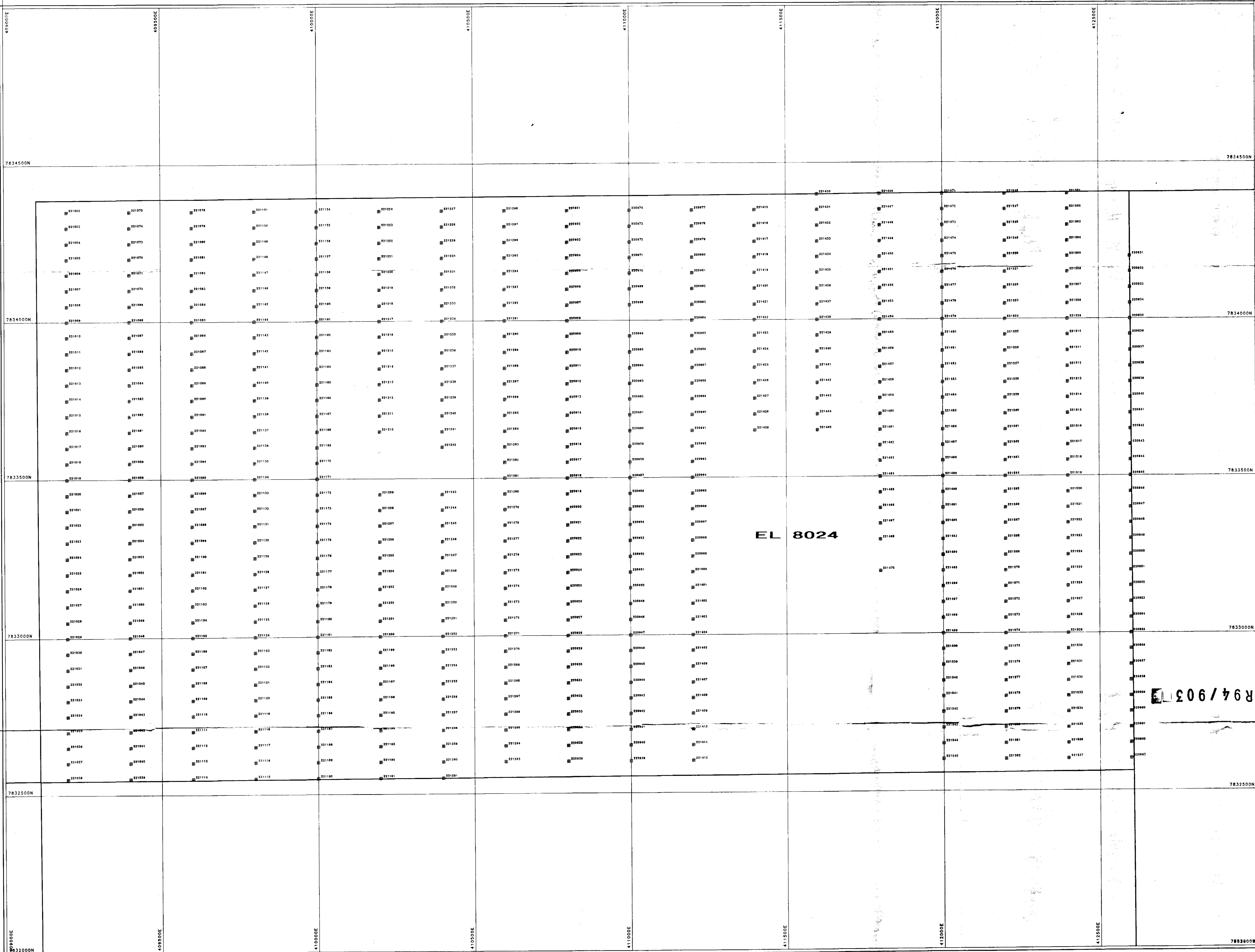
SOIL SAMPLE LOCATIONS

SCALE	DRAWN	DATE	CHECKED
1:5000	DATAMINE	19 SEP 94	JK

Plan No. 2

N

100m



POSEIDON GOLD LIMITED

HIGHWAY GROUP

MARYLANE - EL 8024

SOIL GEOCHEMISTRY - AU (ppb)

