GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT

for the

SPROGGE (Justin) Property

Watson Lake Mining District, Southeastern Yukon Territory

Mapsheet 105-H-09

Latitude 61° 42’ N, Longitude 128°10’W

Prepared for:

EAGLE PLAINS RESOURCES LTD.

Suite 200, 44-12th Ave S.

Cranbrook, B.C., V1C 2R7

By

Aaron Higgs, B.Sc (Geol)

TerraLogic Exploration Inc.

Suite 200, 44-12th Ave S.

Cranbrook, B.C., V1C 2R7

April 5th, 2011

SUMMARY

The SPROGGE (Justin) Property is located approximately 175 kilometers north of Watson Lake in the southeast Yukon Territory. The property consists of 25 Quartz Claims (Justin 1-25) administered by the Watson Lake Mining Recorder. The claims are owned 100% by Eagle Plains Resources, with an underlying 1% NSR held by Bernie Kreft of Whitehorse, Yukon.

The regional geology of the southeast Yukon is represented by the basement rocks of the Selwyn Basin, Late Precambrian to Early Cambrian Hyland Group sediments. Regional mineralization is generally controlled by Mid-Cretaceous Tombstone Suite quartz monzonite intrusive stocks. The Sprogge Property is underlain by sedimentary rocks assigned to the Yusezyu Formation.

Gold mineralization on the property is related to two separate phases of faulting which created dilational zones and provided conduits for gold bearing fluid movement. Three mineralogical settings were identified by past operators Viceroy Resources (Schultze, 1997): 1) fracture controlled quartz-arsenopyrite mineralization, including dike hosted mineralization; 2) skarn mineralization within limestone members; and 3) coarse clastic sediment hosted mineralization. Chip sampling of coarse clastic hosted mineralization in the Confluence Zone by Viceroy returned values up to 4.24 gpt Au over 4.5 meters. Viceroy also sampled skarn hosted mineralization in the Main Skarn and Kangas Zones, which returned values of up to 2.38 gpt Au over 22.5 metesrs and 1.6 gpt Au over 1.5 meters respectively.

The 2010 exploration program consisted of 16 field days with a crew of 5 workers and an 207 airborne geophysical survey. The focus of the program was to evaluate and re-sample the known mineralization occurrences and locate further mineralization on the property. The purpose of the airborne geophysical survey was to locate any buried intrusions and major structural features that could be controlling and influencing mineralization on the property. A total of 135 rock samples, 61 silt samples and 209 soil samples were taken over the course of the program.

The 2010 exploration program on the property was successful in outlining an abundance of mineralization occurrences returning over 1 g/t Au. Channel sampling from the Confluence and Main Zone and chip sampling from the Kangas zone confirmed and expanded on the historical results. The Main Zone returned results as high as 11 m of 1.4 g/t Au, 3 g/t Ag and 0.18 % Cu including 3 m at 3.04 g/t Au, 4 g/t Ag and 0.22% Cu as well as 7 m at 2.07 g/t Au, including 3 m at 3.15 g/t Au. The Confluence Zone returned results including 1.6 g/t Au, 2.4 g/t Ag over 4 m while the Kangas Zone returned 1.5 m at 2.85 g/t Au, 4.2 g/t Ag.

An new mineralization occurence was discovered in the northwestern part of the property, along with previously unknown intrusive plug. This zone, named the Pow zone exihibits mineralization similar to both the Main and Confluence Zones. Results include 0.5 g/t Au over 3 m in a chip sample and grab samples from different locations returning up to 2.4 g/t Au in skarn mineralization and 3 g/t Au in mineralized quartz veins.

The geophyical survey over the property was successful in outlining potential target areas of coincident magnetic and electromagnetic anomalies. The magnetic resistivity anomalies with conductive halos could be the indication of buried intrusives and potential mineralization controlling structures were identified from the electromagnetic response.

The soil geochemical program, including geochemical orientation surveys, highlighted the difficulting and variability of the results from this exploration method. The property has very poor soil development and extensive overburdern/till cover in the valley bottoms. The conventional soil samples taken over known mineralization did not return any anomalous values in the elements of interest but the samples taken and analyzed using the Mobile Metal Ion method did return anomalous results for Gold at the Confluence Zone and Copper at the Main Zone. This method would provide a better understanding of buried mineralization potential in areas of cover than the conventional soil sampling method.

The Sprogge (Justin) property has the potential to host an economic Gold, Copper and Silver deposit and further exploration is strongly recommended.

Table of Contents

Introduction....2
Location and Access....2
Tenure....3
History and Previous Work....7
Geology....8
Regional Geology....8
Property Geology (after Schultze, 1997; Gallagher, 2002)....11
2010 Exploration Program....16
2010 Exploration Results....16
Geology....16
Geophysics....18
Geochemistry....18
Conclusions....39
Reccommendations....40
References....41

List of Figures

Figure 1 – Project Location Map....1
Figure 2 – Tenure Map....6
Figure 3a – Regional Geology Map....9
Figure 3b – Geologic Legend....10
Figure 4 – Property Geology and Station Location Map....17 (Pocket)
Property 5a – 2010 Rock sample Location Map....28
Property 5b – 2010 Soil sample Location Map....29
Property 5c – 2010 Silt Sample Location Map....30
Figure 6a – 2010 Geochemical Results - Au....31
Figure 6b – 2010 Geochemical Results - Cu....32
Figure 6c – 2010 Geochemical Results - Ag....33
Figure 6d – 2010 MMI Response Ratios - Au....34
Figure 6e – 2010 MMI Response Ratios - Cu....35
Figure 6f – 2010 MMI Response Ratios - Ag....36
Figure 6 – 2010 MMI Response Ratio - Ag....37
Figure 7 – 2010 Channel Sampling – Main Zone....38

List of Tables

Table 1: Tenure Summary....3
Table 2 – Total Rock Dataset Correlation Highlights....19
Table 3 – 2010 Dataset Correlation Highlights....19
Table 4 – 2010 Rock Sample Statistics....20
Table 5 – Rock Elemental Correlations – 2010 Dataset....21
Table 6 – Rock Elemental Correlations – Total Dataset....22
Table 7 – 2010 Silt Sample Statictics....23
Table 8 – 2010 Soil Sample Statistics....24
Table 9 – Total Soil Dataset Correlation Highlights....25
Table 10 – 2010 Soil Dataset Correlation Highlights....25
Table 11 – Reponse Ratio Calculation....25
Table 12 - Soil Elemental Correlations – 2010 Dataset....26
Table 13 - Soil Elemental Correlations – Total Dataset....27

List of Appendices

Appendix I – Statement of Qualification

Appendix II – Statement of Expenditures

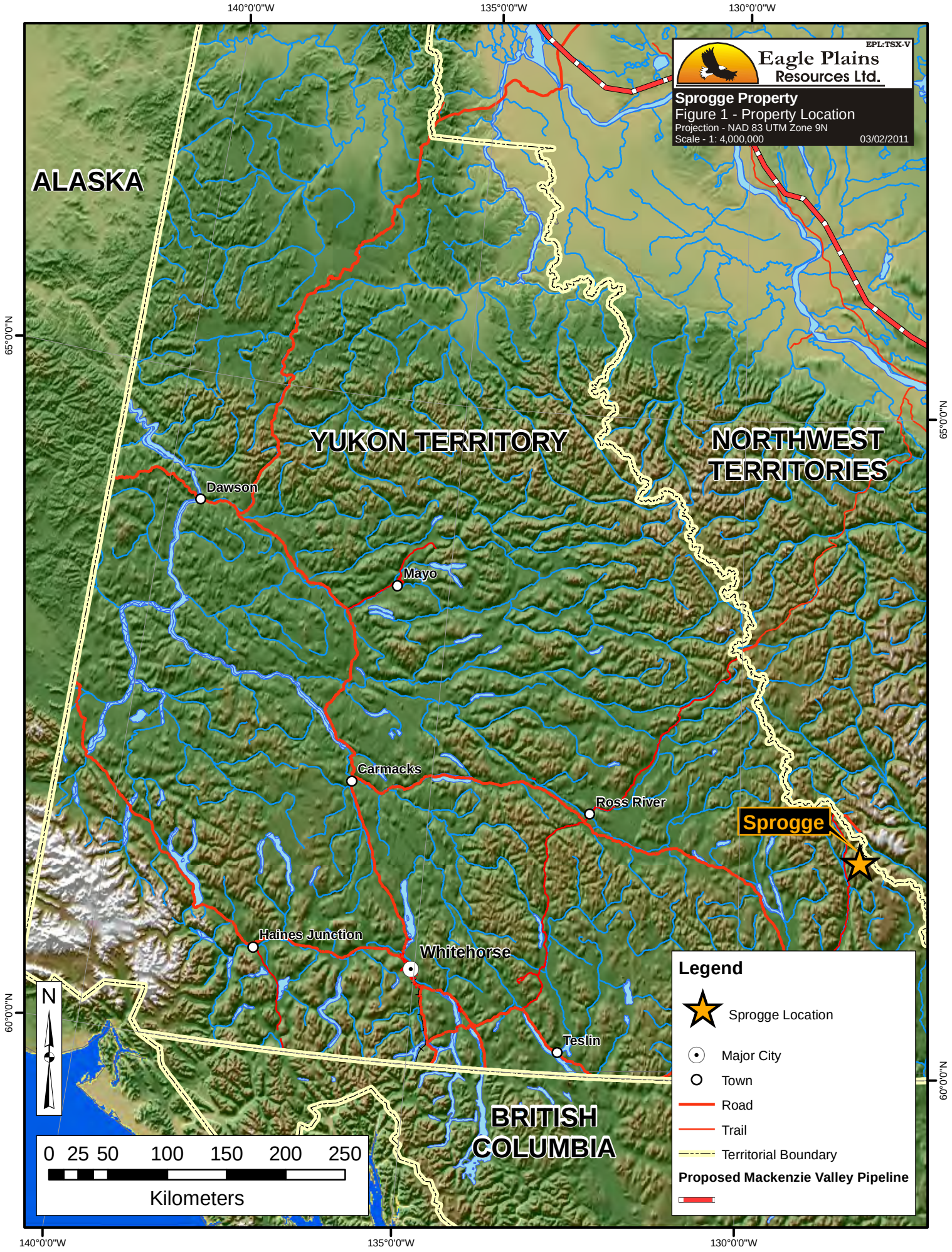
Appendix III – Geochemical Protocol

Appendix IV – Sample Locations and Descriptions

Appendix V – Analytical Certificates

Appendix VI – Geological Mapping Data

Appendix VII – Geophysical Report by Aeroquest Geophysics


EPL:TSX-V
Eagle Plains Resources Ltd.
Sprogge Property
Figure 1 - Property Location
Projection - NAD 83 UTM Zone 9N
Scale - 1: 4,000,000
03/02/2011
140°0'0"W
135°0'0"W
130°0'0"W
65°0'0"N
60°0'0"N
ALASKA
YUKON TERRITORY
NORTHWEST TERRITORIES
BRITISH COLUMBIA
Dawson
Mayo
Carmacks
Ross River
Sprogge
Haines Junction
Whitehorse
Teslin
N
0 25 50 100 150 200 250
Kilometers
Legend
Sprogge Location
Major City
Town
Road
Trail
Territorial Boundary
Proposed Mackenzie Valley Pipeline

INTRODUCTION

Location and Access

The SPROGGE property (Justin 1-25 claims) is located in the east-central Yukon Territory approximately 175 kilometers north of Watson Lake on Mapsheet 105-H-09. The claims are centered at approximately Latitude 61° 42' N / Longitude 128°10'W; NTS 6841036 N / 543970 E. The Nahanni Range Road passes approximately 3 km west of the property. The road was rehabilitated in 2002 with the re-opening of the Cantung tungsten mine and provides all-weather access to the property area.

Helicopter access to the property is equidistant from bases in Watson Lake or Ross River. Equipment and personnel can be mobilized from either the Hyland strip, approximately 20 kilometers south of the property, or from a gravel pit near Piggott Creek.

The property is covered by fairly rugged glaciated terrain typical of the Selwyn Mountains with elevations ranging from 1300 to 2000 meters. A prominent ridge underlies most of the property, with steep south facing slopes and somewhat more moderate north facing slopes. The property is crossed with several N-S trending valleys with deep WNW trending glacial valleys along the northern and southern property boundaries.

Much of the property is covered by talus and rubble crop. Outcrop exposure is best at higher elevations; lower elevations typically have a thin to moderate alpine glacial till blanket covering most of the bedrock with the exception of some of the lower creek gulleys. Higher elevations are generally covered by alpine tundra type vegetation, passing into thick buckbrush and scrub vegetation at mid-elevations on south slopes; lower elevations typically support subalpine fir forests.

Tenure

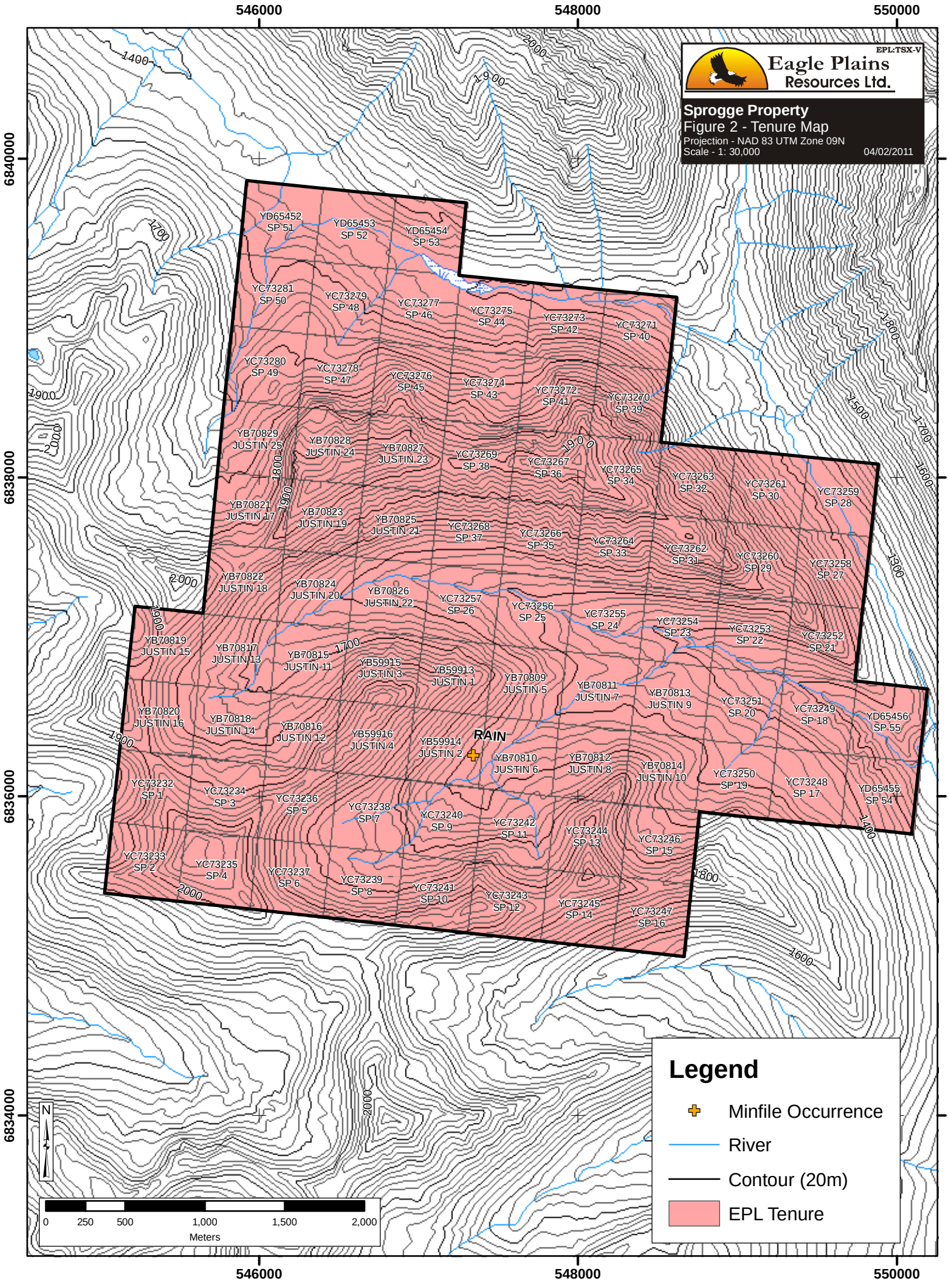
The property consists of 25 Quartz claims located on the Ostensibility Creek Map sheet within the Watson Lake Mining District. The claims are owned 100% by Eagle Plains Resources Ltd., with an underlying 1% NSR carried by Bernie Kreft of Whitehorse, Yukon.

Table 1: Tenure Summary

Quartz Claim ID	Claim Name	Claim Number	Ownership	Recorded Date	Expiry Date
YB59913	JUSTIN	1	EPL	6/1/1995	10/24/2015
YB59914	JUSTIN	2	EPL	6/1/1995	10/24/2015
YB59915	JUSTIN	3	EPL	6/1/1995	10/24/2015
YB59916	JUSTIN	4	EPL	6/1/1995	10/24/2015
YB70809	JUSTIN	5	EPL	10/24/1995	10/24/2015
YB70810	JUSTIN	6	EPL	10/24/1995	10/24/2015
YB70811	JUSTIN	7	EPL	10/24/1995	10/24/2015
YB70812	JUSTIN	8	EPL	10/24/1995	10/24/2015
YB70813	JUSTIN	9	EPL	10/24/1995	10/24/2015
YB70814	JUSTIN	10	EPL	10/24/1995	10/24/2015
YB70815	JUSTIN	11	EPL	10/24/1995	10/24/2015
YB70816	JUSTIN	12	EPL	10/24/1995	10/24/2015
YB70817	JUSTIN	13	EPL	10/24/1995	10/24/2015
YB70818	JUSTIN	14	EPL	10/24/1995	10/24/2015
YB70819	JUSTIN	15	EPL	10/24/1995	10/24/2015
YB70820	JUSTIN	16	EPL	10/24/1995	10/24/2015
YB70821	JUSTIN	17	EPL	10/24/1995	10/24/2015
YB70822	JUSTIN	18	EPL	10/24/1995	10/24/2015
YB70823	JUSTIN	19	EPL	10/24/1995	10/24/2015
YB70824	JUSTIN	20	EPL	10/24/1995	10/24/2015
YB70825	JUSTIN	21	EPL	10/24/1995	10/24/2015
YB70826	JUSTIN	22	EPL	10/24/1995	10/24/2015
YB70827	JUSTIN	23	EPL	10/24/1995	10/24/2015
YB70828	JUSTIN	24	EPL	10/24/1995	10/24/2015
YB70829	JUSTIN	25	EPL	10/24/1995	10/24/2015
YC73232	SP	1	EPL	4/11/2008	10/11/2015
YC73233	SP	2	EPL	4/11/2008	10/11/2015
YC73234	SP	3	EPL	4/11/2008	10/11/2015
YC73235	SP	4	EPL	4/11/2008	10/11/2015
YC73236	SP	5	EPL	4/11/2008	10/11/2015
YC73237	SP	6	EPL	4/11/2008	10/11/2015
YC73238	SP	7	EPL	4/11/2008	10/11/2015
YC73239	SP	8	EPL	4/11/2008	10/11/2015
YC73240	SP	9	EPL	4/11/2008	10/11/2015
YC73241	SP	10	EPL	4/11/2008	10/11/2015
YC73242	SP	11	EPL	4/11/2008	10/11/2015

Quartz Claim ID	Claim Name	Claim Number	Ownership	Recorded Date	Expiry Date
YC73243	SP	12	EPL	4/11/2008	10/11/2015
YC73244	SP	13	EPL	4/11/2008	10/11/2015
YC73245	SP	14	EPL	4/11/2008	10/11/2015
YC73246	SP	15	EPL	4/11/2008	10/11/2015
YC73247	SP	16	EPL	4/11/2008	10/11/2015
YC73248	SP	17	EPL	4/11/2008	10/11/2015
YC73249	SP	18	EPL	4/11/2008	10/11/2015
YC73250	SP	19	EPL	4/11/2008	10/11/2015
YC73251	SP	20	EPL	4/11/2008	10/11/2015
YC73252	SP	21	EPL	4/11/2008	10/11/2015
YC73253	SP	22	EPL	4/11/2008	10/11/2015
YC73254	SP	23	EPL	4/11/2008	10/11/2015
YC73255	SP	24	EPL	4/11/2008	10/11/2015
YC73256	SP	25	EPL	4/11/2008	10/11/2015
YC73257	SP	26	EPL	4/11/2008	10/11/2015
YC73258	SP	27	EPL	4/11/2008	10/11/2015
YC73259	SP	28	EPL	4/11/2008	10/11/2015
YC73260	SP	29	EPL	4/11/2008	10/11/2015
YC73261	SP	30	EPL	4/11/2008	10/11/2015
YC73262	SP	31	EPL	4/11/2008	10/11/2015
YC73263	SP	32	EPL	4/11/2008	10/11/2015
YC73264	SP	33	EPL	4/11/2008	10/11/2015
YC73265	SP	34	EPL	4/11/2008	10/11/2015
YC73266	SP	35	EPL	4/11/2008	10/11/2015
YC73267	SP	36	EPL	4/11/2008	10/11/2015
YC73268	SP	37	EPL	4/11/2008	10/11/2015
YC73269	SP	38	EPL	4/11/2008	10/11/2015
YC73270	SP	39	EPL	4/11/2008	10/11/2015
YC73271	SP	40	EPL	4/11/2008	10/11/2015
YC73272	SP	41	EPL	4/11/2008	10/11/2015
YC73273	SP	42	EPL	4/11/2008	10/11/2015
YC73274	SP	43	EPL	4/11/2008	10/11/2015
YC73275	SP	44	EPL	4/11/2008	10/11/2015
YC73276	SP	45	EPL	4/11/2008	10/11/2015
YC73277	SP	46	EPL	4/11/2008	10/11/2015
YC73278	SP	47	EPL	4/11/2008	10/11/2015
YC73279	SP	48	EPL	4/11/2008	10/11/2015
YC73280	SP	49	EPL	4/11/2008	10/11/2015
YC73281	SP	50	EPL	4/11/2008	10/11/2015
YD65452	SP	51	EPL	8/27/2010	10/11/2015
YD65453	SP	52	EPL	8/27/2010	10/11/2015

Quartz Claim ID	Claim Name	Claim Number	Ownership	Recorded Date	Expiry Date
YD65454	SP	53	EPL	8/27/2010	10/11/2015
YD65455	SP	54	EPL	8/27/2010	10/11/2015
YD65456	SP	55	EPL	8/27/2010	10/11/2015


EPL:TSX-V
Eagle Plains Resources Ltd.
Sprogge Property
Figure 2 - Tenure Map
Projection - NAD 83 UTM Zone 09N
Scale - 1: 30,000
04/02/2011
546000
548000
550000
6840000
6838000
6836000
6834000
YD65452 SP 51
YD65453 SP 52
YD65454 SP 53
YC73281 SP 50
YC73279 SP 48
YC73277 SP 46
YC73275 SP 44
YC73273 SP 42
YC73271 SP 40
YC73280 SP 49
YC73278 SP 47
YC73276 SP 45
YC73274 SP 43
YC73272 SP 41
YC73270 SP 39
YB70829 JUSTIN 25
YB70828 JUSTIN 24
YB70827 JUSTIN 23
YC73269 SP 38
YC73267 SP 36
YC73265 SP 34
YC73263 SP 32
YC73261 SP 30
YC73259 SP 28
YB70821 JUSTIN 17
YB70823 JUSTIN 19
YB70825 JUSTIN 21
YC73268 SP 37
YC73266 SP 35
YC73264 SP 33
YC73262 SP 31
YC73260 SP 29
YC73258 SP 27
YB70822 JUSTIN 18
YB70824 JUSTIN 20
YB70826 JUSTIN 22
YC73257 SP 26
YC73256 SP 25
YC73255 SP 24
YC73254 SP 23
YC73253 SP 22
YC73252 SP 21
YB70819 JUSTIN 15
YB70817 JUSTIN 13
YB70815 JUSTIN 11
YB59915 JUSTIN 3
YB59913 JUSTIN 1
YB70809 JUSTIN 5
YB70811 JUSTIN 7
YB70813 JUSTIN 9
YC73251 SP 20
YC73249 SP 18
YD65456 SP 55
YB70820 JUSTIN 16
YB70818 JUSTIN 14
YB70816 JUSTIN 12
YB59916 JUSTIN 4
YB59914 JUSTIN 2
RAIN
YB70810 JUSTIN 6
YB70812 JUSTIN 8
YB70814 JUSTIN 10
YC73250 SP 19
YC73248 SP 17
YD65455 SP 54
YC73232 SP 1
YC73234 SP 3
YC73236 SP 5
YC73238 SP 7
YC73240 SP 9
YC73242 SP 11
YC73244 SP 13
YC73246 SP 15
YC73233 SP 2
YC73235 SP 4
YC73237 SP 6
YC73239 SP 8
YC73241 SP 10
YC73243 SP 12
YC73245 SP 14
YC73247 SP 16
1400
1500
1600
1700
1800
1900
2000
N
0 250 500 1,000 1,500 2,000
Meters
Legend
Minfile Occurrence
River
Contour (20m)
EPL Tenure

History and Previous Work

The SPROGGE (Justin) claim area was first explored in 1964, when Norquest JV staked the RAIN Claim to cover skarn and replacement style pyrite, pyrrhotite and chalcopyrite mineralization. The JV carried out geological mapping and a ground magnetic survey in 1965. The area was restaked as the BJ claim in 1975 by B. Corrigan, and again in 1980 by Majestic Mg. Corporation as the SUN Claim Group. Majestic optioned the claims to Vancliffe Resource Corporation. In 1981, Waterloo Energy Corp tied on the Lightning Claims to the south and staked a separate block 2 kilometers south of the SUN Claims. Vista Resources tied on two more SUN Claims in 1987. A 1987 joint venture between Vista, Vancliffe, and Conquest drilled four holes across the "Main Skarn Zone" to test for copper-gold mineralization. Noranda Exploration tied on the PTAR Claims along the north side in 1988, and E.G. Sykes staked two additional SUN Claims in 1990. The claims all lapsed in the early 1990's.

In June 1995 Bernie Kreft of Whitehorse staked the JUSTIN 1-4 claims to cover the central "Main Skarn Zone" area and carried out limited prospecting to the southeast. The claims were optioned by Hemlo Gold Mines Inc in 1995, who staked the JUSTIN 5-25 claims to the east, west and south of the Justin Property in October 1995.

In 1996, Hemlo carried out reconnaissance exploration in the area that led to the staking of the SPROGGE 1-74 Claims southwest of the Justin Property. The entire claim group was consolidated as the Sprogge Property under a 1997 option agreement with Viceroy Exploration, who conducted geologic mapping, prospecting, soil sampling, and limited hand trenching. The option was transferred to NovaGold Resources in 1999 as part of an underlying deal. NovaGold dropped their option on the JUSTIN 1-25 Claims in 2000. The claims were optioned by Eagle Plains Resources from property owner Bernie Kreft in 2001.

GEOLOGY

Regional Geology

The SPROGGE property lies within the Selwyn Mountains and is underlain by a sequence of Selwyn Basin stratigraphy at least 1.5 kilometres thick, composed primarily of shallow marine shelf and off-shelf sedimentary rock derived from the ancient North American Platform. Strata were deposited from late Precambrian to Permian time, with accelerated deposition coinciding with periods of continental uplift, and creating specific stratigraphic "Groups".

The SPROGGE area is underlain primarily by Late Precambrian to Early Cambrian Hyland Group stratigraphy, consisting primarily of phyllite, calcareous phyllite and coarse clastic sediments, with lesser limestone. The fine sediments represent a shallow marine depositional environment, typical of a back-arc basin, although the coarse clastic may represent regions of deltaic or possibly submarine channel emplacement. Tectonic deformation and faulting has resulted in a pronounced NW-SE structural fabric which begins to "bend" southward near the NWT Border. The Hyland group sequence is separated from younger Cambrian to Ordovician Rabbitkettle Formation thin to medium bedded limestone to the north by a pronounced transcurrent NW-SE trending fault, which may represent a significant tectonic event

The Justin claims occurs near the eastern limit of the alkaline intrusive rocks known as the Tombstone Plutonic Suite. This intrusive belt consists of a broad suite of mid-Cretaceous (+/- 91ma) quartz monzonitic stocks and plutons extending over 400 kilometres ESE from just east of the Alaskan border to just beyond the NWT border. The intrusives often occur as dikes and apophyses, associated with broad zones of hornfelsing. Several Tombstone Suite stocks have been emplaced locally to the north of the Justin claims. These control most of the known mineralization in the area, most notably the Cantung tungsten skarn deposit 30 km to the north, and similar sub-economic mineralization underlying the Tuna Property located 10 km north. A suite of related dikes, often NNW trending, occurs within the area.

The Justin claims occurs where Selwyn Basin stratigraphy and the NW-SE structural fabric begins to curve southwards. Emplacement of the Tombstone Suite occurred after the regional faulting. Major linear fault controlled drainages, primarily the Hyland and Little Hyland Rivers, show that major "linears" extend nearly N-S.

295000 300000 305000 310000 315000

5670000 5665000 5660000

EKav
MEBS
DMEBF
DEBD
DEBSk
DMEBF
SAMATOSUM
REA
lCmEBJ
lCmEBsf
K7
lCmEBlm
lCmEBlc
lCmEBJ
lCmEBJ
lCmEBlm
TWIN 3 LENS
INFERNO
TWIN MOUNTAIN ZONE
lCmEBJ
lCmEBsf
DEBSk
HOMESTAKE
lCmEBlm
lCmEBsf
DEBog
A2
A3
A1
A8
ACACIA
A4
A7
A5
A6
Plvb
lPzEBF
Plvb
DEBSk
DEBog
lPzMlmc
DEBog
DEBog
DEBD
DEBu
lPzMlS
MEBS
DEBSk
lCmEBJ
lCmEBsf
DEBog
Adams Lake

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Eagle Plains Resources Ltd.

Acacia Property
Figure 3a - Regional Geology
Projection - NAD 83 UTM Zone 11N
Scale - 1: 50000 22/02/2011

EPL:TSX-V

Eagle Plains Resources Ltd.

Sprogge Property

Figure 3b - Regional Geology

Projection - NAD 83 UTM Zone 09N

Scale - 1: 100 000 04/02/2011

Geology Legend* Geology after Gordey and Makepeace (1999)

Folds

Anticline, Inferred

Contacts

Inferred

Bedrock Geology

mKgS: SELWYN SUITE: resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspasr) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)

ODR: ROAD RIVER - SELWYN: black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basinal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)

COR1: RABBITKETTLE: thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff (Rabbitkettle)

lCG1: GULL LAKE: shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (garnet sillimanite staurolite andalusite) (Gull Lake)

lCS: SEKWI: limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone; medium- to thick-bedded quartz sandstone; purple siltstone; bright orange weathering, fine crystalline dolostone (Sekwi)

uPCV: VAMPIRE: dark brown weathering. thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse grained white to light grey orthoquartzite; phyllite, slate, and argillite (Vampire)

PCH: HYLAND: consists upwards of coarse turbiditic clastics (1), limestone (2) and fine clastics typified by maroon and green shale (3); may include younger (4) units; includes scattered mafic volcanic rocks (5) (Hyland Gp.)

PCH2: HYLAND: grey weathering, dark grey to grey white, thin to thick bedded, very fine crystalline limestone, locally sandy; calc-silicate and marble; may locally include carbonate members within (1) or (4) (Hyland Gp., Algae Lake , limestone member of Yusezyu)

PCH3: HYLAND: distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (Hyland Gp., Narchilla , Senoah , Arrowhead Lake)

PCH4: HYLAND: quartzose clastic rocks as described in (1); mostly(?) equivalent to (1) but may include younger units (Hyland Gp., mostly(?) Yusezyu)

ice

Property Geology (after Schultze, 1997; Gallagher, 2002)

The property is underlain by a broad package of WNW trending NNE dipping Hyland Group sediments consisting of thick units of coarse clastic sediments inter-bedded with fine-grained phyllitic units. The extreme northeastern areas are underlain by a thick package of Rabbitkettle Formation thin-bedded, tan weathering limestone. Hyland Group stratigraphy has been intruded by a suite of NNW trending structurally controlled Tombstone Suite quartz monzonite and quartz-biotite monzonite dikes. The NW-SE trending Sprogge Creek Fault (local name) extending along the north boundary of the property, separates the two groups to the east of the original SPROGGE 1-74 claims. West of this, the contact fault splays slightly to the NW of the pronounced lineation controlling the Sprogge Creek drainage.

Three distinct styles of mineralization are documented on the property. These are thought to be a direct reflection of a long lived, widespread meso- or epithermal mineralization event occurring in reactive calcareous sediments with multiple permeable structures resulting from polyphase brittle and brittle – ductile shearing.

Detailed geologic mapping has been completed only across gridded areas of the Justin block and limited reconnaissance mapping and prospecting has occurred elsewhere. The following is a brief description of lithologic map units present.

Lithologic Map Units

Intrusive Rocks

Cretaceous Tombstone Suite

A variety of quartz-feldspar porphyritic dykes interpreted to belong to the Mid-Cretaceous Tombstone Intrusive Suite are documented on the property. These include Quartz monzonite (QM), Quartz Diorite (QDR), Quartz biotite monzonite (QBM) and Limonitic Altered Quartz Monzonite (LAQM).

Petrographic thin section analysis is necessary to determine if the QM and QDR are two separate lithologies, or have been differentiated merely on differences in mafic mineral content. Dyke material underlying the Justin claims has undergone moderate hypogene argillic alteration and moderate silicification. A quartz diorite dyke extends across the western Justin claims (Fig. 4).

Both the pale-green quartz biotite monzonite and the texturally similar quartz monzonite have undergone variable argillic alteration resulting nearly complete replacement of biotite with sericite. Similar NE trending faults have produced localized mineralization. Some dikes appear to grade from a QBM to a QM, consistent with multiple intrusive events from a single evolving magma source or multiple magma sources.

Sedimentary Rocks

Sedimentary rocks of the Justin claims are comprised of two major formations: the Rabbitkettle Formation (COR), and the Yusezyu Formation of the Hyland Group (PCH). The only unit recognized within the Rabbitkettle Formation is a thin to medium bedded white to buff weathering limestone (LST). This has been mapped in the extreme NE areas of the map area - north of the Sprogge Creek Fault (Fig. 4). The following lithologic units have been identified within the Yusezyu Formation of the Hyland Group: Limestone (LST); Silty limestone (SLST); Phyllite (PHY); Argillite (ARG); Siltstone (SLT); Shale (SH); Sandstone (SS); Greywacke (GW); Quartz Pebble Conglomerate (QPC) and Quartz Feldspar Pebble Conglomerate (QFPC).

The stratigraphy of the Yusezyu Formation can be divided into three members. These include: the structurally lowest coarse clastic member (QPC, QFPC, lesser GW, SS); the middle fine-grained member (PHY, ARG, SLT, SH); and an upper limestone member (LST, SLST). Portions of the SLST may belong to the middle member.

Upper Limestone Member

The limestone member (LST) consists of thin to moderate sized, somewhat discontinuous units of impure thin to medium bedded limestone, often inter-bedded with or grading into fine-grained calcareous sediments. Limestone underlying the Justin claims has often undergone strong calc-silicate alteration and/or silicification, and hosts much of the economic mineralization on the claims. The silty Limestone (SLST) is impure limestone with a significant fine clastic component, or a finely inter-bedded sequence of limy and silty beds.

Middle Fine-Grained Member

This member is comprised primarily of a weakly silicified calcareous package of phyllite (PHY) with small sub-units of Argillite (ARG) within it. The phyllite consists of thick sequences of monotonous, fairly uniform fissile thin-bedded, fine-grained sediments. Weakly silicified calcareous phyllite, displaying some calc-silicate alteration underlies the central portion of the Justin claims. The argillitic rocks tend to be fine grained and fissile, with a slightly higher graphite content than the phyllite. The Siltstone (SLT) unit is also is interbedded within the broad phyllite unit and represents slightly more coarsely grained beds. The two units can be difficult to discern and are sometimes mapped as siltstone. The fine-grained fissile Shale (SH) occurs as a laterally-extensive fairly thin unit displaying strong deep green chloritic alteration. The unit's distinct colour makes it an excellent marker horizon across parts of the property.

Lower Clastic Member

The Quartz Pebble Conglomerate (QPC) occurs as thick, poorly sorted, largely undifferentiated units across the property. The framework of the rock consists of 10 - 30% euhedral to subhedral feldspar and 25 - 60% rounded to subrounded quartz grains ranging in size from fine-grained to 10 mm in diameter. Minor mafic lithic fragments occur locally. The matrix consists of very fine grained quartz and minor feldspar within a calcareous cement, which has commonly been silicified following decalcification locally resulting in a chalcedonic texture. Across the property, variable amounts of silicification and selective argillic alteration of feldspar grains has occurred. This unit was originally mapped as an altered intrusive assemblage. The Quartz Feldspar Pebble Conglomerate (QFPC) unit is similar to QPC except that it contains a higher concentration of feldspar clasts. Sandstone (SS) represents a more finely grained variant of the QPC, and is often calcareous. This may represent a more distal submarine fan or stream sediment depositional setting to that forming the QPC (Gordey and Anderson, 1996). Finally, the Greywacke (GW) unit consists of poorly sorted medium to coarse-grained clastic sediments, possibly with a higher lithic fragment component. It may represent a locally turbiditic environment, possibly along submarine channel walls.

Structural Geology

Stratigraphy underlying the Justin claims strikes at about 290° and is nearly flat lying to weakly south dipping. Foliation directions are variable, often striking roughly N-S with a subvertical dip near dikes or structurally disrupted areas. Near the Sprogge Creek fault, bedding and foliation directions become strongly disrupted, with an overall NW-SE trending fabric extending to the fault.

Although no major folding events have been documented on the property, shear zones and minor structures on the property are consistent with two major regional shearing events having taken place. Minor structures include three prominent jointing directions: a NNW-SSE trending, steeply dipping set; a set dipping moderately to the NW; and a roughly E-W striking subvertical set. Structural analysis of the data set has established a mid-Cretaceous NW-SE trending dextral strike-slip faulting event followed by development of the younger conjugate set trending to the NE-SW and E-W. The NNW trending set is most prominent of the conjugate set, and is subparallel to the structurally controlled dikes and other prominent features.

Mid-Cretaceous Dextral Strike-Slip Faulting

A NW-SE trending transcurrent fault zone (Sprogge Creek Fault), characterized by a pronounced NW trending lineament, extends along the north property boundary (Fig.4). The inferred subparallel Dayo Creek Fault extends to the south of the property. The Sprogge Creek Fault forms the contact between Hyland group and Rabbitkettle Formation stratigraphy; from a point just east of the Sprogge claims the contact splays slightly to the NW west of this point (Fig.4). A well developed set of coeval extensional faults, trending at 340°, are documented between the strike-slip faults across the entire property. The orientation of these coeval faults, with respect to the strike-slip fault system, is consistent with dextral displacement along the strike-slip system. Development of these NNW trending dilational structures provided planes of weakness for emplacement of Cretaceous dikes and veins. Other NNW trending structural features, including the prominent jointing direction and foliation along major strike-slip fault structures, are also interpreted to result from this extensional regime. These NNW trending structural features are most prominent in the central areas of the Justin claims.

Conjugate Shear Fabric

A conjugate shear set, less obvious than extensional faulting, that trends NE-SW and E-W, underlies the property west of the Justin claims. The NE-SW trending structures are typically brittle faults while the coeval E-W trending structures are typically brittle-ductile shear zones. The NE-SW trending faulting controls many of the minor drainages, as well as the NE trending joint set. NE trending minor faults are observed cross-cutting NNW trending dykes that intrude extensional zones

associated with strike-slip deformation. This is consistent with the development of conjugate shear fabrics post-dating major mid-Cretaceous strike-slip motion.

