

CR 95 / 892



## EL8767 - DRIFFIELD NORTH

### ANNUAL REPORT YEAR ONE OF TENURE

25.11.94 - 24.11.95

Katherine 1:100,000 Map Sheet

OPEN FILE

ution:

C. Fawcett  
November 1995

ME

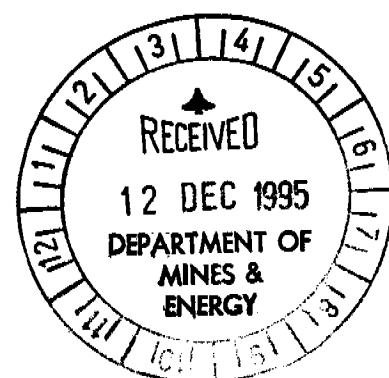
ory Goldfields NL, Darwin  
arn Mining Company

CR 95 / 892

**Territory Goldfields N.L.**

A.C.N. 063 635 325

Cosmo Howley Mine, Via Hayes Creek, Northern Territory  
Postal Address: PO Box 36046 Winellie, Northern Territory 0820  
Telephone: (089) 782 499 Fax: (089) 782 467



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## **1.0 SUMMARY**

EL8767 is located within the Wandie Project area, southeast of Pine Creek. The tenement lies within the Pine Creek Geosyncline and is dominated by Lower Proterozoic Burrell Creek sediments.