SCALE
1:5000

DRAWN
DATAMINE

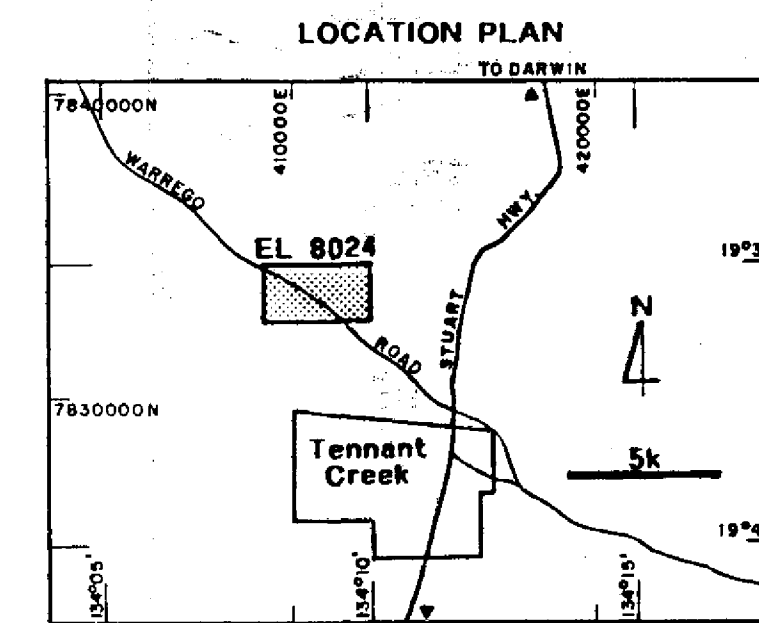
DATE
19 SEP 94

CHECKED
JK

Plan No. 3

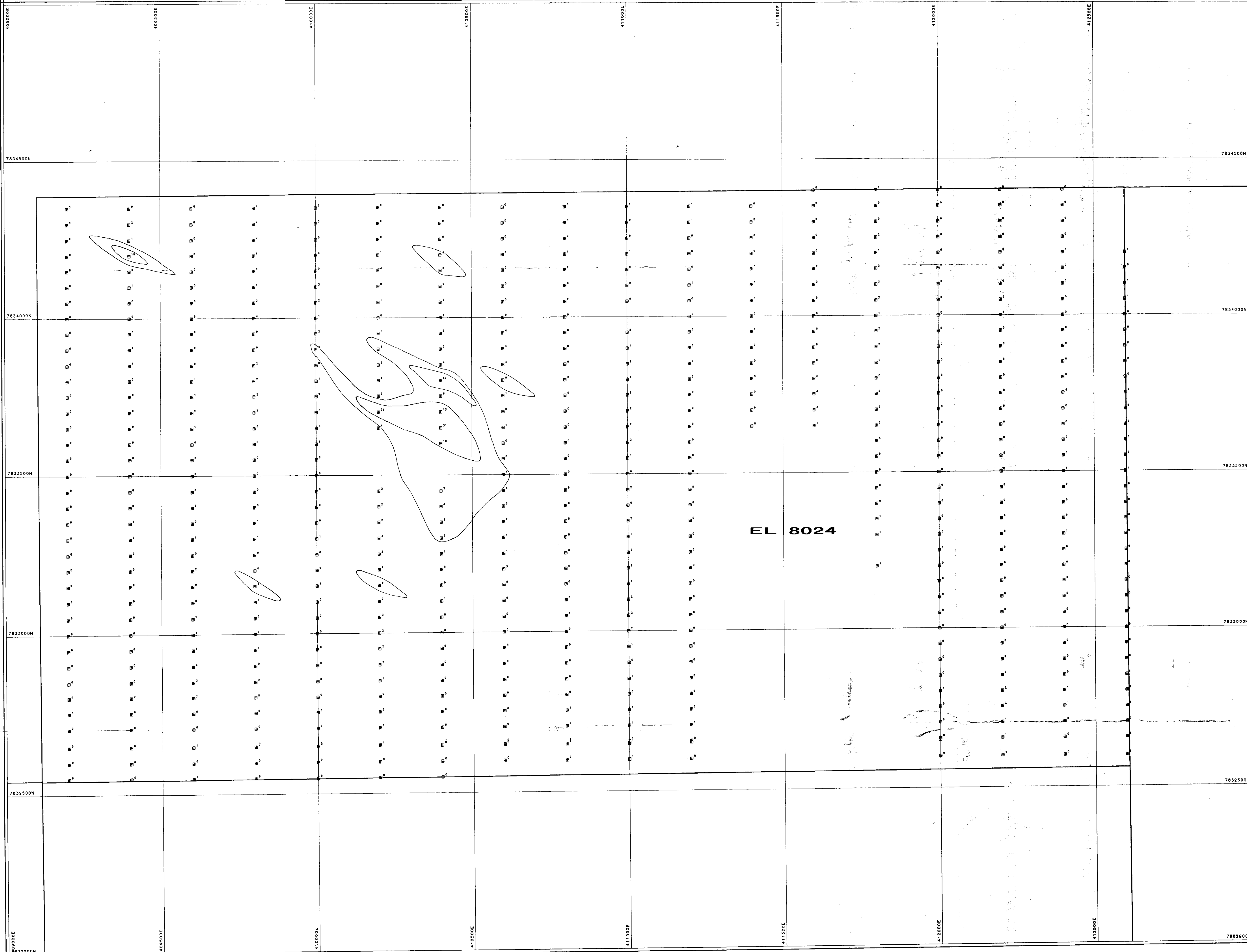
CR94/903

100m



5 - 10 ppb Au

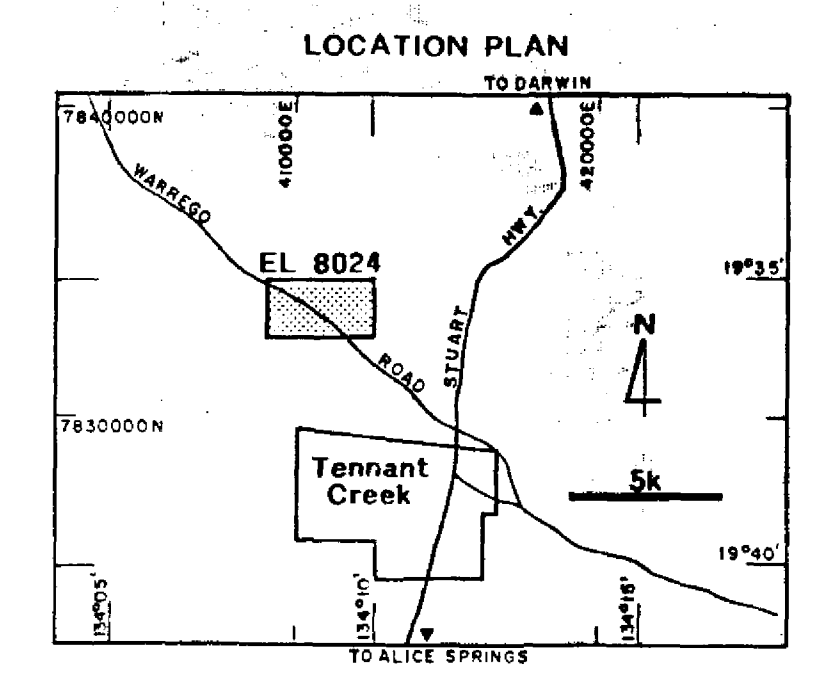
>10 ppb Au



CR94-903