Two major shearing events have resulted in three planes of permeable structural fabric forming abundant favorable areas for mineral emplacement. Intersection zones of major shear fabrics may provide particularly favourable settings.

Mineralization (after Schultze, 1997; Gallagher, 2002)

Three major styles of gold mineralization have been recognized on the Justin Claims. These varying styles are thought to reflect one widespread, long lived, yet multi-phased, late mesothermal to epithermal mineralization event occurring under different structural settings on the property. The different styles of mineralization include:

1) fracture controlled vein, vein breccia, stockwork and extensional fault controlled mineralization;

2) skarn and replacement style mineralization, and;

3) a composite mineralization style, resulting in pervasive mineralization within coarse clastic sediments;

Where mineralization is structurally controlled, it is thought to be dictated by the extensional fault system associated with mid-Cretaceous dextral strike-slip shear. These NNW trending dilatational structures host Type 1 (fracture controlled) mineralization and the skarn occurrences (Type 2) with the exception of the Kangas Zone skarn (See below). No significant mineralization has been noted in the associated major NW trending dextral strike-slip faults, although ferricrete occurs along the south flank of the Sprogge Creek Fault. North-east trending structures, along with local East – West shear zones, associated with later conjugate shear, also control some high-grade vein mineralization. Comparable gold values have been returned from both structurally controlled mineralization regimes; thus, no temporal gold zonation with respect to structurally controlled mineralization has been determined. Alteration associated with these mineralized settings is a reflection of the physical and chemical characteristics of the original host rock. The major factors are the permeability and reactivity of the host rock, and proximity to faults and structural corridors which may act as conduits for mineralized fluids. The coarse clastic and calcareous members of the Yusezyu Formation provide favourable settings for pervasive alteration and mineralization. Fine sediments underlying the Justin claims are more calcareous; thus some potential exists for replacement style mineralization.

All three types of mineralization are, at the oldest, mid-Cretaceous in age. Skarn type replacement mineralization, is interpreted to be penecontemporaneous with, or slightly post-date, intrusion of mid-Cretaceous dykes into extensional fault systems. Vein mineralization is interpreted to be controlled primarily by mid-Cretaceous extensional faults although some vein mineralization is also clearly controlled by the younger conjugate shear system, suggesting that this style of mineralization might post date intrusion of mid-Cretaceous dykes and skarn development.

Mineralization Styles

Fracture Controlled

Quartz-arsenopyrite veining, breccia zones, and fracture controlled mineralization occur within several areas of the property. Typically veins contain from 5 - 25% arsenopyrite, often concentrated along fractures within the veins, and have strongly anomalous antimony, bismuth and moderately elevated mercury signatures. Quartz-arsenopyrite veining occurs within all lithologies, exhibiting varying textural characteristics depending on the host rock. Within the coarse clastic units, veins tend to be narrow and fault controlled; however, mineralization extends somewhat into the silicified host rock. Veins tend to be structurally controlled along all of the major lineation directions, suggesting vein development post-dated major structural development. Narrow fault controlled veining returning up to 1.6 gpt Au occurs within the phyllite and limestone units. One exception is a 20cm wide quartz-galena-arsenopyrite vein returning 15.8 gpt Au, located roughly 1.0 km E of the Main Skarn.

Dikes within the Justin claims have undergone weak argillic alteration and silicification, and locally contain fine quartz stockwork mineralization, largely along contact zones where fine brittle fracturing has occurred. The quartz monzonite dike along the west boundary of the Main Skarn within the central Justin claims has undergone brittle fracturing and subsequent chalcedonic veining. Sampling has returned values to 5.7 gpt Au/1.0 m underlying the western part of Trench SN97-2, which returned 2.38 gpt Au/22.5m. Thus, these dikes have potential to host significant mineralization. However, sampling of dike material elsewhere has returned weakly anomalous to background gold values.

Skarn

The flat-lying limestone and silty limestone units (Upper Limestone Member) underlying the Justin claims have undergone typical skarn type mineralization, consisting of decalcification, silicification, and calc-silicate and sulphide mineral development. More exploration is necessary to determine the presence of skarn mineralization elsewhere.

Two major skarn zones occur within the Justin claims: the Main Skarn and Kangas Zone (Fig. 4); several smaller zones occur along the north flank of the central ridge. Replacement style massive pyrrhotite, pyrite, and arsenopyrite, disseminated chalcopyrite and vein arsenopyrite typify the unique skarn assemblage of the Kangas Zone. Calc-silicate minerals include fine-grained diopside, actinolite, and minor chlorite. Apparently, with the exception of the western extreme of the Main Skarn, gold is associated most strongly with arsenopyrite; only moderately anomalous values were returned from chalcopyrite enriched samples, and pyrrotitic zones returned near background values.

With the exception of the Kangas Zone, all skarn occurrences are associated with NNW trending dikes, although it is surprising such narrow dike emplacement could cause such extensive mineralization. Mineralization also is associated with a well developed NNW trending lineation, including jointing and foliation.

Composite

The coarse clastic sediments provide an excellent setting for hydrothermal mineralization. These thick, uniform units are permeable due to coarse fragment size, fairly reactive due to the calcareous nature of much of the original matrix cement, and prone to semi-brittle fracturing, shown by the presence of several fault and quartz stockwork zones, particularly along contacts. These broad mineralized zones have the greatest potential to host bulk tonnage gold deposits within the property.

Weak to moderate pervasive silicification, but very limited argillic alteration has occurred in the Confluence zone. A broad zone of chalcedonic veining within coarse clastic sediments is centred at the confluence of Sun and South Sun Creeks within the eastern part of the Justin claims (Fig. 4). These fracture controlled veins range in size from nearly microscopic to 2.0m in width, and return gold values from 0.42 gpt Au to 7.0 gpt Au/l.0 m with a value of 4.24 gpt Au/4.5m returned from Trench SN97-3 (Schultze, 1997). These overprint localized quartz-arsenopyrite veining and appear to be the primary gold host. Although most veining appears to be sulphide poor, local strongly pyritic float has returned up to 0.52 gpt Au. Rock sampling of a similar zone occurring just north of the NW boundary of the Justin claims has returned up to 0.45 gpt Au; RGS silt sampling of a local stream returned 45 ppb Au.

Characteristics of Mineralized Zones

The three zones of significant mineralization in order of importance are: 1) Main Skan, 2) Confluence Zone, and 3) Kangas Zone.

Main Skarn

The Main Skarn, located in the central Justin claims is the only significant zone recognized prior to exploration by Bernie Kreft. Four holes drilled to test copper-gold skarn mineralization yielded only weakly anomalous values resulting in the original Sun claims being allowed to lapse. However, in 1995 exploration by Hemlo showed that a fractured, resilicified and gold mineralized quartz monzonite dike bounds the zone to the west. Successive exploration programs showed that a significantly mineralized zone extends east from roughly 6.0 metres within the dike into strongly pyritic and pyrrhotitic limestone and calcareous phyllite. Calc-silicate mineralization consists of fine grained pervasive to fracture controlled actinolite and diopside, with minor chlorite. Trench SN97-2 extending across this zone returned 2.38gpt Au/22.5m, and anomalous values continued to the east into the previously tested mineralization (Schultze, 1997). This intersection has not been tested by previous drilling. It appears that most of the Main Zone consists of this low grade peripheral mineralization, and that a significant mineralized zone occurs along the western margin and may extend northward along the dike. Schultze, 1997 concluded that mineralization was emplaced from fluids traveling from the structural corridor controlling the dike into decalcified strata within the flat lying limestone.

Trench SN97- 1, excavated roughly 20metres south of SN97-2 returned low gold values within strongly pyritic and pyrrhotitic skarn mineralization. Its spatial relationship to SN97-2 remains unknown; Sun Creek, which flows between the two trenches, may occupy a structural corridor.

Confluence Zone

The Confluence Zone is a broad zone measuring at least 600m x 250m in area, and consists of coarse clastic material with considerable fracture controlled chalcedonic veining. It is centred at the confluence of Sun and South Sun Creeks (Fig. 3a-c, 4a-c). Veins are typically sulphide poor, and range in size from nearly microscopic to up to 2.0m in width. Rock values

range from 0.42 to 7.0 gpt Au over 1.5 metres (Schultze, 1997). Trench SN97-3 returned 4.24 gpt Au over 4.5 metres, and is open to the west; continuous channel sampling east of this intersection returned elevated values to 0.64 gpt Au. Significant gold values were returned from sampling throughout the occurrence, including proximal glacial float from the western end of known mineralization. This suggests the source rock occurs up-ice further west, expanding the potential size of the showing. Fracture controlled and disseminated pyrite is abundant in surrounding wallrock. Most elevated gold values are associated with chalcedonic veining, which locally crosscut quartz-arsenopyrite veining. This suggests mineralization resulted from late phases of hydrothermal activity.

Kangas Zone

The Kangas Zone is a N-S extending zone of skarn and replacement style mineralization within calcareous siltstone and minor limestone located along the north flank of the central ridge of the Justin claims. Mineralization consists of fracture controlled and replacement style nearly massive pyrrhotite and local pyrite, with minor disseminated chalcopyrite, along with fine grained diopside and actinolite.

Replacement style arsenopyrite is abundant, as well as fracture controlled arsenopyrite and quartz-arsenopyrite veining. Values to 1.6 gpt Au / 1.5 metres and 1.2 gpt Au / 1.0 metres were returned from replacement style arsenopyrite horizons (Schultze, 1997). Quartz-arsenopyrite veining returned elevated gold values, although pyrrhotitic horizons returned low values. Host stratigraphy strikes roughly ESE, and dips gently to the south although this may become disrupted near the Sprogge Creek Fault.

Mineralization has been traced along a 400metre x 75metre N-S extending zone, grading into altered weakly calcareous phyllite to the east. The west, north, and south boundaries cannot be determined due to talus cover, although it does not extend south to the ridge line. Elevated soil (talus fine) values to 805 ppb extend along strike uphill to the south. An occurrence of similar skarn mineralization returning 1.26 gpt Au over 1.5m outcrops nearby to the west, suggesting the zone may be wider than 75 metres.

The Kangas Zone is roughly along strike of the NNW trending lineation controlling Main Skam mineralization. The Kangas Zone may be quite thick, with somewhat discontinuous mineralization occurring across at least 150m of true width. It stratigraphically overlies an interpreted northward extension of stratigraphy hosting the Main Skam. However, it is close enough that similarly reactive stratigraphy within both zones may be affected by a single mineralizing event. Strata encompassing both showings may be regarded as a single mineralized horizon. The two zones may represent exposures of a significant thick zone of skarn and replacement style mineralization controlled by the NNW trending lineament, within the broad N-S structural zone outlined on Fig.4.

2010 Exploration Program

The 2010 exploration program consisted of 16 field days with a crew of 5 workers and an 207 airborne geophysical survey. The crew mobilized to a camp set up on the property from a staging area on the Nahanni Range road, ~15 km to the west of the property. Helicopter chrater was with Trans North Helicopters out of Watson Lake.

The focus of the program was to evaluate and re-sample the known mineralization occurrences and locate further mineralization on the property. The purpose of the airborne geophysical survey was to locate any buried intrusions and major structural features that could be controlling and influencing mineralization on the property. Channel samples were taken over the known Main and Confluence zones and chip samples taken over the Kangas zone. Prospecting and Geological Mapping was completed over areas with less historical work. Silt sampling was completed along the creeks cross cutting the property. Soil orientation pits were dug over or very close to the known mineralization Main Zone and Confluence Zone to test the anomalous responses in the soils at different horizons as well as get a better understanding of the soil profile at these two localitites. Small soil sampling surveys were completed over the Confluence Zone, Main Zone, below the Kangas Zone and a greophysical anomaly to the west of the Main Zone to test the response at these locations for both conventional soil sampling and Mobile Metal Ion sampling. Geological consultant Carl Shulze, who has worked extensively on the property, was brought in to give a brief tutorial on the property and previous exploration work to the TerraLogic geologists.

Total expenditures on the Sprogge (Justin) property in 2010 were $183,901.92.

2010 Exploration Results

Geology

A new mineralized zone was discovered during the program, the Pow Zone. This zone consists of both a calc-silicate skarn system as well as chalcedonic and quartz veining with arsenopyrite and pyrhhotite in coarse clastic sediments. On the margin of this zone is a newly discovered granodiorite plug. It is the first surficial expression of intrusive activity located in the greater Hyland valley region.

Exploration of the north portion of the property, undertaken to follow up an airborne geophysical anomaly, resulted in the discovery of new skarn and quartz-arsenopyrite vein mineralization. This area consists of Hyland Group quartz pebble conglomerate (QPC) and siltstone with granodiorite dykes intersecting the host lithologies. Some rocks are altered to calc-silicate or skarn which hosts pyrite, pyrrohotite, galena, chalcopyrite, and some arsenopyrite mineralization. There are also areas of chalcedonic veining in QPC and some massive to semi-massive arsenopyrite and quartz veins. The veining and intrusive dykes in the area continue to follow the N-S structural trend that dominates the mineralization on the property. Mapping in this area, newly claimed the Pow Zone, also resulted in the discovery of an small granodiorite intrusive body. This intrusive body is several 100 m's in size a the surface. Quartz feldspar porphry (QFP) to felsite dykes crosscut the granodiorite body.

Mapping throughout the property improved the accuracy of QFP dyke locations and the previously undivided Hyland sediment packages were split into a quartz grit/QPC unit and a finer grained siltstone/phyllite unit. Several samples were taken for thin section analysis which may answer questions about the origin and relationship of the various intrusive suites on the property.

EPL:TSX-V

Eagle Plains Resources Ltd.

Sprogge Property

Figure 4 - Property Geology and Station Location

Projection - NAD 83 UTM Zone 09N

Scale - 1: 15 000 08/02/2011

Inset A 1:5,000

Inset B 1:5,000

Inset C 1:2,000

Inset D 1:3,000

Pow Zone

Main Zone

Rain

Kanga

A

B

C

D

PCH1

PCH2

PCH

Kqm

COR

Legend

- Minfile Showing
- Trench Location
- Sprogge Creek Fault
- Limit of Mapping
- EPL Tenure Boundary
- River
- Waterbody
- Wetland

Property Geology

Unit

- Kqm — *TOMBSTONE SUITE - Quartz monzonite, quartz diorite dykes, quartz biotite monzonite, local limonite altered quartz monzonite*
- COR — *RABBITKETTLE - Thin - medium bedded limestone*
- PCH — *HIGHLAND GROUP - Limestone, silty limestone*
- PCH1 — *HIGHLAND GROUP - Phyllite, siltstone, weakly calcareous phyllite, minor slate, argillite, chloritic slate*
- PCH2 — *HIGHLAND GROUP - Quartz pebble conglomerate, sandstone, minor greywacke*
- Trench Location

0 500 1,000 1,500 2,000 Meters

N

Geophysics

The airborne geophysical program was successful in identifying some major structural features that are likely to play a major role in controlling mineralization on the property. Many areas of magnetic highs from the survey correlate with known pyrite hornfels zones and some areas of magnetic lows could represent buried intrusive plugs. Further details can be seen in the report by Aeroquest Geophsyics, located in Appendix VII.

Geochemistry

Rock Sampling

Most of the rock sampling during the 2010 program was concentrated on known mineralization occurrences as these had not been previously sampled in detail by the owner. Sampling was also completed during mapping and prospecting traverses. A total of 135 rock samples were taken during the 2010 exploration program. A summary of the rock sample highlights are as follows:

Kangas Zone:

- Chip Samples:
  - BKSPR008: 1.5 m at 2.85 g/t Au, 4.2 g/t Ag
  - LJSPR028: 1 m at 2.29 g/t Au, 3.1 g/t Ag
- Grab Samples:
  - AHSPR026: float of 2.56 g/t Au

Confluence Zone:

- Channel Samples:
  - AHSPR10-13: 1.6 g/t Au, 2.4 g/t Ag over 4 m
  - AHSPR015-16: 0.4 g/t Au over 2 m
  - AHSPR019-020 and LJSPR021: 0.6 g/t Au, 1.9 g/t Ag over 3 m Au
- Grab Samples:
  - West of Confluence Zone, in silicified zone in phyllite: BWSPR006: 1 m at 0.96 g/t Au
  - Some skarn rubble/boulders coming from zone just to the south of Confluence Zone, between Knob Hill and Confluence Zone: 83.4 g/t Ag, 5 % Pb, 4% Zn, 0.08 % Cu (BWSPR030)

Knob Hill Zone

- Grab Sample of float: BWSPR003: 1.16 g/t Au

Main Zone/Discovery Zone

- Channel Sampling:
  - 11 m of 1.4 g/t Au, 3 g/t Ag and 0.18 % Cu (BWSPR010-020
    - Including:
      - 3 m at 3.04 g/t Au, 4 g/t Ag and 0.22% Cu (BWSPR10-12)
      - 1m at 11.4 g/t Ag and 0.72% Cu (BWSPR013)
  - 7 m of 2.07 g/t Au, 1.47 g/t Ag, 0.06% Cu (BWSPR040-046)
    - Including 3 m at 3.15 g/t Au, 2.5 g/t Ag and 0.1% Cu. (BWSPR044-046)

Pow Zone

- Chip Samples:
  - 0.54 g/t Au, 3.27 g/t Ag over 3 m (AHSPR003-005)
  - 0.88 g/t Au, 2.5 g/t Ag over 1 m (LJSPR010)
- Grab Samples:
  - 20 cm qtz mineralized quartz veinn ETSPR007: 2.9 g/t Au, 1.6 g/t Ag
  - ETSPR006: 1.05 g/t Au from Skarn
  - ETSPR010: 1.22 g/t Au, 0.09% Mo from the Skarn
  - LJSPR024: 2.41 g/t Au, 39 g/t Ag, 0.13% Pb, 0.17% Zn of subcrop skarn material
  - 0.4 g/t Au, 18.3 g/t Ag of chalcedonic veining (AHSPR001)

The rock sampling completed over the known mineralizaion confirms and expands on the documented historic results. There are an abundant amount of samples that run over 1 g/t Au, in a variety of mineralization styles, including skarns, quartz-arsenopyrite stockwork veining, and shear zones. The widespread and consistent mineralization proves that the property conatins significant potential to host an economic deposit.

The following tables highlight the elemental correlations derived from the rock sample database. The tables are seperated into one showing all samples in the database, including all samples taken by TerraLogic and Eagle Plains Resources as well as a number of historic samples that have been digitized and only samples taken during the 2010 program. Highlighted elements are shown in the tables below and the full suite of elements in the pages following.

Table 2 – Total Rock Dataset Correlation Highlights

Element	Sb	Bi	Ag	As	Se
Au	0.61	0.53	0.52	0.45	0.4

Element	Pb	As	Au	Sb	Zn
Ag	0.65	0.56	0.52	0.5	0.43

Element	Fe	Sn	Na	Bi	Co
Cu	0.77	0.75	0.67	0.59	0.56

Table 3 – 2010 Dataset Correlation Highlights

Element	Sb	Bi	Ag	As	Se
Au	0.72	0.61	0.58	0.48	0.4

Element	Pb	As	Au	Sb	Bi
Ag	0.51	0.49	0.58	0.66	0.48

Element	Fe	Sn	Na	Bi	Co
Cu	0.75	0.75	0.67	0.64	0.56

The rock sample dataset shows a strong correlation between gold and antimony, bismuth and arsenic, which are usually associated with both Intrusion related gold systems and Au skarn systems. The 2010 correlations enhanced this conclusion with most of the sampling concentrated on the Main and Pow Zone Skarns and Confluence and Kangas Zone quartz arsenopyrite veining. The association of gold with antimony and bismuth is even more pronounced in this dataset.

Basic statistics were calculated on the 2010 rock dataset and the results for the elements of interest are summarized in the table below.

Table 4 – 2010 Rock Sample Statistics

	Mo_ppm	**Cu_ppm**	**Pb_ppm**	**Zn_ppm**	**Ag_ppm**	**Co_ppm**	**Fe_Perc**	**As_ppm**	**Au_ppb**	**Sb_ppm**	**Bi_ppm**	**Na_Perc**	**Se_ppm**	**Sn_ppm**
Count	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
Min	0.5	1.0	1.5	1.0	0.2	0.5	0.2	2.5	5.0	2.5	2.5	0.0	5.0	2.5
Max	868.0	7158.0	10000	10000	30.0	1370.0	10.0	10000	3950.0	425.0	2125.0	0.5	50.0	1155.0
Mean	17.8	346.6	164.1	144.9	1.9	40.9	4.7	1681.5	556.6	26.9	190.7	0.1	7.9	53.7
Median	1.0	30.0	21.0	30.0	0.5	4.0	3.4	135.0	125.0	10.0	15.0	0.1	5.0	10.0
Standard Deviation	97.7	807.5	906.4	872.9	4.3	157.6	3.9	3442.2	905.7	47.0	430.6	0.1	8.8	138.5
50th Percentile	1.0	30.0	21.0	30.0	0.5	4.0	3.4	135.0	125.0	10.0	15.0	0.1	5.0	10.0
75th Percentile	2.0	423.0	36.0	64.0	1.5	16.5	10.0	520.0	697.5	30.0	140.0	0.2	5.0	40.0
90th Percentile	11.0	941.6	167.4	132.0	3.4	55.0	10.0	10000	2274.0	73.0	662.0	0.3	10.0	126.0
95th Percentile	18.0	1368.8	348.9	231.2	7.0	124.0	10.0	10000	2815.0	103.0	1196.5	0.3	30.0	231.5
99th Percentile	541.0	3409.4	2418.4	1477.7	26.0	833.3	10.0	10000	3518.8	141.6	1937.1	0.5	46.6	672.9

Table 5 – Rock Elemental Correlations – 2010 Dataset



Table 6 – Rock Elemental Correlations – Total Dataset

Sprogge - Rock Geochemistry Correlations - ICP - Total

Project:
Scientist:
Project date:
Report date: 2011/03/14

	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn
Ag																																										
Al	-0.21																																										
As	0.56	-0.07																																									
Au	0.52	-0.31	0.45																																								
B	(N<2)	(N<2)	(N<2)	(N<2)																																							
Ba	-0.29	-0.07	-0.19	-0.38	(N<2)																																						
Be	0.12	0.11	-0.10	0.16	(N<2)	-0.33																																					
Bi	0.33	0.07	0.34	0.53	(N<2)	-0.68	0.34																																				
Ca	-0.18	0.73	-0.11	-0.18	(N<2)	-0.34	0.29	0.29																																			
Cd	0.28	0.00	0.09	0.05	(N<2)	0.05	-0.13	-0.22	-0.07																																		
Co	0.31	0.32	0.54	0.31	(N<2)	-0.47	0.19	0.61	0.42	-0.02																																	
Cr	0.03	-0.33	-0.03	0.04	(N<2)	0.39	-0.31	-0.33	-0.49	0.14	-0.38																																
Cu	0.33	0.36	0.27	0.24	(N<2)	-0.66	0.35	0.59	0.47	0.01	0.56	-0.34																															
Fe	0.33	0.32	0.35	0.34	(N<2)	-0.64	0.29	0.69	0.40	-0.10	0.61	-0.48	0.77																														
Ga	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)																													
Hg	0.26	0.00	0.20	-0.03	(N<2)	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.06	0.10	(N<2)																												
K	-0.02	0.29	0.23	-0.14	(N<2)	0.44	-0.31	-0.25	0.00	0.08	0.15	0.09	-0.17	-0.10	(N<2)	0.00																												
La	-0.22	0.40	0.06	-0.38	(N<2)	0.48	-0.13	-0.39	0.06	0.03	0.01	-0.03	-0.23	-0.22	(N<2)	0.00	0.60																												
Li	-0.15	0.73	0.05	-0.22	(N<2)	0.11	-0.13	-0.01	0.45	0.08	0.36	-0.05	0.09	0.11	(N<2)	0.00	0.48	0.47																											
Mg	-0.06	0.69	0.04	-0.13	(N<2)	-0.25	0.21	0.27	0.78	-0.06	0.59	-0.42	0.41	0.47	(N<2)	0.00	0.21	0.22	0.66																										
Mn	-0.00	0.26	-0.08	0.14	(N<2)	-0.54	0.53	0.45	0.58	-0.12	0.37	-0.52	0.56	0.64	(N<2)	0.00	-0.34	-0.28	0.00	0.48																									
Mo	-0.02	0.02	-0.09	0.13	(N<2)	-0.13	0.40	0.27	0.09	-0.14	-0.10	-0.09	0.04	0.16	(N<2)	0.00	-0.47	-0.29	-0.20	-0.11	0.31																								
Na	0.11	0.69	0.16	0.05	(N<2)	-0.54	0.39	0.54	0.70	-0.12	0.60	-0.57	0.67	0.77	(N<2)	0.00	-0.12	-0.04	0.36	0.69	0.61	0.20																							
Nb	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)																						
Ni	0.13	0.41	0.23	0.07	(N<2)	-0.23	0.00	0.24	0.29	0.08	0.71	-0.22	0.30	0.32	(N<2)	0.00	0.20	0.29	0.55	0.61	0.14	-0.24	0.47	(N<2)																					
P	-0.14	0.61	0.02	-0.15	(N<2)	0.05	0.08	-0.17	0.57	-0.08	0.30	-0.43	0.26	0.37	(N<2)	0.00	0.15	0.33	0.45	0.57	0.42	0.07	0.50	(N<2)	0.30																				
Pb	0.65	0.06	0.34	0.19	(N<2)	0.09	-0.14	-0.08	-0.12	0.37	0.12	-0.01	-0.01	-0.06	(N<2)	0.24	0.14	0.02	0.06	0.02	-0.05	-0.03	0.09	(N<2)	0.09	0.10																				
S	0.50	0.25	0.48	0.50	(N<2)	-0.54	0.19	0.65	0.32	0.08	0.62	-0.30	0.74	0.76	(N<2)	0.00	0.06	-0.18	0.12	0.39	0.33	-0.02	0.60	(N<2)	0.40	0.19	0.25																			
Sb	0.50	-0.41	0.43	0.61	(N<2)	-0.27	0.03	0.22	-0.37	0.15	0.24	0.09	-0.06	0.10	(N<2)	0.00	-0.08	-0.32	-0.27	-0.21	0.01	0.13	-0.02	(N<2)	0.08	-0.18	0.33	0.45																		
Sc	0.00	0.46	0.11	-0.05	(N<2)	-0.23	0.15	0.22	0.42	-0.08	0.39	-0.19	0.36	0.49	(N<2)	0.00	0.18	0.25	0.42	0.62	0.43	0.05	0.56	(N<2)	0.45	0.53	0.08	0.37	0.04																	
Se	0.38	0.02	0.51	0.40	(N<2)	-0.34	0.11	0.55	0.12	-0.11	0.70	-0.14	0.24	0.41	(N<2)	0.00	0.29	0.02	0.16	0.29	0.06	-0.09	0.25	(N<2)	0.42	0.07	0.02	0.46	0.42	0.17																
Sn	0.30	0.33	0.14	0.34	(N<2)	-0.63	0.31	0.50	0.42	-0.06	0.33	-0.31	0.75	0.69	(N<2)	0.00	-0.19	-0.31	0.01	0.32	0.57	0.07	0.57	(N<2)	0.11	0.22	0.07	0.60	0.21	0.33	0.15														
Sr	-0.35	0.65	-0.20	-0.48	(N<2)	0.22	0.06	-0.25	0.57	0.07	0.07	-0.22	-0.02	-0.14	(N<2)	0.00	0.29	0.51	0.53	0.51	-0.07	-0.13	0.30	(N<2)	0.30	0.47	-0.08	-0.04	-0.53	0.20	-0.10	-0.14														
Ta	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)												
Te	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)										
Th	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)								
Ti	0.08	-0.73	-0.01	0.17	0.20	0.10	-0.23	-0.66	0.01	-0.44	0.24	-0.32	-0.28	(N<2)	0.00	-0.20	-0.17	-0.61	-0.61	-0.19	0.03	-0.58	(N<2)	-0.38	-0.36	0.00	-0.19	0.35	-0.25	-0.22	-0.35	-0.44	(N<2)	(N<2)	(N<2)							
Tl	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)						
U	0.00	0.00	0.00	0.00	(N<2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(N<2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(N<2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(N<2)	(N<2)	(N<2)	0.00	(N<2)				
V	0.06	0.74	0.07	-0.00	(N<2)	-0.25	0.16	0.30	0.57	-0.01	0.43	-0.24	0.48	0.54	(N<2)	0.00	0.11	0.16	0.62	0.72	0.44	0.04	0.70	(N<2)	0.51	0.58	0.07	0.40	-0.07	0.69	0.17	0.51	0.27	(N<2)	(N<2)	(N<2)	-0.57	(N<2)	0.00			
W	0.22	-0.04	0.11	0.35	(N<2)	-0.50	0.56	0.54	0.15	-0.14	0.29	-0.41	0.34	0.41	(N<2)	0.00	-0.38	-0.29	-0.23	0.11	0.52	0.45	0.39	(N<2)	0.10	0.17	0.02	0.31	0.26	0.17	0.28	0.30	-0.23	(N<2)	(N<2)	(N<2)	0.05	(N<2)	0.00	0.11		
Y	-0.13	0.58	-0.07	-0.19	(N<2)	-0.18	0.28	0.25	0.66	-0.17	0.44	-0.54	0.36	0.47	(N<2)	0.00	0.19	0.36	0.39	0.67	0.59	0.00	0.61	(N<2)	0.37	0.70	-0.00	0.30	-0.23	0.62	0.17	0.29	0.40	(N<2)	(N<2)	(N<2)	-0.37	(N<2)	0.00	0.51	0.27	
Zn	0.43	0.16	0.09	0.06	(N<2)	-0.18	0.23	-0.12	0.20	0.33	0.28	-0.37	0.19	0.07	(N<2)	-0.02	-0.13	-0.04	0.11	0.32	0.50	0.10	0.36	(N<2)	0.28	0.29	0.64	0.27	-0.01	0.26	0.02	0.14	-0.01	(N<2)	(N<2)	(N<2)	-0.00	(N<2)	0.00	0.27	0.26	0.34
Zr_ppm	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)	(N<2)

Sample Size 316

Colour Coding (significance 0.95)
- very strong
- strong
- moderate
- weak
- very weak
- null

Silt Samples

Silt samples were taken along all the creeks that cross the property at 200 m sample intervals. A total of 61 silt samples were taken during the 2010 program. Basic statistics for the elements of interest on the 2010 silt sample data are summarized in the table below. These statistics were used to determine the anomalous cutoffs to be displayed in the Figures 6 a-c. The results from the silt sampling program were not encouraging and do not seem to give an indication of the mineralization that is cut by the creeks that were sampled. The creeks draining from the Confluence Zone, Hodder Hill area show a minor increase in Au values, with the highest sample returning 44.2 ppb from a sample below the highest grade rock sample taken, located at the Confluence Zone. The only anomalous silver seems to be draining off the Hodder Hill area while anomalous copper values are coming off teh Hodder Hill zone, as well as the Main Zone and Confluence Zone. Samples further up the creek from the known mineralized zones did not return any anomalous values. Highly anomalous values for lead, zinc and iron are also draining from the Hodder Hill area, in the very eastern part of the property. This area should see more follow up work in the future, to better determine the source of these silt anomalies.

Table 7 – 2010 Silt Sample Statictics

	Mo_ppm	Cu_ppm	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Fe_Perc	As_ppm	Au_ppb	Sb_ppm	Bi_ppm
Count	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
Min	0.1	8.1	18.6	45.0	0.1	10.7	5.1	2.1	7.8	0.8	0.6	0.2
Max	8.1	113.7	1035.0	2753.0	3.6	622.6	177.0	17.4	832.6	44.2	22.3	6.8
Mean	0.8	52.9	94.7	520.7	0.5	86.8	43.1	4.2	121.4	6.2	2.9	1.7
Median	0.3	42.4	43.7	138.0	0.2	34.6	16.3	3.7	63.7	4.0	2.1	0.7
Standard Deviation	1.4	27.9	173.7	753.1	0.7	113.5	48.2	2.6	179.3	6.7	2.9	1.8
50th Percentile	0.3	42.4	43.7	138.0	0.2	34.6	16.3	3.7	63.7	4.0	2.1	0.7
75th Percentile	0.5	78.1	62.4	476.3	0.4	106.4	62.5	4.2	112.0	8.4	3.5	3.2
90th Percentile	1.1	95.0	152.9	1707.0	0.8	241.4	123.1	4.7	206.9	12.6	4.3	4.6
95th Percentile	2.8	99.6	182.5	2415.0	2.5	286.8	151.2	5.9	623.2	13.6	6.4	5.0
99th Percentile	7.0	106.6	931.5	2660.6	3.2	530.7	169.1	15.8	818.8	32.6	13.7	6.5

Geochemical Orientation

Five geochemical orientation pits were dug to investigate the soil profile and geochemical response in different horizons. In most cases, the soil profile was a thin to moderately thick organic layer above one or more B horizons above a thick unconsolidated layer of overburden and till. In the case of the historic high grade sample located at the confluence zone, an exploration pit dug 3 m from the trench went down 1.5 m before bedrock. Samples from this pit returned anoamlous As, Sb, and Bi but only one sample, taken at a depth of 85 cm, returned an anomalous value for Au, at 20ppb. Another pit dug roughly 20 m from the trench went to a depth of 1.9 m and there was no indication of hitting bedrock anytime soon. This thick till cover may explain previous low to non-existent Au values in historic conventional soils. No anomalous values in any elements resulted from this pit from any of the horizons. One more it dug further downstrem from the main trench sampling 1.1 m, when bedrock was encountered. Anomalous values for Pb, Zn, As, Sb and Au, the highest being 114 ppb Au from a depth of 25 cm were returned from this pit. A pit dug next to the Main Zone mineralization (samples BWSPD001-003) did not return any anomalous values for Cu, Au or Ag from any of the horizons sampled. The geochemical orientation results show that both the soil profile on the property, along with the response of different elements are highly variable and not a reliable source to evaluate buried mineralization potential on the Srogge property.

Soil Sampling

A total of 209 soil samples were taken during the 2010 explroation program. The focus of the program was to test the repsonse by both conventional and MMI sampling methods over the known mineralization occurences, namely the Main and Confluence Zones. Statistics for the 2010 dataset as well as an elemental correlation chart are shown in the tables below. Element correlation calculations were made for both the 2010 dataset alone and the entire dataset including historic data that has been digitized.

The 2010 conventional soil sampling programed confirmed the poor results of preivous soil programs on the property. The results do not show any eleveated values for the elements of interest on the property at either the Main or Confluence zones. From the results of the geochemical orientation pits, this is likely due to the poor soil development along with the extensive overburden and glacial till cover.

The Mobile Metal Ion method faired a little better in identifying anomlaous samples at the known mineralization localities. Anomalous gold values were returned from samples close to the creek at the Confluence Zone. This could be an indication of mineralization at depth and the proximity to the creek could be due to the shallower overburden cover. Anomalous copper values were obtained at the Main Zone. This method of sampling could hold more potential than conventional sampling in identifying buried mineralization in areas with very poor expsoure in the valley floor. This method could be useful in following up geophysical results in areas of cover.

The elemental correlations of the soil sample dataset come up with some of the same elements as seen in the rock sample dataset but also contains some stark differences. Certain elements, Se, Te and Tl were not analyzed for in the rock samples and therefore no comparison can be reached between the two. Gold seems to have the best correlation with Telurium, Arsenic, Bismuth and Antimony, all elements related to both Intrusion Related Gold and Au-Skarn systems. Silver and Copper correlations are similar to the rock samples with the highest correlation with Lead and Iron, respectively. Further correlation with Silver includes Selenium, Telurium and Antiomy. Further correlation with Copper includes Arsenice, Selenium and Telurium. These elemental correlations should be taken into consideration during further soil sampling programs to better target the buried mineralization.

Table 8 – 2010 Soil Sample Statistics

	Cu_ppm	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Fe_Perc	As_ppm	Au_ppb	Sb_ppm	Bi_ppm
Count	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0
Min	2.2	7.9	15.0	0.1	2.8	1.9	1.5	6.7	1.0	0.6	0.0
Max	2105.0	4114.0	1090.0	30.0	402.7	190.2	37.4	10000.0	621.0	83.5	315.4
Mean	64.8	78.0	145.9	0.5	35.6	16.0	4.8	224.3	12.8	5.5	4.0
Median	40.6	43.4	112.0	0.2	33.3	14.6	4.3	69.9	6.6	3.8	1.2
Standard Deviation	158.0	298.9	141.4	2.5	30.7	14.3	3.4	902.4	43.8	8.1	22.4
50th Percentile	40.6	43.4	112.0	0.2	33.3	14.6	4.3	69.9	6.6	3.8	1.2
75th Percentile	57.9	56.3	141.0	0.3	40.5	18.9	4.8	113.4	11.8	5.9	1.7
90th Percentile	80.2	83.9	199.8	0.5	48.2	24.5	5.4	244.9	20.0	9.4	4.8
95th Percentile	113.8	117.1	371.6	1.0	53.5	27.5	6.0	614.7	28.4	14.0	8.3
99th Percentile	369.6	248.1	724.7	3.5	86.4	32.6	22.7	4392.0	54.1	24.1	38.2

Table 9 – Total Soil Dataset Correlation Highlights

Element	Te	As	Bi	Cu	Tl	Sb
Au	0.57	0.55	0.51	0.51	0.51	0.44

Element	Pb	Se	Au	Te	Sb
Ag	0.57	0.54	0.43	0.42	0.39

Element	Fe	As	Te	Se	K
Cu	0.79	0.68	0.68	0.66	0.55

Table 10 – 2010 Soil Dataset Correlation Highlights

Element	Sb	As	Cu	Bi	Te
Au	0.84	0.7	0.68	0.63	0.57

Element	Pb	Se	Cu	Te	Bi
Ag	0.63	0.54	0.48	0.42	0.4

Element	Bi	Au	Te	Se	K	Sb
Cu	0.76	0.68	0.68	0.66	0.55	0.54

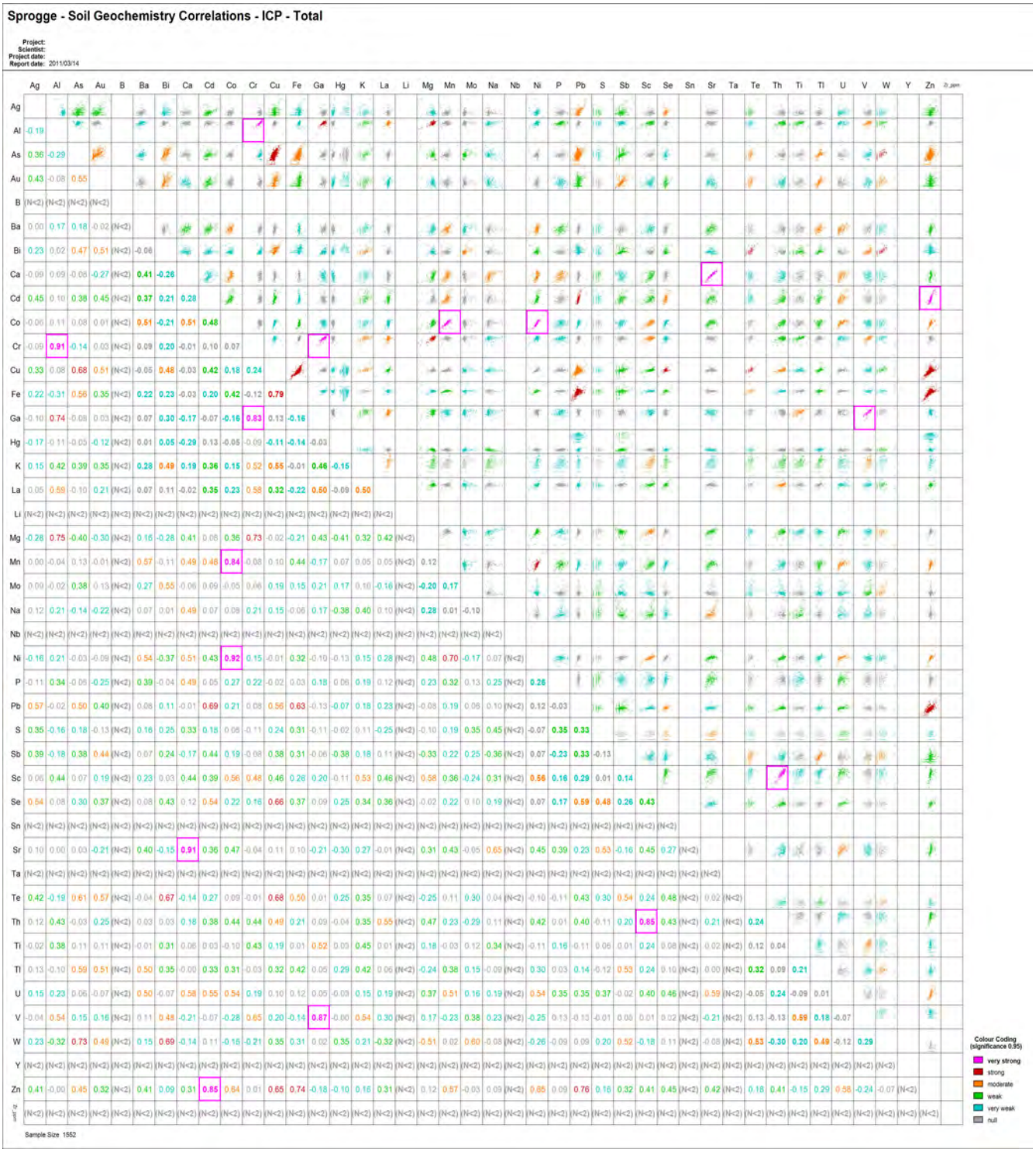
Table 11 – Reponse Ratio Calculation

Method	**Ag**	**Au**	**Cu**
Lower Quartile Highest Value	15	0.2	337.5
Average of Lower Quartile (Background)	9.63	0.14	206.25
99th Percentile (of RR)	10.90	109.36	16.25
95th Percentile (of RR)	7.30	34.93	13.09
90th Percentile (of RR)	5.81	23.73	9.18
75th Percentile (of RR)	3.97	7.70	5.38

Table 12 - Soil Elemental Correlations – 2010 Dataset



Table 13 - Soil Elemental Correlations – Total Dataset



EPL:TSX-V

Eagle Plains Resources Ltd.