Exploration carried out by Dominion Gold Operations Pty Ltd during the first year of tenure consisted of lag sampling.

The exploration licence was granted to Dominion Gold Operations in November 1994 and was subsequently acquired by Territory Goldfields NL in May 1995.

## **2.0 LOCATION AND TENURE**

EL8767 is located approximately 40km southeast of Pine Creek in the Wandie Project area. Access is via the Stuart Highway from Pine Creek, then via pastoral tracks (Figure 1).

The licence, consisting of two graticular blocks, is described by latitudes 14°02'S and 14°03'S and longitudes 132°06'E and 132°08'E (Figure 2).

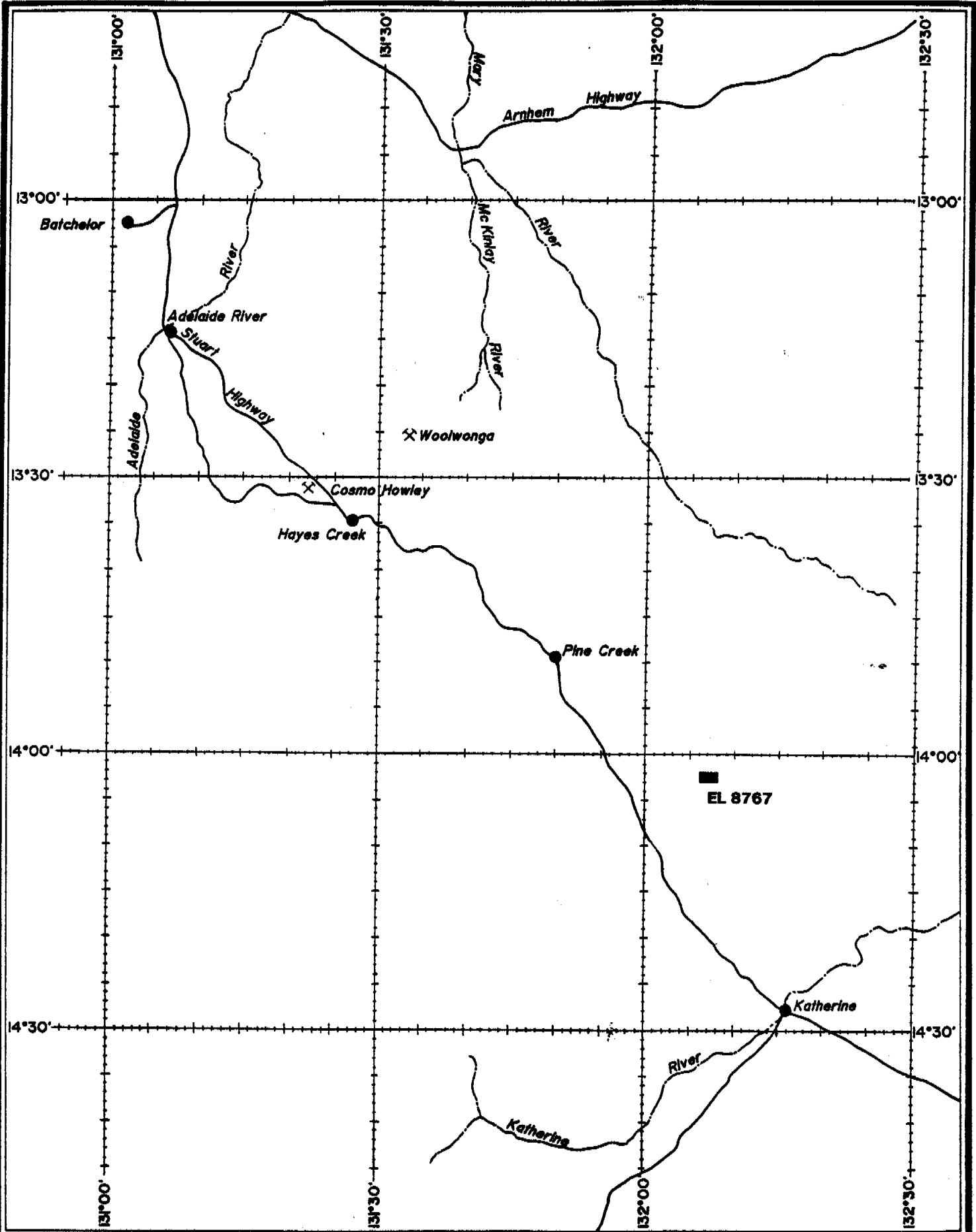
EL8767 was granted to Dominion Gold Operations Pty Ltd on 25 November 1994 for a period of three years. Territory Goldfields subsequently acquired the licence in May 1995.