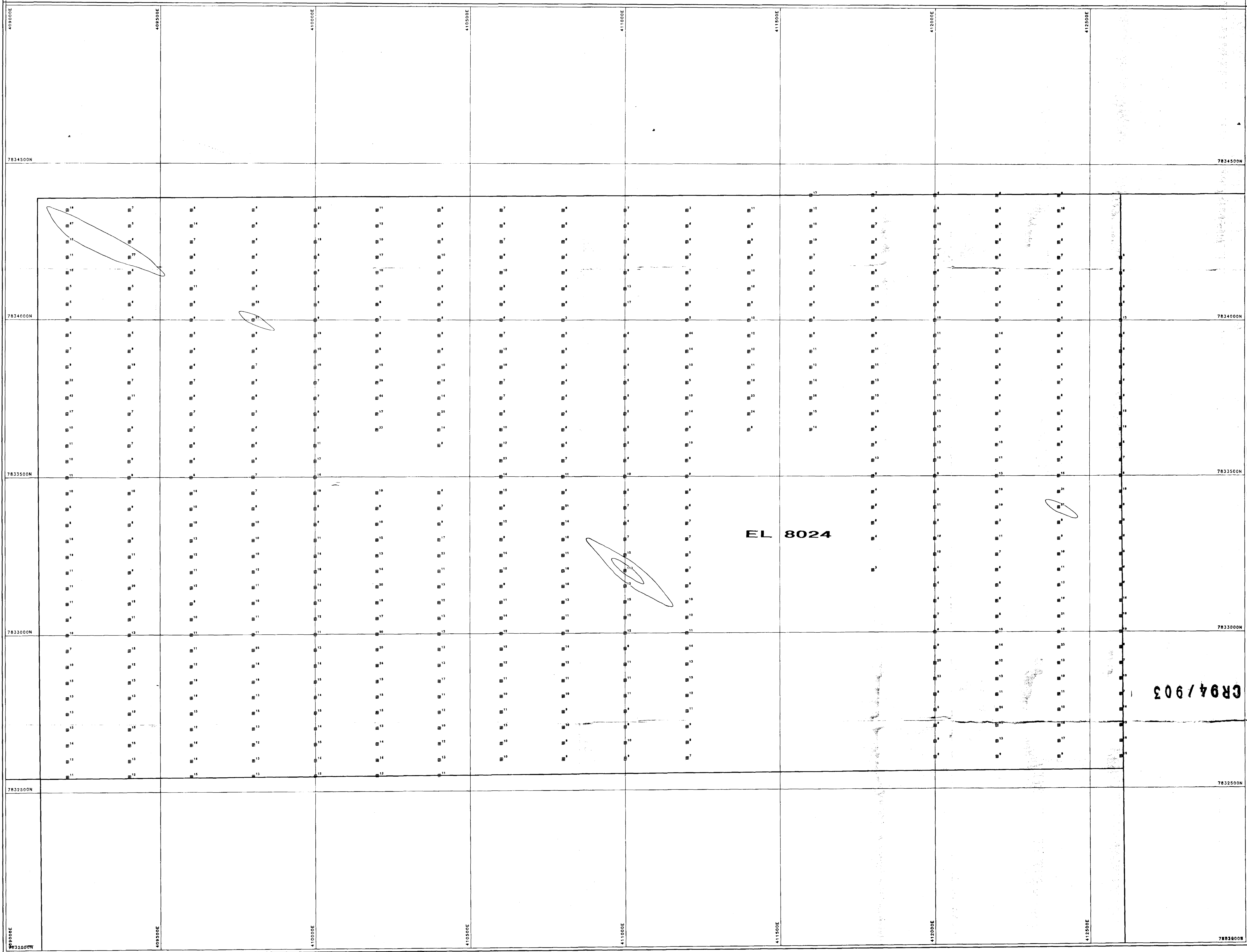
Tennant Creek Library: 94182/28/0316

50 - 100 ppm Cu
>100 ppm Cu



POSEIDON GOLD LIMITED			
HIGHWAY GROUP			
MARYLANE - EL 8024			
SOIL GEOCHEMISTRY - CU (ppm)			
SCALE 1:5000	DRAWN DATAMINE	DATE 19 SEP 94	CHECKED JK
Plan No. 4			