Sprogge Property

Figure 5a - Rock Sample Location

Projection - NAD 83 UTM Zone 09N

Scale - 1: 15 000

22/02/2011

Inset A 1:2,000

Inset B 1:2,000

Inset C 1:2,000

Inset D 1:5,000

Legend

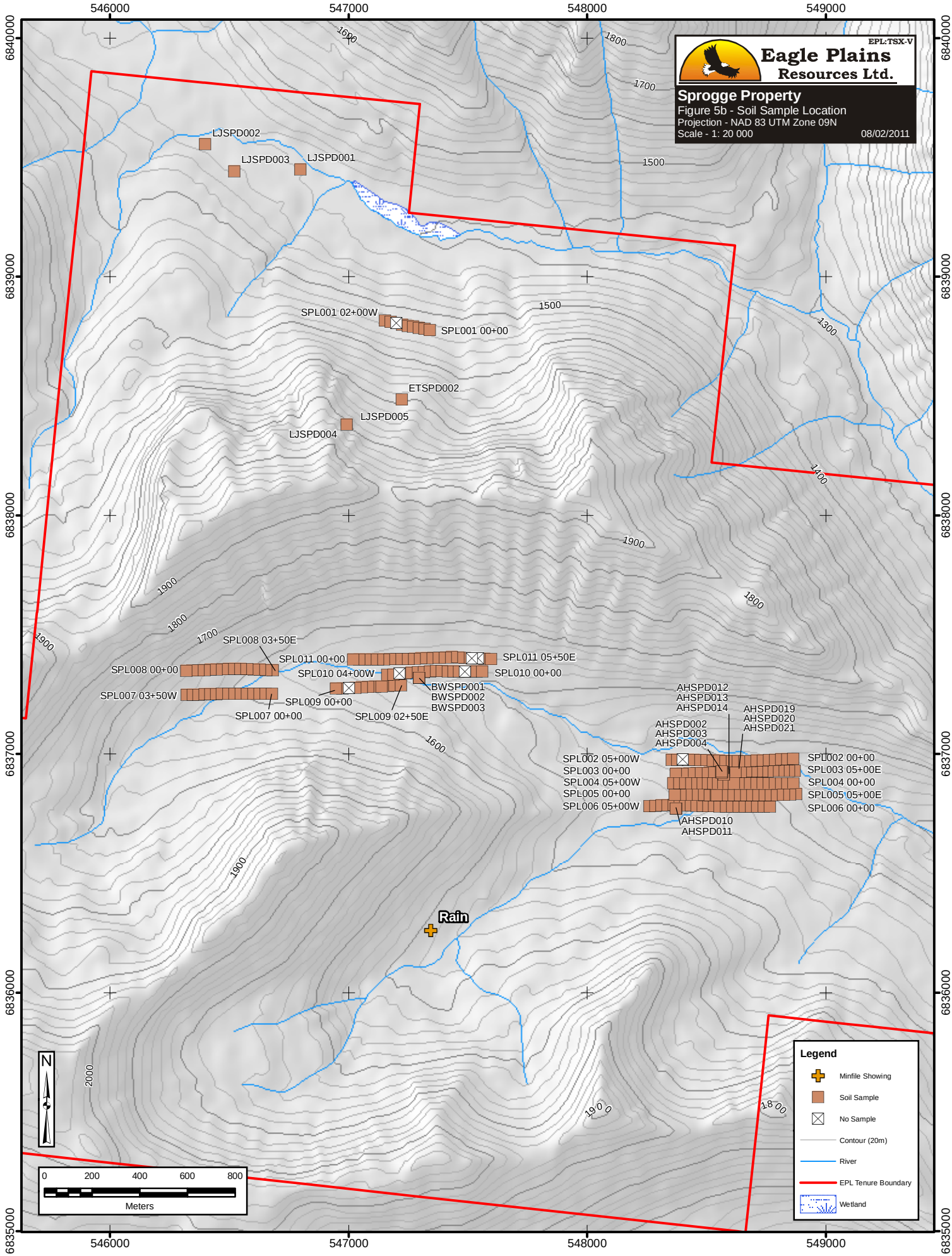
- Minfile Showing
- Rock Sample
- Sprogge Creek Fault
- Contact: Inferred
- Fold: Anticline, Inferred
- Contour (20m)
- River
- Limit of Mapping
- EPL Tenure Boundary
- Wetland

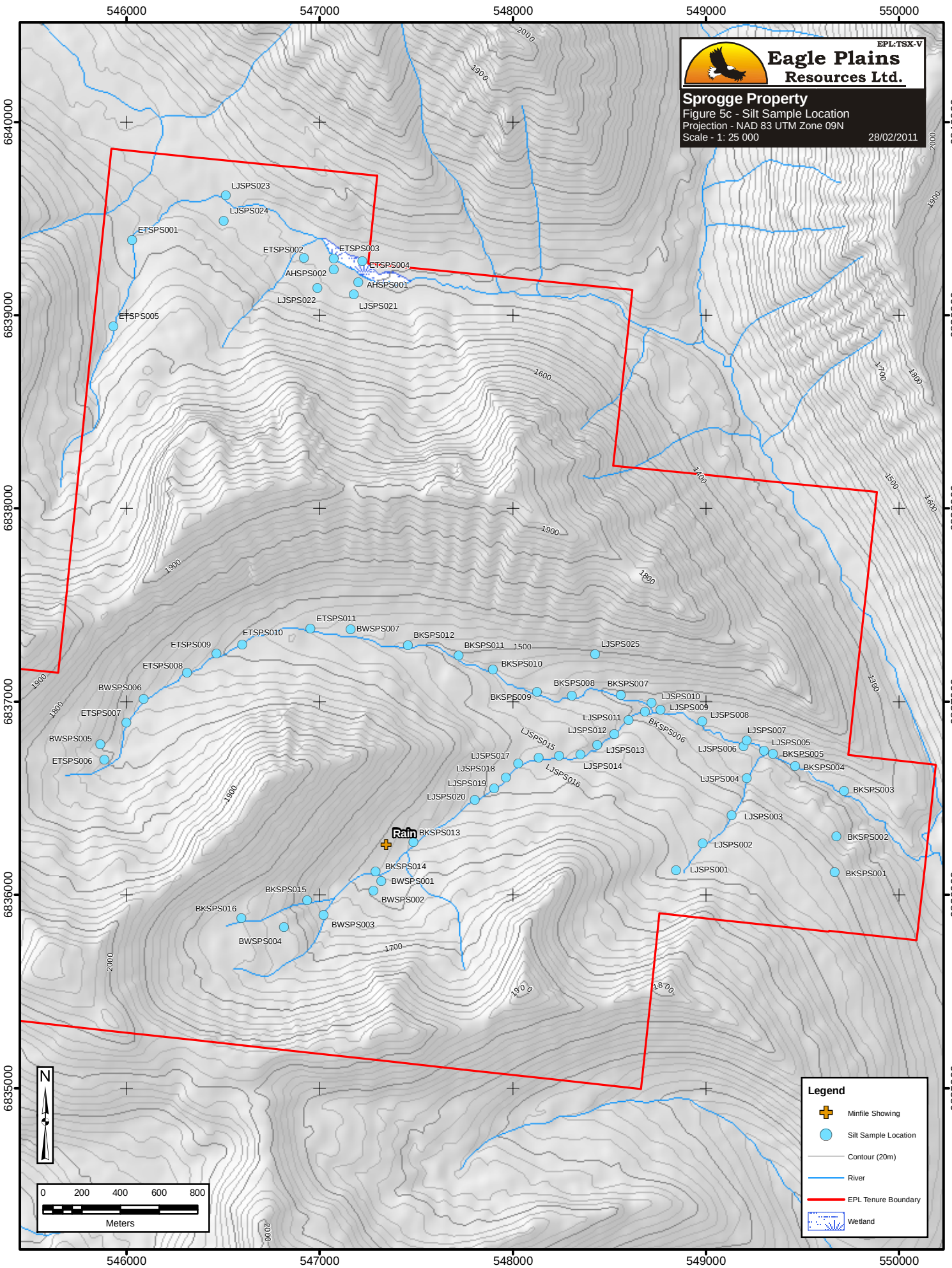
Property Geology

Unit

- Kqm — *TOMBSTONE SUITE - Quartz monzonite, quartz diorite dykes, quartz biotite monzonite, local limonite altered quartz monzonite*
- COR — *RABBITKETTLE - Thin - medium bedded limestone*
- PCH — *HIGHLAND GROUP - Limestone, silty limestone*
- PCH1 — *HIGHLAND GROUP - Phyllite, siltstone, weakly calcareous phyllite, minor slate, argillite, chloritic slate*
- PCH2 — *HIGHLAND GROUP - Quartz pebble conglomerate, sandstone, minor greywacke*

0 200 400 600 800 Meters


EPL:TSX-V
Eagle Plains Resources Ltd.
Sprogge Property
Figure 5b - Soil Sample Location
Projection - NAD 83 UTM Zone 09N
Scale - 1: 20 000
08/02/2011
546000
547000
548000
549000
6840000
6839000
6838000
6837000
6836000
6835000
LJSPD002
LJSPD003
LJSPD001
SPL001 02+00W
SPL001 00+00
ETSPD002
LJSPD005
LJSPD004
SPL008 03+50E
SPL011 00+00
SPL011 05+50E
SPL008 00+00
SPL010 04+00W
SPL010 00+00
BWSPD001
BWSPD002
BWSPD003
SPL007 03+50W
SPL009 00+00
SPL007 00+00
SPL009 02+50E
AHSPD012
AHSPD013
AHSPD014
AHSPD019
AHSPD020
AHSPD021
AHSPD002
AHSPD003
AHSPD004
SPL002 05+00W
SPL003 00+00
SPL004 05+00W
SPL005 00+00
SPL006 05+00W
SPL002 00+00
SPL003 05+00E
SPL004 00+00
SPL005 05+00E
SPL006 00+00
AHSPD010
AHSPD011
Rain
1600
1800
1700
1500
1300
1400
1900
2000
N
0
200
400
600
800
Meters
Legend
Minfile Showing
Soil Sample
No Sample
Contour (20m)
River
EPL Tenure Boundary
Wetland


EPL:TSX-V
Eagle Plains Resources Ltd.
Sprogge Property
Figure 5c - Silt Sample Location
Projection - NAD 83 UTM Zone 09N
Scale - 1: 25 000
28/02/2011
546000
547000
548000
549000
550000
6840000
6839000
6838000
6837000
6836000
6835000
LJSPS023
LJSPS024
ETSPS001
ETSPS002
ETSPS003
ETSPS004
AHSPS002
AHSPS001
LJSPS022
LJSPS021
ETSPS005
ETSPS011
ETSPS010
BWSPS007
ETSPS009
BKSPS012
BKSPS011
LJSPS025
ETSPS008
BKSPS010
BWSPS006
BKSPS008
BKSPS007
BKSPS009
LJSPS010
LJSPS009
ETSPS007
LJSPS008
LJSPS011
BKSPS006
BWSPS005
LJSPS012
LJSPS007
LJSPS015
LJSPS005
ETSPS006
LJSPS017
LJSPS013
LJSPS006
BKSPS005
LJSPS018
LJSPS014
BKSPS004
LJSPS019
LJSPS016
LJSPS004
BKSPS003
LJSPS020
LJSPS003
Rain
BKSPS013
BKSPS002
LJSPS002
BKSPS014
LJSPS001
BKSPS001
BWSPS001
BKSPS015
BWSPS002
BKSPS016
BWSPS003
BWSPS004
1900
2000
1800
1700
1600
1500
1400
1300
N
0
200
400
600
800
Meters
Legend
Minfile Showing
Silt Sample Location
Contour (20m)
River
EPL Tenure Boundary
Wetland

EPL:TSX-V

Eagle Plains Resources Ltd.

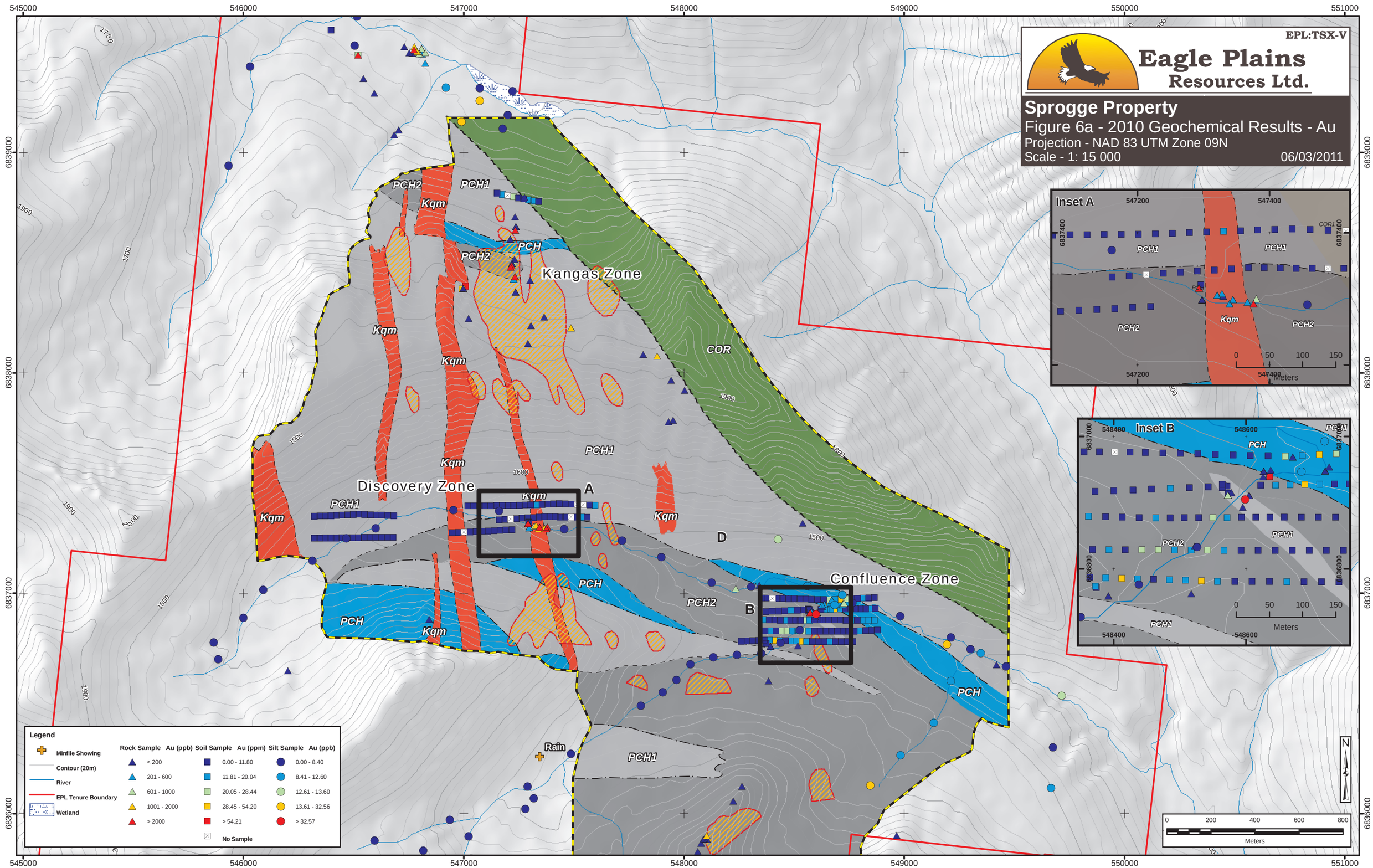
Sprogge Property

Figure 6a - 2010 Geochemical Results - Au

Projection - NAD 83 UTM Zone 09N

Scale - 1: 15 000

06/03/2011



Legend

- Minfile Showing
- Contour (20m)
- River
- EPL Tenure Boundary
- Wetland

Rock Sample	Au (ppb)	Soil Sample	Au (ppm)	Silt Sample	Au (ppb)
▲	< 200	■	0.00 - 11.80	●	0.00 - 8.40
▲	201 - 600	■	11.81 - 20.04	●	8.41 - 12.60
▲	601 - 1000	■	20.05 - 28.44	●	12.61 - 13.60
▲	1001 - 2000	■	28.45 - 54.20	●	13.61 - 32.56
▲	> 2000	■	> 54.21	●	> 32.57
		⊠	No Sample		

EPL:TSX-V

Eagle Plains Resources Ltd.

Sprogge Property

Figure 6b - 2010 Geochemical Results - Cu

Projection - NAD 83 UTM Zone 09N

Scale - 1: 15 000 21/02/2011

Inset A 1:5,000

Inset B 1:10,000

Inset C 1:10,000

Inset D 1:10,000

Rain

Legend

Minfile Showing
Contour (20m)
River
EPL Tenure Boundary
Wetland

Rock Sample	Cu (ppm)	Soil Sample	Cu (ppm)	Silt Sample	Cu (ppm)
	0.00 - 423.00		0.00 - 57.88		0.00 - 78.09
	423.01 - 941.60		57.89 - 80.23		78.10 - 95.04
	941.61 - 1368.80		80.24 - 224.70		95.05 - 99.56
	1368.81 - 3409.36		224.71 - 369.62		99.57 - 106.56
	> 3409.37		> 369.63		> 106.57
			No Sample		

N

0 200 400 600 800

Meters

EPL:TSX-V

Eagle Plains Resources Ltd.

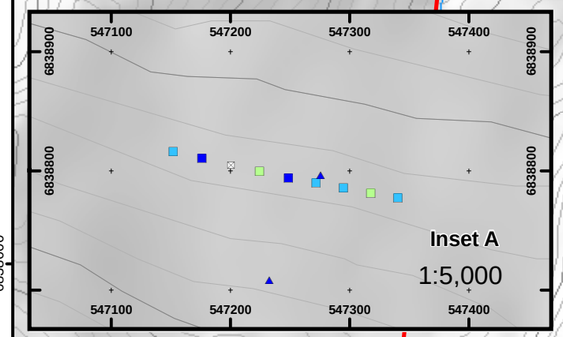
Sprogge Property

Figure 6c - 2010 Geochemical Results - As

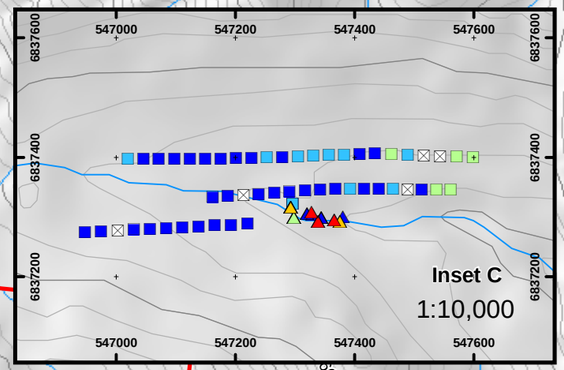
Projection - NAD 83 UTM Zone 09N

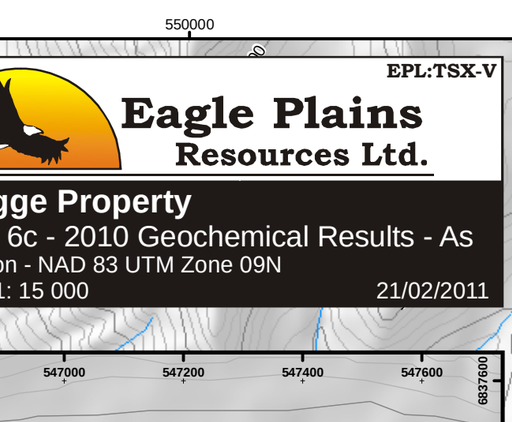
Scale - 1: 15 000

21/02/2011









A

B

C

D

Rain

Legend

- Minfile Showing
- Contour (20m)
- River
- EPL Tenure Boundary
- Wetland

Rock Sample	As (ppm)	Soil Sample	As (ppm)	Silt Sample	As (ppm)
▲	2.50 - 230.00	■	0.00 - 113.40	●	0.00 - 112.00
▲	230.01 - 778.00	■	113.41 - 544.45	●	112.01 - 206.90
▲	778.01 - 1912.00	■	544.46 - 1317.00	●	206.91 - 623.20
▲	1912.01 - 6544.60	■	1317.01 - 4392.04	●	623.21 - 818.80
▲	6544.61 - 1000000.00	■	> 4392.05	●	> 818.81
		⊠	No Sample		

N

0 200 400 600 800

Meters

EPL:TSX-V

Eagle Plains Resources Ltd.

Sprogge Property

Figure 6d - 2010 Geochemical Results - Ag

Projection - NAD 83 UTM Zone 09N

Scale - 1: 15 000

21/02/2011

Inset A
1:5,000

Inset B
1:10,000

Inset C
1:10,000

Inset D
1:10,000

Rain

Legend

- Minfile Showing
- Contour (20m)
- River
- EPL Tenure Boundary
- Wetland

Rock Sample	Ag (ppm)	Soil Sample	Ag (ppm)	Soil Sample	Ag (ppm)
▲	0.00 - 1.50	■	0.00 - 0.32	■	0.00 - 0.32
▲	1.51 - 3.42	■	0.33 - 0.97	■	0.33 - 0.97
▲	3.43 - 7.01	■	0.98 - 3.42	■	0.98 - 3.42
▲	7.02 - 26.02	■	3.43 - 7.01	■	3.43 - 7.01
▲	> 26.03	■	> 7.02	■	> 7.02
		⊠	No Sample		

0 200 400 600 800
Meters

N

EPL:TSX-V

Eagle Plains Resources Ltd.

Sprogge Property

Figure 6e - 2010 MMI Response Ratio - Au

Projection - NAD 83 UTM Zone 09N

Scale - 1: 15 000

21/02/2011

Inset A
1:10,000

Inset B
1:10,000

Inset C
1:10,000

A

B

C

Rain

Legend

- Minfile Showing
- Contour (20m)
- River
- EPL Tenure Boundary
- Wetland

MMI Response Ratio Au

- 1 - 6
- 7 - 17
- 18 - 36
- 37 - 67
- 68 - 176
- No Sample

N

0 200 400 600 800
Meters

EPL:TSX-V

Eagle Plains Resources Ltd.

Sprogge Property

Figure 6f - 2010 MMI Response Ratio - Cu

Projection - NAD 83 UTM Zone 09N

Scale - 1: 15 000

21/02/2011

Inset A
1:10,000

Inset B
1:10,000

Inset C
1:10,000

A

B

C

Rain

Legend

- Minfile Showing
- Contour (20m)
- River
- EPL Tenure Boundary
- Wetland

MMI Response Ratio Cu

- 0 - 3
- 4 - 6
- 7 - 10
- 11 - 16
- 17 - 22
- No Sample

N

0 200 400 600 800
Meters

EPL:TSX-V

Eagle Plains Resources Ltd.

Sprogge Property

Figure 6g - 2010 MMI Response Ratio - Ag

Projection - NAD 83 UTM Zone 09N

Scale - 1: 15 000

21/02/2011

Inset A
1:10,000

Inset B
1:10,000

Inset C
1:10,000

A

B

C

Rain

Legend

- Minfile Showing
- Contour (20m)
- River
- EPL Tenure Boundary
- Wetland

MMI Response Ratio Ag

- 0 - 2
- 3 - 4
- 5 - 6
- 7 - 10
- 11 - 27
- No Sample

N

0 200 400 600 800
Meters

EPL:TSX-V

Eagle Plains Resources Ltd.

Sprogge Property

Figure 7 - Channel Sampling - Main Zone

Projection - NAD 83 UTM Zone 09N

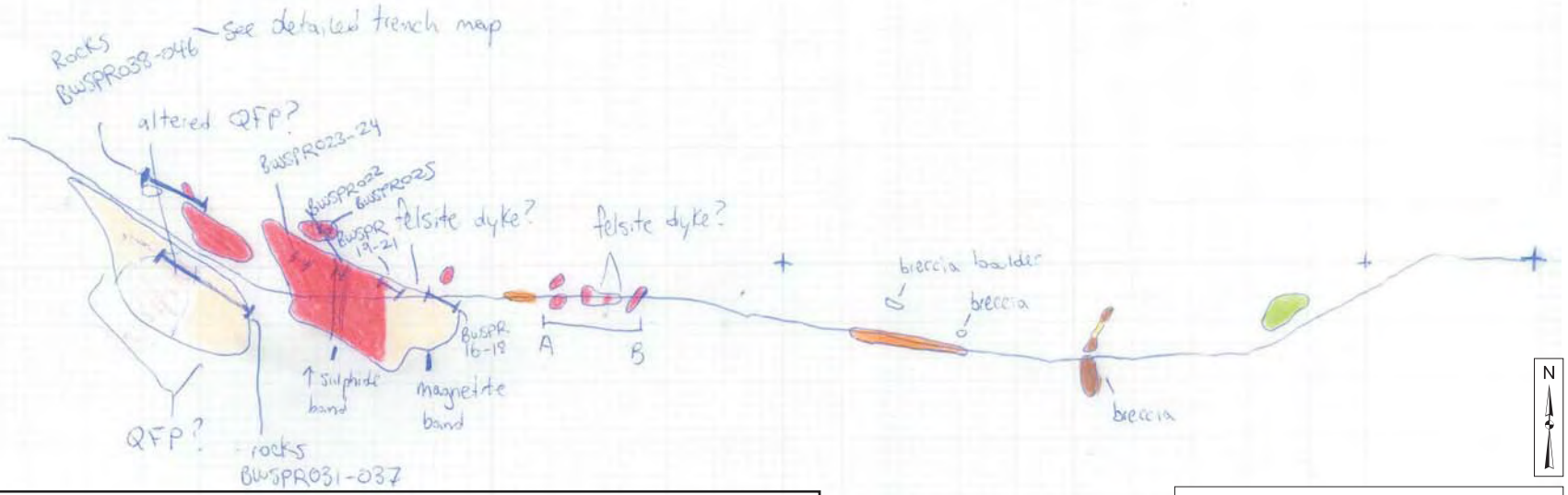
Scale - 1: 1 000 03/03/2011

547400 +

547400 +

6837350 +

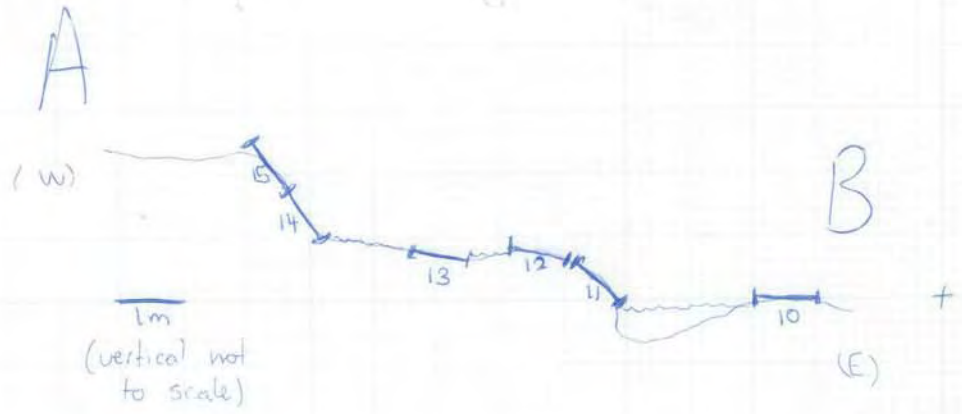
6837300 +



0 10 20 30 40 50

Meters

Detailed Trench Map



Geologic Legend

- Skarn
- ferricrete
- dyke - felsite and quartz feldspar porphyry (QFP)
- hornfels
- Siltstone
- medium grained quartz grit

Conclusions

The Sprogge (Justin) property, located approximately 175 kilometers north of Watson Lake in the southeast Yukon Territory, has the potential to host significant deposits of Gold, Silver and Copper. The property hosts Au-Cu Skarns and Sheeted Gold bearing quartz veining and is underlain by sedimentary rocks assigned to the Yusezyu Formation, an older member of the Upper Proterozoic to Lower Cambrian Hyland Group. These sediments are intruded by mid-Cretaceous intrusive plugs and dykes.

The 2010 exploration program consisted of 16 field days with a crew of 5 workers and an 207 airborne geophysical survey. The focus of the program was to evaluate and re-sample the known mineralization occurrences and locate further mineralization on the property. The purpose of the airborne geophysical survey was to locate any buried intrusions and major structural features that could be controlling and influencing mineralization on the property. A total of 135 rock samples, 61 silt samples and 209 soil samples were taken over the course of the program.

The 2010 exploration program on the property was successful in outlining an abundance of mineralization occurrences returning over 1 g/t Au. Channel sampling from the Confluence and Main Zone and chip sampling from the Kangas zone confirmed and expanded on the historical results. The Main Zone returned results as high as 11 m of 1.4 g/t Au, 3 g/t Ag and 0.18 % Cu including 3 m at 3.04 g/t Au, 4 g/t Ag and 0.22% Cu as well as 7 m at 2.07 g/t Au, including 3 m at 3.15 g/t Au. The Confluence Zone returned results including 1.6 g/t Au, 2.4 g/t Ag over 4 m while the Kangas Zone returned 1.5 m at 2.85 g/t Au, 4.2 g/t Ag.

An new mineralization occurence was discovered in the northwestern part of the property, along with previously unknown intrusive plug. This zone, named the Pow zone exihibits mineralization similar to both the Main and Confluence Zones. Results include 0.5 g/t Au over 3 m in a chip sample and grab samples from different locations returning up to 2.4 g/t Au in skarn mineralization and 3 g/t Au in mineralized quartz veins.

The geophyical survey over the property was successful in outlining potential target areas of coincident magnetic and electromagnetic anomalies. The magnetic resistivity anomalies with conductive halos could be the indication of buried intrusives and potential mineralization controlling structures were identified from the electromagnetic response.

The soil geochemical program, including geochemical orientation surveys, highlighted the difficulting and variability of the results from this exploration method. The property has very poor soil development and extensive overburdern/till cover in the valley bottoms. The conventional soil samples taken over known mineralization did not return any anomalous values in the elements of interest but the samples taken and analyzed using the Mobile Metal Ion method did return anomalous results for Gold at the Confluence Zone and Copper at the Main Zone. This method would provide a better understanding of buried mineralization potential in areas of cover than the conventional soil sampling method.

The Sprogge (Justin) property has the potential to host an economic Gold, Copper and Silver deposit and further exploration is strongly recommended.

RECCOMMENDATIONS

Further exploration work is strongly recommended on the Sprogge (Justin) property and should include the following items:

- Data compilation of all historical results into digital GIS format
- Phase One field program consisting of
  - Detailed Geological Mapping and Prospecting of the Pow Zone
  - Follow up Geological Mapping, Prospecting and sampling of the targets identified by the geophysical survey
  - Geological Mapping and Prospecting of the Southwest portion of the property
  - Expand MMI sampling coverage over prospective areas with cover
- Phase Two program would consist of diamond drilling
  - Focus on known mineralization zones, namely the Main, Confluence, Kangas and Pow Zones
  - Exploration drilling of unexposed high priority geophysical targets

References

Brownlee, D.J. and Allen, D.G., 1987: Geological and Diamond Drilling Report on the Sun Property, AR # 092148

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Higgs, A, 2009: 2008 Assessment Report on the Sprogge Project

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Scott, E., 1999: 1998 Geological and Geochemical Assessment Report on the Sprogge Project, AR # 093959

Department of Indian and Northern Affairs, 1995: Yukon MinFile, Frances Lake Area (Sheet 105H)

Appnedix I – Statement of Qualifications

Aaron A. Higgs, B. Sc.

I, Aaron Ashwell Higgs, B.Sc. do hereby certify that:

I am currently employed as a Geologist by TerraLogic Exploration Inc., with business location of Suite 200, 44-12th Ave S., Cranbrook, BC, V1C 2R7 (Telephone: 778-520-2000, email: aah@terralogicexploration.com

I graduated with a B.Sc. in Geology from the University of British Columbia in the year 2005.

I have worked as a Geologist in Western Canada for 6 years.

I am responsible for the preparation of this Technical Report entitled "Geological, Geochemical and Geophysical Report on the Sprogge (Justin) Property", prepared for Eagle Plains Resources Ltd.

Dated at Cranbrook, British Columbia, Canada this 5th day of April, 2011.

Respectfully submitted

Aaron A. Higgs, B.Sc. (Geol)

April 5th, 2011

Appendix II – Statement of Expenditures

2010 Sprogge (Justin) Expenditures					
Exploration Work type	**Comment**	**Days**			**Totals**
Personnel (Name) / Position	**Field Days (list actual days)**	**Days**	**Rate**	**Subtotal**	
Aaron Higgs, Project Manager		16.0	575	$ 9,200.00	
Bronwen Wallace, Senior Geologist		16.0	525	$ 8,400.00	
Ben Kary, GIS Manager		16.0	425	$ 6,800.00	
Lewis Jones, Junior Geologist		16.0	425	$ 6,800.00	
Eric Termuende, Field Technician		16.0	425	$ 6,800.00	
Jesse Campbell, General Manager		3.0	700	$ 2,100.00	
				$40,100.00	**$40,100.00**
Office Studies	**List Personnel**				
Project Planning	Jesse Campbell	0.2	700	$ 126.00	
Project Planning	Glen Hendrickson	3.0	525	$ 1,564.50	
Project Planning	Chris Gallagher	1.8	700	$ 1,239.00	
Project Planning, Management, Reporting and Travel	Aaron Higgs, Project Manager	11.9	525	$ 6,221.25	
Reporting	Jason Kolcun, GIS Technician	5.3	385	$ 2,021.25	
Database compilation and project preparation	Brad Robison, GIS Technician and Equipment Manager	4.5	525	$ 2,362.50	
General research	Bronwen Wallace, Senior Geologist	3.0	525	$ 1,575.00	
				$15,109.50	**$15,109.50**
Contractors and Subcontractors					
Geological	All-Terrane Exploration Services			$1,280.00	
Geological	Aurora Geosciences			$1,545.00	
				$2,825.00	**$2,825.00**
Airborne Exploration Surveys	**Line Kilometres / Enter total invoiced amount**				
Aeromagnetics and Electromagnetic Survey			$0.00	$48,389.31	
				$48,389.31	**$48,389.31**
Remote Sensing	**Area in Hectares / Enter total invoiced amount or list personnel**				
Aerial photography				$59.98	
				$59.98	**$59.98**
Geochemical Surveying	**Number of Samples**	**No.**	**Rate**	**Subtotal**	
Stream sediment				$1,354.20	
Soil				$11,918.40	
Rock				$3,743.40	
				$17,016.00	**$17,016.00**
Transportation		**No.**	**Rate**	**Subtotal**	
Airfare				$429.23	
fuel				$385.24	
Helicopter (hours)				$20,453.50	
Fuel (litres/hour)				$3,953.76	
				$25,221.73	**$25,221.73**
Accommodation & Food	**Rates per day**				
Hotel				$1,652.50	
Camp				$1,483.19	
Meals	day rate or actual costs-specify			$814.06	
				$3,949.75	**$3,949.75**
Geological and Geochemical					
Map Plotting				$62.40	
Geological Supplies				$151.04	
Sampling Consumables	sample bags, tags, flagging, etc…			$486.68	
				$700.12	**$700.12**

Equipment Rentals			per day		
Field kits - per day				3,318.00	
Truck wi insurance - per week Unit#01				2,233.00	
Mileage per km-Unit #01				1,015.40	
Trailer Enclosed - per week - Unit #03				1,648.00	
Satellite Internet				245.75	
Satelite phone wi charger - per week				421.80	
Satellite Phone Airtime				460.87	
Computer wi printer - per week				281.20	
Chainsaw - per week				128.50	
Radio wi charger - per week				582.00	
Field Camp - per man - per day				3,792.00	
Wall tent - per week				412.00	
Rock Saw - per week				271.40	
Shot gun - per week				70.30	
Digital Camera - per week				92.20	
Water Pump - per week				473.90	
Fieldhouse Accommodations - per day				157.20	
				$15,603.52	**$15,603.52**
Freight					
				$202.73	
				$202.73	**$202.73**
Terralogic Exploration Handling and Adminstration Fees					
				$14,724.28	**$14,724.28**
TOTAL Expenditures					**$183,901.92**

Appendix III – Geochemical Protocol

3.1 – Field Sampling Techniques
3.2 Analytical Procedures

Appendix 3.1 Field Sampling Techniques

Rock samples were collected in the field by placing 1-3 kg of material in heavy grade plastic sample bags with the sample number written on both sides in permanent marker. Each sample bag was then sealed with a plastic cable tie and samples were transported back to camp at the end of each day. A representative piece of each sample was often collected and returned to camp for further examination in the event of an interesting or exceptional analytical result.

Conventional soil samples were collected from the B-horizon wherever possible. Silt samples were collected from active creeks whenever possible. Both soil and silt samples were placed and sealed into brown paper kraft bags. Samples were dried in the field daily, weather permitting. Relevant details pertaining to the soil and silt samples such as location parameters, depth, horizon, quality, were recorded by the sampler in the field. MMI samples were taken from a depth of 15-25 cm using a plastic trowel and placed into plastic Ziploc bags to avoid any contamination.

Sample sites were marked in the field with orange arctic-grade flagging and an aluminum tag, both having been marked with the appropriate sample number. Sample locations were determined by hand-held GPS set to report locations in UTM coordinates using the North American datum established in 1983 (NAD 83).

All surface geochemical samples were collected by company geologists or sampling technician employees trained by TerraLogic Exploration staff geologists. At the end of each day samples were organized, dried and catalogued and then placed in poly woven “rice” bags. The samples were maintained as a single group before being taken and dropped off at the Alex Stewart Group (EcoTech) Prep lab in Whitehorse. MMI samples were sent to the SGS laboratory in Toronto, Ont.

3.2 – Analytical Procedures

SGS

Minerals Services METHOD SUMMARY

MMI - M : The Determination of Mobile Metal Ions (MMI): Ag, Al, As, Au, Ba, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Hg, In, K, La, Li, Mg, Mn, Mo, Nb, Nd, Ni, P, Pb, Pd, Pr, Pt, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Te, Th, Ti, Tl, U, V, W, Y, Yb, Zn, Zr by partial extraction and ICP-MS.