## **3.0 GEOLOGY**

### ***3.1 Regional Geology***

The Pine Creek Inlier is a roughly triangular area of about 66,000km<sup>2</sup> south and east of Darwin, which contain Early Proterozoic metasedimentary rocks resting on a gneissic and granitic archaean basement. The metasediments represent fluvial, shallow water and intertidal basinal sequence up to 14km thick (Needham et al, 1980).

During the Top End Orogeny (1870-1780Ma) the rocks were metamorphosed to mainly greenschist facies, however, amphibolite facies dominates in the northeast in the Alligator Rivers region. Proven Archaean rocks are restricted to mainly granite-gneiss of the Rum Jungle, Waterhouse and Nanambu Complexes which formed mantled gneiss domes near the presently exposed western and eastern margins of the inlier.



0 10 20 30 60 km

## EL8767 – LOCATION PLAN

PROJECT WANDIE

STATE N.T.

ORIGINATOR CF

Date

DRAWN CF

Date DEC 95

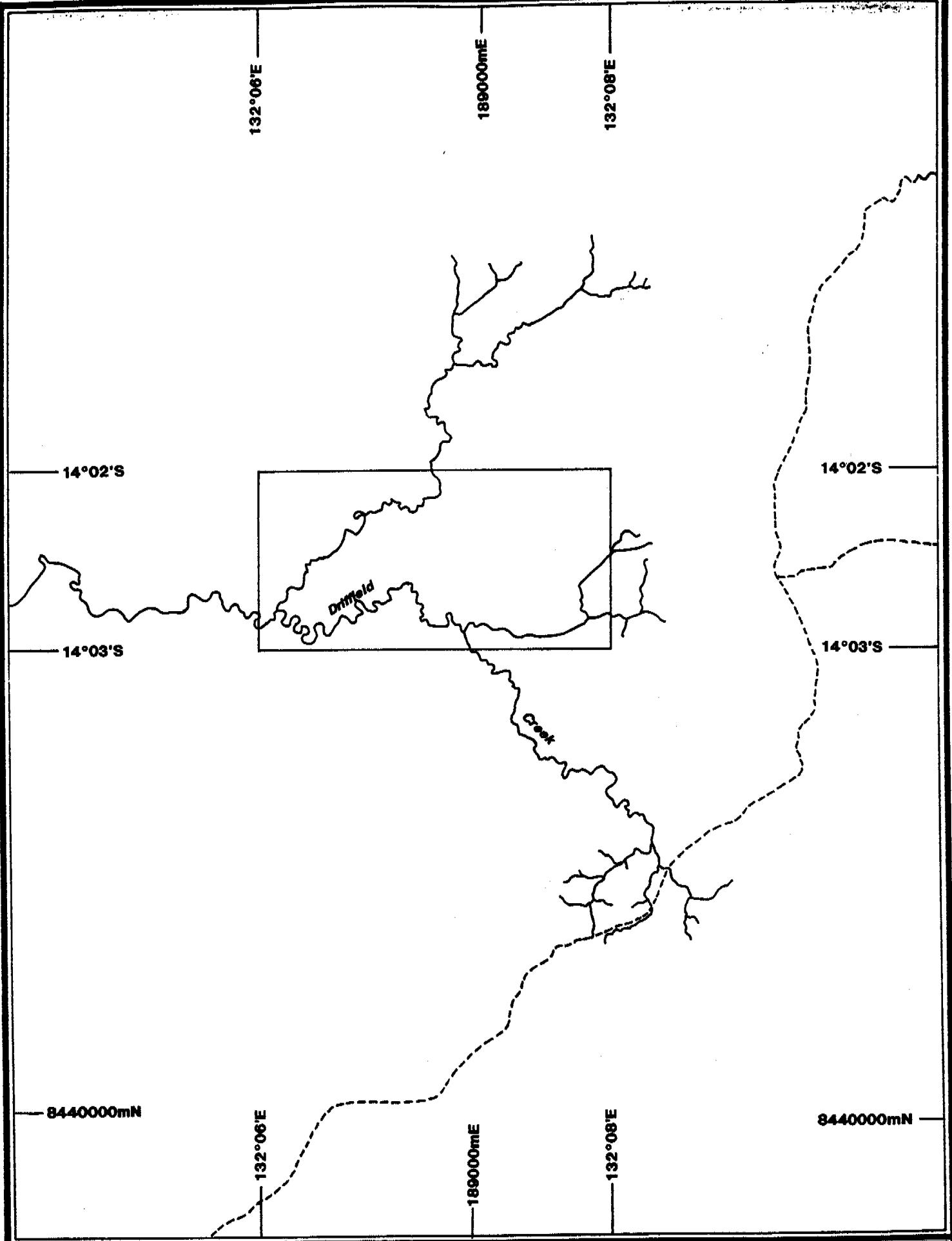
SCALE 1:1000000

FIGURE NO: 1

PLAN NO: 2A-T80



Territory Goldfields N.L.



## EL 8767 TENEMENT LOCATION

0 1 3km



Territory Goldfields N.L.

PROJECT WANDIE

STATE NT

ORIGINATOR CF

Date

DRAWN CF

Date DEC 95

SCALE 1:50,000

FIGURE NO. 2

PLAN NO:

The sedimentary rocks are mainly shale, siltstone, sandstone, conglomerate, carbonate rocks and iron formations. Felsic to mafic volcanism and associated tuffaceous sediments are also present. The sedimentary sequence is intruded by transitional igneous rocks including pre-tectonic dolerite sills and syn to post tectonic granitoid plutons and dolerite lopoliths and dykes. Largely undeformed platform covers of Middle Proterozoic to Mesozoic strata overlie these Lower Proterozoic sediments.

### **3.2 Local Geology**

The licence area is dominated by Lower Proterozoic Burrell Creek Formation greywackes and siltstones and alluvials from Driffield Creek and tributaries. The Driffield Granite outcrops to the northwest and is described as a pink coarse biotite leucogranite (Figure 3).