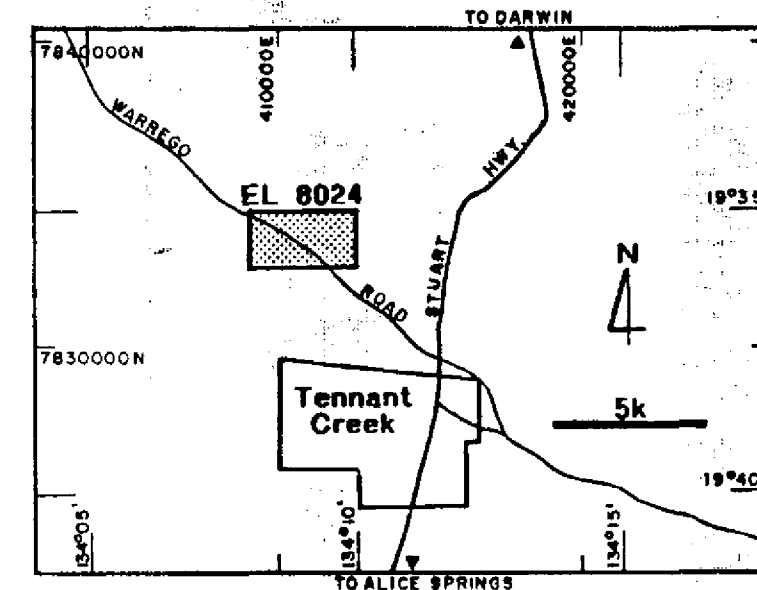
N
4
100m



CR94/903

CR94/903

LOCATION PLAN



POSEIDON GOLD LIMITED

HIGHWAY GROUP

MARYLANE - EL 8024

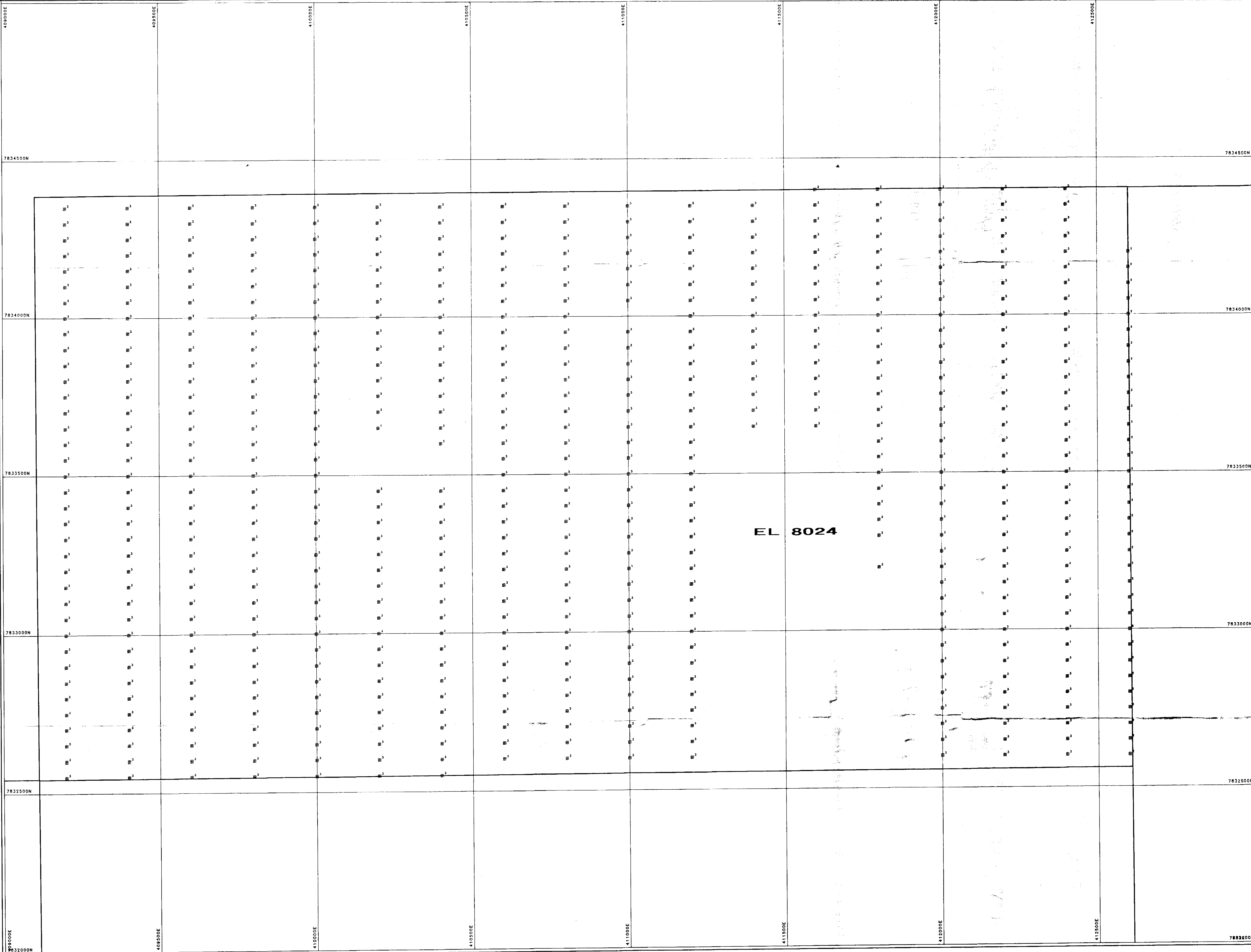
SOIL GEOCHEMISTRY - B1 (ppm)

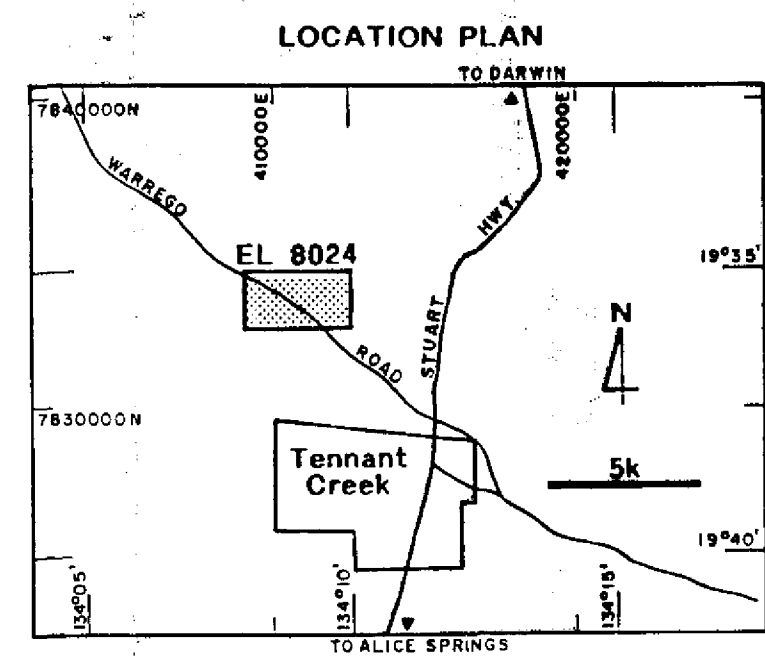
SCALE	DRAWN	DATE	CHECKED
1:5000	DATAMINE	19 SEP 94	JK