1. **Parameter(s) measured, unit(s):**
Silver (Ag); Aluminum (Al); Arsenic (As); Gold (Au); Barium (Ba); Bismuth (Bi); Calcium (Ca); Cadmium (Cd); Cerium (Ce); Chromium (Cr); Cobalt (Co); Cesium (Cs); Copper (Cu); Dysprosium (Dy); Erbium (Er); Europium (Eu); Iron (Fe); Gallium (Ga); Gadolinium (Gd); Mercury (Hg); Indium (In); Potassium (K); Lanthanum (La); Lithium (Li); Magnesium (Mg), Manganese (Mn); Molybdenum (Mo); Niobium (Nb); Neodymium (Nd); Nickel (Ni); Phosphorus (P); Lead (Pb); Palladium (Pd); Praseodymium (Pr); Platinum (Pt); Rubidium (Rb); Antimony (Sb); Scandium (Sc); Samarium (Sm); Tin (Sn); Strontium (Sr); Tantalum (Ta); Terbium (Tb); Tellurium (Te); Thorium (Th); Titanium (Ti); Thallium (Tl); Uranium (U); Tungsten (W); Yttrium (Y); Ytterbium (Yb); Zinc (Zn) and Zirconium (Zr) by partial extraction and ICP-MS: ppb.

2. **Typical sample size:**
50 g

3. **Type of sample applicable (media):**
Soils

4. **Sample preparation technique used:**
Mobile metal ions present in soil samples are partially extracted using a concentrated MMI –M solution.

5. **Method of analysis used:**
The extracted sample solution is analyzed by Inductively coupled plasma Mass Spectrometer (ICP-MS). Samples are analyzed against known calibration materials to provide quantitative analysis of the original sample.

6. **Data reduction by:**
The results are exported via computer, on line, data fed to the SGS Laboratory Information Management System (SLIM) with secure audit trail.

7. **Figures of Merit:**

Element	Reporting Limit (ppb)	Element	Reporting Limit (ppb)	Element	Reporting Limit (ppb)	Element	Reporting Limit (ppb)
Ag	1.0	Er	0.5	Nd	1.0	Ta	1.0
Al	1.0 (ppm)	Eu	0.5	Ni	5.0	Tb	1.0
As	10	Fe	1.0 (ppm)	P	0.1 (ppm)	Te	10
Au	0.1	Ga	1.0	Pb	10	Th	0.5
Ba	10	Gd	1.0	Pd	1.0	Ti	3.0
Bi	1.0	Hg	1.0	Pr	1.0	Tl	0.5
Ca	10 (ppm)	In	0.5	Pt	1.0	U	1.0
Cd	1.0	K	0.1 (ppm)	Rb	5.0	V	NA
Ce	5.0	La	1.0	Sb	1.0	W	1.0
Co	5.0	Li	5.0	Sc	5.0	Y	5.0
Cr	100	Mg	1.0 (ppm)	Se	NA	Yb	1.0
Cs	0.5	Mn	10	Sm	1.0	Zn	20
Cu	10	Mo	5.0	Sn	1.0	Zr	5.0
Dy	1.0	Nb	0.5	Sr	10		

8. Quality control:
Instrument calibration is performed for each batch or work order and calibration checks are analyzed with each analytical run. Quality control materials include method blanks, replicates, duplicates and reference materials and are randomly inserted with the frequency set according to method protocols at ~14%. Quality assurance measures of precision and accuracy are verified statistically using SLIM control charts with set criteria for data acceptance. Data that fails is subject to investigation and repeated as necessary.

Eco Tech Laboratory Limited
10041 Dallas Drive
Kamloops, British Columbia
V2C 6T4
Tel + 250 573 5700
Tel + 1 877 573 5755
Fax + 250 573 4557
www.stewartgroupglobal.com

StewartGroup
Geochemical & Assay

Analytical Procedure Assessment Report

Eco Tech Laboratory Ltd. is registered for ISO 9001:2008 by KIWA International (TGA-ZM-13-96-00) for the "provision of assay, geochemical and environmental analytical services". Eco Tech also Participates in the annual Canadian Certified Reference Materials Project (CCRMP) and Geostats Pty bi-annual round robin testing programs. The laboratory operates an extensive quality control/quality assurance program, which covers all stages of the analytical process from sample preparation through to sample digestion and instrumental finish and reporting.

SAMPLE PREPARATION (codes vary)

Samples (minimum sample size 250g) are catalogued and logged into the sample-tracking database. During the logging in process, samples are checked for spillage and general sample integrity. It is verified that samples match the sample shipment requisition provided by the clients. The samples are transferred into a drying oven and dried.
Soils are prepared by sieving through an 80-mesh screen to obtain a minus 80-mesh fraction. Samples unable to produce adequate minus 80-mesh material are screened at a coarser fraction. These samples are flagged with the relevant mesh.
Rock samples are crushed on a Terminator jaw crusher to -10 mesh ensuring that 70% passes through a Tyler 10 mesh screen.
Every 35 samples a re-split is taken using a riffle splitter to be tested to ensure the homogeneity of the crushed material.
A 250 gram sub sample of the crushed material is pulverized on a ring mill pulverizer ensuring that 95% passes through a -150 mesh screen. The sub sample is rolled, homogenized and bagged in a pre-numbered bag.
A barren gravel blank is prepared before each job in the sample prep to be analyzed for trace contamination along with the processed samples.

GOLD AQUA REGIA DIGEST: ICP-MS FINISH (Au1-10,25)

Samples are digested in an aqua regia solution for 45 minutes. They are bulked with de-ionized water, and an aliquot of this is taken for analysis a Thermo Scientific X series II ICP-MS unit. All synthetic standards are purchased and verified by 3 independent analysts and are used for instrument calibration before each and every ICP-MS run.
A 2-3 point standardization curve is used to check the linearity (high and low). Certified reference material is used to check the performance of the machine and to ensure that proper digestion occurred in the wet lab. QC samples are run along with the client samples to ensure no machine drift or instrumentation issues occurred during the analysis of the sample(s). Repeat samples (every 10 or less) and re-splits (every 35 or less) are also run to ensure proper weighing and digestion occurred. Detection limits for aqua regia digest gold values is 1-1000ppb.
Results are collated by computer and are printed along with accompanying quality control data (re-splits and standards). Results are emailed, faxed, or mailed to the clients.

**** This method is recommended for soil and silt samples only.

GOLD FIRE ASSAY: GEOCHEM (Au2-15,30,50)

A 15/30/50 g sample size is fire assayed along with certified reference materials using appropriate fluxes. The flux used is pre-mixed, purchased from Anachemia which contains Cookson Granular Litharge. (Silver and Gold Free). The ratios are 66% Litharge, 24% Sodium Carbonate, 2.7% Borax, 7.3% Silica. (The charges may be adjusted based on the sample). Flux weight per fusion is 150g. Purified Silver Nitrate or inquarts for the necessary silver addition is used for inquartation. The resultant dore bead is parted and then digested with nitric acid followed by hydrochloric acid solutions and then analyzed on an atomic absorption instrument (Perkin Elmer/Thermo S-Series AA instrument).
Over-range geochem values (Detection limit 5-1000ppb) for rocks are re-analyzed using gold assay methods (see below).
Appropriate certified reference material and repeat/re-split samples (Quality Control Components) accompany the samples on the data sheet for quality control assessment.
Results are collated by computer and are printed along with accompanying quality control data (repeats and standards). Results are emailed, faxed or mailed to the clients.

ICP-MS AQUA REGIA DIGESTION (AR-UT)

Samples are digested in an aqua regia solution for 45 minutes. They are bulked with de-ionized water, and an aliquot of this is taken for analysis a Thermo Scientific X series II ICP-MS unit. All synthetic standards are purchased and verified by 3 independent analysts and are used for instrument calibration before each and every ICP-MS run.
A 2-3 point standardization curve is used to check the linearity (high and low). Certified reference material is used to check the performance of the machine and to ensure that proper digestion occurred in the wet lab. QC samples are run along with the client samples to ensure no machine drift or instrumentation issues occurred during the analysis of the sample(s). Repeat samples (every 10 or less) and re-splits (every 35 or less) are also run to ensure proper weighing and digestion occurred.
Results are collated by computer and are printed along with accompanying quality control data (re-splits and standards). Results are emailed faxed and or mailed to the client.

****Gold (DL: 5-1000ppb) can be added to this package, for method see Au1-10,25.

Detection Limits:

Element	Unit	LDL	Element	Unit	LDL
Ag	ppm	0.01	**Nb** *	ppm	0.05
Al *	%	0.01	**Ni**	ppm	0.2
As	ppm	0.1	**P**	%	0.001
Ba *	ppm	0.5	**Pb**	ppm	0.2
Be *	ppm	0.1	**Rb** *	ppm	0.1
Bi	ppm	0.02	**S** *	%	0.01
Ca *	%	0.01	**Sb** *	ppm	0.05
Cd	ppm	0.01	**Sc** *	ppm	0.1
Ce *	ppm	0.1	**Se**	ppm	0.2
Co	ppm	0.1	**Sn** *	ppm	0.2
Cr *	ppm	2	**Sr** *	ppm	2
Cu	ppm	2	**Ta** *	ppm	0.01
Fe *	%	0.01	**Te** *	ppm	0.02
Ga *	ppm	0.1	**Th** *	ppm	0.1
Ge	ppm	0.1	**Ti** *	ppm	10
Hg	ppm	0.005	**Tl** *	ppm	0.02

K *	%	0.01	**U**	ppm	0.1
La	ppm	0.5	**V**	ppm	2
Li *	ppm	2	**W ***	ppm	0.1
Mg *	%	0.01	**Y ***	ppm	0.05
Mn	ppm	5	**Zn**	ppm	2
Mo	ppm	0.05	**Zr ***	ppm	1
Na *	%	0.01			

***Elements marked with an asterick * may not be totally digested**

METALLIC GOLD ASSAY (Au2-250)

Samples are catalogued and dried. Rock samples are crushed to minus 70% passing through 10 mesh, then split to achieve a 250g, 500g or 1000g sub sample. The sample is pulverized to 95% passing through -150 mesh. The entire sample is weighed, then rolled and homogenized and screened through a 150 mesh.
The resulting –150 mesh fraction is homogenized and two sub-sample portions are fire assayed. All of the resulting +150 mesh material is fire assayed. The resultant fire assay beads are digested with a nitric and hydrochloric solution, and then analyzed on a Perkin Elmer atomic absorption machine using air-acetylene flame to 0.03g/t detection limit. If the gold values are over an agreed level a gravimetric finish would be performed. (Same process but only nitric acid is used to dissolve the silver away from the gold. The resulting gold bead is weighed on a Mettler Toledo MX5 micro-balance.)

The results for the two -150 values and single +150 mesh value are then calculated based on the original sample weight providing a net gold value. The entire set of samples is redone if the quality control standard is outside 2 standard deviations or if the blank is greater than .015 g/t.

Results are collated by computer and are printed along with accompanying quality control data (re-splits and standards). Results are printed on a laser printer and are faxed and or mailed to the client.

ICP-AES AQUA REGIS DIGESTION (AR-ES)

A 0.5 gram sample is digested with a 3:1:2 (HCl: $HN0_3$: H_20) solution in a water bath at 95°C. The sample is then diluted to 10ml with water. All solutions used during the digestion process contain beryllium, which acts as an internal standard for the ICP run. The sample is analyzed on a Thermo IRIS Intrepid II XSP ICP unit. Certified reference material is used to check the performance of the machine and to ensure that proper digestion occurred in the wet lab. QC samples are run along with the client samples to ensure no machine drift occurred or instrumentation issues occurred during the run procedure. Repeat samples (every batch of 10 or less) and re-splits (every batch of 35 or less) are also run to ensure proper weighing and digestion occurred.
Results are collated by computer and are printed along with accompanying quality control data (repeats, re-splits, and standards). Any of the base metal elements (Ag, Cu, Pb, Zn) that are over limit (>1.0%) are immediately run as an ore grade assay (see protocol below).
Results are emailed, faxed or mailed to the clients.

Detection Limits:

Element	Unit	LDL	Element	Unit	LDL
Ag	ppm	0.5	**Mn**	ppm	5
Al *	%	0.01	**Mo**	ppm	1
As	ppm	5	**Na ***	%	0.01
Ba *	ppm	2	**Ni**	ppm	1
Be *	ppm	1	**P**	%	0.001
Bi	ppm	5	**Pb**	ppm	3
Ca *	%	0.01	**S ***	%	0.01
Cd	ppm	1	**Sb ***	ppm	5
Co	ppm	1	**Sn ***	ppm	5
Cr *	ppm	2	**Sr ***	ppm	2
Cu	ppm	2	**Ti ***	ppm	10
Fe *	%	0.01	**U**	ppm	5
Hg	ppm	5	**V**	ppm	2
K *	%	0.01	**W ***	ppm	5
La *	ppm	2	**Y ***	ppm	1
Li *	ppm	2	**Zn**	ppm	2
Mg *	%	0.01			

***Elements marked with an asterisk* may not be totally digested**

BASE METAL ASSAY (BM2/A)

Samples and standards undergo an oxidizing digestion in 200 ml phosphoric flasks with final solution in aqua regia solution. Appropriate standards and repeat/re-split samples (Quality Control Components) accompany the samples on the data sheet.
The digested solutions are made to volume with RO water and allowed to settle. An aliquot of the sample is analyzed on a Perkin Elmer/Thermo S-Series AA instrument. (Detection limit 0.01 % AA)
Instrument calibration is done by verified synthetic standards, which have undergone the same digestion procedure as the samples. Standards used narrowly bracket the absorbance value of the sample for maximum precision.
Results are collated and are printed along with accompanying quality control data (repeats, re-splits, and standards). Results are emailed, faxed or mailed to the clients.

MMI Analytical Techniques (SGS Laboratories)

Target elements are extracted using weak solutions of organic and inorganic compounds rather than conventional aggressive acid or cyanidebased digests. MMI® solutions contain strong ligands, which detach and hold in solution the metal ions that were loosely bound to soil particles by weak atomic forces. The extraction does not dissolve the bound forms of the metal ions. Thus, the metal ions in the MMI solutions are the chemically active or 'mobile' component of the sample. Because these mobile, loosely bound complexes are in very low concentrations, measurement is by conventional ICP-MS and the latest evolution of this technology, ICP-MS Dynamic Reaction Cell™ (DRC II™).

Sample collection is the most critical part of a soil geochemistry program. The MMI® Technology has specific sampling protocols based on years of experience and research. In the absence of an orientation survey, samples must be taken at a constant depth (10-25cm) below the organic-inorganic soil interface. There is no sample preparation or drying. The analysis is done on a 50 gram sample and the extracted solution is analyzed via ICP-MS or ICP-MS DRCII™ instruments, that can provide determinations in the part per billion range.

Appendix IV – Sample Locations and Descriptions

4.1 – Rock Samples
4.2 – Silt Samples
4.3 - Soil Samples

Appendix 4.1 - Rock Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Channel (m)*	*Channel (Az)*	*Map Unit*	*Rock Type - Major*	*Rock Type - Minor*	*Colour - Fresh*	*Colour - Weathered*	*Grain Size*	*Texture*	*Metamorphic Indicator*	*Mineralization - Major*	*Mineralization - Minor*	*Mineralization Style*	*Min. %*	*Alteration*	*Alt. Degree*	*Rock Description*
AHSPR001	AH	12/08/2010	546825	6839405				Siliceous phyllite		milky	orangish	fine-medium						0		0	
AHSPR002	AH	12/08/2010	546825	6839454				Meta-siltstone										0		0	
AHSPR003	AH	12/08/2010	546809	6839471				Quartzite		orange	brown	fine-medium						0		0	Sample of qtz vein material with aspy
AHSPR004	AH	12/08/2010	546809	6839471	1	264		Quartzite		orange	brown	fine-medium						0		0	Vuggy leached out qtz rich material with py and aspy, highly fractured.
AHSPR005	AH	12/08/2010	546809	6839471	1	264		Quartzite		orange	brown	fine-medium						0		0	Sample includes 16 cm qtz vein, and rest is leached vuggy qtz rich unit
AHSPR006	AH	12/08/2010	546705.23	6839102.2				Porphyry		grey	orangish	medium-coarse	porphyritic					0		0	Sample of altered qtz porphyry with diss py and aspy
AHSPR007	AH	12/08/2010	546705.23	6839102.2				Porphyry		grey	orangish	medium-coarse	porphyritic					0		0	Material in fault gauge zone
AHSPR008	AH	13/08/2010	548522.6	6836834.3	1	320		Quartz Pebble Conglomerate	Sandstone	milky	grey	medium						0		0	
AHSPR009	AH	13/08/2010	548522.6	6836834.3	1	320		Quartz Pebble Conglomerate	Sandstone	milky	grey	medium						0		0	
AHSPR010	AH	13/08/2010	548572.73	6836911.3	1	80		Quartz Pebble Conglomerate	Sandstone	white	grey	medium-coarse	veined					0		0	
AHSPR011	AH	13/08/2010	548572.73	6836911.3	1	80		Quartz Pebble Conglomerate	Sandstone	white	grey	medium-coarse	veined					0		0	
AHSPR012	AH	13/08/2010	548572.73	6836911.3	1	80		Quartz Pebble Conglomerate	Sandstone	white	grey	medium-coarse	veined					0		0	
AHSPR013	AH	13/08/2010	548572.73	6836911.3	1	80		Quartz Pebble Conglomerate	Sandstone	white	grey	medium-coarse	veined					0		0	
AHSPR014	AH	14/08/2010	548637.33	6836949.5	1	52		Quartz Pebble Conglomerate		milky	tan	medium-coarse						0		0	4 chacedony qtz vns wit 2% aspy in qpc unit
AHSPR015	AH	14/08/2010	548670.8	6836968.6	1	58		Quartz Pebble Conglomerate	Sandstone	milky	reddish	medium						0		0	
AHSPR016	AH	14/08/2010	548670.8	6836968.6	1	58		Quartz Pebble Conglomerate	Sandstone	milky	reddish	medium						0		0	
AHSPR017	AH	14/08/2010	548720.08	6836947.8	1.5	72		Quartz Pebble Conglomerate		milky	reddish	medium-coarse						0		0	Sample made up of all chalcedonic vn with trace aspy
AHSPR018	AH	14/08/2010	548720.08	6836947.8	1	72		Quartz Pebble Conglomerate		milky	reddish	medium-coarse						0		0	15 cm of chalc vn and rest si alt host rock. 1%aspy
AHSPR019	AH	14/08/2010	548720.08	6836947.8	1	72		Quartz Pebble Conglomerate		milky	reddish	medium-coarse						0		0	
AHSPR020	AH	14/08/2010	548720.08	6836947.8	1	72		Quartz Pebble Conglomerate		milky	reddish	medium-coarse						0		0	Some fractured rock
AHSPR021	AH	14/08/2010	548341.39	6837035.8	1	100		Quartz Pebble Conglomerate	Sandstone	grey	grey	medium						0		0	20 cm chacledony vn/altered zone and envelopes
AHSPR022	AH	16/08/2010	547301.84	6838419.6	1	356		Siltstone	Hornfels	greenish	rusty	fine						0		0	
AHSPR023	AH	16/08/2010	547232.61	6838708	1	282		Siltstone	Hornfels	greenish	brown	fine						0		0	
AHSPR024	AH	16/08/2010	547236.4	6838663.6	1	258		Siltstone	Hornfels									0		0	
AHSPR025	AH	16/08/2010	547236.4	6838663.6	1	300		Siltstone	Hornfels									0		0	9
AHSPR026	AH	16/08/2010	547234.55	6838647.9				Siltstone	Hornfels									0		0	
AHSPR027	AH	16/08/2010	547211.14	6838606.3	1	302		Siltstone	Hornfels									0		0	
AHSPR028	AH	16/08/2010	547211.14	6838606.3	1	276		Siltstone	Hornfels									0		0	
AHSPR029	AH	16/08/2010	547229.97	6838514.8	1.5	65		Skarn		green	rusty	fine-medium						0		0	Repeat of M388470R
AHSPR030	AH	16/08/2010	547219.42	6838496.2	1.5	223		Skarn		green	rusty	fine						0		0	Sample contains 15 cm aspy replacement zone, running 322/54
AHSPR031	AH	16/08/2010	547219.42	6838496.2	1.5	223		Skarn		green	rusty	fine						0		0	Sample contains smaller, 5cm aspy replacement zone
AHSPR032	AH	17/08/2010	546753	6839453				Calc-silicate		green	grey green	fine	veined					0		0	
AHSPR033	AH	17/08/2010	546767	6839451				Skarn		green	grey green	medium-coarse						0		0	
AHSPR034	AH	19/08/2010	547022.39	6838247.9				Sandstone		brownish	brown	fine-medium	veined					0		0	
AHSPR035	AH	19/08/2010	547226.06	6838425.6				Skarn										0		0	Massive aspy and qtz
AHSPR036	AH	19/08/2010	547226.06	6838425.6				Calc-silicate		green	brownish	fine						0		0	Calc-silicate w/ 5-8 % aspy
AHSPR037	AH	19/08/2010	547235.86	6838367.1	1	280		Skarn		grey green	rusty	fine-medium						0		0	
AHSPR038	AH	19/08/2010	547235.86	6838367.1	1	280		Skarn		grey green	rusty	fine-medium						0		0	
BKSPR001	BK	12/08/2010	548014	6835684				Limestone		bluish	orange	very fine	fissile					0		0	Gossanous scree grab
BKSPR002	BK	12/08/2010	548062	6835827				Quartz Pebble Conglomerate		white	orange	pebble						0		0	qz vein on ridge, gossanous
BKSPR003	BK	12/08/2010	548088	6835883	15	8		Quartz Pebble Conglomerate		grey	salmon	pebble						0		0	Resamp of unknown sample
BKSPR004	BK	12/08/2010	548223	6836056	90	97		quartz arenite		grey	yellow	fine						0		0	Resample of m686079, next to gossan
BKSPR005	BK	12/08/2010	548263	6836124	1	248		Quartz Pebble Conglomerate		light grey	yellow	pebble						0		0	Sampled across qz stringers
BKSPR006	BK	16/08/2010	547276	6838796	1	290		Siltstone	Skarn	bluish	orangish	fine	fissile					0		0	Mid sample zone of massive arsenopy
BKSPR007	BK	16/08/2010	547218	6838486				Hornfels										0		0	Massive arsenopy boulder
BKSPR008	BK	16/08/2010	547213	6838480	1.5	258		Sulph Min		light grey	yellowish	fine						0		0	
BWSPR001	BW	12/08/2010	548077.67	6835864.4				Quartz Pebble Conglomerate		orange	orange	coarse	granular					0		0	Representative along face,
BWSPR002	BW	12/08/2010	548103.68	6835883.3	1	90		Quartz Pebble Conglomerate		grey	beige	coarse	granular					0		0	Chip crosses vein near fault
BWSPR003	BW	12/08/2010	548103.19	6835899.1				Quartz Pebble Conglomerate		grey	grey	medium	rotten					0		0	5m from outcrop and chip BWSPR002
BWSPR004	BW	12/08/2010	548092.38	6835884.6	0.6	0		Quartz Pebble Conglomerate		grey	beige	medium	granular					0		0	Samplr across fault
BWSPR005	BW	13/08/2010	545790.23	6839084.7				Phyllite	Siltstone	dark grey	brownish	fine	platy					0		0	Rotten Fe rich qtz comb
BWSPR006	BW	14/08/2010	548235.31	6837020.2	1	90		Phyllitic quartzite		grey	brown	fine						0		0	Across silicified zone, some arseno
BWSPR007	BW	16/08/2010	547290.84	6838133.5				Hornfels	Skarn	greenish	brown	fine	laminated					0		0	
BWSPR008	BW	16/08/2010	547305.19	6838214.1	1	90		Skarn		green	brown	fine	laminated					0		0	Near historic sample M686001
BWSPR009	BW	16/08/2010	547364.47	6838253.9	1.2	90		Hornfels		dark grey	rusty	fine	laminated					0		0	Across N/S structures
BWSPR010	BW	17/08/2010	547380.08	6837299.7	1	276		Vein	Skarn	green	brown	fine-medium	massive					0		0	Rock is all qtz with 10% pyr, minor cpy and fine, dark sulphide maybe aspy.
BWSPR011	BW	17/08/2010	547375.57	6837292.3	1	280		Skarn	Vein	dark grey	brown	fine-medium	massive					0		0	Vein? Qtz+feld almost brecciated, cement of pyr, aspy, minor cpy
BWSPR012	BW	17/08/2010	547375.57	6837292.3	1	270		Skarn	Vein	dark grey	brown	fine-medium	massive					0		0	Vein? Fine grained mix of qtz and 40% pyr

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Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Channel (m)*	*Channel (Az)*	*Map Unit*	*Rock Type - Major*	*Rock Type - Minor*	*Colour - Fresh*	*Colour - Weathered*	*Grain Size*	*Texture*	*Metamorphic Indicator*	*Mineralization - Major*	*Mineralization - Minor*	*Mineralization Style*	*Min. %*	*Alteration*	*Alt. Degree*	*Rock Description*
BWSPR013	BW	17/08/2010	547375.57	6837292.3	1	170		Skarn	Vein	dark grey	brown	fine-medium	massive					0		0	Qtz/feld intergrowths with blebs of 3%cpy and 3%pyr
BWSPR014	BW	17/08/2010	547366.37	6837294.9	1	180		Skarn		green	brown	medium						0		0	25-30% pyr in diopside skarn
BWSPR015	BW	17/08/2010	547366.37	6837294.9	1	180		Skarn		green	brown	medium						0		0	25-30% pyr in diopside skarn
BWSPR016	BW	17/08/2010	547344.24	6837298.6	1	180		Felsite		white	rusty	medium-coarse	fractured					0		0	Limonite dominated, qtz, feld, pyr, aspy where fresh
BWSPR017	BW	17/08/2010	547344.24	6837298.6	1	180		Felsite		white	rusty	medium-coarse	fractured					0		0	Limonite dominated, qtz, feld, pyr, aspy where fresh
BWSPR018	BW	17/08/2010	547344.24	6837298.6	1	180		Felsite		white	rusty	medium-coarse	fractured					0		0	Limonite dominated, qtz, feld, pyr, aspy where fresh
BWSPR019	BW	17/08/2010	547339.19	6837292.3	1	180		Felsite	Skarn	white	brown	medium	fractured					0		0	Pyr and aspy in felsite dyke
BWSPR020	BW	17/08/2010	547339.19	6837292.3	1	180		Felsite	Skarn	white	brown	medium	fractured					0		0	Pyr and aspy in felsite dyke
BWSPR021	BW	17/08/2010	547339.19	6837292.3	1	180		Felsite	Skarn	white	brown	medium	fractured					0		0	Diopside skarn at felsite dyke contact. Pyr mineralization. Tourmaline?
BWSPR022	BW	17/08/2010	547329.71	6837303.7	1.5	160		Skarn		green	brown	medium						0		0	Diopside with semi-massive pyr, pyrrohotite, 2%cpy, minor aspy
BWSPR023	BW	17/08/2010	547320.58	6837305.4	1	265		Skarn		green	brownish	medium-coarse	granular					0		0	South of historic high gold trench
BWSPR024	BW	17/08/2010	547320.58	6837305.4	1	165		Skarn		green	brownish	medium-coarse	granular					0		0	South of historic high gold trench
BWSPR025	BW	17/08/2010	547328.06	6837308.1	1	180		Skarn		green	brown	medium-coarse						0		0	Diopside skarn, includes 5cm qtz-pyr-aspy vein running N-S
BWSPR026	BW	18/08/2010	546843.23	6836880.9	1.5	300		Quartz-Feldspar Porphyry		beige	grey	fine	porphyritic					0		0	Near contact of dyke with phyllite
BWSPR027	BW	18/08/2010	546201.17	6836648	1	260		Quartz-Feldspar Porphyry		grey	grey	medium-coarse	porphyritic					0		0	Middle of 10m wide dyke
BWSPR028	BW	20/08/2010	548392	6836759				Hornfels	Siltstone	grey	rusty	fine	laminated					0		0	From dirt slide above creek, many pieces, fairly angular
BWSPR029	BW	20/08/2010	548392	6836759				Skarn		greenish	brown	fine	laminated					0		0	Dirt slide, approx 30-50% of rock is hornfels/skarn. Rest includes dyke, siltstone, QPC, shale.
BWSPR030	BW	20/08/2010	548384	6836601				Hornfels		dark grey	rusty	fine						0		0	Angular rock, but others nearby not mineralized
BWSPR031	BW	21/08/2010	547298	6837298	2	270		Quartz-Feldspar Porphyry		pinkish	beige	medium-coarse	porphyritic					0		0	From edge of outcrop west
BWSPR032	BW	21/08/2010	547298	6837298	2	270		Quartz-Feldspar Porphyry		pinkish	beige	medium-coarse	porphyritic					0		0	
BWSPR033	BW	21/08/2010	547298	6837298	2	270		Quartz-Feldspar Porphyry		pinkish	beige	medium-coarse	porphyritic					0		0	To felsite dyke contact
BWSPR034	BW	21/08/2010	547298	6837298	2	270		Quartz-Feldspar Porphyry	Skarn	rusty	rusty	fine-medium	rotten					0		0	
BWSPR035	BW	21/08/2010	547298	6837298	2	270		Quartz-Feldspar Porphyry	Skarn	rusty	rusty	fine-medium	rotten					0		0	
BWSPR036	BW	21/08/2010	547298	6837298	2	270		Quartz-Feldspar Porphyry	Skarn	rusty	rusty	fine-medium	rotten					0		0	
BWSPR037	BW	21/08/2010	547298	6837298	2	270		Quartz-Feldspar Porphyry	Skarn	rusty	rusty	fine-medium	rotten					0		0	
BWSPR038	BW	21/08/2010	547293	6837316	1	120		Quartz-Feldspar Porphyry	Felsite	beige	rusty	medium	rotten					0		0	Historic sample 169390
BWSPR039	BW	21/08/2010	547293	6837316	1	120		Quartz-Feldspar Porphyry	Felsite	beige	rusty	medium	rotten					0		0	Historic sample 169391
BWSPR040	BW	21/08/2010	547293	6837316	1	90		Quartz-Feldspar Porphyry	Felsite	beige	rusty	medium	rotten					0		0	Historic sample 169392
BWSPR041	BW	21/08/2010	547293	6837316	1	90		Hornfels	Skarn	dark grey	rusty	fine	rotten					0		0	Historic sample 169393
BWSPR042	BW	21/08/2010	547293	6837316	1	90		Hornfels	Skarn	dark grey	rusty	fine	rotten					0		0	Historic sample 169393 (supposed to be 169394?)
BWSPR043	BW	21/08/2010	547293	6837316	1	90		Hornfels	Skarn	dark grey	rusty	fine	rotten					0		0	Historic sample 10137
BWSPR044	BW	21/08/2010	547293	6837316	1	90		Hornfels	Skarn	dark grey	rusty	fine	rotten					0		0	Historic sample 10138
BWSPR045	BW	21/08/2010	547293	6837316	1	90		Hornfels	Skarn	dark grey	rusty	fine	rotten					0		0	Historic sample 10139
BWSPR046	BW	21/08/2010	547293	6837316	1	90		Hornfels	Skarn	dark grey	rusty	fine	rotten					0		0	Historic sample M388306R
ETSPR001	ET	09/08/2010	548595	6836893	0.03			Phyllite	artz Pebble Conglomer	white	orange	fine	veined					0		0	north south orientation 130\75
ETSPR002	ET	09/08/2010	547930	6837779				Siltstone		greyish	brownish	fine						0		0	
ETSPR003	ET	09/08/2010	547941	6837967	1	1		Siltstone		greyish	brownish	fine						0		0	
ETSPR004	ET	10/08/2010	546544	6839336	1	1		Quartz Pebble Conglomerate		white	greyish	medium-coarse						0		0	
ETSPR005	ET	10/08/2010	546811	6839448				Skarn		green	rusty	medium						0		0	
ETSPR006	ET	10/08/2010	546789	6839459				Skarn		greenish	rusty	medium-coarse						0		0	
ETSPR007	ET	10/08/2010	546775	6839466				Skarn		greenish	dark grey	medium-coarse						0		0	Sampled 20cm wide quartz vein in skarn rock. vein contains blebs to veinlets of pyrite and arsenopyrite. sample contaons veined material only
ETSPR008	ET	10/08/2010	546730	6839480				Quartz Monzonite		white	grey	fine-medium						0		0	
ETSPR009	ET	11/08/2010	549419	6836675				Shale		white	greyish	medium						0		0	
ETSPR010	ET	12/08/2010	546776	6839480				Calc-silicate		greenish	brownish	medium						0		0	see notebook
ETSPR011	ET	12/08/2010	546684	6839081				Quartz Pebble Conglomerate		white		medium-coarse						0		0	see notebook
LJSPR001	LJ	09/08/2010	548517	6836762				Meta-siltstone		light grey	rusty	fine						0		0	Sampled silicified meta sed. with disseminated to bleby arseno, pryyhotite and pyrite. up to 1.5%
LJSPR002	LJ	09/08/2010	5448598	6836911				Quartz Pebble Conglomerate		grey	dark grey	fine-medium						0		0	Sampled quartz vein in the qpc . the vein stikes NS with dip of 51. minerilzation of bleby to veinlets of pyrite and arsenopyrite. vein is 3.5 cm wide. sample contains veined material only
LJSPR003	LJ	09/08/2010	5448598	6836911	1	90		Quartz Pebble Conglomerate		grey	dark grey	fine-medium						0		0	samping host rock (qpc). That host quartz vein sampled in LJSPR002.
LJSPR004	LJ	09/08/2010	547950	6837785				Siltstone		light grey	grey	very fine	bedded					0		0	Sampled quartz vein in silt stone. no visible minerlization.
LJSPR005	LJ	09/08/2010	548003	6837921				Siltstone		grey	dark grey	fine-medium						0		0	Sampled quartz vein with minor arsenopyrite. vein is 2m wide. rough orentation of 130/90. but could be a huge bleb type structure.
LJSPR006	LJ	09/08/2010	547878	6838076				Carbonate		light grey	greyish	fine	veined					0		0	Sampled massive sulphide vein containing pyrit, pryyhotit, and trace chalco and borinite. vein is 10cm wide and is parallel to carbonate zone. sample contains sulphide material only.
LJSPR007	LJ	09/08/2010	547814	6838084				Phyllite		bluish	brownish	fine						0		0	Sampled weathered quartz vein that occuered along local fracture zone in phyllite.vein is 15cm wide no visible minerlization. sample contains veined material onky

Appendix 4.1 - Rock Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Channel (m)*	*Channel (Az)*	*Map Unit*	*Rock Type - Major*	*Rock Type - Minor*	*Colour - Fresh*	*Colour - Weathered*	*Grain Size*	*Texture*	*Metamorphic Indicator*	*Mineralization - Major*	*Mineralization - Minor*	*Mineralization Style*	*Min. %*	*Alteration*	*Alt. Degree*	*Rock Description*
LJSPR008	LJ	11/08/2010	548965	6835901				Phyllite	artz Pebble Conglomer	greyish	brownish	fine						0		0	Sampled quartz vein in phyllite unit. vein contained minor arseno veinlets with a green alteration mineral. vein is 15cm wide, could not measure orientation.
LJSPR009	LJ	12/08/2010	546800	6839449	1	251		Calc-silicate	Skarn	greenish	brownish	medium-coarse	equigranular					0		0	first meter of a 4 meter chip sample. sheeted chalcedony quartz veins, with vugs. limeonite preset around veins. Rocks appear leeched.
LJSPR010	LJ	12/08/2010	546800	6839449	1	251		Calc-silicate	Skarn	greenish	brownish	medium-coarse	equigranular					0		0	2nd meter of a 4 meter chip sample. bag contains a 40cm wide quatz vein with belbs to veinlets of arsenopyrite. on either side of vein are chalcedony sheeted quartz veins with limeonitic alteration
LJSPR011	LJ	12/08/2010	546800	6839449	1	251		Calc-silicate	Skarn	greenish	brownish	medium-coarse	equigranular					0		0	3rd meter of a 4 meter chip sample. calc- silicate skarn with pryyhotit belbs. That contain sheeted quartz veins
LJSPR012	LJ	12/08/2010	546800	6839449				Calc-silicate	Skarn	greenish	brownish	medium-coarse	equigranular					0		0	4th meter of a 4m chip sample. contains calc-silicate skarn with sheeted quartz veins, same as LJSPR011
LJSPR013	LJ	12/08/2010	546800	6839449				Calc-silicate	Skarn	greenish	brownish	medium-coarse	equigranular					0		0	High grade sample of 40cm wide quartz vein with veinlets-blebs of arseno pyrite up to 2%.
LJSPR014	LJ	13/08/2010	548605	6836911	1	342		Quartz Pebble Conglomerate		light grey	brownish	fine-medium						0		0	first meter of 3m channel sample. qpc is coarse grained in this section with 2mm blebs of arsenopyrite occuring irregularly through out
LJSPR015	LJ	13/08/2010	548605	6836911	1	342		Quartz Pebble Conglomerate		light grey	brownish	fine-medium						0		0	2nd meter of 3m channel sample. coarse grained qpc. with argillic alteration. belbs of arsenopyrite occur in a silicified section 8cm wide.
LJSPR016	LJ	13/08/2010	548605	6836911	1	342		Quartz Pebble Conglomerate		light grey	brownish	fine-medium						0		0	3rd meter in a 3m channel sample. contains a fine to medium grained version of the qpc. With a 7cm wide quartz vein. qpc is highly silicified. Belbs of arseno pyrite up to 2mm occring irregularly in silicifed sections.
LJSPR017	LJ	13/08/2010	548627	6836947	1	98		Quartz Pebble Conglomerate		light	brownish	pebble						0		0	1st meter of a 4m chanel sample. The first 20cm is a chalcedonic quartz vein with semi massive to veined aresenopyrite. next 80cm is qpc with bleby arseno.
LJSPR018	LJ	13/08/2010	548627	6836947	1	98		Quartz Pebble Conglomerate		light	brownish	pebble						0		0	2nd meter of 4m channel sample. 3 semi paralle chalcedonic quart veins (strike N-S with verticle dip), with veined arsenopyrite up to 4%. Between veins is QPC with bleby arseno.
LJSPR019	LJ	13/08/2010	548627	6836947	1	98		Quartz Pebble Conglomerate		light	brownish	pebble						0		0	3rd meter of 4m channel sample. fine - medium grained qpc with fine grained dissminated arseno, along with blebs of galena. chalcedonic vein with possible actinolite and veined arsenopyrite up to 2%
LJSPR020	LJ	13/08/2010	548627	6836947				Quartz Pebble Conglomerate		light	brownish	pebble						0		0	4th meter of 4m channel. first 30cm qpc witg trace disseminated arseno. last 70cm massive chalcedonic quartz with blebs to veinlets of pyrite & arseno up to 2%. Limeonit staining occurs through out quartz
LJSPR021	LJ	14/08/2010	548726	6836954	0.6	92		Quartz Pebble Conglomerate		light grey	brownish	pebble						0		0	A 60cm long 7cm wide channel sample. contains massive pyrite with fine grained disseminated arseno. also chalcedony veining with veinlets to blebs of arseno upto 2%
LJSPR022	LJ	16/08/2010	547487	6838204	1	345		Skarn		greenish	light grey	fine						0		0	1 st m of a 2m chip sample across skarn altered bed with veins to belbs of arsenopyrite up 3.5%
LJSPR023	LJ	16/08/2010	547487	6838204	1	342		Skarn		greenish	light grey	fine						0		0	2nd meter of chip sample across skarn and into hornfels silt stone.
LJSPR024	LJ	18/08/2010	546521	6839442				Skarn		greenish	dark grey	fine-medium						0		0	Float sample of massive arsenopyrite found near skarn. coarse grained subhedral-euhedral crystals.
LJSPR025	LJ	18/08/2010	546594	6839270				Granodiorite		salt and pepper	greyish	medium-coarse	equigranular					0		0	Type sample of intrusive for petrographic study to determine source.
LJSPR026	LJ	19/08/2010	546998	6838383				Siltstone		bluish	rusty	fine						0		0	Sample arseno minerlized silt stone
LJSPR027	LJ	19/08/2010	546998	6838383				Siltstone		bluish	rusty	fine						0		0	Sampled ruble crop 5m below LJSPR026. hornfels silt stone
LJSPR028	LJ	19/08/2010	547233	6838437	1	49		Siltstone		bluish	brownish	fine-medium						0		0	1st meter of 2m chip sample across massive arsenopyrite conduit. conduit is in siicified silt stone.
LJSPR029	LJ	19/08/2010	547233	6838437	1	49		Siltstone		bluish	brownish	fine-medium						0		0	2nd meter ofa 2m chip sample.sample contaibs massive aseno and siltstone that host it.
LJSPR030	LJ	20/08/2010	548538	6837318				Sandstone		light grey	brownish	fine	laminated					0		0	Sampled phyllitic sandstone, because we dident hike up here for nothing. Trace pyrite in sample.
LJSPR031	LJ	21/08/2010	548578	6836915	0.32	50		Quartz Pebble Conglomerate	Sandstone	bluish	brownish	pebble						0		0	Sampled qpc in pit SP10-P003. minor minerilization of pyrite and arseno in blebs up tp 1%
LJSPR032	LJ	21/08/2010	548626	6836939	0.7			Quartz Pebble Conglomerate		light grey	brownish	pebble						0		0	70cm chip sample of QPC at bottom of pit SP10-P004. Arsenopyrite occurs along fracture sufaces up to 1.5%. B