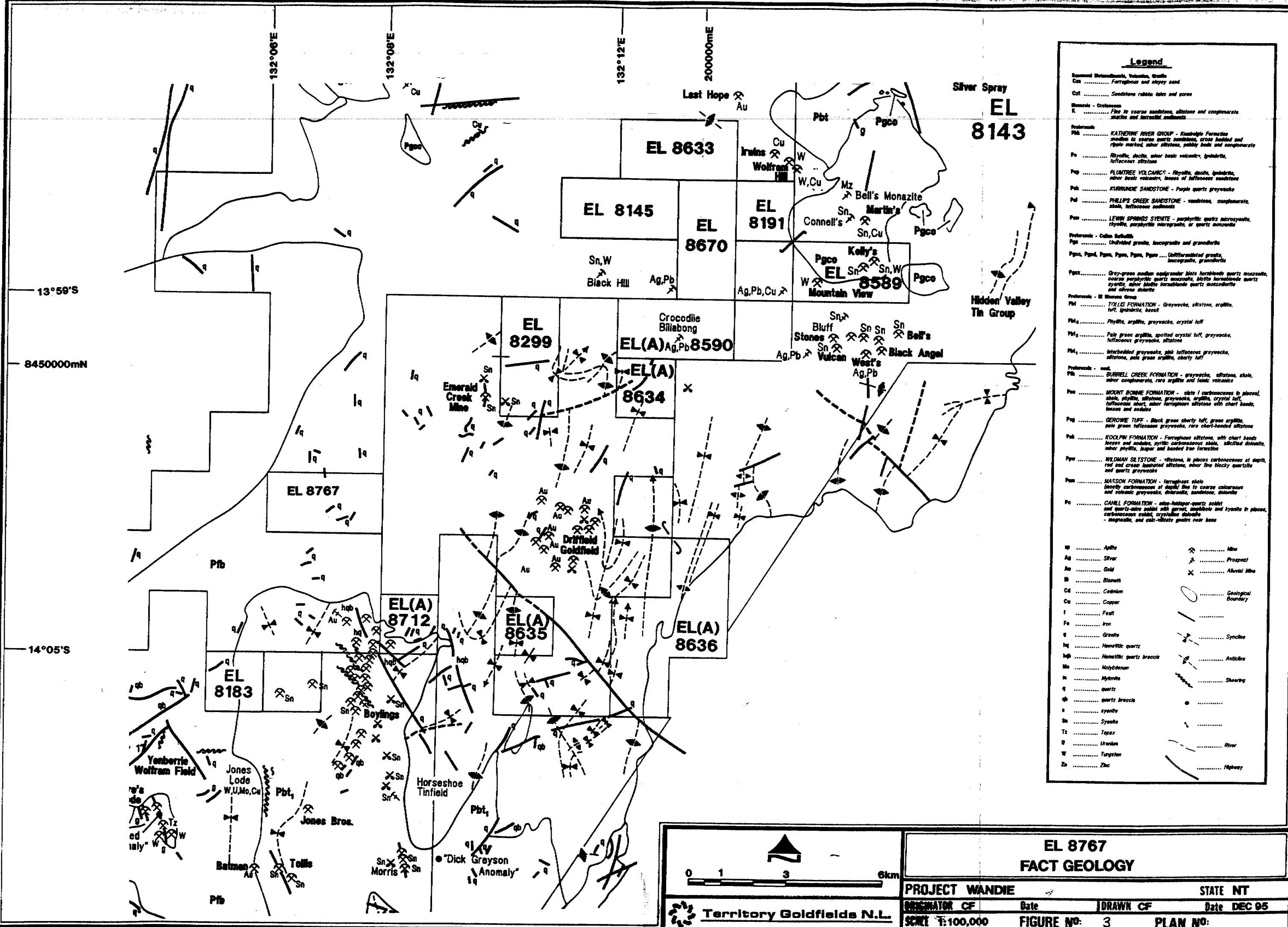
## **4.0 1994-1995 EXPLORATION**

Dominion Gold Operations carried out lag sampling during the first year of tenure. This programme resulted in 34 samples of +2mm -6mm size material. Samples are collected by using a wide heavy duty broom to sweep up surface material, this is then sieved to the required size fraction to achieve approximately 2kg of sample.

Samples were submitted to Amdel, Darwin for analysis of Au, Ag, As, Cu, Pb, Zn, Mn, Fe and Bi. Results were generally disappointing with the majority returning less than detection (<1 ppb Au). One high of 138ppb Au was achieved in the southeast corner of the tenement. Results can be seen in Figures 4 and 5 and Appendix 1.

## **5.0 PROPOSED PROGRAMME**

Exploration work proposed for the second year of tenure will involve bedrock RAB drilling to further test the southeast corner of the tenement. The minimum expenditure for this programme is expected to be \$3,000.



## **6.0 EXPENDITURE**

The expenditure for the first year of tenure is as follows:

Assays	810.00
Land Management	375.00
Employee Costs	1530.00
Vehicle Costs	180.00
Camp and Field	45.00
Drafting and Computing	100.00
Administration	460.00
Total	<u>\$3500.00</u>
	=====

The proposed gridding and rock chip sampling was not undertaken due to acquisition of the tenement by Territory Goldfields and commitments in other areas.

## **7.0 REFERENCES**

Needham, R.S. , Crick, J.H. and Stuart-Smith, P.G. (1980)  
'Regional Geology of the Pine Creek Geosyncline', in Proceedings of the International Uranium Symposium, International Atomic Energy Agency, Vienna p1-22.