Plan No. 5

N
4

100m





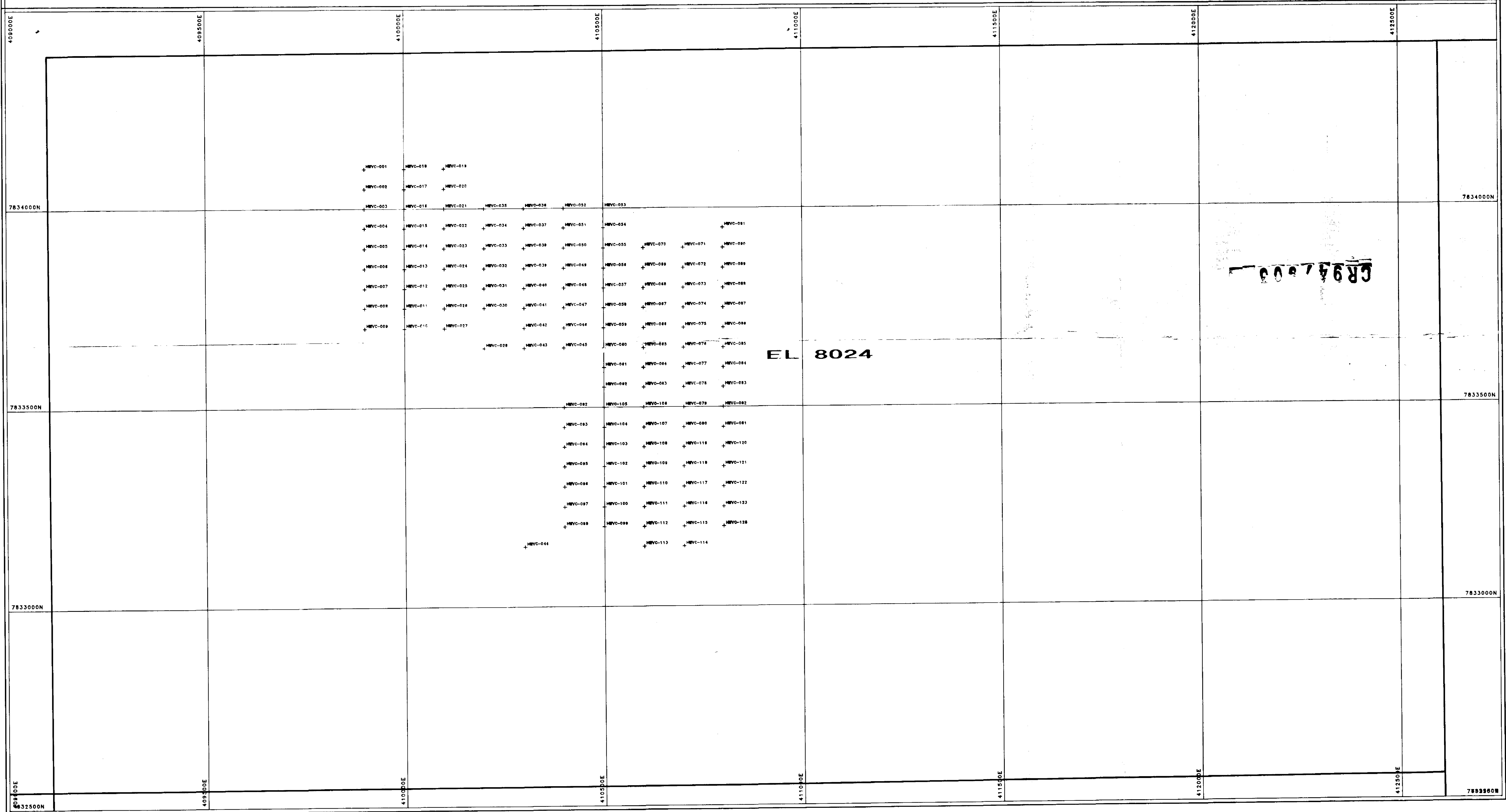
POSEIDON GOLD LIMITED

HIGHWAY GROUP

VACUUM DRILLHOLE LOCATION PLAN

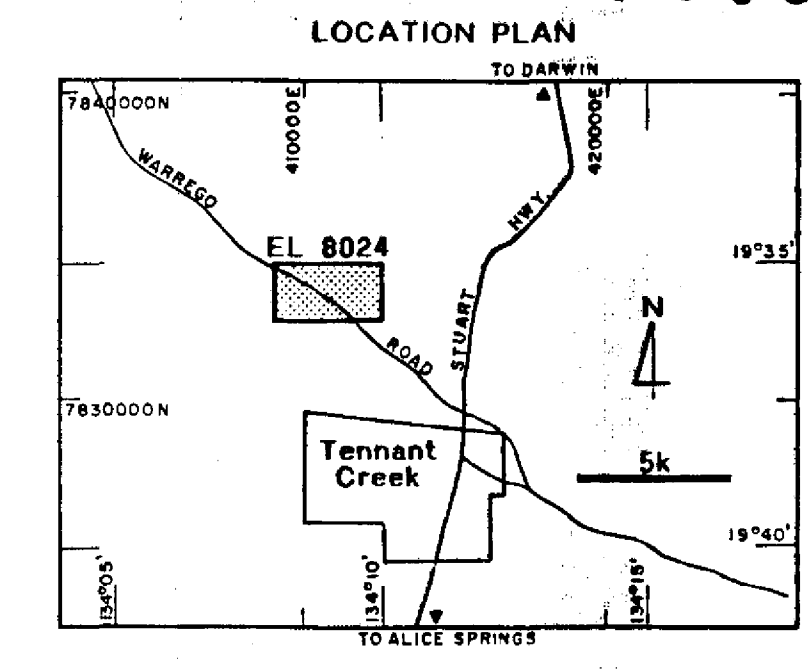
SCALE	DRAWN	DATE	CHECKED
1:5000	DATAMINE	11 OCT 94	JK

Plan No. 6



CR04/903

- SL siltstone
- QP quartz porphyry
- QZT quartzite
- LAMP lampophyre
- qV quartz veining
- h haematite staining
- c chlorite
- li limonite staining



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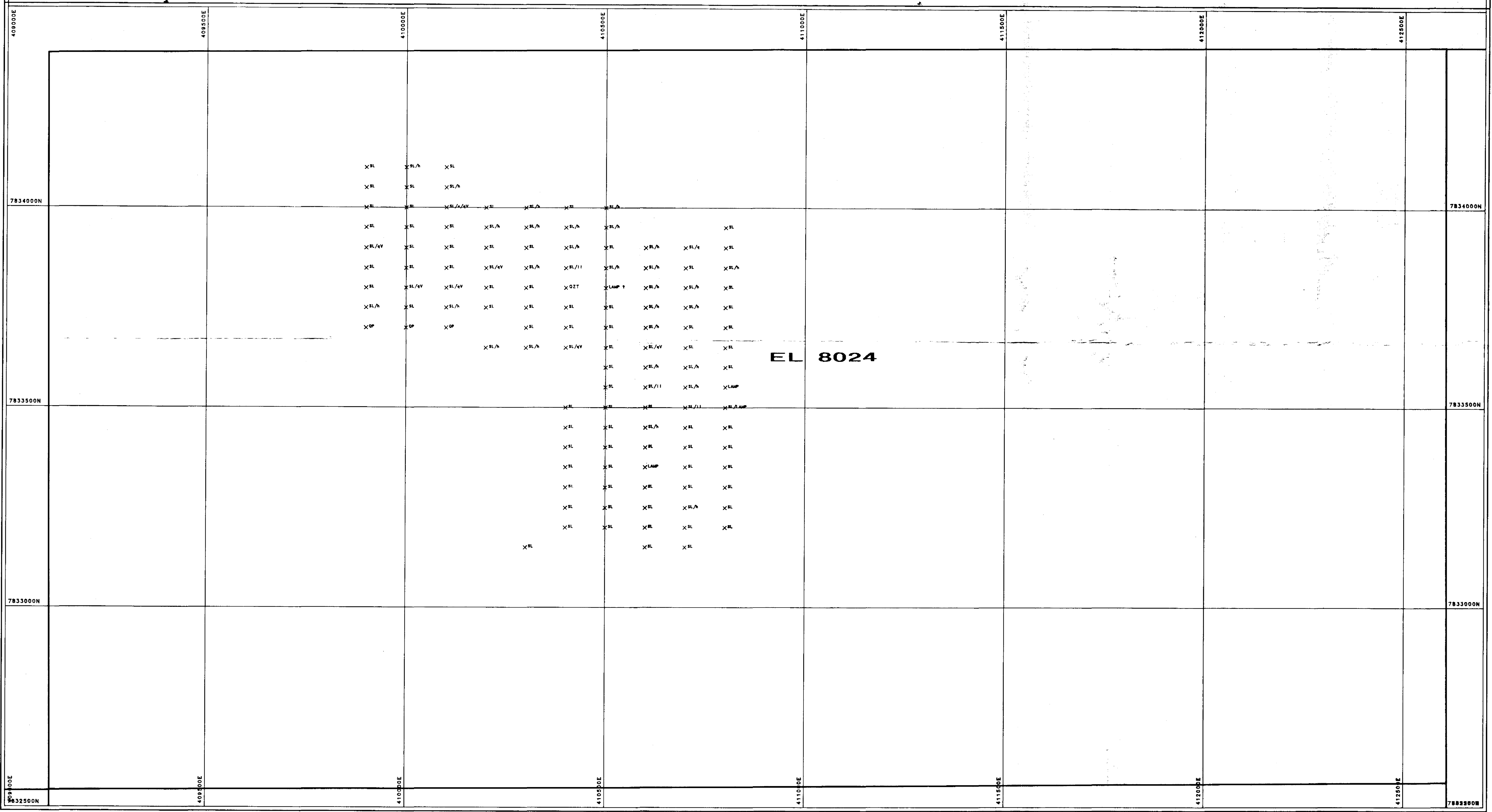
VACUUM BEDROCK LITHOLOGY