Appendix 4.2 - Silt Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Turbitiy*	*Depth (cm)*	*Size (1-5)*	*Quality (1-5)*
AHSPS001	AH	17/08/2010	547200	6839171	LOW	5	4	3
AHSPS002	AH	17/08/2010	547073	6839235	LOW	5	4	3
BKSPS001	BK	11/08/2010	549666	6836116	VERY LOW	5	5	4
BKSPS002	BK	11/08/2010	549675	6836301	VERY LOW	5	4	4
BKSPS003	BK	11/08/2010	549715	6836536	HIGH	5	4	4
BKSPS004	BK	11/08/2010	549462	6836667	HIGH	5	4	4
BKSPS005	BK	11/08/2010	549194	6836768	VERY LOW	5	4	3
BKSPS006	BK	11/08/2010	548719	6836993	MED	5	4	3
BKSPS007	BK	11/08/2010	548560	6837033	MED	5	4	4
BKSPS008	BK	11/08/2010	548305	6837029	VERY LOW	5	4	4
BKSPS009	BK	11/08/2010	548126	6837048	VERY LOW	15	4	4
BKSPS010	BK	11/08/2010	547897	6837164	VERY LOW	5	4	4
BKSPS011	BK	11/08/2010	547719	6837239	VERY LOW	5	4	4
BKSPS012	BK	11/08/2010	547457	6837291	VERY LOW	5	4	2
BKSPS013	BK	12/08/2010	547487	6836271	LOW	5	4	4
BKSPS014	BK	12/08/2010	547290	6836122	LOW	5	4	2
BKSPS015	BK	12/08/2010	546937	6835971	LOW	SELECT	3	3
BKSPS016	BK	12/08/2010	546596	6835877	LOW	5	4	2
BWSPS001	BW	12/08/2010	547318.64	6836069.4	LOW	5	4	3
BWSPS002	BW	12/08/2010	547279.41	6836021.4	VERY LOW	25	4	3
BWSPS003	BW	12/08/2010	547021.53	6835896.5	VERY LOW	5	4	2
BWSPS004	BW	12/08/2010	546815.95	6835832.4	VERY LOW	5	5	3
BWSPS005	BW	13/08/2010	545865.4	6836776.7	MED	5	4	2
BWSPS006	BW	13/08/2010	546090.43	6837015	MED	15	5	3
BWSPS007	BW	13/08/2010	547161.04	6837373.6	MED	15	4	4
ETSPS001	ET	10/08/2010	546030	6839390	MED	15	4	4
ETSPS002	ET	10/08/2010	546919	6839295	VERY LOW	SELECT	4	3
ETSPS003	ET	10/08/2010	547073	6839293	LOW	15	5	5
ETSPS004	ET	10/08/2010	547222	6839279	LOW	5	4	3
ETSPS005	ET	13/08/2010	545932	6838941	MED	15	5	4
ETSPS006	ET	13/08/2010	545886	6836700	MED	5	5	2
ETSPS007	ET	13/08/2010	546000	6836889	MED	SELECT	5	3
ETSPS008	ET	13/08/2010	546314	6837148	MED	5	5	1
ETSPS009	ET	13/08/2010	546467	6837249	MED	5	5	2
ETSPS010	ET	13/08/2010	546600	6837295	LOW	5	5	5
ETSPS011	ET	13/08/2010	546954	6837377	MED	5	5	3

Appendix 4.2 - Silt Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Turbitiy*	*Depth (cm)*	*Size (1-5)*	*Quality (1-5)*
LJSPS001	LJ	11/08/2010	548846	6836128	LOW	5	3	3
LJSPS002	LJ	11/08/2010	548983	6836265	MED	5	4	4
LJSPS003	LJ	11/08/2010	549134	6836412	MED	5	3	4
LJSPS004	LJ	11/08/2010	549211	6836603	MED	5	3	4
LJSPS005	LJ	11/08/2010	549300	6836746	MED	5	4	4
LJSPS006	LJ	11/08/2010	549348	6836729	HIGH	5	4	4
LJSPS007	LJ	11/08/2010	549211	6836799	HIGH	5	4	4
LJSPS008	LJ	11/08/2010	548982	6836896	HIGH	5	4	4
LJSPS009	LJ	11/08/2010	548765	6836957	MED	5	2	4
LJSPS010	LJ	11/08/2010	548684	6836947	HIGH	5	5	2
LJSPS011	LJ	11/08/2010	548599	6836905	MED	15	4	4
LJSPS012	LJ	11/08/2010	548526	6836833	HIGH	5	4	4
LJSPS013	LJ	11/08/2010	548438	6836776	MED	5	4	4
LJSPS014	LJ	11/08/2010	548350	6836727	MED	5	4	4
LJSPS015	LJ	11/08/2010	548240	6836721	MED	5	4	4
LJSPS016	LJ	11/08/2010	548134	6836710	LOW	5	5	3
LJSPS017	LJ	11/08/2010	548029	6836677	LOW	5	3	4
LJSPS018	LJ	11/08/2010	547966	6836607	LOW	5	3	3
LJSPS019	LJ	11/08/2010	547903	6836550	MED	5	5	5
LJSPS020	LJ	11/08/2010	547804	6836490	MED	5	4	4
LJSPS021	LJ	17/08/2010	547177	6839108	VERY LOW	5	4	4
LJSPS022	LJ	17/08/2010	546990	6839140	VERY LOW	5	5	3
LJSPS023	LJ	18/08/2010	546515	6839618	MED	5	4	4
LJSPS024	LJ	18/08/2010	546505	6839486	VERY LOW	5	4	4
LJSPS025	LJ	20/08/2010	548427	6837245	VERY LOW	5	3	3

Appendix 4.3 - Soil Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Colour - 1*	*Colour - 2*	*Slope - Degrees*	*Depth (cm)*	*Soil Horizon*	*Quality (1-5)*	*Note - 1*	*Note - 2*
AHSPD002	AH	20/08/2010	548564.71	6836927.6	brown	NA	0 - 20	25	B	4	N/A	N/A
AHSPD003	AH	20/08/2010	548564.73	6836922.8	brown	light	0 - 20	95	TILL	3	N/A	N/A
AHSPD004	AH	20/08/2010	548567.34	6836925.2	brown	light	0 - 20	135	TILL	3	N/A	N/A
AHSPD005	AH	20/08/2010	548567.69	6836923.4	brown	NA	0 - 20	15	B	4	N/A	N/A
AHSPD006	AH	20/08/2010	548567.34	6836925.1	brown	NA	0 - 20	45	TILL	3	N/A	N/A
AHSPD007	AH	20/08/2010	548566.7	6836925.7	brown	NA	0 - 20	75	TILL	3	N/A	N/A
AHSPD008	AH	20/08/2010	548370.5	6836772.8	brown	NA	0 - 20	15	TILL	4	N/A	N/A
AHSPD009	AH	20/08/2010	548371.98	6836773.4	brown	NA	0 - 20	45	TILL	4	N/A	N/A
AHSPD010	AH	20/08/2010	548372.5	6836773.4	brown	NA	0 - 20	35	TILL	4	N/A	N/A
AHSPD011	AH	20/08/2010	548373.54	6836771.4	orange	NA	0 - 20	15	TILL	4	ORGANIC	N/A
AHSPD012	AH	21/08/2010	548574.12	6836914.1	brown	rusty	0 - 20	25	B	4	N/A	N/A
AHSPD013	AH	21/08/2010	548574	6836914	brown	NA	0 - 20	85	TILL	3	N/A	N/A
AHSPD014	AH	21/08/2010	548574	6836914	brown	NA	0 - 20	135	TILL	3	N/A	N/A
AHSPD015	AH	21/08/2010	548574	6836914	brown	rusty	0 - 20	15	B	4	N/A	N/A
AHSPD016	AH	21/08/2010	548574	6836914	brown	rusty	0 - 20	45	TILL	3	N/A	N/A
AHSPD017	AH	21/08/2010	548635.79	6836938.6	brown	NA	0 - 20	15	TILL	4	N/A	N/A
AHSPD018	AH	21/08/2010	548636	6836939	brown	NA	0 - 20	45	TILL	3	N/A	N/A
AHSPD019	AH	21/08/2010	548636	6836939	brown	NA	0 - 20	25	TILL	3	N/A	N/A
AHSPD020	AH	21/08/2010	548636	6836939	brown	NA	0 - 20	65	TILL	3	N/A	N/A
AHSPD021	AH	21/08/2010	548636	6836939	brown	NA	0 - 20	105	C	3	N/A	N/A
BWSPD001	BW	21/08/2010	547296	6837321	Brown	brown	0 - 20	25	B	4		
BWSPD002	BW	21/08/2010	547296	6837321	Brown	light	0 - 20	55	B	4		
BWSPD003	BW	21/08/2010	547296	6837321	Brown	brown	0 - 20	125	C	4		
BWSPD004	BW	21/08/2010	547296	6837321	Brown	brown	0 - 20	35	B	4		
BWSPD005	BW	21/08/2010	547296	6837321	Brown	light	0 - 20	55	B	4		
ETSPD001	ET	13/08/2010	545789	6839079	brown	red	20 - 40	15	B	5	N/A	N/A

Appendix 4.3 - Soil Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Colour - 1*	*Colour - 2*	*Slope - Degrees*	*Depth (cm)*	*Soil Horizon*	*Quality (1-5)*	*Note - 1*	*Note - 2*
ETSPD002	ET	16/08/2010	547223	6838486	brown	NA	0 - 20	5	B	5	TALUS	N/A
LJSPD001	LJ	12/08/2010	546798	6839449	brown	rusty	0 - 20	15	C	4	N/A	N/A
LJSPD002	LJ	18/08/2010	546399	6839555	brown	rusty	0 - 20	15	C	4	N/A	N/A
LJSPD003	LJ	18/08/2010	546521	6839442	brown	rusty	0 - 20	15	B	4	N/A	N/A
LJSPD004	LJ	19/08/2010	546993	6838381	brown	rusty	40 - 60	15	C	3	TALUS	ROCKY
LJSPD005	LJ	19/08/2010	547009	6838394	brown	white	40 - 60	15	C	3	TALUS	ROCKY
SPL001 00+00	BK	16/08/2010	547341	6838777	brown	grey	20 - 40	15	B	3	TALUS	LINE_START
SPL001 00+25W	BK	16/08/2010	547318	6838781.25	brown	NA	0 - 20	15	B	3	N/A	N/A
SPL001 00+50W	BK	16/08/2010	547295	6838785.5	brown	NA	0 - 20	15	B	3	TALUS	N/A
SPL001 00+75W	BK	16/08/2010	547272	6838789.75	brown	NA	0 - 20	15	B	3	TALUS	N/A
SPL001 01+00W	BK	16/08/2010	547249	6838794	brown	dark	0 - 20	15	B	2	TALUS	N/A
SPL001 01+25W	BK	16/08/2010	547224.75	6838799.5	brown	NA	0 - 20	15	B	2	TALUS	ORGANIC
SPL001 01+50W	BK	16/08/2010	547200.5	6838805								
SPL001 01+75W	BK	16/08/2010	547176.25	6838810.5	brown	NA	0 - 20	15	B	3	TALUS	N/A
SPL001 02+00W	BK	16/08/2010	547152	6838816	brown	NA	0 - 20	25	B	3	TALUS	LINE_END
SPL002 00+00	BK	18/08/2010	548865	6836980	brown	NA	0 - 20	25	B	3	ROCKY	LINE_START
SPL002 00+25W	BK	18/08/2010	548839.375	6836978.75	brown	NA	0 - 20	25	B	2	ROCKY	N/A
SPL002 00+50W	BK	18/08/2010	548813.75	6836977.5	brown	NA	0 - 20	25	B	2	ROCKY	N/A
SPL002 00+75W	BK	18/08/2010	548788.125	6836976.25	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL002 01+00W	BK	18/08/2010	548762.5	6836975	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL002 01+25W	BK	18/08/2010	548736.875	6836973.75	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL002 01+50W	BK	18/08/2010	548711.25	6836972.5	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL002 01+75W	BK	18/08/2010	548685.625	6836971.25	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL002 02+00W	BK	18/08/2010	548660	6836970	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL002 02+25W	BK	18/08/2010	548633.5	6836970.75	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL002 02+50W	BK	18/08/2010	548607	6836971.5	brown	NA	0 - 20	25	B	4	N/A	N/A

Appendix 4.3 - Soil Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Colour - 1*	*Colour - 2*	*Slope - Degrees*	*Depth (cm)*	*Soil Horizon*	*Quality (1-5)*	*Note - 1*	*Note - 2*
SPL002 02+75W	BK	18/08/2010	548580.5	6836972.25	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL002 03+00W	BK	18/08/2010	548554	6836973	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL002 03+25W	BK	18/08/2010	548527.5	6836973.75	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL002 03+50W	BK	18/08/2010	548501	6836974.5	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL002 03+75W	BK	18/08/2010	548474.5	6836975.25	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL002 04+00W	BK	18/08/2010	548448	6836976	brown	dark	0 - 20	25	B	3	N/A	N/A
SPL002 04+25W	BK	18/08/2010	548424.75	6836976.25	brown	dark	0 - 20	25	B	2	N/A	N/A
SPL002 04+50W	BK	18/08/2010	548401.5	6836976.5	brown	dark	0 - 20	25	B	2	N/A	N/A
SPL002 04+75W	BK	18/08/2010	548378.25	6836976.75	brown	dark	0 - 20	25	B	3	N/A	N/A
SPL002 05+00W	BK	18/08/2010	548355	6836977	brown	dark	0 - 20	25	B	3	N/A	N/A
SPL003 00+00	BK	18/08/2010	548372	6836917	brown	dark	0 - 20	25	B	3	N/A	N/A
SPL003 00+25E	BK	18/08/2010	548400.5	6836918.125	brown	light	0 - 20	25	B	3	N/A	N/A
SPL003 00+50E	BK	18/08/2010	548429	6836919.25	brown	light	0 - 20	25	B	3	N/A	N/A
SPL003 00+75E	BK	18/08/2010	548457.5	6836920.375	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL003 01+00E	BK	18/08/2010	548486	6836921.5	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL003 01+25E	BK	18/08/2010	548514.5	6836922.625	brown	dark	0 - 20	25	B	2	ROCKY	N/A
SPL003 01+50E	BK	18/08/2010	548543	6836923.75	brown	dark	0 - 20	25	B	3	ROCKY	N/A
SPL003 01+75E	BK	18/08/2010	548571.5	6836924.875	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL003 02+00E	BK	18/08/2010	548622.41667	6836926.333333	brown	orange	0 - 20	25	B	3	ROCKY	N/A
SPL003 02+25E	BK	18/08/2010	548644.83333	6836926.666667	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL003 02+50E	BK	18/08/2010	548667.25	6836927	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL003 02+75E	BK	18/08/2010	548689.66667	6836927.333333	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL003 03+00E	BK	18/08/2010	548712.08333	6836927.666667	brown	purple	0 - 20	25	B	3	N/A	N/A
SPL003 03+25E	BK	18/08/2010	548734.5	6836928	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL003 03+50E	BK	18/08/2010	548756.91667	6836928.333333	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL003 03+75E	BK	18/08/2010	548779.33333	6836928.666667	brown	NA	0 - 20	25	B	2	ASH	N/A

Appendix 4.3 - Soil Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Colour - 1*	*Colour - 2*	*Slope - Degrees*	*Depth (cm)*	*Soil Horizon*	*Quality (1-5)*	*Note - 1*	*Note - 2*
SPL003 04+00E	BK	18/08/2010	548801.75	6836929	brown	light	0 - 20	25	B	4	N/A	N/A
SPL003 04+25E	BK	18/08/2010	548824.16667	6836929.333333	brown	light	0 - 20	25	B	3	N/A	N/A
SPL003 04+50E	BK	18/08/2010	548846.58333	6836929.666667	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL003 04+75E	BK	18/08/2010	548869	6836930	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL003 05+00E	BK	18/08/2010	548865	6836877	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL004 00+00	BK	18/08/2010	548839.125	6836877.125	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL004 00+25W	BK	18/08/2010	548813.25	6836877.25	brown	NA	0 - 20	25	B	2	ROCKY	N/A
SPL004 00+50W	BK	18/08/2010	548787.375	6836877.375	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL004 00+75W	BK	18/08/2010	548761.5	6836877.5	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL004 01+00W	BK	18/08/2010	548735.625	6836877.625	brown	NA	0 - 20	25	B	2	ASH	N/A
SPL004 01+25W	BK	18/08/2010	548709.75	6836877.75	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL004 01+50W	BK	18/08/2010	548683.875	6836877.875	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL004 01+75W	BK	18/08/2010	548658	6836878	brown	NA	0 - 20	25	B	3	ASH	N/A
SPL004 02+00W	BK	18/08/2010	548636.44444	6836877.888889	brown	NA	0 - 20	25	B	3	ASH	N/A
SPL004 02+25W	BK	20/08/2010	548614.88889	6836877.777778	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL004 02+50W	BK	20/08/2010	548593.33333	6836877.666667	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL004 02+75W	BK	20/08/2010	548571.77778	6836877.555556	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL004 03+00W	BK	20/08/2010	548550.22222	6836877.444444	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL004 03+25W	BK	20/08/2010	548528.66667	6836877.333333	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL004 03+50W	BK	20/08/2010	548507.11111	6836877.222222	brown	dark	0 - 20	25	B	3	ROCKY	N/A
SPL004 03+75W	BK	20/08/2010	548485.55556	6836877.111111	brown	dark	0 - 20	25	B	3	ROCKY	N/A
SPL004 04+00W	BK	20/08/2010	548464	6836877	brown	dark	0 - 20	25	B	3	ROCKY	N/A
SPL004 04+25W	BK	20/08/2010	548438.5	6836877.5	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL004 04+50W	BK	20/08/2010	548413	6836878	brown	NA	0 - 20	25	B	2	N/A	ASH
SPL004 04+75W	BK	20/08/2010	548387.5	6836878.5	brown	NA	0 - 20	25	B	2	N/A	ASH
SPL004 05+00W	BK	20/08/2010	548362	6836879	brown	NA	0 - 20	25	B	4	N/A	LINE_END

Appendix 4.3 - Soil Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Colour - 1*	*Colour - 2*	*Slope - Degrees*	*Depth (cm)*	*Soil Horizon*	*Quality (1-5)*	*Note - 1*	*Note - 2*
SPL005 00+00	BK	20/08/2010	548368	6836829	brown	NA	0 - 20	25	B	3	ROCKY	LINE_START
SPL005 00+25E	BK	20/08/2010	548392.875	6836828.875	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL005 00+50E	BK	20/08/2010	548417.75	6836828.75	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL005 00+75E	BK	20/08/2010	548442.625	6836828.625	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL005 01+00E	BK	20/08/2010	548467.5	6836828.5	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL005 01+25E	BK	20/08/2010	548492.375	6836828.375	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL005 01+50E	BK	20/08/2010	548517.25	6836828.25	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL005 01+75E	BK	20/08/2010	548542.125	6836828.125	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL005 02+00E	BK	20/08/2010	548567	6836828	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL005 02+25E	BK	20/08/2010	548592.875	6836828	brown	dark	0 - 20	25	B	4	N/A	N/A
SPL005 02+50E	BK	20/08/2010	548618.75	6836828	brown	dark	0 - 20	25	B	3	N/A	N/A
SPL005 02+75E	BK	20/08/2010	548644.625	6836828	brown	dark	0 - 20	25	B	3	N/A	N/A
SPL005 03+00E	BK	20/08/2010	548670.5	6836828	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL005 03+25E	BK	20/08/2010	548696.375	6836828	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL005 03+50E	BK	20/08/2010	548722.25	6836828	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL005 03+75E	BK	20/08/2010	548748.125	6836828	brown	NA	0 - 20	25	B	3	ASH	N/A
SPL005 04+00E	BK	20/08/2010	548774	6836828	brown	NA	0 - 20	25	B	3	ASH	N/A
SPL005 04+25E	BK	20/08/2010	548799.75	6836829	brown	NA	0 - 20	25	B	3	ASH	N/A
SPL005 04+50E	BK	20/08/2010	548825.5	6836830	brown	NA	0 - 20	25	B	3	ORGANIC	N/A
SPL005 04+75E	BK	20/08/2010	548851.25	6836831	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL005 05+00E	BK	20/08/2010	548877	6836832	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL006 00+00	BK	20/08/2010	548767	6836780	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL006 00+25W	BK	20/08/2010	548740.75	6836780.125	brown	dark	0 - 20	25	B	3	N/A	N/A
SPL006 00+50W	BK	20/08/2010	548714.5	6836780.25	brown	dark	0 - 20	25	B	1	ORGANIC	N/A
SPL006 00+75W	BK	20/08/2010	548688.25	6836780.375	brown	orange	0 - 20	25	B	3	N/A	N/A
SPL006 01+00W	BK	20/08/2010	548662	6836780.5	brown	dark	0 - 20	25	B	4	N/A	N/A

Appendix 4.3 - Soil Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Colour - 1*	*Colour - 2*	*Slope - Degrees*	*Depth (cm)*	*Soil Horizon*	*Quality (1-5)*	*Note - 1*	*Note - 2*
SPL006 01+25W	BK	20/08/2010	548635.75	6836780.625	brown	light	0 - 20	25	B	4	ASH	N/A
SPL006 01+50W	BK	20/08/2010	548609.5	6836780.75	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL006 01+75W	BK	20/08/2010	548583.25	6836780.875	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL006 02+00W	BK	20/08/2010	548557	6836781	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL006 02+25W	BK	20/08/2010	548532.875	6836781.75	brown	NA	0 - 20	25	B	2	ROCKY	N/A
SPL006 02+50W	BK	20/08/2010	548508.75	6836782.5	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL006 02+75W	BK	20/08/2010	548484.625	6836783.25	brown	NA	0 - 20	25	B	2	ORGANIC	ASH
SPL006 03+00W	BK	20/08/2010	548460.5	6836784	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL006 03+25W	BK	20/08/2010	548436.375	6836784.75	brown	NA	0 - 20	25	B	2	ROCKY	N/A
SPL006 03+50W	BK	20/08/2010	548412.25	6836785.5	brown	NA	0 - 20	25	B	3	ROCKY	ORGANIC
SPL006 03+75W	BK	20/08/2010	548388.125	6836786.25	brown	dark	0 - 20	25	B	3	ROCKY	ORGANIC
SPL006 04+00W	BK	20/08/2010	548364	6836787	brown	dark	0 - 20	25	B	3	ROCKY	ORGANIC
SPL006 04+25W	BK	20/08/2010	548338.25	6836785.75	brown	dark	0 - 20	25	B	3	ROCKY	ORGANIC
SPL006 04+50W	BK	20/08/2010	548312.5	6836784.5	brown	NA	0 - 20	25	B	3	ROCKY	ORGANIC
SPL006 04+75W	BK	20/08/2010	548286.75	6836783.25	brown	NA	0 - 20	25	B	3	ASH	N/A
SPL006 05+00W	BK	20/08/2010	548261	6836782	brown	dark	0 - 20	25	B	3	N/A	N/A
SPL007 00+00	ET	19/08/2010	546680	6837253	grey	NA	0 - 20	25	B	3	LINE_START	ROCKY
SPL007 00+25W	ET	19/08/2010	546653.875	6837252.875	grey	NA	0 - 20	25	B	2	ORGANIC	ROCKY
SPL007 00+50W	ET	19/08/2010	546627.75	6837252.75	grey	NA	0 - 20	25	B	2	ORGANIC	ROCKY
SPL007 00+75W	ET	19/08/2010	546601.625	6837252.625	grey	NA	0 - 20	25	B	3	ORGANIC	ROCKY
SPL007 01+00W	ET	19/08/2010	546575.5	6837252.5	grey	NA	0 - 20	25	B	3	N/A	ROCKY
SPL007 01+25W	ET	19/08/2010	546549.375	6837252.375	grey	NA	0 - 20	25	B	1	N/A	ROCKY
SPL007 01+50W	ET	19/08/2010	546523.25	6837252.25	grey	NA	0 - 20	25	B	3	N/A	N/A
SPL007 01+75W	ET	19/08/2010	546497.125	6837252.125	grey	NA	0 - 20	25	B	1	ROCKY	ORGANIC
SPL007 02+00W	ET	19/08/2010	546471	6837252	grey	NA	0 - 20	25	B	3	ROCKY	ORGANIC
SPL007 02+25W	ET	19/08/2010	546446.33333	6837251.5	grey	NA	0 - 20	25	B	3	ROCKY	N/A

Appendix 4.3 - Soil Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Colour - 1*	*Colour - 2*	*Slope - Degrees*	*Depth (cm)*	*Soil Horizon*	*Quality (1-5)*	*Note - 1*	*Note - 2*
SPL007 02+50W	ET	19/08/2010	546421.66667	6837251	grey	NA	0 - 20	25	B	3	ROCKY	N/A
SPL007 02+75W	ET	19/08/2010	546397	6837250.5	grey	NA	0 - 20	25	B	3	N/A	N/A
SPL007 03+00W	ET	19/08/2010	546372.33333	6837250	grey	NA	0 - 20	25	B	3	N/A	N/A
SPL007 03+25W	ET	19/08/2010	546347.66667	6837249.5	grey	NA	0 - 20	25	B	3	N/A	N/A
SPL007 03+50W	ET	19/08/2010	546323	6837249	grey	NA	0 - 20	25	B	3	LINE_END	TALUS
SPL008 00+00	ET	19/08/2010	546322	6837349	grey	NA	0 - 20	25	B	3	LINE_START	TALUS
SPL008 00+25E	ET	19/08/2010	546347.25	6837350.125	grey	NA	0 - 20	25	B	3	N/A	TALUS
SPL008 00+50E	ET	19/08/2010	546372.5	6837351.25	grey	NA	0 - 20	25	B	2	N/A	TALUS
SPL008 00+75E	ET	19/08/2010	546397.75	6837352.375	grey	NA	0 - 20	25	B	3	N/A	TALUS
SPL008 01+00E	ET	19/08/2010	546423	6837353.5	grey	brown	0 - 20	25	B	3	N/A	TALUS
SPL008 01+25E	ET	19/08/2010	546448.25	6837354.625	grey	brown	0 - 20	25	B	2	N/A	TALUS
SPL008 01+50E	ET	19/08/2010	546473.5	6837355.75	grey	brown	0 - 20	25	B	2	ORGANIC	TALUS
SPL008 01+75E	ET	19/08/2010	546498.75	6837356.875	grey	brown	0 - 20	25	B	2	N/A	TALUS
SPL008 02+00E	ET	19/08/2010	546524	6837358	grey	brown	0 - 20	25	B	3	N/A	TALUS
SPL008 02+25E	ET	19/08/2010	546550.5	6837357	grey	brown	0 - 20	25	B	3	N/A	TALUS
SPL008 02+50E	ET	19/08/2010	546577	6837356	grey	brown	0 - 20	25	B	4	N/A	N/A
SPL008 02+75E	ET	19/08/2010	546603.5	6837355	grey	brown	0 - 20	25	B	3	ORGANIC	N/A
SPL008 03+00E	ET	19/08/2010	546630	6837354	brown	NA	0 - 20	25	B	4	ORGANIC	N/A
SPL008 03+25E	ET	19/08/2010	546656.5	6837353	brown	NA	0 - 20	25	B	4	ROCKY	N/A
SPL008 03+50E	ET	19/08/2010	546683	6837352	brown	NA	0 - 20	25	B	4	ROCKY	LINE_END
SPL009 00+00	ET	19/08/2010	546948	6837274	grey	NA	0 - 20	25	B	2	ORGANIC	LINE_START
SPL009 00+25E	ET	19/08/2010	546975.2	6837275.4	grey	NA	0 - 20	25	B	2	ORGANIC	N/A
SPL009 00+50E	ET	19/08/2010	547002.4	6837276.8								
SPL009 00+75E	ET	19/08/2010	547029.6	6837278.2	grey	NA	0 - 20	25	B	2	ORGANIC	N/A
SPL009 01+00E	ET	19/08/2010	547056.8	6837279.6	grey	NA	0 - 20	25	B	2	ROCKY	N/A
SPL009 01+25E	ET	19/08/2010	547084	6837281	grey	NA	0 - 20	25	B	2	ROCKY	N/A

Appendix 4.3 - Soil Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Colour - 1*	*Colour - 2*	*Slope - Degrees*	*Depth (cm)*	*Soil Horizon*	*Quality (1-5)*	*Note - 1*	*Note - 2*
SPL009 01+50E	ET	19/08/2010	547111.2	6837282.4	grey	NA	0 - 20	25	B	2	ROCKY	N/A
SPL009 01+75E	ET	19/08/2010	547138.4	6837283.8	grey	NA	0 - 20	25	B	2	ROCKY	N/A
SPL009 02+00E	ET	19/08/2010	547165.6	6837285.2	grey	NA	0 - 20	25	B	2	ORGANIC	ROCKY
SPL009 02+25E	ET	19/08/2010	547192.8	6837286.6	grey	NA	0 - 20	25	B	2	ORGANIC	ROCKY
SPL009 02+50E	ET	19/08/2010	547220	6837288	grey	NA	0 - 20	25	B	2	ORGANIC	LINE_END
SPL010 00+00	ET	19/08/2010	547561	6837345	brown	NA	0 - 20	25	B	3	ROCKY	LINE_START
SPL010 00+25W	ET	19/08/2010	547536.875	6837345.25	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL010 00+50W	ET	19/08/2010	547512.75	6837345.5	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL010 00+75W	ET	19/08/2010	547488.625	6837345.75	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL010 01+00W	ET	19/08/2010	547464.5	6837346	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL010 01+25W	ET	19/08/2010	547440.375	6837346.25	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL010 01+50W	ET	19/08/2010	547416.25	6837346.5	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL010 01+75W	ET	19/08/2010	547392.125	6837346.75	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL010 02+00W	ET	19/08/2010	547368	6837347	brown	NA	0 - 20	25	B	4	N/A	N/A
SPL010 02+25W	ET	19/08/2010	547342.25	6837345.25	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL010 02+50W	ET	19/08/2010	547316.5	6837343.5	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL010 02+75W	ET	19/08/2010	547290.75	6837341.75	brown	NA	0 - 20	25	B	3	N/A	N/A
SPL010 03+00W	ET	19/08/2010	547265	6837340	brown	NA	0 - 20	25	A	3	N/A	N/A
SPL010 03+25W	ET	19/08/2010	547239.25	6837338.25	brown	NA	0 - 20	25	B	3	ORGANIC	N/A
SPL010 03+50W	ET	19/08/2010	547213.5	6837336.5	brown	NA	0 - 20	25	B	3	ORGANIC	N/A
SPL010 03+75W	ET	19/08/2010	547187.75	6837334.75	brown	NA	0 - 20	25	B	3	ORGANIC	N/A
SPL010 04+00W	ET	19/08/2010	547162	6837333	grey	NA	0 - 20	25	B	3	ORGANIC	LINE_END
SPL011 00+00	ET	21/08/2010	547020	6837396	brown	NA	0 - 20	25	B	3	LINE_START	ROCKY
SPL011 00+25E	ET	21/08/2010	547045.875	6837396.25	brown	NA	0 - 20	25	B	3	ORGANIC	ROCKY
SPL011 00+50E	ET	21/08/2010	547071.75	6837396.5	brown	NA	0 - 20	35	B	2	ORGANIC	ROCKY
SPL011 00+75E	ET	21/08/2010	547097.625	6837396.75	brown	NA	0 - 20	35	B	2	ASH	ROCKY

Appendix 4.3 - Soil Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Colour - 1*	*Colour - 2*	*Slope - Degrees*	*Depth (cm)*	*Soil Horizon*	*Quality (1-5)*	*Note - 1*	*Note - 2*
SPL011 01+00E	ET	21/08/2010	547123.5	6837397	brown	NA	0 - 20	35	B	2	ASH	ROCKY
SPL011 01+25E	ET	21/08/2010	547149.375	6837397.25	brown	NA	0 - 20	35	B	3	N/A	ROCKY
SPL011 01+50E	ET	21/08/2010	547175.25	6837397.5	brown	NA	0 - 20	25	B	4	N/A	ROCKY
SPL011 01+75E	ET	21/08/2010	547201.125	6837397.75	brown	NA	0 - 20	25	B	3	ORGANIC	N/A
SPL011 02+00E	ET	21/08/2010	547227	6837398	brown	NA	0 - 20	25	B	3	ORGANIC	N/A
SPL011 02+25E	ET	21/08/2010	547252.875	6837399	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL011 02+50E	ET	21/08/2010	547278.75	6837400	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL011 02+75E	ET	21/08/2010	547304.625	6837401	brown	NA	0 - 20	25	B	3	ASH	N/A
SPL011 03+00E	ET	21/08/2010	547330.5	6837402	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPL011 03+25E	ET	21/08/2010	547356.375	6837403	brown	NA	0 - 20	25	B	3	ORGANIC	N/A
SPL011 03+50E	ET	21/08/2010	547382.25	6837404	brown	NA	0 - 20	25	B	3	ORGANIC	N/A
SPL011 03+75E	ET	21/08/2010	547408.125	6837405	brown	NA	0 - 20	15	B	4	ROCKY	N/A
SPL011 04+00E	ET	21/08/2010	547434	6837406	brown	NA	0 - 20	15	B	4	ROCKY	N/A
SPL011 04+25E	ET	21/08/2010	547461.33333	6837404.833333	brown	NA	0 - 20	15	B	2	ROCKY	N/A
SPL011 04+50E	ET	21/08/2010	547488.66667	6837403.666667	brown	NA	0 - 20	15	B	3	ROCKY	N/A
SPL011 04+75E	ET	21/08/2010	547516	6837402.5	brown	NA	0 - 20	15	B	3	ROCKY	N/A
SPL011 05+00E	ET	21/08/2010	547543.33333	6837401.333333	brown	NA	0 - 20	15	B	3	ROCKY	N/A
SPL011 05+25E	ET	21/08/2010	547570.66667	6837400.166667	brown	NA	0 - 20	15	B	1	ORGANIC	N/A
SPL011 05+50E	ET	21/08/2010	547598	6837399	brown	NA	0 - 20	15	B	2	ROCKY	LINE_END
SPML002 00+00	ET	18/08/2010	548865	6836980	brown	NA	0 - 20	5	B	3	ORGANIC	LINE_START
SPML002 00+25W	ET	18/08/2010	548839.375	6836978.75	brown	NA	0 - 20	5	B	3	ROCKY	N/A
SPML002 00+50W	ET	18/08/2010	548813.75	6836977.5	brown	light	0 - 20	5	B	2	ROCKY	N/A
SPML002 00+75W	ET	18/08/2010	548788.125	6836976.25	brown	light	0 - 20	25	B	3	ROCKY	N/A
SPML002 01+00W	ET	18/08/2010	548762.5	6836975	brown	light	0 - 20	25	B	3	ROCKY	N/A
SPML002 01+25W	ET	18/08/2010	548736.875	6836973.75	brown	light	0 - 20	25	B	3	ROCKY	N/A
SPML002 01+50W	ET	18/08/2010	548711.25	6836972.5	brown	light	0 - 20	25	B	4	TALUS	N/A

Appendix 4.3 - Soil Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Colour - 1*	*Colour - 2*	*Slope - Degrees*	*Depth (cm)*	*Soil Horizon*	*Quality (1-5)*	*Note - 1*	*Note - 2*
SPML002 01+75W	ET	18/08/2010	548685.625	6836971.25	brown	light	0 - 20	25	B	4	N/A	N/A
SPML002 02+00W	ET	18/08/2010	548660	6836970	brown	light	0 - 20	25	B	4	N/A	N/A
SPML002 02+25W	ET	18/08/2010	548633.5	6836970.75	brown	light	0 - 20	25	B	4	N/A	N/A
SPML002 02+50W	ET	18/08/2010	548607	6836971.5	brown	light	0 - 20	25	B	4	N/A	N/A
SPML002 02+75W	ET	18/08/2010	548580.5	6836972.25	brown	light	0 - 20	25	B	4	N/A	N/A
SPML002 03+00W	ET	18/08/2010	548554	6836973	brown	light	0 - 20	25	B	4	N/A	N/A
SPML002 03+25W	ET	18/08/2010	548527.5	6836973.75	brown	light	0 - 20	25	B	4	N/A	N/A
SPML002 03+50W	ET	18/08/2010	548501	6836974.5	brown	light	0 - 20	25	B	3	N/A	N/A
SPML002 03+75W	ET	18/08/2010	548474.5	6836975.25	brown	light	0 - 20	25	B	3	N/A	N/A
SPML002 04+00W	ET	18/08/2010	548448	6836976	brown	dark	0 - 20	25	B	3	N/A	N/A
SPML002 04+25W	ET	18/08/2010	548424.75	6836976.25	brown	dark	0 - 20	25	B	3	N/A	N/A
SPML002 04+50W	ET	18/08/2010	548401.5	6836976.5	brown	dark	0 - 20	25	B	1	ROCKY	N/A
SPML002 04+75W	ET	18/08/2010	548378.25	6836976.75	brown	dark	0 - 20	25	B	3	N/A	N/A
SPML002 05+00W	ET	18/08/2010	548355	6836977	brown	dark	0 - 20	25	B	3	LINE_END	N/A
SPML003 00+00	ET	18/08/2010	548372	6836917	brown	dark	0 - 20	25	B	3	LINE_START	N/A
SPML003 00+25E	ET	18/08/2010	548400.5	6836918.125	brown	dark	0 - 20	25	B	3	N/A	N/A
SPML003 00+50E	ET	18/08/2010	548429	6836919.25	brown	dark	0 - 20	25	B	2	ORGANIC	N/A
SPML003 00+75E	ET	18/08/2010	548457.5	6836920.375	brown	dark	0 - 20	25	B	3	ORGANIC	N/A
SPML003 01+00E	ET	18/08/2010	548486	6836921.5	brown	dark	0 - 20	25	B	3	ORGANIC	N/A
SPML003 01+25E	ET	18/08/2010	548514.5	6836922.625	brown	dark	0 - 20	25	B	3	ORGANIC	N/A
SPML003 01+50E	ET	18/08/2010	548543	6836923.75	brown	dark	0 - 20	25	B	3	ORGANIC	N/A
SPML003 01+75E	ET	18/08/2010	548571.5	6836924.875	brown	dark	0 - 20	25	B	2	ROCKY	N/A
SPML003 02+00E	ET	18/08/2010	548622.41667	6836926.333333	brown	orange	0 - 20	25	B	4	N/A	N/A
SPML003 02+25E	ET	18/08/2010	548644.83333	6836926.666667	brown	orange	0 - 20	25	B	4	N/A	N/A
SPML003 02+50E	ET	18/08/2010	548667.25	6836927	brown	orange	0 - 20	25	B	4	N/A	N/A
SPML003 02+75E	ET	18/08/2010	548689.66667	6836927.333333	brown	NA	0 - 20	25	B	3	N/A	N/A