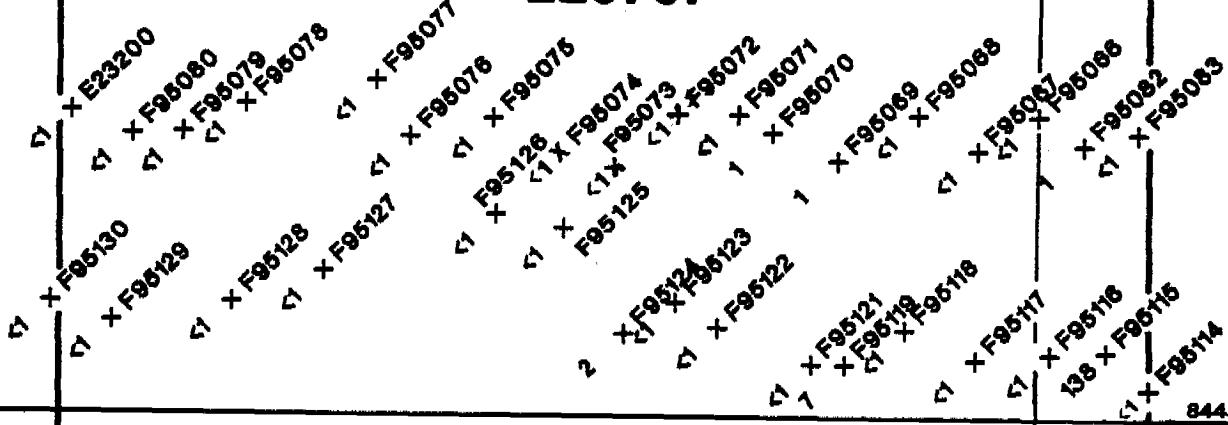
132°08'E

190000mE

132°08'E

14°02'S

14°03'S

**EL8767**

8445000mN



1.5km

**Territory Goldfields N.L.****EL8767****LAG SAMPLING – Au (ppb)****PROJECT WANDIE****STATE NT****ORIGINATOR CF****Date****DRAWN CF****Date NOV 95****SCALE 1:25,000****FIGURE NO. 4****PLAN NO:**

132°08'E

190000mE

132°08'E

14°02'S

14°03'S

**EL8767**

30 + E23200  
 95 + F95080  
 70 + F96079  
 85 + F96078  
 10 X F96077  
 65 + F96078  
 86 + F96076  
 85 + F95126  
 95X F96074  
 20 X F95125  
 65X F95073  
 65X F96072  
 45 + F95071  
 90 + F95070  
 26 X F95069  
 40 + F95068  
 55 + F95067  
 105 + F95066  
 105X F95082  
 120 + F95083  
 10 + F95130  
 130 X F95129  
 130 X F95128  
 60 X F95127  
 115 X F95124  
 85 X F95123  
 100 X F95122  
 85 + F95121  
 45 + F95119  
 30 + F95118  
 35 + F95117  
 60 + F95116  
 320 X F95115  
 55 X F95114  
 8445000mN



0

1.5km



Territory Goldfields N.L.

**EL8767****LAG SAMPLING – As (ppm)****PROJECT WANDIE****STATE NT****ORIGINATOR CF****Date****DRAWN CF****Date NOV 95****SCALE 1:25,000****FIGURE NO. 5****PLAN NO.**

## **APPENDIX 1**

### **LAG SAMPLING ASSAY RESULTS**



## GEOCHEMICAL SAMPLING

WJ158

Project: WANDIEProspect: DRIFFIELD NORTHPage 1 of 3Sample Type: +2 -6 mmSampler: Lidy & BoriDate: 28-11-94

Laboratory:

Analytical Methods:

Co-ordinate / Location	Slope Vector	Primary Descriptor	Secondary Descriptor	Sample No. Prefix	Analysis	
					Mn	As
8446000 N 190000 E		SgwR5	g220	F95066	x	105
8445884 N 199800 E		SgwR7/P7		067	x	55
8446000 N 189200 E		SgwR7/P7	g230	068	x	40
8445850 N 189333 E		SgwR5	g210	069	1	25
8445941 N 189115 E		SgwR7/P7	g210	070	1	90
8446000 N 189000 E		Sgw60 Smd40		071	x	45
8446000 N 188800 E		SmdR7/P7	g230	072	>	65
8445820 N 188591 E		Sgw50 Smd 40	g210	073	>	65
8445872 N 188412 E		Smd50 Sgw30	g220	074	x	95
8445982 N 188188 E		SgwR7/P7	g210	075	>	85
8445922 N 187915 E		Smd30 Sgw30	g240	076	x	65
8446108 N 187800 E		Smd70 Sgw20	g210	077	x	110
8446100 N 187524 E		NS - Tributary + mudplain, no outcrop		—		•
8446024 N 187369 E		Smd60 Sgw30	g210	078	x	85
8445929 N 187166 E		SgwR7/P7	g205	079	x	70
8445925 N 187000 E	{ DUPLICATE	g210		080	x	95
8445925 N 187000 E		Sgw60 Smd30	g210	081	x	110
8445905 N 190150 E		Sgw50 Smd50		082	1	105
8445946 N 190331 E		SgwR7/P7	g240	083	x	120
8445937 N 190580 E		SgwR7/P7	g205	084	?	410
8445905 N 190800 E		SgwR4	g205	085	2	210
8445915 N 190910 E		SgwR5	g220	086	?	1880
8445971 N 191161 E		SmdR6	g250	087	2	95
8445976 N 191308 E		Sgw50 Smd30	g220	088	x	50
8445900 N 191540 E		SgwR5	g210	089	x	30
8446012 N 191849 E		SgwR7/P7 (ois)	g260	090	5	185
8445990 N 192014 E		NS - Mudplain + traces, no outcrop		—		?
8446003 N 192240 E		NS - Alluvial deposit, human disturbance		—		
8446000 N 192400 E		NS - Creek system		—		
8445850 N 192588 E		SgwR7/P7	g205	091	2	1950

Remarks

## GEOCHEMICAL SAMPLING

Project: WANDIE

Prospect: DRIFFIELD NORTH Page 2 of 3

Sample Type: +2 -6 mm

Sampler: Andy & Bori Date: 29-11-94

Laboratory: \_\_\_\_\_

Analytical Methods: \_\_\_\_\_

Co-ordinate / Location	Slope Vector	Primary Descriptor	Secondary Descriptor	Sample No. Prefix	Analysis		
					Mn/Vn		Au As
8445586 N 192787E		SgwR7/P7	g220	F95092	4	2590	
8445563 N 192937E		SgwR7/P7 + GdL	g205	093	3	2720	
8445940 N 193083E		SmdR7/P7		094	4	290	
8445963 N 193393E		SgwR6	g205	095	3	165	
8445910 N 193646E		NS - Alluvial terraces, 100m top		—			
8445943 N 193800E		SgwR6		096	3	210	
8445050 N 193723E		SgwR7	g205	F95097	3	310	
8445158 N 193516E		Sgw / Smd + GdL	g205	098	3	780	
8445200 N 193400E		Sgw 40 Smd 40	g220	099	6	460	
		STANDARD RHD - 1 ~16 ppb.		F95100	22	25	
8445030 N 193378E		SgwR6	g215	101	<1	220	
8445260 N 193028E		SmdR4		102	3	1800	
8445102 N 192825E		SndR6	g205	103	>	1470	
8445209 N 192670E		Sgw 50 Smd 45	g205	104	>	1550	
8445130 N 192458E		SgwP7 + GdL		105	>	960	
8445235 N 192220E		SgwR7/P7	g220	106	>	480	
8445038 N 191916E		SgwP7	g260	107	>	250	
8445291 N 191775E		SgwR5	g280	108	>	210	
8445239 N 191635E		NS - DRIFFIELD, D. 024 C MUDPLAIN		—			
8445220 N 191400E		Sgw 50 Smd 50		109	>	65	
8445242 N 191130E		Snd 70 Sgw 10	g220	110	>	55	
8445140 N 190996E		SgwR7	g205	111	<	60	
8445150 N 190750E		Sgw 30 Smd 50	g220	112	>	75	
8445047 N 190488E		Sgw 60 Smd 35	g205	113	>	130	
8445100 N 190373E		SgwR6	g205	114	>	55	
8445222 N 190232E		SgwR2	g230	115	148	320	
8445213 N 190045E		SmdR6	g250	116	>	50	
8445193 N 189800E		SgwP6		117	>	35	
8445291 N 189565E		SgwP7	g220	118	>	30	
8445173 N 189365E		SmdP7	g230	119	7	45	