MARYLANE PROSPECT

SCALE 1:5000	DRAWN DATAMINE	DATE 28 SEP 94	CHECKED JK
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Plan No. 7

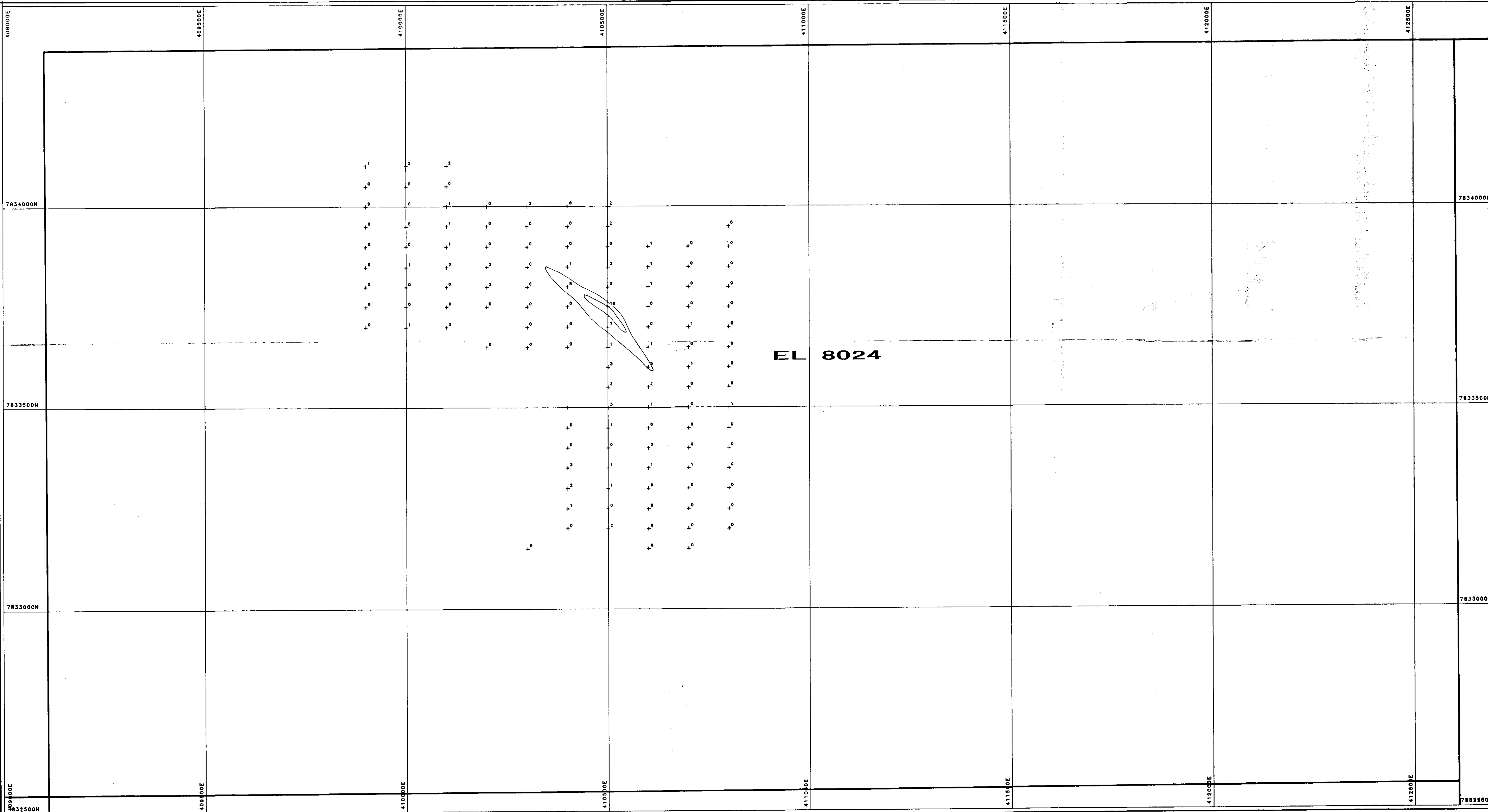
N
4
100m



3000000

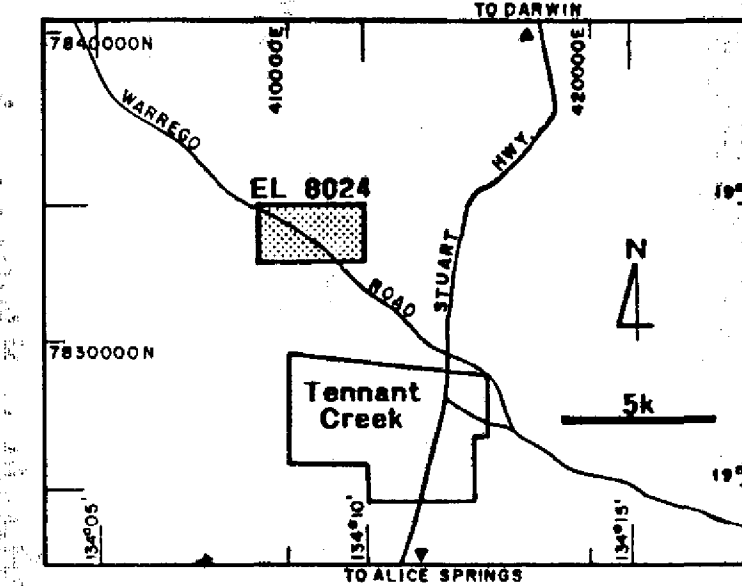
HIGHWAY GROUP
VACUUM GEOCHEMISTRY - AU (ppb)
MARYLANE PROSPECT