Appendix 4.3 - Soil Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Colour - 1*	*Colour - 2*	*Slope - Degrees*	*Depth (cm)*	*Soil Horizon*	*Quality (1-5)*	*Note - 1*	*Note - 2*
SPML003 03+00E	ET	18/08/2010	548712.08333	6836927.666667	brown	NA	0 - 20	25	B	3	ORGANIC	N/A
SPML003 03+25E	ET	18/08/2010	548734.5	6836928	brown	NA	0 - 20	25	B	4	N/A	N/A
SPML003 03+50E	ET	18/08/2010	548756.91667	6836928.333333	brown	NA	20 - 40	25	B	4	N/A	N/A
SPML003 03+75E	ET	18/08/2010	548779.33333	6836928.666667	brown	NA	20 - 40	25	B	3	ASH	N/A
SPML003 04+00E	ET	18/08/2010	548801.75	6836929	brown	NA	20 - 40	25	B	4	N/A	N/A
SPML003 04+25E	ET	18/08/2010	548824.16667	6836929.333333	brown	NA	20 - 40	25	B	4	N/A	N/A
SPML003 04+50E	ET	18/08/2010	548846.58333	6836929.666667	brown	NA	20 - 40	25	B	4	N/A	N/A
SPML003 04+75E	ET	18/08/2010	548869	6836930	brown	NA	20 - 40	25	B	4	N/A	N/A
SPML003 05+00E	ET	18/08/2010	548865	6836877								
SPML004 00+00	ET	18/08/2010	548839.125	6836877.125	brown	NA	20 - 40	25	B	4	N/A	LINE_START
SPML004 00+25W	ET	18/08/2010	548813.25	6836877.25	brown	NA	20 - 40	25	B	3	N/A	ROCKY
SPML004 00+50W	ET	18/08/2010	548787.375	6836877.375	brown	NA	20 - 40	25	B	4	N/A	ROCKY
SPML004 00+75W	ET	18/08/2010	548761.5	6836877.5	brown	NA	20 - 40	25	B	3	N/A	ROCKY
SPML004 01+00W	ET	18/08/2010	548735.625	6836877.625	brown	NA	0 - 20	25	B	4	N/A	ROCKY
SPML004 01+25W	ET	18/08/2010	548709.75	6836877.75	brown	NA	0 - 20	25	B	4	N/A	ROCKY
SPML004 01+50W	ET	18/08/2010	548683.875	6836877.875	brown	NA	0 - 20	25	B	2	ORGANIC	ROCKY
SPML004 01+75W	ET	18/08/2010	548658	6836878	brown	NA	0 - 20	25	B	3	ORGANIC	ROCKY
SPML004 02+00W	ET	18/08/2010	548636.44444	6836877.888889	brown	NA	0 - 20	25	B	3	ORGANIC	ROCKY
SPML004 02+25W	ET	20/08/2010	548614.88889	6836877.777778	brown	NA	0 - 20	25	B	3	N/A	N/A
SPML004 02+50W	ET	20/08/2010	548593.33333	6836877.666667	brown	NA	0 - 20	25	B	3	N/A	N/A
SPML004 02+75W	ET	20/08/2010	548571.77778	6836877.555556	brown	NA	0 - 20	25	B	4	N/A	N/A
SPML004 03+00W	ET	20/08/2010	548550.22222	6836877.444444	brown	NA	0 - 20	25	B	4	N/A	N/A
SPML004 03+25W	ET	20/08/2010	548528.66667	6836877.333333	brown	NA	0 - 20	25	B	3	N/A	N/A
SPML004 03+50W	ET	20/08/2010	548507.11111	6836877.222222	brown	NA	0 - 20	25	B	2	ASH	ROCKY
SPML004 03+75W	ET	20/08/2010	548485.55556	6836877.111111	brown	NA	0 - 20	25	B	3	ASH	ROCKY
SPML004 04+00W	ET	20/08/2010	548464	6836877	brown	NA	0 - 20	25	B	3	N/A	ROCKY

Appendix 4.3 - Soil Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Colour - 1*	*Colour - 2*	*Slope - Degrees*	*Depth (cm)*	*Soil Horizon*	*Quality (1-5)*	*Note - 1*	*Note - 2*
SPML004 04+25W	ET	20/08/2010	548438.5	6836877.5	brown	NA	0 - 20	35	B	3	N/A	ROCKY
SPML004 04+50W	ET	20/08/2010	548413	6836878	brown	NA	0 - 20	35	B	3	N/A	ROCKY
SPML004 04+75W	ET	20/08/2010	548387.5	6836878.5	brown	NA	0 - 20	35	B	3	5M PAST	ROCKY
SPML004 05+00W	ET	20/08/2010	548362	6836879	brown	NA	0 - 20	35	B	3	LINE_END	ROCKY
SPML005 00+00	ET	20/08/2010	548368	6836829	brown	NA	0 - 20	35	B	4	LINE_START	N/A
SPML005 00+25E	ET	20/08/2010	548392.875	6836828.875	brown	NA	0 - 20	35	B	4	LINE_START	N/A
SPML005 00+50E	ET	20/08/2010	548417.75	6836828.75	brown	NA	0 - 20	35	B	3	N/A	N/A
SPML005 00+75E	ET	20/08/2010	548442.625	6836828.625	brown	NA	0 - 20	35	B	3	ASH	N/A
SPML005 01+00E	ET	20/08/2010	548467.5	6836828.5	brown	NA	20 - 40	35	B	3	N/A	ROCKY
SPML005 01+25E	ET	20/08/2010	548492.375	6836828.375	brown	NA	20 - 40	35	B	3	N/A	ROCKY
SPML005 01+50E	ET	20/08/2010	548517.25	6836828.25	brown	NA	20 - 40	35	B	3	N/A	ROCKY
SPML005 01+75E	ET	20/08/2010	548542.125	6836828.125	brown	NA	20 - 40	35	B	3	N/A	ROCKY
SPML005 02+00E	ET	20/08/2010	548567	6836828	brown	NA	0 - 20	35	B	3	N/A	ROCKY
SPML005 02+25E	ET	20/08/2010	548592.875	6836828	brown	NA	0 - 20	35	B	3	N/A	ROCKY
SPML005 02+50E	ET	20/08/2010	548618.75	6836828	brown	NA	0 - 20	35	B	3	N/A	ROCKY
SPML005 02+75E	ET	20/08/2010	548644.625	6836828	brown	NA	0 - 20	35	B	3	N/A	ROCKY
SPML005 03+00E	ET	20/08/2010	548670.5	6836828	brown	NA	0 - 20	35	B	3	N/A	ROCKY
SPML005 03+25E	ET	20/08/2010	548696.375	6836828	brown	NA	0 - 20	35	B	3	N/A	ROCKY
SPML005 03+50E	ET	20/08/2010	548722.25	6836828	brown	NA	0 - 20	35	B	3	N/A	ROCKY
SPML005 03+75E	ET	20/08/2010	548748.125	6836828	brown	NA	0 - 20	35	B	3	N/A	ROCKY
SPML005 04+00E	ET	20/08/2010	548774	6836828	brown	NA	0 - 20	35	B	3	N/A	ROCKY
SPML005 04+25E	ET	20/08/2010	548799.75	6836829	brown	NA	0 - 20	35	B	3	N/A	ROCKY
SPML005 04+50E	ET	20/08/2010	548825.5	6836830	brown	NA	0 - 20	35	B	3	N/A	ROCKY
SPML005 04+75E	ET	20/08/2010	548851.25	6836831	brown	NA	0 - 20	35	B	3	ORGANIC	N/A
SPML005 05+00E	ET	20/08/2010	548877	6836832	brown	NA	0 - 20	35	B	3	ORGANIC	LINE_END
SPML006 00+00	ET	20/08/2010	548767	6836780	brown	NA	0 - 20	35	B	3	ORGANIC	LINE_START

Appendix 4.3 - Soil Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Colour - 1*	*Colour - 2*	*Slope - Degrees*	*Depth (cm)*	*Soil Horizon*	*Quality (1-5)*	*Note - 1*	*Note - 2*
SPML006 00+25W	ET	20/08/2010	548740.75	6836780.125	brown	dark	0 - 20	35	B	3	ORGANIC	N/A
SPML006 00+50W	ET	20/08/2010	548714.5	6836780.25	brown	dark	0 - 20	55	B	3	ORGANIC	ROCKY
SPML006 00+75W	ET	20/08/2010	548688.25	6836780.375	orange	NA	0 - 20	25	B	3	ORGANIC	ROCKY
SPML006 01+00W	ET	20/08/2010	548662	6836780.5	dark	NA	0 - 20	25	B	3	ORGANIC	N/A
SPML006 01+25W	ET	20/08/2010	548635.75	6836780.625	dark	NA	0 - 20	25	B	2	ORGANIC	ASH
SPML006 01+50W	ET	20/08/2010	548609.5	6836780.75	brown	rusty	0 - 20	25	B	3	ORGANIC	ROCKY
SPML006 01+75W	ET	20/08/2010	548583.25	6836780.875	brown	rusty	0 - 20	25	B	4	N/A	ROCKY
SPML006 02+00W	ET	20/08/2010	548557	6836781	brown	rusty	0 - 20	15	B	4	N/A	ROCKY
SPML006 02+25W	ET	20/08/2010	548532.875	6836781.75	brown	rusty	0 - 20	15	B	2	N/A	ROCKY
SPML006 02+50W	ET	20/08/2010	548508.75	6836782.5	brown	NA	0 - 20	15	B	3	N/A	ROCKY
SPML006 02+75W	ET	20/08/2010	548484.625	6836783.25	brown	NA	0 - 20	25	B	3	N/A	ROCKY
SPML006 03+00W	ET	20/08/2010	548460.5	6836784	brown	NA	0 - 20	25	B	3	N/A	ROCKY
SPML006 03+25W	ET	20/08/2010	548436.375	6836784.75	brown	NA	20 - 40	5	B	3	TALUS	ROCKY
SPML006 03+50W	ET	20/08/2010	548412.25	6836785.5	brown	NA	20 - 40	5	B	3	TALUS	ROCKY
SPML006 03+75W	ET	20/08/2010	548388.125	6836786.25	brown	NA	20 - 40	5	B	3	TALUS	ROCKY
SPML006 04+00W	ET	20/08/2010	548364	6836787	brown	NA	20 - 40	5	B	2	TALUS	ROCKY
SPML006 04+25W	ET	20/08/2010	548338.25	6836785.75	brown	NA	0 - 20	25	B	2	ORGANIC	ROCKY
SPML006 04+50W	ET	20/08/2010	548312.5	6836784.5	brown	NA	0 - 20	25	B	3	ORGANIC	ROCKY
SPML006 04+75W	ET	20/08/2010	548286.75	6836783.25	brown	NA	0 - 20	25	B	3	ASH	ROCKY
SPML006 05+00W	ET	20/08/2010	548261	6836782	brown	NA	0 - 20	25	B	3	LINE_END	ROCKY
SPML007 00+00	BK	19/08/2010	546680	6837253	brown	NA	0 - 20	25	B	2	LINE_START	TALUS
SPML007 00+25W	BK	19/08/2010	546653.875	6837252.875	brown	NA	0 - 20	25	B	2	ORGANIC	TALUS
SPML007 00+50W	BK	19/08/2010	546627.75	6837252.75	brown	NA	0 - 20	25	B	2	ORGANIC	N/A
SPML007 00+75W	BK	19/08/2010	546601.625	6837252.625	brown	NA	0 - 20	25	B	2	ORGANIC	N/A
SPML007 01+00W	BK	19/08/2010	546575.5	6837252.5	brown	NA	0 - 20	25	B	1	ORGANIC	TALUS
SPML007 01+25W	BK	19/08/2010	546549.375	6837252.375	brown	NA	0 - 20	25	B	1	ORGANIC	TALUS

Appendix 4.3 - Soil Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Colour - 1*	*Colour - 2*	*Slope - Degrees*	*Depth (cm)*	*Soil Horizon*	*Quality (1-5)*	*Note - 1*	*Note - 2*
SPML007 01+50W	BK	19/08/2010	546523.25	6837252.25	brown	NA	0 - 20	25	B	2	ORGANIC	TALUS
SPML007 01+75W	BK	19/08/2010	546497.125	6837252.125	brown	NA	0 - 20	25	B	2	N/A	TALUS
SPML007 02+00W	BK	19/08/2010	546471	6837252	brown	NA	0 - 20	25	B	3	N/A	TALUS
SPML007 02+25W	BK	19/08/2010	546446.33333	6837251.5	brown	NA	0 - 20	25	B	3	N/A	TALUS
SPML007 02+50W	BK	19/08/2010	546421.66667	6837251	brown	NA	0 - 20	25	B	3	N/A	TALUS
SPML007 02+75W	BK	19/08/2010	546397	6837250.5	brown	NA	0 - 20	25	B	3	N/A	N/A
SPML007 03+00W	BK	19/08/2010	546372.33333	6837250	brown	NA	0 - 20	25	B	3	N/A	N/A
SPML007 03+25W	BK	19/08/2010	546347.66667	6837249.5	brown	NA	0 - 20	25	B	3	N/A	N/A
SPML007 03+50W	BK	19/08/2010	546323	6837249	brown	NA	0 - 20	25	B	2	ORGANIC	TALUS
SPML008 00+00	BK	19/08/2010	546322	6837349	brown	NA	0 - 20	25	B	3	N/A	TALUS
SPML008 00+25E	BK	19/08/2010	546347.25	6837350.125	brown	NA	0 - 20	25	B	1	ORGANIC	TALUS
SPML008 00+50E	BK	19/08/2010	546372.5	6837351.25	brown	NA	0 - 20	25	B	3	ORGANIC	TALUS
SPML008 00+75E	BK	19/08/2010	546397.75	6837352.375	brown	NA	0 - 20	25	B	4	N/A	TALUS
SPML008 01+00E	BK	19/08/2010	546423	6837353.5	brown	NA	0 - 20	25	B	3	N/A	TALUS
SPML008 01+25E	BK	19/08/2010	546448.25	6837354.625	brown	NA	0 - 20	25	B	2	N/A	TALUS
SPML008 01+50E	BK	19/08/2010	546473.5	6837355.75	brown	NA	0 - 20	25	B	1	N/A	ORGANIC
SPML008 01+75E	BK	19/08/2010	546498.75	6837356.875	brown	NA	0 - 20	25	B	4	N/A	N/A
SPML008 02+00E	BK	19/08/2010	546524	6837358	brown	NA	0 - 20	25	B	3	N/A	N/A
SPML008 02+25E	BK	19/08/2010	546550.5	6837357	brown	NA	0 - 20	25	B	3	N/A	N/A
SPML008 02+50E	BK	19/08/2010	546577	6837356	brown	NA	0 - 20	25	B	4	N/A	N/A
SPML008 02+75E	BK	19/08/2010	546603.5	6837355	brown	NA	0 - 20	25	B	4	N/A	N/A
SPML008 03+00E	BK	19/08/2010	546630	6837354	brown	NA	0 - 20	25	B	4	N/A	N/A
SPML008 03+25E	BK	19/08/2010	546656.5	6837353	brown	NA	0 - 20	25	B	4	N/A	N/A
SPML008 03+50E	BK	19/08/2010	546683	6837352	brown	NA	0 - 20	25	B	4	N/A	N/A
SPML009 00+00	BK	19/08/2010	546948	6837274	brown	NA	0 - 20	25	B	2	ORGANIC	N/A
SPML009 00+25E	BK	19/08/2010	546975.2	6837275.4	brown	NA	0 - 20	25	B	3	ROCKY	N/A

Appendix 4.3 - Soil Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Colour - 1*	*Colour - 2*	*Slope - Degrees*	*Depth (cm)*	*Soil Horizon*	*Quality (1-5)*	*Note - 1*	*Note - 2*
SPML009 00+50E	BK	19/08/2010	547002.4	6837276.8	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPML009 00+75E	BK	19/08/2010	547029.6	6837278.2	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPML009 01+00E	BK	19/08/2010	547056.8	6837279.6	brown	NA	0 - 20	25	B	2	ROCKY	ORGANIC
SPML009 01+25E	BK	19/08/2010	547084	6837281	brown	NA	0 - 20	25	B	2	ROCKY	ORGANIC
SPML009 01+50E	BK	19/08/2010	547111.2	6837282.4	brown	NA	0 - 20	25	B	2	ROCKY	ORGANIC
SPML009 01+75E	BK	19/08/2010	547138.4	6837283.8	brown	NA	0 - 20	25	B	2	ROCKY	ORGANIC
SPML009 02+00E	BK	19/08/2010	547165.6	6837285.2	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPML009 02+25E	BK	19/08/2010	547192.8	6837286.6	brown	NA	0 - 20	25	B	3	N/A	ORGANIC
SPML009 02+50E	BK	19/08/2010	547220	6837288	brown	NA	0 - 20	25	B	3	LINE_END	ORGANIC
SPML010 00+00	BK	19/08/2010	547561	6837345	brown	NA	0 - 20	25	B	2	ORGANIC	ROCKY
SPML010 00+25W	BK	19/08/2010	547536.875	6837345.25	brown	NA	0 - 20	25	B	1	ORGANIC	ROCKY
SPML010 00+50W	BK	19/08/2010	547512.75	6837345.5	brown	NA	0 - 20	25	B	2	ORGANIC	ROCKY
SPML010 00+75W	BK	19/08/2010	547488.625	6837345.75	brown	NA	0 - 20	25	B	2	ORGANIC	ROCKY
SPML010 01+00W	BK	19/08/2010	547464.5	6837346	brown	NA	0 - 20	25	B	4	ORGANIC	N/A
SPML010 01+25W	BK	19/08/2010	547440.375	6837346.25	brown	NA	0 - 20	25	B	4	ORGANIC	N/A
SPML010 01+50W	BK	19/08/2010	547416.25	6837346.5	brown	NA	0 - 20	25	B	4	ORGANIC	N/A
SPML010 01+75W	BK	19/08/2010	547392.125	6837346.75	brown	NA	0 - 20	25	B	4	ORGANIC	N/A
SPML010 02+00W	BK	19/08/2010	547368	6837347	brown	NA	0 - 20	25	B	4	ORGANIC	N/A
SPML010 02+25W	BK	19/08/2010	547342.25	6837345.25	brown	NA	0 - 20	25	B	3	ORGANIC	ROCKY
SPML010 02+50W	BK	19/08/2010	547316.5	6837343.5	brown	NA	0 - 20	25	B	3	ORGANIC	ROCKY
SPML010 02+75W	BK	19/08/2010	547290.75	6837341.75	brown	NA	0 - 20	25	B	3	ORGANIC	N/A
SPML010 03+00W	BK	19/08/2010	547265	6837340	brown	NA	0 - 20	25	A	3	ORGANIC	N/A
SPML010 03+25W	BK	19/08/2010	547239.25	6837338.25	brown	NA	0 - 20	25	B	3	ORGANIC	N/A
SPML010 03+50W	BK	19/08/2010	547213.5	6837336.5	brown	NA	0 - 20	25	B	3	ORGANIC	N/A
SPML010 03+75W	BK	19/08/2010	547187.75	6837334.75	brown	NA	0 - 20	25	B	2	ROCKY	N/A
SPML010 04+00W	BK	19/08/2010	547162	6837333	brown	NA	0 - 20	25	B	2	ROCKY	N/A

Appendix 4.3 - Soil Sample Locations and Descriptions

Sample Number	*Sampler*	*Date (m/d/y)*	*UTM - East*	*UTM - North*	*Colour - 1*	*Colour - 2*	*Slope - Degrees*	*Depth (cm)*	*Soil Horizon*	*Quality (1-5)*	*Note - 1*	*Note - 2*
SPML011 00+00	BK	21/08/2010	547020	6837396	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPML011 00+25E	BK	21/08/2010	547045.875	6837396.25	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPML011 00+50E	BK	21/08/2010	547071.75	6837396.5	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPML011 00+75E	BK	21/08/2010	547097.625	6837396.75	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPML011 01+00E	BK	21/08/2010	547123.5	6837397	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPML011 01+25E	BK	21/08/2010	547149.375	6837397.25	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPML011 01+50E	BK	21/08/2010	547175.25	6837397.5	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPML011 01+75E	BK	21/08/2010	547201.125	6837397.75	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPML011 02+00E	BK	21/08/2010	547227	6837398	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPML011 02+25E	BK	21/08/2010	547252.875	6837399	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPML011 02+50E	BK	21/08/2010	547278.75	6837400	brown	NA	0 - 20	25	B	4	ROCKY	N/A
SPML011 02+75E	BK	21/08/2010	547304.625	6837401	brown	NA	0 - 20	25	B	4	ROCKY	N/A
SPML011 03+00E	BK	21/08/2010	547330.5	6837402	brown	NA	0 - 20	25	B	3	N/A	ORGANIC
SPML011 03+25E	BK	21/08/2010	547356.375	6837403	brown	NA	0 - 20	25	B	3	N/A	ORGANIC
SPML011 03+50E	BK	21/08/2010	547382.25	6837404	brown	NA	0 - 20	25	B	3	N/A	ORGANIC
SPML011 03+75E	BK	21/08/2010	547408.125	6837405	brown	NA	0 - 20	25	B	3	N/A	ORGANIC
SPML011 04+00E	BK	21/08/2010	547434	6837406	brown	NA	0 - 20	25	B	4	N/A	N/A
SPML011 04+25E	BK	21/08/2010	547461.33333	6837404.833333	brown	NA	0 - 20	25	B	2	ROCKY	ORGANIC
SPML011 04+50E	BK	21/08/2010	547488.66667	6837403.666667	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPML011 04+75E	BK	21/08/2010	547516	6837402.5	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPML011 05+00E	BK	21/08/2010	547543.33333	6837401.333333	brown	NA	0 - 20	25	B	3	ROCKY	N/A
SPML011 05+25E	BK	21/08/2010	547570.66667	6837400.166667	brown	NA	0 - 20	25	B	2	ROCKY	ORGANIC
SPML011 05+50E	BK	21/08/2010	547598	6837399	brown	NA	0 - 20	25	B	3	ROCKY	N/A

Appendix V – Analytical Certificates

5.1 – Rock Samples
5.2 - Soil/Silt Samples
5.3 – MMI Samples

5.1 – Rock Samples

Eco Tech Laboratory Ltd.
2953 Shuswap Road
Kamloops, BC
V2H 1S9 Canada
Tel + 1 250 573 5700
Fax + 1 250 573 4557
Toll Free + 1 877 573 5755
www.stewartgroupglobal.com

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Geochemical & Assay

CERTIFICATE OF ASSAY AW 2010-8123

TerraLogic Exploration Inc. 28-Sep-10
#200, 44-12th Ave S.
Cranbrook, BC
V1C 2R7

No. of samples received: 135
Sample Type: Rock
Project: Sprogge
Shipment #: SP10-001
Submitted by: Aaron Higgs

ET #.	Tag #	Au (g/t)	Au oz/t)	Ag (g/t)	Ag oz/t)	Mo (%)	Pb (%)	Zn (%)
11	AHSPR011	1.60	0.047					
12	AHSPR012	1.06	0.031					
13	AHSPR013	2.36	0.069					
27	LJSPR006	1.26	0.037					
48	ETSPR006	1.05	0.031					
49	ETSPR007	2.90	0.085					
52	ETSPR010	1.22	0.036			0.085		
56	BWSPR003	1.16	0.034					
63	BWSPR010	2.54	0.074					
64	BWSPR011	3.95	0.115					
65	BWSPR012	2.62	0.076					
67	BWSPR014	1.05	0.031					
71	BWSPR018	2.25	0.066					
72	BWSPR019	1.07	0.031					
73	BWSPR020	1.01	0.029					
78	AHSPR026	2.56	0.075					
88	BWSPR025	1.39	0.041					
93	BWSPR030			83.4	2.43		4.98	3.88
107	BKSPR003	2.88	0.084					
108	BKSPR008	2.85	0.083					
111	BWSPR040	3.58	0.104					
115	BWSPR044	2.80	0.082					
116	BWSPR045	3.40	0.099					
117	BWSPR046	3.26	0.095					
118	LJSPR022	1.02	0.030					
120	LJSPR024	2.41	0.070					

ECO TECH LABORATORY LTD.
Norman Monteith
B.C. Certified Assayer

All business is undertaken subject to the Company's General Conditions of Business which are available on request. Registered Office: Eco Tech Laboratory Ltd., 2953 Shuswap Road, Kamloops, BC V2H 1S9 Canada.

Eco Tech Laboratory Ltd.
2953 Shuswap Road
Kamloops, BC
V2H 1S9 Canada
Tel + 1 250 573 5700
Fax + 1 250 573 4557
Toll Free + 1 877 573 5755
www.stewartgroupglobal.com

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Geochemical & Assay

TerraLogic Exploration Inc. AW10-8123

28-Sep-10

ET #.	Tag #	Au (g/t)	Au oz/t)	Ag (g/t)	Ag oz/t)	Mo (%)	Pb (%)	Zn (%)
124	LJSPR028	2.29	0.067					
129	AHSPR032					0.071		
QC DATA:								
Repeat:								
64	BWSPR011	4.00	0.117					
93	BWSPR030			82.8	2.42		5.03	3.93
111	BWSPR040	3.54	0.103					
Resplit:								
71	BWSPR018	2.23	0.065					
Standard:								
OXI67		1.86	0.054					
OXK79		3.49	0.102					
Cu111						0.113		
GBM908-14				306	8.92		3.28	4.30

ECO TECH LABORATORY LTD.
Norman Monteith
B.C. Certified Assayer

NM/nw
XLS/10

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Eco Tech Laboratory Ltd.
2953 Shuswap Road
Kamloops, BC
V2H 1S9 Canada
Tel + 1 250 573 5700
Fax + 1 250 573 4557
Toll Free + 1 877 573 5755
www.stewartgroupglobal.com

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CERTIFICATE OF ANALYSIS AW 2010-8123

TerraLogic Exploration Inc.
#200, 44-12th Ave S.
Cranbrook, BC
V1C 2R7

23-Sep-10

No. of samples received: 135
Sample Type: Rock
Project: Sprogge
Shipment #: SP10-001
Submitted by: Aaron Higgs

ET #.	Tag #	Au ppb
1	AHSPR001	375
2	AHSPR002	800
3	AHSPR003	620
4	AHSPR004	165
5	AHSPR005	820
6	AHSPR006	95
7	AHSPR007	<5
8	AHSPR008	20
9	AHSPR009	60
10	AHSPR010	>1000
11	AHSPR011	>1000
12	AHSPR012	>1000
13	AHSPR013	>1000
14	AHSPR014	255
15	AHSPR015	230
16	AHSPR016	505
17	AHSPR017	15
18	AHSPR018	195
19	AHSPR019	505
20	AHSPR020	590
21	AHSPR021	160
22	LJSPR001	10
23	LJSPR002	195
24	LJSPR003	20
25	LJSPR004	<5
26	LJSPR005	<5
27	LJSPR006	>1000
28	LJSPR007	<5
29	LJSPR008	<5
30	LJSPR009	200

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V2H 1S9 Canada
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Fax + 1 250 573 4557
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www.stewartgroupglobal.com

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TerraLogic Exploration Inc. AW10-8123

23-Sep-10

ET #.	Tag #	Au ppb
31	LJSPR010	880
32	LJSPR011	55
33	LJSPR012	25
34	LJSPR013	875
35	LJSPR014	10
36	LJSPR015	20
37	LJSPR016	25
38	LJSPR017	230
39	LJSPR018	75
40	LJSPR019	210
41	LJSPR020	100
42	LJSPR021	660
43	ETSPR001	5
44	ETSPR002	<5
45	ETSPR003	<5
46	ETSPR004	40
47	ETSPR005	235
48	ETSPR006	995
49	ETSPR007	>1000
50	ETSPR008	<5
51	ETSPR009	10
52	ETSPR010	>1000
53	ETSPR011	65
54	BWSPR001	5
55	BWSPR002	5
56	BWSPR003	>1000
57	BWSPR004	<5
58	BWSPR005	5
59	BWSPR006	960
60	BWSPR007	45
61	BWSPR008	<5
62	BWSPR009	15
63	BWSPR010	>1000
64	BWSPR011	>1000
65	BWSPR012	>1000
66	BWSPR013	170
67	BWSPR014	990
68	BWSPR015	685
69	BWSPR016	140
70	BWSPR017	265
71	BWSPR018	>1000
72	BWSPR019	>1000
73	BWSPR020	>1000
74	AHSPR022	15

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Kamloops, BC
V2H 1S9 Canada
Tel + 1 250 573 5700
Fax + 1 250 573 4557
Toll Free + 1 877 573 5755
www.stewartgroupglobal.com

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23-Sep-10

ET #.	Tag #	Au ppb
75	AHSPR023	50
76	AHSPR024	20
77	AHSPR025	145
78	AHSPR026	>1000
79	AHSPR027	10
80	AHSPR028	10
81	AHSPR029	10
82	AHSPR030	10
83	AHSPR031	20
84	BWSPR021	125
85	BWSPR022	15
86	BWSPR023	710
87	BWSPR024	805
88	BWSPR025	>1000
89	BWSPR026	5
90	BWSPR027	5
91	BWSPR028	15
92	BWSPR029	115
93	BWSPR030	90
94	BWSPR031	5
95	BWSPR032	5
96	BWSPR033	5
97	BWSPR034	10
98	BWSPR035	185
99	BWSPR036	220
100	BWSPR037	130
101	BKSPR001	125
102	BKSPR002	5
103	BKSPR003	10
104	BKSPR004	15
105	BKSPR005	15
106	BKSPR006	10
107	BKSPR007	>1000
108	BKSPR008	>1000
109	BWSPR038	335
110	BWSPR039	10
111	BWSPR040	>1000
112	BWSPR041	630
113	BWSPR042	130
114	BWSPR043	675
115	BWSPR044	>1000
116	BWSPR045	>1000
117	BWSPR046	>1000
118	LJSPR022	>1000

All business is undertaken subject to the Company's General Conditions of Business which are available on request. Registered Office: Eco Tech Laboratory Ltd., 2953 Shuswap Road, Kamloops, BC V2H 1S9 Canada.

Eco Tech Laboratory Ltd.
2953 Shuswap Road
Kamloops, BC
V2H 1S9 Canada
Tel + 1 250 573 5700
Fax + 1 250 573 4557
Toll Free + 1 877 573 5755
www.stewartgroupglobal.com

StewartGroup
Geochemical & Assay

TerraLogic Exploration Inc. AW10-8123

23-Sep-10

ET #.	Tag #	Au ppb
119	LJSPR023	240
120	LJSPR024	>1000
121	LJSPR025	20
122	LJSPR026	45
123	LJSPR027	75
124	LJSPR028	>1000
125	LJSPR029	540
126	LJSPR030	5
127	LJSPR031	485
128	LJSPR032	15
129	AHSPR032	5
130	AHSPR033	<5
131	AHSPR034	5
132	AHSPR035	190
133	AHSPR036	205
134	AHSPR037	10
135	AHSPR038	5
QC DATA:		
Repeat:		
1	AHSPR001	385
2	AHSPR002	810
5	AHSPR005	820
10	AHSPR010	>1000
19	AHSPR019	525
20	AHSPR020	620
31	LJSPR010	890
36	LJSPR015	15
45	ETSPR003	<5
54	BWSPR001	5
59	BWSPR006	960
71	BWSPR018	>1000
80	AHSPR028	10
86	BWSPR023	720
87	BWSPR024	810
89	BWSPR026	5
92	BWSPR029	115
106	BKSPR006	10
112	BWSPR041	620
115	BWSPR044	>1000
124	LJSPR028	>1000
133	AHSPR036	205

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Geochemical & Assay

TerraLogic Exploration Inc. AW10-8123

23-Sep-10

ET #.	Tag #	Au ppb
Resplit:		
1	AHSPR001	395
36	LJSPR015	20
71	BWSPR018	>1000
106	BKSPR006	<5
Standard:		
OXE74		605
OXE74		610
OXF65		815
OXF65		795

FA Geochem/AA Finish

ECO TECH LABORATORY LTD.
Norman Monteith
B.C. Certified Assayer

NM/nw
XLS/10

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27-Sep-10

Stewart Group
ECO TECH LABORATORY LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AW 2010-8123

TerraLogic Exploration Inc.
#200, 44-12th Ave S.
Cranbrook, BC
V1C 2R7

No. of samples received: 135
Sample Type: Rock
Project: Sprogge
Shipment #: SP10-001
Submitted by: Aaron Higgs

Values in ppm unless otherwise reported

Et #	Tag #	Ag	Al%	As	Ba	Be	Bi	Ca%	Cd	Co	Cr	Cu	Fe%	Hg	K%	La	Li	Mg%	Mn	Mo	Na%	Ni	P	Pb	S%	Sb	Sc	Se	Sn	Sr	Tl%	U	V	W	Y	Zn
1	AHSPR001	18.3	0.59	345	14	<1	120	0.02	2	<1	154	190	8.65	<5	0.01	8	4	<0.01	105	18	0.05	5	240	234	0.23	145	<1	<10	130	42	<0.01	<5	12	<5	2	132
2	AHSPR002	1.1	0.10	50	8	<1	60	0.01	<1	<1	142	12	5.19	<5	0.01	<2	<2	<0.01	155	2	0.03	3	50	15	0.87	130	<1	<10	115	<2	<0.01	<5	4	<5	<1	22
3	AHSPR003	6.8	0.02	>10000	4	<1	285	<0.01	<1	14	182	100	1.86	<5	0.01	<2	<2	<0.01	20	2	0.01	4	10	303	0.70	30	<1	<10	5	<2	<0.01	<5	<2	<5	<1	10
4	AHSPR004	0.3	0.24	25	8	1	35	0.03	<1	4	82	104	>10	<5	<0.01	4	<2	0.02	3835	18	0.09	4	330	15	0.56	25	2	<10	55	<2	<0.01	<5	14	5	3	132
5	AHSPR005	2.7	0.26	>10000	6	<1	220	0.21	<1	12	140	52	4.01	<5	0.01	<2	<2	<0.01	470	281	0.03	4	110	123	0.40	60	<1	<10	45	<2	<0.01	<5	8	10	1	38
6	AHSPR006	0.5	0.47	40	28	<1	15	0.02	<1	1	80	12	2.17	<5	0.09	8	4	0.01	130	2	0.01	3	270	30	1.11	20	<1	<10	<5	4	<0.01	<5	4	<5	3	16
7	AHSPR007	<0.2	0.63	20	26	<1	<5	0.48	<1	3	72	34	2.63	<5	0.13	40	6	0.09	440	2	0.02	5	460	18	0.36	<5	3	<10	<5	10	<0.01	<5	8	<5	21	82
8	AHSPR008	0.2	0.12	80	16	<1	<5	0.02	<1	2	202	22	0.55	<5	0.06	8	<2	<0.01	40	<1	<0.01	8	50	15	0.02	10	<1	<10	<5	22	<0.01	<5	<2	<5	<1	10
9	AHSPR009	0.5	0.17	150	18	<1	<5	0.02	1	4	178	32	0.75	<5	0.07	8	<2	0.01	55	<1	<0.01	10	50	9	0.01	25	<1	<10	<5	12	<0.01	<5	2	<5	1	20
10	AHSPR010	0.6	0.20	95	28	<1	<5	<0.01	<1	2	172	20	0.87	<5	0.13	10	4	<0.01	25	<1	<0.01	6	70	6	0.05	15	<1	<10	<5	8	<0.01	<5	4	<5	2	8
11	AHSPR011	7.9	0.22	95	30	<1	<5	<0.01	<1	2	146	18	0.82	<5	0.15	12	4	<0.01	30	<1	<0.01	6	90	6	0.05	25	<1	<10	<5	10	<0.01	<5	4	<5	1	10
12	AHSPR012	0.6	0.19	145	34	<1	<5	0.02	<1	1	170	8	0.71	<5	0.11	12	6	<0.01	95	<1	<0.01	5	80	3	0.03	15	<1	<10	<5	6	<0.01	<5	4	<5	1	12
13	AHSPR013	0.6	0.20	135	18	<1	<5	0.01	<1	3	170	12	1.10	<5	0.11	14	<2	<0.01	205	<1	<0.01	9	140	6	0.02	5	<1	<10	<5	4	<0.01	<5	4	<5	2	24
14	AHSPR014	0.3	0.13	290	8	<1	<5	0.04	2	2	170	16	0.50	<5	0.05	8	14	<0.01	40	<1	<0.01	6	70	3	0.07	10	<1	<10	<5	6	<0.01	<5	2	<5	<1	10
15	AHSPR015	0.2	0.18	120	16	<1	<5	<0.01	<1	1	192	12	0.54	<5	0.09	10	14	<0.01	30	<1	<0.01	6	30	6	0.06	10	<1	<10	<5	10	<0.01	<5	2	<5	1	12
16	AHSPR016	0.6	0.14	215	16	<1	<5	<0.01	1	2	196	18	0.82	<5	0.07	8	10	<0.01	30	<1	<0.01	7	30	6	0.20	15	<1	<10	<5	12	<0.01	<5	2	<5	<1	16
17	AHSPR017	0.3	0.07	25	6	<1	<5	<0.01	<1	3	172	16	0.32	<5	0.04	2	<2	<0.01	20	<1	<0.01	7	20	3	0.03	<5	<1	<10	<5	12	<0.01	<5	<2	<5	<1	4
18	AHSPR018	0.5	0.19	565	20	<1	<5	<0.01	3	4	146	28	0.70	<5	0.15	16	<2	<0.01	20	<1	<0.01	8	70	21	0.13	10	<1	<10	<5	34	<0.01	<5	2	<5	2	4
19	AHSPR019	0.7	0.22	210	20	<1	<5	0.02	1	2	88	22	0.99	<5	0.19	32	<2	0.01	20	<1	<0.01	5	100	9	0.16	10	<1	<10	5	40	<0.01	<5	4	<5	2	6
20	AHSPR020	2.2	0.17	190	12	<1	<5	0.06	1	3	138	26	1.21	<5	0.12	8	2	0.02	50	<1	<0.01	7	40	6	0.53	30	<1	<10	25	12	<0.01	<5	6	<5	<1	4
21	AHSPR021	1.3	0.23	55	24	<1	<5	0.01	<1	2	124	10	0.79	<5	0.13	12	4	0.01	230	<1	<0.01	10	70	372	0.07	5	<1	<10	10	4	<0.01	<5	4	<5	2	78
22	LJSPR001	<0.2	2.40	180	24	<1	<5	1.33	1	14	110	28	2.37	<5	0.07	12	14	0.19	95	1	0.36	30	180	36	1.18	<5	2	<10	<5	190	0.09	<5	12	<5	6	68
23	LJSPR002	15.4	0.11	150	16	<1	<5	0.01	2	<1	174	18	1.72	<5	0.08	6	<2	<0.01	35	<1	0.01	5	50	2754	1.19	20	<1	<10	10	10	<0.01	<5	2	<5	1	254
24	LJSPR003	<0.2	0.22	20	20	<1	<5	0.02	<1	4	154	16	1.05	<5	0.10	14	6	0.01	290	<1	<0.01	12	90	36	0.11	5	<1	<10	<5	4	<0.01	<5	4	<5	3	130
25	LJSPR004	<0.2	0.65	50	8	<1	<5	1.51	<1	9	148	4	0.70	<5	0.04	8	14	0.18	175	<1	0.04	29	570	12	<0.01	<5	3	<10	<5	54	0.02	<5	12	<5	4	16
26	LJSPR005	<0.2	0.40	<5	4	<1	<5	0.65	<1	<1	182	4	0.82	<5	0.01	8	14	0.34	135	<1	0.02	7	140	6	0.01	<5	2	<10	<5	16	<0.01	<5	16	<5	2	14
27	LJSPR006	1.0	0.51	>10000	<2	<1	1625	3.51	<1	75	26	1100	>10	<5	0.02	4	12	0.76	390	1	0.15	39	310	15	5.29	15	<1	10	10	162	<0.01	<5	4	5	3	90
28	LJSPR007	<0.2	0.88	10	10	<1	<5	0.81	<1	5	130	62	2.59	<5	0.05	6	12	0.16	100	<1	0.06	11	430	9	0.35	<5	1	<10	10	86	0.04	<5	10	<5	4	16
29	LJSPR008	<0.2	0.58	<5	8	<1	<5	0.03	<1	4	180	12	1.54	<5	0.04	8	22	0.29	95	<1	0.01	14	150	6	<0.01	<5	<1	<10	<5	6	<0.01	<5	4	<5	1	32
30	LJSPR009	<0.2	0.16	55	<2	<1	20	<0.01	<1	<1	100	60	9.66	<5	<0.01	<2	<2	<0.01	795	164	0.06	3	260	9	0.07	30	<1	<10	10	<2	<0.01	<5	8	5	1	92