Remarks



## **GEOCHEMICAL SAMPLING**

Project: WANDIE

Prospect: DRIFFIELD NORTH

Page 3 of 3

Sample Type: +2 - 6mm

Sampler: Randy & Boie

Date: 30-11-94

Laboratory: \_\_\_\_\_

**Analytical Methods:** \_\_\_\_\_

## Remarks

Final

## ANALYTICAL REPORT

SAMPLE	AuDp1	AuDp2	Cu	Pb	Zn	Ag	As
F95051	<1	--	20	15	20	<0.1	10
F95052	2	1	22	9	26	<0.1	5
F95053	<1	--	24	6	43	<0.1	<5
F95054	<1	--	37	11	52	<0.1	15
F95055	<1	--	17	31	25	<0.1	30
F95056	1	--	8	36	17	<0.1	50
F95057	1	1	9	25	16	<0.1	110
F95058	<1	--	19	23	35	<0.1	75
F95059	<1	--	10	17	18	<0.1	60
F95060	<1	--	11	9	25	<0.1	35
F95061	<1	--	27	9	23	<0.1	20
F95062	<1	--	19	4	23	<0.1	15
F95063	<1	--	41	3	57	<0.1	<5
F95064	<1	--	58	5	185	<0.1	10
F95065	12	--	15	73	8	<0.1	<5
F95066	<1	--	19	33	21	<0.1	105
F95067	<1	--	18	31	18	<0.1	55
F95068	<1	--	14	29	14	<0.1	40
F95069	1	--	11	10	13	<0.1	25
F95070	1	1	11	55	31	<0.1	90
F95071	<1	--	9	26	12	<0.1	45
F95072	<1	--	8	21	7	<0.1	65
F95073	<1	--	8	15	6	<0.1	65
F95074	<1	--	11	16	6	<0.1	95
F95075	<1	--	28	16	11	<0.1	85
F95076	<1	<1	34	17	17	<0.1	65
F95077	<1	--	17	24	17	<0.1	110
F95078	<1	--	14	14	9	<0.1	85
F95079	<1	--	18	12	9	<0.1	70
F95080	<1	--	21	14	11	<0.1	95
F95081	<1	--	21	13	12	<0.1	110
F95082	1	--	16	20	32	<0.1	105
F95083	<1	--	23	54	68	<0.1	120
F95084	7	8	20	700	340	<0.1	410
F95085	2	3	23	370	320	0.1	210
F95086	6	9	37	2280	165	0.2	1880
F95087	2	--	24	50	42	<0.1	95
F95088	<1	--	12	36	15	<0.1	50
F95089	<1	--	12	48	12	<0.1	30
F95090	5	5	13	74	28	<0.1	185
F95091	2	--	99	100	115	<0.1	1950
F95092	4	3	105	94	98	<0.1	2590
F95093	3	--	310	53	180	<0.1	2720
F95094	4	--	14	240	125	<0.1	290
F95095	3	--	16	390	130	<0.1	165
F95096	3	--	18	700	210	2.5	210
F95097	3	--	15	230	93	<0.1	310
F95098	3	--	11	1370	145	0.1	780
F95099	6	--	23	1320	270	0.4	460
F95100	22	--	16	86	10	<0.1	<5

UNITS	ppb	ppb	ppm	ppm	ppm	ppm	ppm
DET.LIM	1	1	1	1	1	0.1	5
SCHEME	AA9						

Final

## ANALYTICAL REPORT

SAMPLE	AuDp1	AuDp2	Cu	Pb	Zn	Ag	As
F95101	<1	<1	20	42	165	0.1	220
F95102	3	--	190	95	180	0.1	1800
F95103	<1	--	220	170	165	5.3	1470
F95104	<1	--	140	79	220	0.1	1550
F95105	<1	--	49	175	190	<0.1	960
F95106	<1	--	42	87	150	<0.1	480
F95107	<1	--	20	73	45	<0.1	250
F95108	<1	--	19	115	61	<0.1	210
F95109	<1	--	9	65	24	<0.1	65
F95110	<1	--	10	54	33	<0.1	55
F95111	<1	--	21	130	71	<0.1	60
F95112	<1	--	14	38	35	<0.1	75
F95113	<1	--	15	73	81	<0.1	130
F95114	<1	--	15	73	76	<0.1	55
F95115	138	158	26	73	340	<0.1	320
F95116	<1	--	9	42	17	<0.1	50
F95117	<1	--	10	31	13	<0.1	35
F95118	<1	--	8	24	9	0.2	30
F95119	7	8	7	26	8	<0.1	45
F95120	<1	--	12	32	22	<0.1	75
F95121	<1	--	13	45	22	<0.1	85
F95122	<1	--	15	68	34	<0.1	100
F95123	<1	--	14	45	26	<0.1	85
F95124	2	--	36	55	54	<0.1	115
F95125	<1	--	15	17	16	<0.1	20
F95126	<1	--	16	10	9	<0.1	65
F95127	<1	--	9	26	9	<0.1	50
F95128	<1	--	25	39	18	<0.1	130
F95129	<1	--	16	36	25	<0.1	130
F95130	<1	--	14	8	12	<0.1	40
F95131	<1	--	45	23	99	<0.1	210
F95132	<1	--	46	32	64	<0.1	260
F95133	<1	--	105	74	240	<0.1	310
F95134	<1	--	57	23	100	<0.1	450
F95135	<1	--	32	56	26	<0.1	140
F95136	<1	--	27	58	40	<0.1	120
F95137	<1	--	30	41	38	<0.1	65
F95138	<1	--	28	29	42	<0.1	65
F95139	<1	--	33	47	46	<0.1	70
F95140	<1	--	110	135	115	<0.1	95
F95141	14	--	16	76	8	<0.1	10
F95142	<1	--	15	17	12	<0.1	15
F95143	<1	<1	29	23	18	<0.1	10
F95144	<1	--	21	10	13	<0.1	25