Plan No. 8



CR94/903

LOCATION PLAN



POSEIDON GOLD LIMITED

HIGHWAY GROUP

VACUUM GEOCHEMISTRY - CU (ppm)

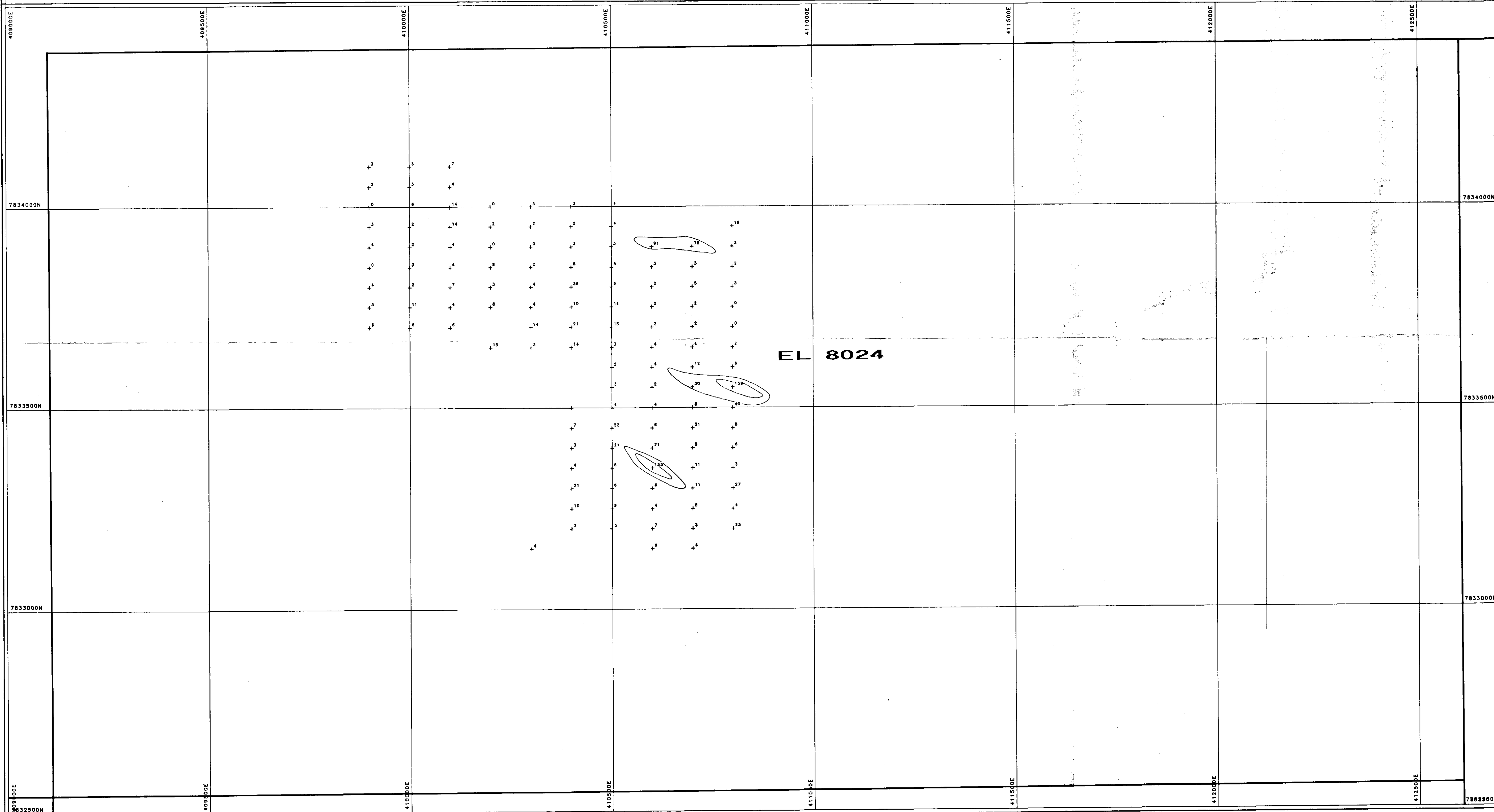
MARYLANE PROSPECT

SCALE 1:5000	DRAWN DATAMINE	DATE 28 SEP 94	CHECKED JK
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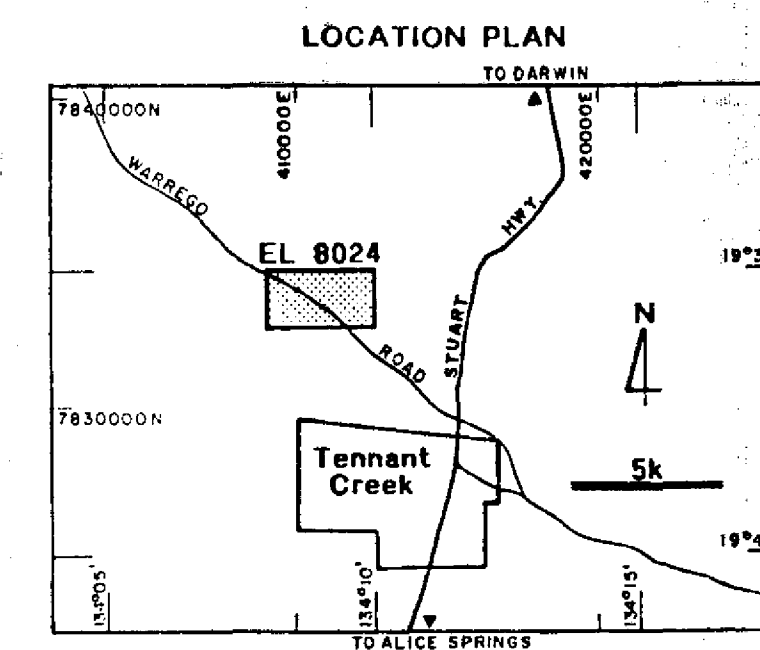
Plan No. 9