Et #	Tag #	Ag	Al%	As	Ba	Be	Bi	Ca%	Cd	Co	Cr	Cu	Fe%	Hg	K%	La	Li	Mg%	Mn	Mo	Na%	Ni	P	Pb	S%	Sb	Sc	Se	Sn	Sr	Ti%	U	V	W	Y	Zn
31	LJSPR010	2.5	0.10	>10000	6	<1	170	0.01	<1	24	142	144	7.49	<5	0.01	<2	<2	<0.01	355	16	0.05	5	150	132	1.09	75	<1	<10	15	4	<0.01	<5	4	<5	<1	64
32	LJSPR011	<0.2	0.32	20	32	3	35	0.21	<1	7	22	72	>10	<5	0.02	4	<2	0.06	5915	11	0.11	4	630	15	0.06	5	<1	<10	5	6	<0.01	<5	8	5	3	152
33	LJSPR012	<0.2	0.87	20	14	2	20	1.03	<1	2	50	4	2.19	<5	0.05	6	8	0.05	805	37	0.05	3	100	6	<0.01	<5	<1	<10	15	32	0.05	<5	8	<5	3	40
34	LJSPR013	2.4	0.08	>10000	4	<1	120	<0.01	<1	18	152	130	3.22	<5	0.02	<2	<2	<0.01	70	10	0.02	5	30	135	1.47	65	<1	<10	10	<2	<0.01	<5	2	<5	<1	30
35	LJSPR014	2.6	0.20	50	16	<1	<5	0.01	<1	2	140	22	1.58	<5	0.13	12	2	0.01	85	<1	0.01	7	150	432	0.10	25	1	<10	5	4	<0.01	<5	4	<5	2	234
36	LJSPR015	7.5	0.26	200	368	<1	<5	<0.01	1	1	178	28	1.41	<5	0.16	12	2	0.02	75	<1	0.01	7	140	1767	0.14	30	<1	<10	20	10	<0.01	<5	4	<5	2	324
37	LJSPR016	1.0	0.27	60	38	<1	<5	<0.01	<1	1	138	16	0.82	<5	0.16	12	6	0.02	25	<1	<0.01	6	70	264	0.09	30	<1	<10	15	10	<0.01	<5	4	<5	1	46
38	LJSPR017	0.3	0.16	230	12	<1	<5	0.06	2	3	190	18	0.55	<5	0.06	8	18	0.02	120	<1	<0.01	8	50	6	0.25	10	<1	<10	<5	12	<0.01	<5	2	<5	1	18
39	LJSPR018	0.4	0.21	1190	26	<1	<5	0.05	8	26	170	24	0.72	<5	0.14	10	10	0.02	145	1	<0.01	14	70	30	0.29	10	<1	<10	5	12	<0.01	<5	4	<5	2	38
40	LJSPR019	1.5	0.28	145	36	<1	<5	0.01	2	1	166	14	0.69	<5	0.22	8	4	0.02	30	<1	<0.01	7	30	333	0.32	15	<1	<10	15	10	<0.01	<5	4	<5	1	122
41	LJSPR020	0.3	0.17	140	20	<1	<5	0.02	2	2	178	14	0.39	<5	0.12	6	<2	<0.01	60	<1	<0.01	7	50	39	0.12	10	<1	<10	5	12	<0.01	<5	2	<5	<1	42
42	LJSPR021	2.8	0.15	405	8	<1	<5	0.04	2	2	154	18	2.66	<5	0.09	6	<2	<0.01	20	<1	0.02	7	20	9	2.49	35	<1	<10	10	10	<0.01	<5	2	<5	<1	12
43	ETSPR001	<0.2	0.14	5	6	<1	<5	0.11	<1	4	218	12	0.94	<5	0.01	<2	4	0.06	335	<1	0.02	15	90	9	0.02	<5	<1	<10	<5	14	<0.01	<5	4	<5	2	28
44	ETSPR002	<0.2	5.69	30	44	1	<5	2.22	<1	12	76	42	1.75	<5	0.34	18	40	0.49	90	2	0.49	36	340	24	0.86	<5	2	<10	5	200	0.10	<5	28	<5	5	30
45	ETSPR003	<0.2	2.81	10	22	<1	<5	1.20	<1	5	76	54	4.12	<5	0.13	8	18	0.20	115	1	0.21	13	850	18	0.32	<5	2	<10	30	160	0.10	<5	14	<5	3	24
46	ETSPR004	0.2	0.33	35	54	<1	<5	<0.01	<1	<1	102	4	0.60	<5	0.27	16	4	0.03	20	<1	<0.01	2	80	63	0.10	15	<1	<10	15	12	<0.01	<5	2	<5	2	<2
47	ETSPR005	1.2	0.26	25	6	2	390	0.76	<1	6	66	1130	4.50	<5	0.04	2	4	0.06	920	15	0.05	4	310	<3	0.73	<5	<1	<10	10	2	<0.01	<5	4	5	2	52
48	ETSPR006	1.3	0.12	20	6	<1	300	0.02	<1	<1	164	104	2.42	<5	<0.01	<2	<2	<0.01	85	62	0.02	4	30	6	0.27	110	<1	<10	90	<2	<0.01	<5	6	<5	<1	12
49	ETSPR007	1.6	0.02	<5	<2	<1	2000	<0.01	<1	<1	238	8	0.74	<5	<0.01	<2	<2	<0.01	55	6	<0.01	5	10	6	0.08	10	<1	<10	<5	<2	<0.01	<5	2	<5	<1	6
50	ETSPR008	<0.2	0.73	<5	16	<1	<5	0.55	<1	2	192	4	0.71	<5	0.09	8	12	0.25	200	2	0.07	13	50	6	<0.01	<5	<1	<10	<5	48	0.03	<5	10	<5	2	20
51	ETSPR009	0.2	0.08	15	22	<1	<5	>10	<1	1	8	4	0.31	<5	0.03	4	<2	1.05	95	<1	<0.01	4	350	3	0.24	<5	<1	<10	<5	2272	<0.01	<5	2	<5	2	52
52	ETSPR010	0.3	0.79	<5	4	2	845	1.26	<1	<1	72	4	1.66	<5	0.02	6	10	0.05	535	868	0.05	3	90	9	0.05	<5	<1	<10	5	44	0.04	<5	4	20	2	24
53	ETSPR011	0.2	0.38	20	16	<1	<5	0.11	<1	<1	108	18	1.59	<5	0.15	14	4	0.02	20	4	0.01	3	130	21	1.11	20	<1	<10	<5	16	<0.01	<5	2	<5	4	14
54	BWSPR001	<0.2	0.32	135	18	<1	<5	<0.01	<1	<1	196	8	1.45	<5	0.08	10	16	<0.01	30	3	0.01	5	810	15	0.05	5	3	<10	<5	58	<0.01	<5	4	<5	1	16
55	BWSPR002	<0.2	0.15	100	34	<1	5	<0.01	<1	<1	168	4	0.56	<5	0.18	8	<2	<0.01	20	1	<0.01	4	50	15	0.14	5	<1	<10	<5	12	<0.01	<5	2	<5	<1	<2
56	BWSPR003	6.6	0.10	>10000	74	<1	25	<0.01	<1	1	130	26	4.40	<5	0.19	28	<2	<0.01	20	<1	0.03	3	70	219	0.37	75	<1	<10	10	6	<0.01	<5	<2	<5	1	14
57	BWSPR004	<0.2	0.20	105	26	<1	<5	<0.01	<1	<1	168	4	0.74	<5	0.13	10	<2	<0.01	20	<1	<0.01	4	60	3	0.11	5	<1	<10	<5	14	<0.01	<5	2	<5	1	2
58	BWSPR005	0.5	0.13	75	<2	<1	25	0.03	<1	29	<2	8	>10	<5	0.02	10	<2	0.03	2005	<1	0.38	72	310	42	0.08	10	<1	<10	<5	8	<0.01	<5	<2	15	15	1116
59	BWSPR006	1.5	0.38	270	48	<1	<5	<0.01	2	1	78	6	1.54	<5	0.17	10	2	0.01	25	<1	0.02	6	110	15	0.75	40	<1	<10	<5	20	<0.01	<5	6	<5	1	22
60	BWSPR007	<0.2	4.41	10	<2	<1	270	2.64	<1	52	42	652	4.01	<5	0.03	18	30	0.12	295	2	0.17	27	2980	15	2.53	<5	1	<10	45	178	0.06	<5	12	<5	7	42
61	BWSPR008	0.6	4.30	145	10	<1	55	3.02	<1	7	42	542	5.44	<5	0.12	44	14	0.16	165	2	0.27	20	3880	18	0.73	<5	2	<10	25	254	0.08	<5	16	<5	14	44
62	BWSPR009	0.3	3.55	305	22	1	20	1.62	<1	33	80	636	7.85	<5	0.12	20	26	0.30	150	2	0.45	25	250	21	3.59	<5	3	<10	10	152	0.09	<5	26	<5	6	54
63	BWSPR010	5.3	0.42	45	<2	1	1110	0.26	<1	42	132	3680	>10	<5	0.07	8	4	0.12	450	2	0.15	23	140	<3	8.58	25	2	20	40	26	<0.01	<5	8	5	5	90
64	BWSPR011	3.5	0.23	1000	<2	2	590	0.45	<1	21	108	1008	>10	<5	0.02	2	2	0.22	2695	1	0.18	10	110	96	6.91	25	3	<10	70	8	<0.01	<5	8	5	5	60
65	BWSPR012	3.3	0.13	2280	<2	<1	1200	0.16	<1	114	86	1862	>10	<5	0.06	<2	<2	0.21	1010	1	0.23	12	90	21	>10	45	<1	30	40	14	<0.01	<5	4	10	2	26
66	BWSPR013	11.4	0.18	55	<2	3	215	0.27	<1	70	92	7158	>10	<5	0.01	28	<2	0.24	1135	2	0.21	33	120	<3	9.67	15	3	30	40	6	<0.01	<5	14	10	13	230
67	BWSPR014	0.3	0.80	90	<2	<1	200	8.18	<1	8	62	1056	>10	<5	0.02	<2	<2	0.08	1185	<1	0.10	4	500	15	0.90	<5	<1	<10	1155	6	0.03	<5	6	<5	3	12
68	BWSPR015	1.9	0.69	>10000	<2	2	505	0.85	<1	121	66	2224	>10	<5	0.08	2	10	0.15	810	1	0.20	8	130	18	9.08	20	<1	40	210	6	0.01	<5	8	10	2	58
69	BWSPR016	0.2	0.45	80	<2	1	30	0.23	<1	8	32	558	>10	<5	<0.01	4	<2	0.13	1900	2	0.25	13	270	27	3.51	20	7	<10	105	4	<0.01	<5	10	10	7	56
70	BWSPR017	0.5	0.46	140	<2	<1	55	0.05	<1	5	56	344	>10	<5	0.01	2	2	0.03	635	3	0.19	9	560	21	2.21	25	4	<10	230	4	<0.01	<5	18	10	4	34
71	BWSPR018	0.9	0.39	110	<2	<1	815	0.28	<1	3	94	418	>10	<5	0.02	2	2	0.12	990	1	0.15	10	1020	21	2.99	65	4	<10	465	6	<0.01	<5	24	5	3	36
72	BWSPR019	3.9	0.95	7195	<2	<1	100	0.68	<1	14	100	368	>10	<5	0.21	<2	8	0.08	370	<1	0.10	7	160	57	7.35	135	2	<10	90	8	<0.01	<5	12	<5	3	66
73	BWSPR020	1.3	0.91	195	<2	<1	180	1.22	<1	2	58	1020	>10	<5	0.08	2	6	0.06	415	1	0.16	6	240	24	2.95	20	2	<10	205	4	<0.01	<5	16	5	3	26
74	AHSPR022	0.2	1.54	145	6	<1	20	0.92	<1	13	64	428	4.53	<5	0.06	10	16	0.11	145	<1	0.26	8	200	9	1.05	<5	1	<10	20	84	0.07	<5	10	<5	4	18
75	AHSPR023	0.8	3.52	80	6	1	70	1.69	<1	11	52	364	4.85	<5	0.05	22	28	0.31	315	1	0.30	15	540	72	0.79	<5	2	<10	25	124	0.06	<5	18	<5	6	36

Et #	Tag #	Ag	Al%	As	Ba	Be	Bi	Ca%	Cd	Co	Cr	Cu	Fe%	Hg	K%	La	Li	Mg%	Mn	Mo	Na%	Ni	P	Pb	S%	Sb	Sc	Se	Sn	Sr	Tl%	U	V	W	Y	Zn
76	AHSPR024	<0.2	4.01	15	2	<1	15	2.64	<1	6	48	220	3.47	<5	0.04	16	16	0.09	395	2	0.24	7	660	24	0.39	<5	<1	<10	55	142	0.05	<5	10	<5	4	24
77	AHSPR025	0.3	2.89	365	10	<1	170	1.56	<1	20	42	684	3.39	<5	0.05	12	14	0.08	140	1	0.31	6	910	33	0.75	<5	<1	<10	15	136	0.04	<5	8	<5	4	22
78	AHSPR026	1.1	1.15	>10000	16	<1	710	0.14	<1	1370	70	18	>10	<5	0.87	48	122	1.19	90	2	0.15	170	800	21	3.60	65	6	30	15	18	0.03	<5	40	<5	7	16
79	AHSPR027	0.3	3.03	70	8	<1	65	1.54	<1	8	62	494	8.22	<5	0.28	18	34	0.38	330	1	0.27	10	410	18	1.38	<5	3	<10	115	86	0.08	<5	26	<5	5	24
80	AHSPR028	0.5	2.10	135	4	<1	30	1.38	<1	17	58	490	6.04	<5	0.07	18	14	0.16	160	<1	0.29	16	1590	12	2.29	<5	1	<10	15	98	0.05	<5	14	<5	6	20
81	AHSPR029	0.8	0.69	1860	<2	<1	105	1.02	<1	4	44	434	>10	<5	0.11	6	2	0.04	370	<1	0.14	2	290	18	0.84	5	1	10	145	4	0.09	<5	20	5	2	4
82	AHSPR030	0.4	3.57	8955	<2	1	25	1.68	<1	19	50	728	7.36	<5	0.13	20	18	0.26	345	1	0.51	20	220	15	0.91	5	2	<10	120	94	0.04	<5	22	<5	6	22
83	AHSPR031	2.9	1.93	3130	<2	1	55	0.96	<1	11	54	1380	>10	<5	0.22	14	16	0.23	230	<1	0.33	5	230	12	0.69	<5	3	<10	180	52	0.08	<5	24	<5	4	18
84	BWSPR021	0.7	1.52	450	<2	<1	45	4.97	<1	3	56	708	>10	<5	0.04	4	4	0.16	895	1	0.12	7	210	21	1.44	10	2	<10	235	4	0.04	<5	16	5	4	18
85	BWSPR022	2.5	0.80	10	<2	1	120	4.09	<1	24	20	2884	>10	<5	0.08	2	2	0.17	1190	<1	0.12	4	100	3	2.83	<5	<1	<10	400	12	0.02	<5	4	<5	10	86
86	BWSPR023	1.3	1.04	5	<2	2	270	6.04	<1	25	32	1604	>10	<5	0.09	2	6	0.32	2205	<1	0.19	7	80	27	3.75	5	<1	<10	780	4	0.02	<5	6	5	5	64
87	BWSPR024	0.2	1.33	25	<2	<1	260	7.05	<1	5	50	348	9.60	<5	0.08	2	4	0.09	2185	<1	0.09	4	180	15	1.46	<5	<1	<10	395	50	0.04	<5	10	<5	7	30
88	BWSPR025	1.9	0.30	>10000	<2	<1	2125	1.00	<1	667	82	920	>10	<5	0.04	<2	<2	0.02	245	1	0.09	6	20	6	3.65	35	<1	50	70	<2	0.01	<5	4	<5	1	6
89	BWSPR026	<0.2	0.33	80	16	<1	5	0.18	<1	1	90	6	0.70	<5	0.15	10	6	<0.01	120	<1	0.03	2	150	18	0.06	<5	<1	<10	<5	32	<0.01	<5	<2	<5	9	20
90	BWSPR027	<0.2	1.00	115	34	<1	5	0.68	<1	4	102	6	2.15	<5	0.17	16	36	0.39	485	<1	0.04	3	480	33	0.03	<5	2	<10	<5	16	<0.01	<5	14	<5	9	94
91	BWSPR028	0.2	3.74	55	30	<1	<5	1.98	<1	16	82	358	3.98	<5	0.24	8	40	0.56	175	2	0.33	42	300	60	1.91	<5	3	<10	5	128	0.08	<5	28	<5	3	82
92	BWSPR029	<0.2	3.25	25	18	<1	10	2.54	<1	5	76	44	1.60	<5	0.02	26	14	0.22	240	1	0.41	15	560	24	0.20	<5	1	<10	15	250	0.05	<5	12	<5	4	32
93	BWSPR030	>30	1.95	605	<2	<1	5	1.11	368	19	90	796	>10	<5	0.07	4	48	0.48	460	<1	0.13	20	310	>10000	6.49	100	2	<10	20	34	0.05	<5	20	<5	2	>10000
94	BWSPR031	<0.2	0.34	20	36	<1	<5	1.34	<1	2	94	20	1.66	<5	0.15	12	4	0.14	360	2	0.02	3	420	33	0.12	<5	2	<10	<5	68	<0.01	<5	4	<5	9	42
95	BWSPR032	<0.2	0.28	20	34	<1	<5	0.85	<1	2	100	16	1.84	<5	0.13	18	2	0.08	370	2	0.02	3	430	57	0.04	5	2	<10	<5	74	<0.01	<5	<2	<5	9	58
96	BWSPR033	<0.2	0.32	25	28	<1	<5	0.98	<1	3	104	30	1.72	<5	0.13	14	2	0.06	405	16	0.01	3	410	24	0.10	<5	2	<10	<5	62	<0.01	<5	<2	<5	10	50
97	BWSPR034	<0.2	0.31	70	34	<1	25	0.11	<1	2	106	44	2.78	<5	0.11	12	4	0.03	190	4	0.02	3	330	24	0.08	10	2	<10	<5	20	<0.01	<5	4	<5	4	28
98	BWSPR035	1.3	0.32	1050	20	<1	280	0.05	<1	9	116	158	5.66	<5	0.12	6	4	0.01	210	7	0.03	5	160	96	1.67	20	<1	<10	<5	14	<0.01	<5	2	10	3	58
99	BWSPR036	0.6	0.31	30	16	<1	15	0.02	<1	<1	114	54	9.01	<5	0.11	2	4	0.02	290	3	0.05	4	90	18	1.47	45	2	<10	15	4	<0.01	<5	12	<5	3	40
100	BWSPR037	1.5	0.33	180	6	<1	30	0.04	<1	3	102	90	>10	<5	0.13	2	6	0.04	410	2	0.07	6	70	24	4.38	85	2	<10	15	4	<0.01	<5	12	<5	2	56
101	BKSPR001	<0.2	0.86	985	40	<1	<5	0.02	<1	5	86	22	3.38	<5	0.16	14	14	0.29	80	<1	0.03	15	190	27	0.24	<5	<1	<10	<5	10	<0.01	<5	8	<5	2	86
102	BKSPR002	<0.2	0.18	370	14	<1	<5	<0.01	<1	<1	198	10	1.52	<5	0.06	6	2	<0.01	25	<1	0.01	4	150	9	0.05	<5	<1	<10	<5	38	<0.01	<5	2	<5	2	24
103	BKSPR003	<0.2	0.14	25	22	<1	<5	<0.01	<1	<1	164	2	0.62	<5	0.10	8	<2	<0.01	30	<1	<0.01	4	40	9	0.03	<5	<1	<10	<5	26	<0.01	<5	<2	<5	1	4
104	BKSPR004	1.4	0.29	640	30	<1	<5	<0.01	<1	<1	96	4	1.73	<5	0.12	10	2	<0.01	15	<1	<0.01	2	200	537	0.04	<5	<1	<10	<5	4	<0.01	<5	4	<5	<1	30
105	BKSPR005	<0.2	0.18	100	20	<1	<5	<0.01	<1	<1	152	4	0.97	<5	0.07	10	4	<0.01	15	<1	<0.01	3	120	27	0.02	10	<1	<10	<5	10	<0.01	<5	<2	<5	2	10
106	BKSPR006	0.5	4.26	5	<2	<1	25	1.55	<1	14	60	592	>10	<5	0.24	20	34	0.52	500	1	0.24	33	230	24	4.43	5	3	<10	95	88	0.07	<5	30	<5	5	26
107	BKSPR007	2.3	0.86	>10000	8	<1	1815	1.22	<1	919	106	24	>10	<5	0.51	8	72	0.79	90	1	0.09	50	7720	36	4.41	115	2	50	5	42	0.02	<5	14	10	16	12
108	BKSPR008	4.2	0.85	>10000	2	<1	775	0.12	<1	377	62	54	>10	<5	0.58	28	106	0.79	90	<1	0.13	68	710	120	4.63	95	5	40	20	20	0.02	<5	32	5	4	42
109	BWSPR038	<0.2	0.21	530	16	<1	5	0.17	<1	2	114	6	4.09	<5	0.13	10	<2	0.06	760	6	0.02	4	290	12	0.58	20	1	<10	5	10	<0.01	<5	2	<5	3	24
110	BWSPR039	<0.2	0.20	160	18	<1	<5	0.04	<1	1	92	4	1.32	<5	0.14	16	<2	<0.01	95	18	<0.01	3	330	9	0.02	10	2	<10	<5	8	<0.01	<5	<2	<5	3	12
111	BWSPR040	0.5	0.16	2120	12	<1	<5	0.01	<1	<1	132	12	2.49	<5	0.16	6	<2	<0.01	40	11	0.01	3	80	9	0.46	65	<1	<10	10	4	<0.01	<5	<2	<5	<1	4
112	BWSPR041	1.2	0.15	510	<2	2	15	0.67	<1	8	80	64	>10	<5	0.01	4	<2	0.36	4765	4	0.12	9	180	21	1.19	90	3	<10	25	8	<0.01	<5	10	5	5	134
113	BWSPR042	<0.2	0.26	1115	<2	1	20	0.31	<1	14	66	234	>10	<5	0.04	4	2	0.28	4240	4	0.15	8	320	24	0.60	35	4	<10	35	6	<0.01	<5	14	5	3	144
114	BWSPR043	0.8	0.31	2160	<2	1	75	0.05	<1	94	18	494	>10	<5	0.02	4	2	0.08	6230	13	0.24	11	620	33	1.02	45	3	<10	80	4	<0.01	<5	10	10	10	148
115	BWSPR044	2.9	0.22	215	<2	1	1750	0.09	<1	13	80	758	>10	<5	0.04	2	<2	0.04	2125	8	0.12	10	250	24	3.03	40	4	<10	75	2	<0.01	<5	10	15	7	66
116	BWSPR045	1.7	0.43	50	<2	2	1195	1.13	<1	20	18	956	>10	<5	0.02	4	<2	0.03	3635	9	0.20	9	540	51	2.64	25	2	10	235	4	<0.01	<5	8	10	11	82
117	BWSPR046	3.0	0.32	485	<2	2	1815	0.15	<1	22	38	1364	>10	<5	0.04	4	<2	0.05	1665	4	0.19	9	470	75	5.88	70	2	10	70	4	<0.01	<5	8	20	9	100
118	LJSPR022	2.4	0.48	>10000	6	<1	195	1.90	<1	57	34	16	>10	<5	0.17	6	6	0.09	230	<1	0.10	11	1440	57	4.85	115	<1	30	<5	94	<0.01	<5	4	<5	7	20
119	LJSPR023	0.7	1.23	>10000	8	<1	45	1.63	<1	42	50	20	5.74	<5	0.23	10	62	0.97	330	<1	0.06	25	2000	39	2.90	85	2	10	10	90	<0.01	<5	16	<5	7	80
120	LJSPR024	>30	0.14	>10000	<2	<1	295	<0.01	<1	70	40	218	>10	<5	0.06	4	<2	0.02	35	3	0.13	7	50	1305	5.95	425	<1	20	<5	<2	<0.01	<5	2	5	<1	1664

Stewart Group

ECO TECH LABORATORY LTD. **ICP CERTIFICATE OF ANALYSIS AW 2010-8123** **TerraLogic Exploration Inc.**

Et #	Tag #	Ag	Al%	As	Ba	Be	Bi	Ca%	Cd	Co	Cr	Cu	Fe%	Hg	K%	La	Li	Mg%	Mn	Mo	Na%	Ni	P	Pb	S%	Sb	Sc	Se	Sn	Sr	Tl%	U	V	W	Y	Zn
121	LJSPR025	<0.2	0.91	270	188	<1	<5	0.22	<1	5	86	<2	1.69	<5	0.49	16	44	0.39	265	1	0.08	3	430	12	0.01	<5	4	<10	<5	16	0.09	<5	20	<5	9	38
122	LJSPR026	0.8	3.28	350	14	<1	5	1.45	5	17	48	498	4.91	<5	0.08	10	36	0.42	360	2	0.21	19	2120	339	1.18	<5	2	<10	10	106	0.05	<5	20	<5	5	496
123	LJSPR027	1.5	3.08	360	20	<1	50	1.03	<1	20	64	734	5.90	<5	0.19	8	60	0.82	160	2	0.21	25	250	57	2.33	<5	4	<10	5	84	0.07	<5	32	<5	4	214
124	LJSPR028	3.1	1.19	>10000	12	<1	730	0.18	<1	355	82	26	8.38	<5	0.80	30	178	1.18	160	<1	0.10	74	790	189	3.44	65	6	30	25	14	0.04	<5	42	<5	7	46
125	LJSPR029	1.1	1.67	>10000	<2	<1	290	0.53	<1	131	66	594	>10	<5	0.46	26	76	0.73	300	<1	0.15	25	560	24	3.35	50	5	30	165	8	0.04	<5	32	<5	6	26
126	LJSPR030	<0.2	0.37	100	32	<1	<5	0.01	<1	2	48	8	0.89	<5	0.13	14	4	0.01	20	<1	<0.01	6	100	6	0.02	<5	<1	<10	<5	4	<0.01	<5	10	<5	2	20
127	LJSPR031	0.7	0.24	205	32	<1	<5	<0.01	<1	2	148	26	1.13	<5	0.12	6	12	0.02	100	<1	<0.01	8	80	27	0.46	10	<1	<10	10	6	<0.01	<5	2	<5	1	38
128	LJSPR032	<0.2	0.25	95	24	<1	<5	0.19	<1	5	110	10	0.69	<5	0.15	10	6	0.03	245	<1	<0.01	12	200	21	0.09	5	<1	<10	<5	10	<0.01	<5	2	<5	2	92
129	AHSPR032	<0.2	>10	50	10	2	<5	5.94	<1	1	56	2	0.23	<5	0.01	6	6	0.05	50	675	0.45	4	270	33	0.04	<5	<1	<10	<5	628	0.06	<5	8	10	2	8
130	AHSPR033	<0.2	0.93	20	10	<1	<5	1.43	<1	2	36	32	1.52	<5	0.03	6	14	0.06	620	5	0.02	3	100	6	<0.01	<5	<1	<10	5	40	0.03	<5	4	<5	2	38
131	AHSPR034	<0.2	0.52	15	10	<1	<5	0.58	<1	4	158	10	1.12	<5	0.05	4	20	0.18	125	1	0.04	12	120	15	0.04	<5	<1	<10	<5	50	0.01	<5	8	<5	2	26
132	AHSPR035	0.7	0.12	>10000	<2	<1	160	<0.01	<1	166	88	10	>10	<5	0.06	4	2	0.02	15	1	0.08	27	<10	18	4.28	55	<1	30	<5	2	<0.01	<5	<2	<5	1	6
133	AHSPR036	3.7	0.49	>10000	8	<1	200	0.07	<1	23	154	296	3.90	<5	0.09	6	28	0.35	85	<1	0.03	21	290	120	1.46	20	<1	<10	20	4	0.01	<5	12	<5	3	18
134	AHSPR037	0.3	3.17	230	16	<1	10	1.32	<1	11	82	464	6.33	<5	0.19	14	68	0.90	545	2	0.20	24	270	18	2.08	<5	4	<10	75	92	0.09	<5	38	<5	6	28
135	AHSPR038	<0.2	3.92	40	14	<1	5	2.71	<1	9	80	360	4.20	<5	0.15	14	62	0.98	550	2	0.23	27	310	15	1.41	<5	4	<10	50	110	0.10	<5	38	<5	5	30
QC DATA:																																				
Repeat:																																				
1	AHSPR001	18.5	0.61	345	14	<1	120	0.02	2	<1	160	190	8.58	<5	0.01	10	4	<0.01	105	18	0.05	5	260	234	0.24	145	<1	<10	125	44	<0.01	<5	12	<5	2	130
10	AHSPR010	0.5	0.22	95	28	<1	<5	<0.01	<1	2	168	20	0.84	<5	0.14	10	4	<0.01	25	<1	<0.01	6	70	6	0.05	15	<1	<10	<5	8	<0.01	<5	4	<5	2	6
19	AHSPR019	0.8	0.22	205	18	<1	<5	0.02	1	2	82	22	0.97	<5	0.20	30	<2	0.01	20	<1	<0.01	5	100	9	0.16	10	<1	<10	5	38	<0.01	<5	2	<5	2	4
36	LJSPR015	7.3	0.27	200	364	<1	<5	<0.01	1	1	186	26	1.43	<5	0.17	8	2	0.02	65	<1	0.01	6	140	1761	0.14	30	<1	<10	15	8	<0.01	<5	4	<5	1	336
45	ETSPR003	0.1	2.68	10	22	<1	<5	1.24	<1	5	82	54	4.21	<5	0.12	8	16	0.19	130	1	0.22	13	840	18	0.31	<5	2	<10	30	164	0.11	<5	16	<5	4	28
54	BWSPR001	<0.2	0.35	135	18	<1	<5	0.01	<1	<1	204	10	1.53	<5	0.06	10	14	<0.01	40	3	0.01	5	780	18	0.05	5	3	<10	<5	62	<0.01	<5	4	<5	1	14
71	BWSPR018	1.1	0.39	115	<2	<1	805	0.29	<1	3	96	412	>10	<5	0.02	2	2	0.12	1005	1	0.14	11	1050	21	3.01	65	4	<10	470	6	<0.01	<5	28	5	3	40
80	AHSPR028	0.5	2.14	140	4	<1	30	1.43	<1	17	56	502	6.14	<5	0.07	18	16	0.17	160	1	0.30	16	1640	12	2.33	<5	1	<10	15	102	0.05	<5	12	<5	6	18
89	BWSPR026	<0.2	0.32	85	16	<1	5	0.17	<1	1	86	6	0.68	<5	0.15	10	4	<0.01	115	<1	0.03	2	150	18	0.06	<5	<1	<10	<5	30	<0.01	<5	<2	<5	8	20
106	BKSPR006	0.5	4.33	10	<2	<1	30	1.59	<1	14	62	598	>10	<5	0.26	18	38	0.53	480	2	0.25	33	250	24	4.49	5	3	<10	90	86	0.06	<5	28	<5	5	26
115	BWSPR044	2.8	0.21	225	<2	1	1760	0.09	<1	13	78	760	>10	<5	0.04	2	<2	0.04	2135	8	0.12	10	250	21	3.03	40	4	<10	75	2	<0.01	<5	10	15	8	66
124	LJSPR028	3.0	1.14	>10000	12	<1	700	0.18	<1	347	80	26	8.36	<5	0.75	30	172	1.14	160	<1	0.10	72	780	186	3.38	60	6	30	25	14	0.03	<5	42	<5	7	46
Resplit:																																				
1	AHSPR001	17.9	0.58	335	12	<1	120	0.01	1	<1	148	186	8.35	<5	0.01	8	4	<0.01	80	18	0.05	3	240	228	0.23	145	<1	<10	120	38	<0.01	<5	10	<5	2	122
36	LJSPR015	7.9	0.28	200	376	<1	<5	<0.01	<1	1	192	28	1.44	<5	0.15	10	2	0.01	70	<1	0.01	6	130	1818	0.14	30	<1	<10	15	10	<0.01	<5	4	<5	1	346
71	BWSPR018	1.0	0.37	95	<2	<1	795	0.29	<1	3	100	398	>10	<5	0.02	2	2	0.12	1035	1	0.14	11	1070	21	2.94	65	4	<10	455	6	<0.01	<5	26	5	3	40
106	BKSPR006	0.4	4.35	10	<2	<1	25	1.63	<1	13	56	570	9.86	<5	0.26	16	36	0.51	410	2	0.22	32	240	21	4.37	5	3	<10	90	80	0.06	<5	24	<5	4	26
Standard:																																				
Pb129a		11.6	0.84	5	60	<1	<5	0.46	59	6	10	1406	1.54	<5	0.09	4	<2	0.70	355	2	0.03	5	430	6199	0.82	15	<1	<10	<5	28	0.05	<5	16	<5	2	>10000
Pb129a		11.8	0.83	5	62	<1	<5	0.47	58	5	12	1424	1.57	<5	0.09	4	<2	0.71	365	2	0.03	5	410	6153	0.83	20	<1	<10	<5	28	0.04	<5	18	<5	2	>10000
Pb129a		11.5	0.80	10	62	<1	<5	0.46	57	5	12	1476	1.57	<5	0.09	4	<2	0.69	355	2	0.03	5	420	6254	0.84	20	<1	<10	<5	30	0.04	<5	18	<5	2	>10000
Pb129a		11.6	0.80	10	60	<1	<5	0.47	54	5	10	1394	1.58	<5	0.09	2	2	0.70	360	2	0.02	5	410	6199	0.81	20	<1	<10	<5	32	0.03	<5	18	<5	2	>10000
Pb129a		11.5	0.81	10	68	<1	<5	0.48	52	5	12	1372	1.62	<5	0.08	4	<2	0.67	370	2	0.02	5	420	6174	0.79	15	<1	<10	<5	32	0.03	<5	20	<5	2	>10000
Pb129a		12.1	0.82	10	66	<1	<5	0.49	53	5	12	1424	1.46	<5	0.08	4	<2	0.69	360	2	0.02	6	410	6238	0.82	15	<1	<10	<5	30	0.03	<5	18	<5	2	>10000

ICP: Aqua Regia Digest/ICP AES Finish
Ag: Aquia Regia Digest/AA Finish

ECO TECH LABORATORY LTD.
Norman Monteith
B.C. Certified Assayer

NM/ap
df/2_8123S
XLS/10

Eco Tech Laboratory Ltd.
2953 Shuswap Road
Kamloops, BC
V2H 1S9 Canada
Tel + 1 250 573 5700
Fax + 1 250 573 4557
Toll Free + 1 877 573 5755
www.stewartgroupglobal.com

StewartGroup
Geochemical & Assay

CERTIFICATE OF ASSAY AW 2010-8123R

TerraLogic Exploration Inc. **Revised** 13-Oct-10
#200, 44-12th Ave S.
Cranbrook, BC
V1C 2R7

No. of samples received: 135
Sample Type: Rock
Project: Sprogge
Shipment #: SP10-001
Submitted by: Aaron Higgs

ET #.	Tag #	Au (g/t)	Au oz/t)	Ag (g/t)	Ag oz/t)	Mo (%)	Pb (%)	Zn (%)
10	AHSPR010	1.35	0.039					
11	AHSPR011	1.60	0.047					
12	AHSPR012	1.06	0.031					
13	AHSPR013	2.36	0.069					
27	LJSPR006	1.26	0.037					
48	ETSPR006	1.05	0.031					
49	ETSPR007	2.90	0.085					
52	ETSPR010	1.22	0.036			0.085		
56	BWSPR003	1.16	0.034					
63	BWSPR010	2.54	0.074					
64	BWSPR011	3.95	0.115					
65	BWSPR012	2.62	0.076					
67	BWSPR014	1.05	0.031					
71	BWSPR018	2.25	0.066					
72	BWSPR019	1.07	0.031					
73	BWSPR020	1.01	0.029					
78	AHSPR026	2.56	0.075					
88	BWSPR025	1.39	0.041					
93	BWSPR030			83.4	2.43		4.98	3.88
107	BKSPR007	2.88	0.084					
108	BKSPR008	2.85	0.083					
111	BWSPR040	3.58	0.104					
115	BWSPR044	2.80	0.082					
116	BWSPR045	3.40	0.099					
117	BWSPR046	3.26	0.095					
118	LJSPR022	1.02	0.030					
120	LJSPR024	2.41	0.070	39.0	1.14			

ECO TECH LABORATORY LTD.
Norman Monteith

All business is undertaken subject to the Company's General Conditions of Business which are available on request. Registered Office: Eco Tech Laboratory Ltd., 2953 Shuswap Road, Kamloops, BC V2H 1S9 Canada.