UNITS	ppb	ppb	ppm	ppm	ppm	ppm	ppm
DET.LIM	1	1	1	1	1	0.1	5
SCHEME	AA9						

Final

## ANALYTICAL REPORT

SAMPLE	Mn	Fe	Bi
F95051	300	20.4	<1
F95052	900	10.2	<1
F95053	270	13.9	<1
F95054	230	17.2	<1
F95055	760	18.3	<1
F95056	90	18.0	<1
F95057	72	13.8	<1
F95058	360	14.8	<1
F95059	99	22.9	<1
F95060	1480	15.2	<1
F95061	160	18.5	<1
F95062	98	11.9	<1
F95063	130	8.36	<1
F95064	1540	9.66	1
F95065	160	15.8	5
F95066	145	14.3	1
F95067	160	22.8	<1
F95068	75	19.7	<1
F95069	87	8.89	<1
F95070	100	21.4	<1
F95071	72	26.2	<1
F95072	49	24.3	<1
F95073	42	27.1	<1
F95074	47	25.0	1
F95075	115	20.4	1
F95076	220	19.1	2
F95077	130	15.9	1
F95078	61	18.6	1
F95079	79	18.6	<1
F95080	93	18.2	<1
F95081	100	18.1	1
F95082	300	13.8	<1
F95083	88	18.6	1
F95084	185	14.7	1
F95085	390	9.60	<1
F95086	51	16.9	1
F95087	97	16.5	1
F95088	67	25.6	1
F95089	78	18.3	<1
F95090	115	9.30	<1
F95091	160	23.9	4
F95092	210	26.4	7
F95093	160	22.0	10
F95094	68	25.8	2
F95095	310	20.1	1
F95096	7100	16.1	<1
F95097	230	19.2	<1
F95098	720	16.4	<1
F95099	2410	9.48	<1
F95100	185	16.5	5

UNITS	ppm	%	ppm
DET.LIM	4	0.01	1
SCHEME	AA9	AA9	AA9

Final

## ANALYTICAL REPORT

SAMPLE	Mn	Fe	Bi
F95101	115	9.61	3
F95102	145	16.4	15
F95103	1.28%	13.5	1
F95104	210	17.3	<1
F95105	115	23.9	1
F95106	430	17.7	<1
F95107	110	14.9	<1
F95108	125	13.3	3
F95109	72	9.80	<1
F95110	75	18.6	<1
F95111	115	24.4	<1
F95112	190	16.2	<1
F95113	89	16.3	<1
F95114	86	19.5	<1
F95115	140	11.9	<1
F95116	51	19.6	<1
F95117	87	18.8	<1
F95118	56	24.2	<1
F95119	48	22.7	<1
F95120	83	18.9	<1
F95121	85	15.1	<1
F95122	86	7.20	<1
F95123	96	16.6	<1
F95124	1030	22.4	1
F95125	105	6.80	<1
F95126	80	14.3	1
F95127	50	10.8	1
F95128	120	14.4	5
F95129	70	10.9	4
F95130	83	10.5	3
F95131	60	16.3	2
F95132	58	20.9	5
F95133	2600	17.9	2
F95134	460	19.0	3
F95135	230	18.5	1
F95136	460	18.6	<1
F95137	140	6.88	5
F95138	135	7.38	1
F95139	300	7.67	<1
F95140	340	9.21	2
F95141	180	16.4	5
F95142	47	5.92	3
F95143	66	7.99	2
F95144	100	7.59	3

UNITS	ppm	%	ppm
DET.LIM	4	0.01	1
SCHEME	AA9	AA9	AA9
UPPER SCHEME			