N
4
100m

50 - 100ppm Cu
>100ppm Cu



CR94/903 1

 >10ppm Bi

POSEIDON GOLD LIMITED

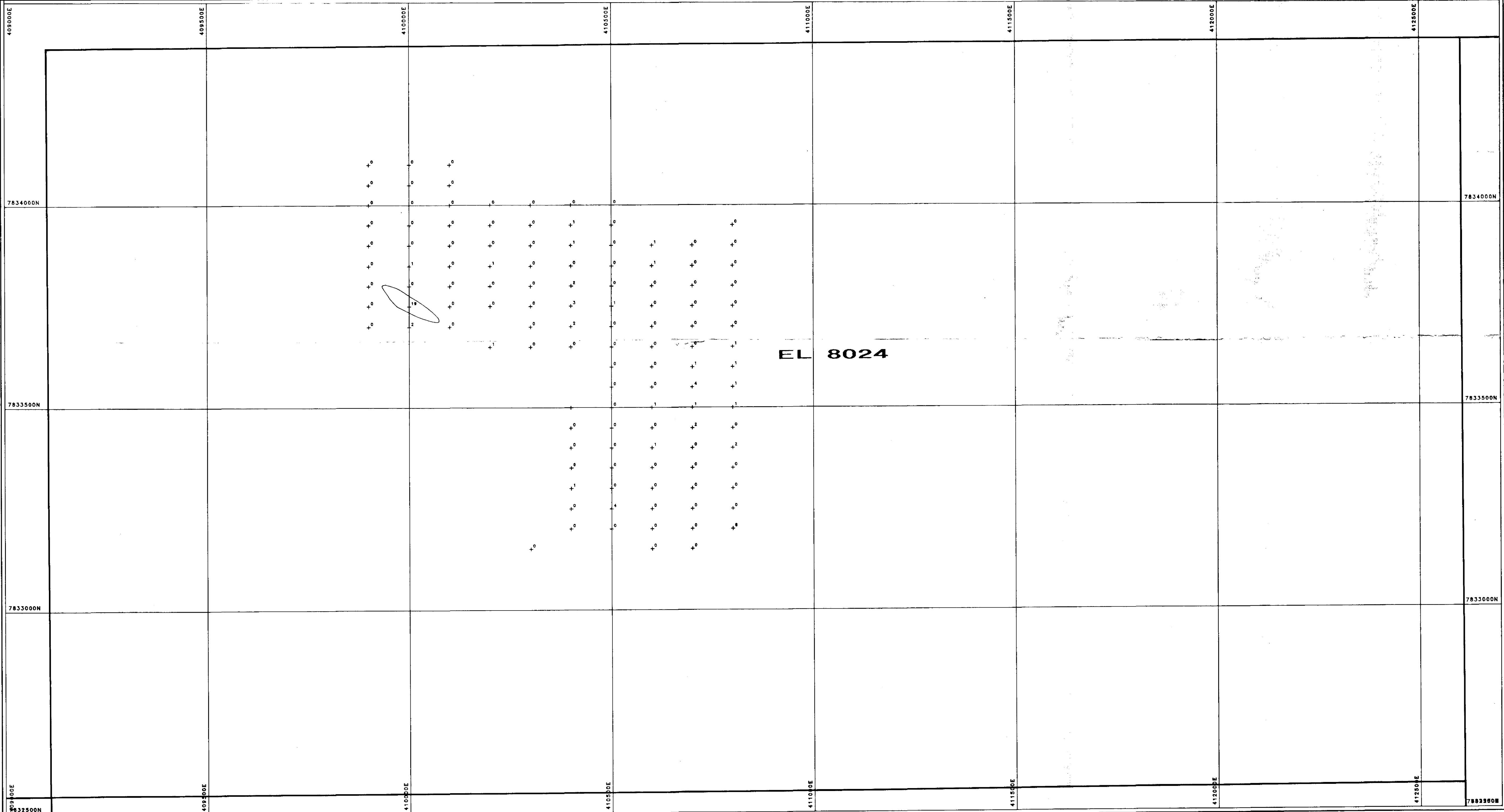
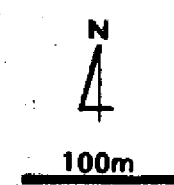
HIGHWAY GROUP

VACUUM GEOCHEMISTRY - B1 (ppm)

MARYLANE PROSPECT

SCALE	DRAWN	DATE	CHECKED
1:5000	DATAMINE	28 SEP 94	JK

Plan No. 10



HIGHWAY GROUP
MARYLANE - EL 8024

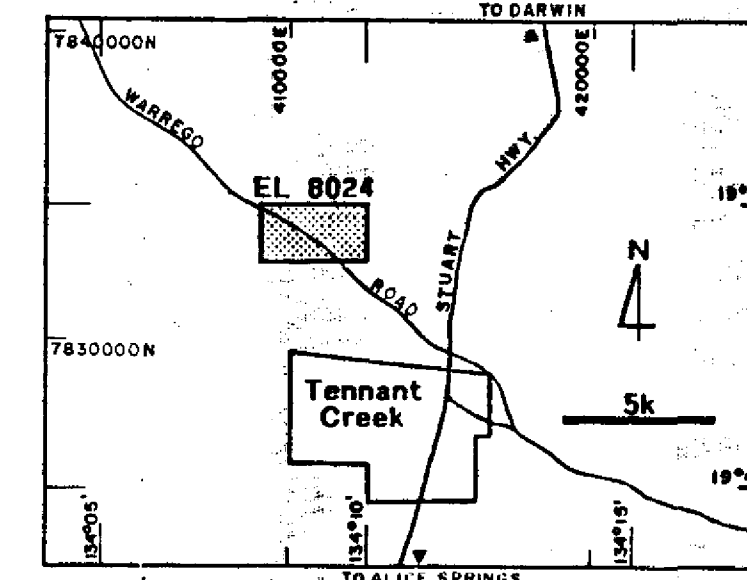
ROCK CHIP SAMPLE LOCATIONS AND RESULTS

Plan No. 11

LEGEND:

●285401 Rock Chip Sample

0.09/49/490 Au(ppm)/Cu(ppm)/Bi(ppm)



EL 8024