Eco Tech Laboratory Ltd.
2953 Shuswap Road
Kamloops, BC
V2H 1S9 Canada
Tel + 1 250 573 5700
Fax + 1 250 573 4557
Toll Free + 1 877 573 5755
www.stewartgroupglobal.com

StewartGroup
Geochemical & Assay

B.C. Certified Assayer

TerraLogic Exploration Inc. AW10-8123R 13-Oct-10

ET #	Tag #	Au (g/t)	Au oz/t)	Ag (g/t)	Ag oz/t)	Mo (%)	Pb (%)	Zn (%)
124	LJSPR028	2.29	0.067					
129	AHSPR032					0.071		
QC DATA:								
Repeat:								
64	BWSPR011	4.00	0.117					
93	BWSPR030			82.8	2.42		5.03	3.93
111	BWSPR040	3.54	0.103					
Resplit:								
71	BWSPR018	2.23	0.065					
Standard:								
OXI67		1.86	0.054					
OXK79		3.49	0.102					
Cu111						0.113		
GBM908-14				306	8.92		3.28	4.30

ECO TECH LABORATORY LTD.
Norman Monteith
B.C. Certified Assayer

NM/nw
XLS/10

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5.2 – Soil/Silt Samples

17-Sep-10

Stewart Group
ECO TECH LABORATORY LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AW 2010- 8109

TerraLogic Exploration Inc.
#200, 44-12th Ave S.
Cranbrook, BC
V1C 2R7

No. of samples received: 61
Sample Type: Silts
Project: Sprogge
Shipment #: SP10-001
Submitted by: Aaron Higgs

Values in ppm unless otherwise reported

Et #	Tag #	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Se ppm	Sr ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
1	BKSPS001	10	0.9	0.75	43.2	35.5	0.54	0.72	5.36	8.1	11.0	22.3	2.87	2.8	30	0.06	20.0	0.23	277	0.27	0.028	20.3	603	152.90	0.10	2.46	1.4	0.6	36.0	0.04	4.5	0.001	0.08	1.6	8	0.3	410.1
2	BKSPS002	4	0.4	0.60	161.4	14.0	0.64	0.12	1.39	12.5	11.0	36.3	3.17	2.8	10	0.05	22.5	0.27	374	0.23	0.025	27.4	397	160.50	0.04	1.06	1.8	0.5	12.5	0.06	9.4	0.001	0.10	0.9	6	0.2	197.5
3	BKSPS003	13	0.4	1.53	224.4	44.0	4.30	1.05	22.22	97.0	16.0	82.8	4.61	5.3	25	0.07	80.0	0.41	6133	0.53	0.042	311.4	490	115.60	0.20	8.00	3.2	1.9	61.5	0.10	11.4	0.006	0.22	2.1	12	2.0	2528.0
4	BKSPS004	6	0.3	1.54	95.7	33.5	3.32	0.54	19.02	106.7	14.0	85.3	4.10	6.0	20	0.05	120.0	0.36	5840	0.43	0.035	256.5	390	128.10	0.12	3.54	3.2	2.4	56.0	0.08	11.6	0.004	0.20	2.8	10	0.5	2388.0
5	BKSPS005	25	0.3	1.21	103.6	30.5	1.26	0.37	0.44	15.7	20.5	52.0	4.16	4.7	20	0.07	30.0	0.43	522	0.37	0.037	39.1	576	47.14	0.08	3.54	2.9	0.7	33.5	0.06	11.0	0.006	0.16	1.4	16	0.3	138.0
6	BKSPS006	9	0.3	1.14	150.4	29.5	5.20	0.52	0.52	17.2	18.0	101.8	5.20	4.3	45	0.07	16.5	0.48	806	0.69	0.044	35.1	572	45.93	0.16	4.10	2.8	0.7	50.5	0.06	10.9	0.008	0.30	1.8	12	1.7	141.4
7	BKSPS007	9	0.3	1.00	152.8	27.0	5.00	0.51	0.44	15.6	15.5	95.0	4.71	3.8	45	0.06	16.0	0.42	750	0.61	0.041	32.2	522	42.61	0.16	4.04	2.5	0.7	49.0	0.08	9.6	0.006	0.28	1.8	10	1.5	124.2
8	BKSPS008	7	0.2	0.74	103.2	20.0	4.60	0.47	0.38	14.0	12.0	81.7	4.00	2.8	30	0.04	11.0	0.35	721	0.55	0.030	28.1	419	35.86	0.12	3.70	2.0	0.5	41.0	0.06	8.7	0.005	0.24	1.4	8	0.9	109.1
9	BKSPS009	5	0.2	0.86	112.0	23.0	4.98	0.58	0.42	15.3	13.5	89.9	4.48	3.3	35	0.04	13.5	0.40	779	0.60	0.033	31.1	468	37.01	0.16	3.52	2.1	0.6	49.5	0.06	10.3	0.003	0.28	1.6	8	0.8	122.6
10	BKSPS010	4	0.2	0.80	140.8	20.5	4.70	0.31	0.41	14.7	12.5	89.0	4.35	3.1	35	0.04	13.0	0.37	707	0.69	0.031	29.4	420	35.23	0.18	3.02	2.0	0.5	33.5	0.06	9.8	0.002	0.26	1.5	6	0.8	112.8
11	BKSPS011	4	0.2	0.88	129.5	21.0	3.92	0.29	0.36	15.0	13.5	78.1	4.28	3.3	35	0.04	13.5	0.40	718	0.58	0.034	31.2	457	40.51	0.14	2.90	2.0	0.5	32.5	0.06	10.4	0.004	0.22	1.5	8	0.9	118.0
12	BKSPS012	4	0.2	0.96	116.3	24.0	3.18	0.35	0.45	16.7	14.5	84.9	4.75	3.7	35	0.04	17.5	0.45	767	0.98	0.034	34.6	512	43.04	0.16	3.22	2.2	0.6	39.0	0.08	11.6	0.004	0.26	1.8	8	0.9	132.5
13	BKSPS013	2	0.2	0.97	20.2	21.0	0.40	0.39	0.12	13.8	13.0	24.0	3.25	3.3	15	0.04	17.0	0.43	239	0.25	0.025	25.1	472	38.31	0.06	1.76	1.8	0.5	42.0	0.04	7.3	0.005	0.04	1.0	6	<0.1	92.0
14	BKSPS014	2	0.2	1.12	19.1	23.0	0.54	0.28	0.26	15.5	16.0	30.5	3.87	4.0	20	0.04	23.5	0.52	573	0.31	0.022	33.0	600	43.54	0.08	1.98	2.0	0.8	33.5	0.06	10.4	0.005	0.04	1.5	8	<0.1	115.8
15	BKSPS015	1	0.3	1.03	21.2	15.0	0.60	0.34	0.33	16.3	14.5	35.0	3.81	3.5	15	0.02	14.0	0.53	555	0.28	0.023	34.2	512	48.65	0.06	1.42	1.7	0.4	31.0	0.04	11.1	0.005	0.04	1.1	6	<0.1	129.8
16	BKSPS016	2	0.3	1.24	19.0	29.5	0.44	0.30	0.23	20.6	16.0	31.9	4.16	4.0	25	0.04	18.5	0.55	913	0.38	0.025	35.3	731	48.66	0.06	1.94	2.3	0.8	42.0	0.04	9.4	0.001	0.04	2.0	8	<0.1	112.5
17	BWSPS001	1	0.1	1.09	8.2	25.5	0.22	0.21	0.10	8.4	13.5	13.8	2.51	3.7	10	0.03	20.0	0.41	124	0.21	0.026	22.3	394	20.77	0.08	0.90	1.2	0.5	22.0	0.02	6.3	0.005	0.04	1.4	8	<0.1	68.0
18	BWSPS002	1	0.1	0.65	7.8	28.0	0.16	6.28	0.18	5.1	8.5	8.1	2.15	2.0	10	0.06	4.5	0.26	287	0.09	0.038	10.7	514	18.63	0.36	0.60	1.2	0.7	156.5	0.04	3.4	0.002	0.02	0.5	2	<0.1	45.0
19	BWSPS003	1	0.2	1.04	17.2	20.0	0.40	0.36	0.18	16.5	15.0	30.2	3.98	3.8	10	0.03	21.5	0.51	694	0.32	0.023	33.0	457	44.03	0.06	1.62	1.8	0.4	28.5	0.04	12.2	0.005	0.04	1.2	6	<0.1	102.5
20	BWSPS004	1	0.2	0.84	21.9	19.0	0.38	0.19	0.20	14.1	13.5	31.3	3.62	3.0	15	0.03	14.0	0.39	528	0.27	0.025	31.2	427	45.78	0.06	1.58	2.0	0.4	22.5	0.04	10.6	0.005	0.04	1.1	6	<0.1	119.5
21	BWSPS005	1	0.1	1.28	17.3	28.5	0.94	0.38	0.13	16.1	19.0	27.7	4.04	4.3	15	0.02	18.5	0.62	1087	0.29	0.027	36.0	520	29.20	0.06	1.42	1.7	0.9	45.5	0.06	7.6	0.001	0.06	2.3	8	<0.1	96.9
22	BWSPS006	2	0.2	0.85	83.2	27.5	0.94	0.91	0.27	19.1	12.5	38.7	4.05	3.0	25	0.03	15.0	0.41	956	0.34	0.024	37.5	523	43.69	0.10	1.74	2.1	0.4	48.5	0.06	11.5	0.005	0.08	1.7	6	0.1	113.2
23	BWSPS007	1	0.2	0.95	78.0	20.5	0.74	0.35	1.36	16.4	14.0	34.0	3.97	3.5	20	0.04	18.0	0.45	766	0.32	0.034	36.1	508	42.56	0.08	1.56	2.1	0.5	41.0	0.06	11.7	0.003	0.08	1.5	6	0.1	249.5
24	ETSPS001	2	0.1	0.67	32.9	16.5	0.22	0.08	1.97	83.8	7.5	34.0	2.53	4.1	20	0.03	90.0	0.08	2623	0.27	0.021	121.3	315	26.58	0.06	0.90	1.2	1.6	12.0	0.04	8.4	0.001	0.20	1.7	4	0.2	254.6
25	ETSPS002	9	0.8	1.05	261.8	24.5	2.78	0.48	0.90	9.6	13.5	34.1	3.01	4.0	50	0.06	44.5	0.24	379	2.47	0.035	21.9	690	65.02	0.12	2.04	1.6	1.2	32.0	0.04	3.0	0.007	0.14	4.1	14	8.8	152.8
26	ETSPS003	2	0.1	0.48	45.5	14.0	0.30	0.08	0.74	31.4	11.0	32.2	2.91	2.6	15	0.03	43.0	0.13	846	0.61	0.020	59.9	383	26.58	0.04	1.10	1.5	0.9	10.0	0.02	9.8	0.001	0.16	1.6	6	0.3	146.9
27	ETSPS004	1	0.6	0.71	58.3	149.5	0.88	2.15	1.88	10.3	12.0	29.2	2.80	2.7	30	0.09	19.5	0.81	528	8.13	0.026	33.5	816	39.69	0.08	3.64	3.0	1.5	90.0	0.04	3.9	0.001	0.18	1.3	32	0.2	269.6
28	ETSPS005	4	0.2	1.28	46.4	18.0	0.28	0.08	1.84	78.1	9.0	43.9	3.38	6.2	30	0.04	146.0	0.10	2472	0.37	0.022	102.7	421	35.20	0.12	1.46	1.5	2.9	12.5	0.04	11.0	0.001	0.24	3.1	6	0.3	261.7
29	ETSPS006	3	0.3	0.90	97.4	21.5	1.60	0.27	0.15	18.9	13.0	38.5	3.68	3.2	20	0.02	15.0	0.42	775	0.28	0.021	33.1	508	44.52	0.06	1.70	2.0	0.5	27.5	0.06	9.9	0.005	0.04	1.5	6	<0.1	96.1
30	ETSPS007	3	0.2	0.70	91.2	24.0	0.98	0.23	0.33	19.4	11.0	39.4	3.70	2.5	20	0.03	13.0	0.33	890	0.33	0.020	35.9	480	42.47	0.12	2.10	1.9	0.5	34.5	0.04	9.4	0.001	0.08	1.6	4	0.1	108.1

ECO TECH LABORATORY LTD.

ICP CERTIFICATE OF ANALYSIS AW 2010- 8109

TerraLogic Exploration Inc.

Et #	Tag #	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Se ppm	Sr ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
31	ETSPS008	2	0.2	0.67	63.7	20.5	0.76	0.48	0.23	14.7	10.0	29.2	3.26	2.4	20	0.03	13.5	0.34	700	0.27	0.020	30.4	408	32.25	0.08	1.56	1.5	0.4	33.5	0.02	8.7	0.001	0.06	1.2	4	<0.1	92.0
32	ETSPS009	1	0.2	0.60	43.4	14.5	0.60	0.32	0.18	12.6	9.0	27.6	2.98	2.3	15	0.02	14.5	0.32	520	0.23	0.019	26.9	385	33.31	0.08	1.20	1.4	0.4	28.5	0.04	9.0	0.005	0.04	1.0	4	<0.1	86.1
33	ETSPS010	2	0.2	1.19	23.5	34.0	0.66	0.44	0.12	16.6	15.0	30.3	3.98	3.9	20	0.04	14.0	0.52	549	0.39	0.027	31.7	569	40.24	0.10	1.54	2.0	0.8	52.5	0.04	8.5	0.001	0.04	2.1	8	<0.1	106.5
34	ETSPS011	1	0.2	0.74	59.1	19.5	0.60	0.40	0.21	14.1	11.0	29.7	3.38	2.7	15	0.03	15.5	0.38	681	0.28	0.029	30.0	419	32.66	0.08	1.50	1.6	0.4	40.5	0.04	10.1	0.002	0.06	1.3	4	<0.1	94.7
35	LJSPS001	14	2.7	4.08	137.4	47.5	0.86	0.05	21.91	123.4	10.0	113.7	2.93	4.5	30	0.05	50.5	0.07	>10000	0.41	0.025	469.4	473	182.50	0.64	3.70	2.8	3.4	13.0	0.04	9.0	0.001	0.54	7.0	6	0.3	1707.0
36	LJSPS002	12	1.5	4.50	92.1	42.5	0.54	0.07	39.69	177.0	11.5	99.6	3.17	4.7	30	0.05	40.0	0.12	>10000	0.31	0.028	622.6	473	131.60	0.68	3.50	2.3	3.0	10.5	0.04	8.0	0.001	0.32	6.9	8	0.3	2599.0
37	LJSPS003	9	2.5	1.64	53.6	19.5	0.38	0.08	3.82	60.6	22.0	45.2	12.81	3.8	25	0.06	13.5	0.18	3171	0.25	0.029	76.0	380	507.90	1.04	3.32	6.4	0.9	9.5	0.18	55.0	0.004	0.20	3.9	8	0.2	476.3
38	LJSPS004	8	2.9	2.87	54.9	18.0	0.38	0.09	4.67	123.1	24.0	65.9	14.74	4.2	25	0.06	16.5	0.16	5449	0.25	0.031	106.4	362	862.50	1.30	3.32	9.0	1.3	12.0	0.14	67.3	0.004	0.20	7.8	6	0.2	651.8
39	LJSPS005	8	3.6	3.49	49.0	15.0	0.32	0.09	4.71	150.8	27.0	67.4	17.40	4.2	30	0.05	15.0	0.13	6513	0.23	0.034	108.9	322	1035.00	1.68	2.94	10.9	1.2	11.0	0.20	79.0	0.004	0.18	8.9	6	0.2	614.6
40	LJSPS006	8	0.4	2.01	103.1	36.0	2.72	0.56	19.13	110.8	15.5	98.7	4.71	7.0	25	0.05	164.0	0.39	5835	0.51	0.038	241.4	453	141.90	0.16	4.28	3.6	3.0	60.5	0.10	12.0	0.007	0.20	4.1	10	0.7	2415.0
41	LJSPS007	7	0.2	1.38	94.5	28.5	3.20	0.47	11.75	82.5	13.5	80.8	3.77	5.8	20	0.05	122.5	0.36	3917	0.49	0.035	146.8	392	43.56	0.12	3.84	2.7	2.1	48.5	0.06	9.0	0.007	0.18	2.3	10	0.6	1442.0
42	LJSPS008	6	0.2	1.00	98.0	23.5	3.66	0.39	7.46	62.5	12.5	76.8	3.71	4.3	20	0.04	61.0	0.36	2867	0.45	0.031	108.2	386	37.21	0.12	4.24	2.3	1.2	41.0	0.04	8.5	0.006	0.18	1.6	8	0.7	867.9
43	LJSPS009	8	0.2	1.11	109.1	25.0	4.30	0.38	6.75	48.5	15.0	76.0	4.25	4.4	25	0.05	49.5	0.42	2021	0.51	0.036	88.4	460	43.90	0.14	6.42	2.6	1.1	44.5	0.06	9.4	0.007	0.18	1.7	10	1.0	775.9
44	LJSPS010	8	0.3	1.64	60.7	31.5	0.54	0.39	15.34	101.0	16.0	59.3	3.43	6.6	15	0.05	115.5	0.48	4691	0.26	0.040	189.5	456	61.68	0.10	6.52	2.8	2.3	58.0	0.06	9.3	0.006	0.10	2.5	10	0.1	1630.0
45	LJSPS011	44	0.5	1.34	100.1	33.5	0.72	0.40	10.71	75.3	16.0	58.1	3.66	5.2	15	0.06	64.5	0.46	3654	0.25	0.045	160.2	467	103.70	0.10	22.26	2.9	1.3	52.5	0.06	9.7	0.007	0.14	1.8	10	0.2	942.7
46	LJSPS012	8	0.3	2.54	54.1	38.0	0.44	0.52	21.58	163.2	16.5	97.7	3.42	10.8	20	0.05	278.0	0.42	7377	0.28	0.045	261.3	439	74.26	0.14	4.30	4.9	4.9	76.5	0.06	10.7	0.005	0.10	5.1	8	0.2	2753.0
47	LJSPS013	6	0.3	1.66	41.6	32.0	0.40	0.53	22.71	163.8	14.0	69.9	3.00	6.7	20	0.04	139.0	0.42	7231	0.25	0.039	286.8	426	58.76	0.12	5.02	2.9	2.5	67.0	0.04	8.1	0.004	0.08	3.5	8	0.1	2003.0
48	LJSPS014	4	0.2	1.58	40.1	30.0	0.44	0.35	16.68	151.2	16.5	54.3	3.57	6.3	10	0.05	104.5	0.53	6360	0.32	0.040	201.0	448	58.06	0.10	2.18	2.7	1.8	52.5	0.04	9.8	0.004	0.08	2.9	8	<0.1	1489.0
49	LJSPS015	7	0.4	1.13	623.2	35.5	4.34	0.62	0.93	12.2	14.0	42.4	3.46	4.5	40	0.07	33.5	0.37	598	4.10	0.033	25.1	707	62.44	0.14	2.38	1.0	1.2	33.0	0.06	1.5	0.005	0.16	4.0	16	5.1	134.7
50	LJSPS016	2	0.2	1.05	26.5	18.0	0.38	0.27	0.66	14.2	14.5	24.5	3.15	3.6	10	0.04	19.5	0.51	601	0.24	0.041	29.7	424	38.19	0.06	1.46	1.6	0.5	44.0	0.06	8.2	0.004	0.04	1.0	8	<0.1	141.3
51	LJSPS017	3	0.2	1.01	25.6	17.0	0.38	0.27	0.37	11.9	14.0	20.8	3.22	3.5	15	0.03	19.0	0.50	403	0.20	0.033	23.4	431	36.78	0.06	1.48	1.5	0.4	31.0	0.04	8.3	0.003	0.04	1.3	6	<0.1	99.7
52	LJSPS018	2	0.2	1.00	23.2	15.0	0.40	0.40	0.21	11.4	14.0	23.8	3.16	3.4	10	0.03	13.0	0.52	451	0.19	0.035	24.7	414	35.15	0.08	1.36	1.4	0.4	41.0	0.04	8.3	0.004	0.04	0.9	8	<0.1	97.4
53	LJSPS019	2	0.2	1.05	23.4	16.5	0.38	0.44	0.21	11.7	14.5	23.7	3.18	3.5	10	0.04	13.5	0.52	468	0.23	0.038	24.7	436	35.28	0.08	1.32	1.5	0.4	48.0	0.04	8.3	0.004	0.04	0.9	8	<0.1	96.6
54	LJSPS020	4	0.3	1.12	65.1	24.0	0.54	0.38	0.28	12.7	14.5	27.4	3.36	3.6	20	0.04	13.5	0.45	488	0.31	0.032	26.7	578	47.14	0.08	1.80	1.7	0.6	38.5	0.04	5.6	0.003	0.06	3.2	8	<0.1	112.6
55	LJSPS021	3	0.2	1.24	29.2	20.5	0.44	0.36	0.28	13.8	17.0	30.5	3.69	4.1	10	0.05	14.5	0.58	535	0.23	0.053	28.7	500	43.32	0.10	1.66	2.0	0.4	59.0	0.04	8.7	0.006	0.04	1.2	10	<0.1	111.2
56	LJSPS022	15	0.7	1.60	752.8	36.0	6.26	0.99	1.16	15.6	20.0	92.6	3.92	5.5	30	0.08	29.0	0.49	434	1.13	0.056	33.3	841	160.90	0.18	3.28	2.3	1.3	74.5	0.12	4.3	0.010	0.12	5.2	20	0.8	267.0
57	LJSPS023	6	0.8	1.01	191.0	41.5	3.98	1.30	16.58	7.9	10.0	42.7	2.10	3.2	70	0.17	86.5	0.36	562	2.84	0.046	44.1	1186	54.61	0.40	1.10	1.3	3.3	59.5	0.04	1.9	0.005	0.18	2.2	8	3.5	293.4
58	LJSPS024	3	0.1	0.71	35.6	15.0	0.24	0.09	1.44	59.1	9.0	36.1	2.84	3.4	15	0.03	75.5	0.11	1787	0.30	0.021	106.5	347	28.38	0.06	1.10	1.4	1.4	11.5	0.04	8.8	0.001	0.20	1.7	6	0.3	220.1
59	LJSPS025	13	0.5	1.88	206.9	79.0	1.86	0.57	0.29	16.5	23.5	49.7	5.88	6.2	105	0.10	67.0	0.34	1082	6.23	0.031	50.4	1043	60.44	0.12	2.40	3.4	1.5	46.5	0.06	8.1	0.006	0.58	7.8	22	0.8	128.1
60	AHSPS001	6	0.3	1.14	809.6	40.5	1.62	0.52	0.23	14.9	18.5	100.3	3.59	4.4	20	0.12	22.5	0.50	589	0.37	0.033	31.4	496	25.86	0.06	3.82	3.1	0.6	37.0	0.06	8.6	0.013	0.26	1.4	16	0.2	82.6
61	AHSPS002	14	0.6	1.91	832.6	57.0	6.76	0.86	0.91	14.1	24.0	74.8	4.31	6.0	45	0.11	35.0	0.49	269	2.48	0.042	39.6	873	78.68	0.18	2.12	3.1	1.4	56.0	0.10	5.6	0.008	0.16	2.6	20	3.6	176.6
QC DATA:																																					
Repeat:																																					
1	BKSPS001	7	0.9	0.67	41.1	34.0	0.56	0.69	5.32	7.7	10.0	20.8	2.78	2.5	30	0.05	18.5	0.20	271	0.23	0.025	18.8	535	155.20	0.08	2.42	1.4	0.6	35.5	0.04	4.7	0.001	0.08	1.6	6	0.2	396.8
10	BKSPS010	3	0.2	0.77	136.5	18.5	4.88	0.29	0.39	13.6	11.5	89.4	4.26	2.9	35	0.04	11.5	0.36	690	0.56	0.030	27.8	394	33.50	0.17	2.90	1.8	0.5	31.5	0.04	9.2	0.003	0.24	1.5	6	0.8	108.5
19	BWSPS003	1	0.2	1.01	16.8	19.0	0.40	0.34	0.16	16.0	14.0	29.1	3.85	3.7	10	0.03	20.0	0.50	682	0.30	0.024	32.4	426	42.48	0.04	1.64	1.7	0.4	27.0	0.06	11.5	0.005	0.04	1.2	6	<0.1	99.8
36	LJSPS002	10	1.4	4.41	88.4	46.5	0.52	0.07	41.84	180.0	11.5	101.5	3.13	4.8	30	0.05	43.5	0.12	>10000	0.33	0.028	715.7	464	131.90	0.62	3.34	2.5	3.1	10.5	0.02	8.9	0.001	0.36	6.8	8	0.3	2619.0
45	LJSPS011	40	0.4	1.24	96.4	30.0	0.66	0.39	9.91	73.0	15.0	56.8	3.54	4.7	15	0.05	61.5	0.45	3585	0.25	0.044	156.9	426	96.10	0.08	19.44	2.7	1.2	48.0	0.06	9.5	0.006	0.14	1.7	10	0.2	1927.7
Standard:																																					
OXE74		610	0.1	1.72	1.3	70.5	0.10	0.86	0.04	21.6	57.5	30.0	3.28	6.4	<5	0.42	13.0	1.51	490	1.75	0.708	80.5	1077	9.77	0.10	<0.02	1.5	0.2	182.5	0.06	2.0	0.403	0.04	0.6	52	0.2	42.0
OXE74		607	0.1	1.64	1.6	68.5	0.10	0.79	0.04	19.4	52.0	27.8	3.20	5.9	<5	0.39	12.5	1.55	474	1.75	0.712	79.3	1017	10.10	0.08	<0.02	1.2	0.2	177.0	0.04	1.9	0.397	0.04	0.6	48	0.2	43.0

Aqua Regia Digest/ICPMS Finish

NM/nw
df/msr8109AuS
XLS/10

ECO TECH LABORATORY LTD.
Norman Monteith
B.C. Certified Assayer

Eco Tech Laboratory Ltd.
2953 Shuswap Road
Kamloops, BC
V2H 1S9 Canada
Tel + 1 250 573 5700
Fax + 1 250 573 4557
Toll Free + 1 877 573 5755
www.stewartgroupglobal.com

StewartGroup
Geochemical & Assay

CERTIFICATE OF ASSAY AW 2010-8110

TerraLogic Exploration Inc. 16-Sep-10
#200, 44-12th Ave S.
Cranbrook, BC
V1C 2R7

No. of samples received: 21
Sample Type: Dirt
Project: Sprogge
Shipment #: SP10-001
Submitted by: Aaron Higgs

ET #.	Tag #	Ag (g/t)	Ag oz/t)
13	LJSPD005	42.3	1.23

QC DATA:
Standard:
GBM908-14 300 8.75

NM/nw
XLS/10

ECO TECH LABORATORY LTD.
Norman Monteith
B.C. Certified Assayer

All business is undertaken subject to the Company's General Conditions of Business which are available on request. Registered Office: Eco Tech Laboratory Ltd., 2953 Shuswap Road, Kamloops, BC V2H 1S9 Canada

13-Sep-10

Stewart Group
ECO TECH LABORATORY LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AW 2010- 8110

TerraLogic Exploration Inc.
#200, 44-12th Ave S.
Cranbrook, BC
V1C 2R7

No. of samples received: 21
Sample Type: Dirt
Project: Sprogge
Shipment #: SP10-001
Submitted by: Aaron Higgs

Values in ppm unless otherwise reported

Et #	Tag #	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Se ppm	Sr ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
1	BWSPD001	5	0.2	1.17	81.4	34.0	1.38	0.12	0.32	18.9	16.0	36.8	4.39	3.7	25	0.04	12.5	0.43	581	2.11	0.022	38.8	413	62.44	0.04	3.66	1.6	0.5	17.5	0.06	4.5	0.005	0.12	2.1	10	0.2	121.3
2	BWSPD002	5	0.1	1.63	134.1	62.0	4.94	0.43	0.44	18.0	22.5	49.1	4.35	5.4	25	0.04	13.0	0.45	915	6.13	0.024	33.7	1201	49.34	0.10	7.98	1.0	0.7	40.0	0.06	2.9	0.007	0.10	4.7	18	0.6	153.4
3	BWSPD003	7	0.1	1.19	81.3	42.0	2.36	0.10	0.43	18.3	16.5	31.7	4.55	4.1	20	0.04	9.0	0.40	1588	4.24	0.020	31.3	327	50.07	0.04	4.68	1.4	0.4	13.5	0.08	3.5	0.005	0.68	2.0	12	0.3	127.4
4	ETSPD001	6	0.3	0.69	31.1	247.5	0.28	0.03	0.81	190.2	8.5	39.1	37.43	3.0	30	0.02	15.0	0.11	>10000	0.89	0.021	402.7	862	63.50	0.06	4.12	1.1	1.1	7.0	0.06	6.2	0.004	2.06	1.7	8	0.1	1090.0
5	ETSPD002	20	1.1	0.65	750.9	13.5	30.88	0.04	0.02	1.9	22.0	376.8	9.41	8.7	30	0.08	4.0	0.20	110	0.61	0.030	3.9	524	30.11	0.18	1.54	4.8	2.7	7.5	0.10	5.9	0.063	0.20	1.8	22	0.8	14.7
6	AHSPD002	8	0.1	1.58	100.6	32.0	2.04	0.07	0.24	15.0	20.5	63.3	5.82	4.2	25	0.02	12.5	0.37	467	0.54	0.019	34.7	543	82.78	<0.02	5.90	1.8	0.5	9.5	0.04	9.5	0.002	0.18	1.2	12	0.4	119.5
7	AHSPD003	8	0.2	1.18	66.5	41.5	1.08	0.18	0.22	21.0	19.5	56.0	4.62	4.3	30	0.10	14.0	0.40	714	0.43	0.028	43.2	452	43.70	0.04	6.34	3.2	0.4	25.5	0.06	14.6	0.011	0.40	0.9	16	0.2	115.3
8	AHSPD004	7	0.2	1.34	64.7	37.5	1.32	0.38	0.38	23.6	23.0	57.9	4.79	4.8	25	0.11	12.5	0.43	865	0.49	0.055	48.1	499	44.89	0.06	6.34	3.5	0.4	46.0	0.04	14.9	0.016	0.42	1.0	20	0.3	127.1
9	LJSPD001	37	0.4	0.35	164.6	17.5	38.86	0.02	0.10	4.8	7.5	73.7	8.97	9.4	150	0.01	5.5	0.02	1300	50.34	0.017	4.4	437	11.74	0.04	83.52	0.4	0.8	2.5	0.22	1.4	0.043	0.18	0.7	46	18.5	54.8
10	LJSPD002	<1	0.1	0.02	4585.0	152.0	0.02	>10	0.06	76.0	<0.5	2.2	29.42	0.5	35	<0.01	0.5	0.03	6354	0.29	0.020	199.2	699	7.93	0.06	7.74	0.8	0.1	294.5	0.06	<0.1	0.001	2.38	1.2	<2	15.2	196.9
11	LJSPD003	22	1.3	0.33	2173.0	25.5	19.96	0.01	0.16	2.1	5.0	28.5	2.99	3.5	60	0.03	5.5	0.03	134	11.87	0.023	4.6	318	211.50	0.08	6.98	0.2	0.3	6.0	0.22	0.4	0.003	0.16	0.6	14	17.4	57.3
12	LJSPD004	37	21.4	0.43	6830.0	24.0	59.46	0.04	1.36	10.1	12.5	881.6	23.01	2.7	60	0.14	28.0	0.04	442	0.99	0.120	16.4	814	4114.00	1.18	9.42	2.2	2.8	111.5	0.52	19.9	0.002	0.26	1.3	16	0.4	1019.0
13	LJSPD005	621	>30	0.12	>10000	11.0	315.40	0.01	4.73	4.0	4.5	2105.0	18.84	1.8	55	0.13	5.5	0.03	201	1.67	0.035	2.8	192	1461.00	1.30	71.10	1.4	14.3	20.0	4.82	7.3	0.011	0.18	0.3	10	24.4	295.8
14	AHSPD010	17	0.2	1.08	136.6	27.0	1.54	0.09	0.27	18.9	15.0	66.1	3.77	3.9	20	0.03	18.0	0.38	573	0.30	0.021	36.8	414	54.56	<0.02	13.24	2.1	0.6	11.5	0.06	10.3	0.005	0.22	1.0	10	0.2	110.0
15	AHSPD011	8	0.1	1.58	62.3	25.0	1.38	0.06	0.13	8.7	18.5	28.3	3.70	6.0	20	0.03	10.0	0.32	278	0.55	0.020	20.8	414	41.39	<0.02	4.62	1.4	0.3	9.0	0.06	5.5	0.005	0.12	0.9	18	0.2	107.0
16	AHSPD012	5	0.3	1.51	73.8	24.5	1.08	0.02	0.17	7.9	18.0	25.9	4.26	4.4	40	0.02	8.5	0.25	310	0.62	0.021	17.9	320	47.71	<0.02	4.74	0.7	0.3	4.5	0.04	2.7	0.007	0.10	0.8	14	0.3	94.0
17	AHSPD013	21	0.4	1.06	145.9	31.5	1.34	0.02	0.27	10.4	15.5	44.4	4.11	4.4	45	0.04	11.0	0.23	328	0.60	0.019	24.6	236	52.31	<0.02	9.60	1.0	0.3	5.0	0.04	2.9	0.003	0.20	0.9	16	0.3	111.8
18	AHSPD014	41	0.3	1.14	216.5	42.0	1.40	0.02	0.43	12.6	18.0	59.3	4.60	4.0	35	0.05	13.5	0.30	441	0.59	0.021	29.4	287	62.56	<0.02	12.76	1.1	0.5	6.0	0.06	3.2	0.002	0.32	1.1	14	0.3	157.5
19	AHSPD019	115	1.3	0.77	346.0	27.0	0.82	0.16	1.91	18.8	12.0	65.6	4.63	2.9	55	0.02	15.0	0.26	559	0.52	0.020	43.3	365	206.20	0.02	24.40	1.4	0.7	20.5	0.04	4.5	0.002	0.16	3.3	8	0.5	599.8
20	AHSPD020	53	1.1	0.97	386.5	34.0	0.92	0.15	2.34	20.3	15.0	63.1	4.33	3.6	45	0.03	18.0	0.36	818	0.46	0.024	42.3	393	251.30	<0.02	18.38	1.9	0.7	20.5	0.06	6.2	0.002	0.14	3.1	10	0.3	560.1
21	AHSPD021	54	1.1	1.02	290.9	39.5	1.30	0.21	3.16	23.8	16.5	71.3	4.55	3.8	40	0.04	20.5	0.37	1146	0.45	0.023	52.8	515	211.70	<0.02	18.86	2.4	0.8	26.5	0.06	7.0	0.004	0.22	2.5	10	0.3	615.2
QC DATA:																																					
Repeat:																																					
1	BWSPD001	6	0.5	1.15	82.4	35.0	1.32	0.12	0.27	19.1	16.5	38.4	4.41	3.9	20	0.03	13.5	0.42	584	2.15	0.022	39.1	411	63.16	0.02	3.72	1.6	0.5	18.0	0.04	4.4	0.005	0.12	2.1	10	0.2	121.8
10	LJSPD002	<1	0.2	0.02	4626.0	150.5	<0.02	>10	0.09	73.2	<0.5	2.2	30.61	0.5	40	<0.01	0.5	0.03	6411	0.31	0.023	208.9	745	7.41	0.06	8.06	0.9	0.1	302.0	0.08	<0.1	0.001	2.40	1.4	<2	17.6	200.9
13	LJSPD005	* 670																																			
19	AHSPD019	* 120																																			
20	AHSPD020	* 60																																			

**** 15g FA***

ECO TECH LABORATORY LTD.

ICP CERTIFICATE OF ANALYSIS AW 2010- 8110

TerraLogic Exploration Inc.

Et #	Tag #	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Se ppm	Sr ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
Standard:																																				
OXE74		609	0.4	1.63	2.5	71.5	0.10	0.78	0.06	22.9	57.0	30.2	3.41	6.3	15	0.39	14.5	1.54	487	1.87	0.715	81.4	1042	20.77	0.02	0.08	1.2	0.2	179.0	0.04	1.9	0.411	0.06	0.6	51	0.1	47.1

Aqua Regia Digest/ICPMS Finish

NM/nw
df/msr8110AuS
XLS/10

ECO TECH LABORATORY LTD.
Norman Monteith
B.C. Certified Assayer

20-Sep-10

Stewart Group
ECO TECH LABORATORY LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AW 2010- 8111

TerraLogic Exploration Inc.
#200, 44-12th Ave S.
Cranbrook, BC
V1C 2R7

No. of samples received: 195
Sample Type: Soils
Project: Sprogge
Shipment #: SP10-001
Submitted by: Aaron Higgs

Values in ppm unless otherwise reported

Et #.	Tag #	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Se ppm	Sr ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
1	SPL001 00+00	10	0.3	1.62	247.0	64.0	3.68	0.12	0.19	10.6	22.5	50.3	4.15	7.3	25	0.10	25.5	0.35	375	3.41	0.037	25.9	902	41.69	0.06	3.74	1.0	0.6	18.0	0.12	1.9	0.003	0.26	1.3	30	1.5	89.4
2	SPL001 00+25W	20	0.3	1.57	738.3	57.5	4.92	0.13	0.18	29.1	19.0	79.7	4.79	5.9	30	0.10	42.5	0.30	1217	1.40	0.037	37.0	777	53.92	0.04	8.52	2.0	1.0	21.0	0.16	3.1	0.002	0.22	2.1	24	0.7	99.7
3	SPL001 00+50W	14	0.1	1.48	244.4	30.5	6.14	0.05	0.08	8.0	24.0	55.1	2.61	6.1	25	0.08	13.5	0.37	173	0.67	0.041	21.3	530	13.53	0.04	2.40	1.0	0.4	9.0	0.12	1.0	0.013	0.14	0.7	28	0.6	41.2
4	SPL001 00+75W	9	0.2	1.82	350.6	35.0	8.56	0.13	0.14	16.1	25.5	287.1	4.03	8.9	25	0.07	19.0	0.33	419	1.39	0.033	27.7	740	24.08	0.04	5.18	1.3	0.7	14.5	0.08	2.8	0.005	0.20	0.9	34	1.0	61.7
5	SPL001 01+00W	9	0.2	0.99	103.6	21.5	26.42	0.17	0.09	4.4	10.0	73.7	2.36	5.6	30	0.07	8.0	0.12	145	0.66	0.044	8.3	953	8.98	0.06	2.86	0.4	0.7	13.5	0.04	0.3	0.010	0.14	0.6	24	1.6	22.9
6	SPL001 01+25W	25	0.7	1.65	1103.0	48.0	20.60	0.37	0.93	32.8	22.5	209.1	5.94	6.9	20	0.19	40.5	0.49	1172	0.83	0.044	52.4	646	97.38	0.06	8.34	3.5	1.0	49.5	0.28	12.2	0.015	0.28	2.3	22	0.9	182.0
7	SPL001 01+50W N/S																																				
8	SPL001 01+75W	12	0.2	1.90	99.6	41.0	2.00	0.22	0.67	19.4	28.5	75.8	5.06	6.5	15	0.08	19.0	0.61	512	1.46	0.037	31.7	678	99.73	0.04	2.66	1.5	0.4	19.5	0.08	4.5	0.008	0.14	1.4	26	0.6	154.2
9	SPL001 02+00W	8	0.3	2.03	217.4	54.5	3.28	0.35	0.38	11.6	33.0	61.1	6.03	8.5	25	0.08	19.0	0.66	351	2.24	0.034	28.5	1149	90.74	0.06	2.84	1.6	0.4	29.5	0.12	4.7	0.007	0.16	1.3	32	0.9	144.2
10	SPL002 00+00	6	0.1	1.87	104.1	44.5	1.86	0.93	0.20	14.2	26.0	63.8	3.60	6.9	15	0.14	27.0	0.71	486	0.40	0.050	33.2	622	21.81	0.02	2.92	3.6	0.7	61.0	0.04	7.4	0.016	0.22	1.1	24	0.3	76.5
11	SPL002 00+25W	5	0.2	1.82	92.3	44.0	2.04	0.68	0.20	15.5	26.0	59.4	3.83	6.7	15	0.16	29.0	0.77	511	0.35	0.057	34.9	693	25.90	<0.02	2.96	4.3	0.6	55.0	0.06	12.4	0.023	0.22	0.9	22	0.3	91.9
12	SPL002 00+50W	15	0.3	1.32	146.7	33.5	4.04	0.59	0.29	15.1	19.0	82.6	3.78	4.8	30	0.12	22.0	0.49	462	0.40	0.055	28.5	630	43.17	<0.02	4.58	3.5	0.7	46.5	0.08	8.7	0.012	0.34	0.8	16	0.5	107.7
13	SPL002 00+75W	4	0.1	1.08	49.4	18.5	1.26	0.22	0.21	10.5	13.5	35.5	3.78	4.6	15	0.04	20.5	0.36	312	0.34	0.028	25.1	475	32.50	<0.02	2.64	1.3	0.4	17.0	0.04	4.2	0.004	0.10	0.8	12	0.6	100.9
14	SPL002 01+00W	6	0.3	1.60	82.8	26.5	2.60	0.05	0.12	9.0	30.0	34.5	5.29	8.4	35	0.08	22.5	0.59	309	0.51	0.029	26.7	430	33.22	0.02	2.94	2.0	0.5	9.0	0.06	7.1	0.019	0.16	0.8	24	0.7	92.2
15	SPL002 01+25W	26	0.1	0.50	234.6	23.0	1.40	0.02	0.14	7.5	7.5	30.4	3.14	3.7	15	0.06	27.0	0.04	157	0.54	0.025	20.4	327	25.76	<0.02	11.90	1.1	0.5	10.0	0.06	3.5	0.001	0.18	0.6	14	0.8	83.7
16	SPL002 01+50W	29	0.2	1.87	335.4	44.5	4.70	0.11	0.35	25.9	22.0	205.5	5.18	5.6	115	0.10	31.5	0.44	861	0.67	0.028	48.8	576	63.08	<0.02	7.84	4.1	1.1	14.0	0.10	13.8	0.009	0.80	1.8	18	0.8	138.5
17	SPL002 01+75W	19	0.4	1.36	178.5	39.0	4.98	0.47	0.45	19.9	20.5	123.8	4.58	5.0	45	0.16	23.5	0.35	801	0.47	0.050	41.3	457	41.21	0.02	5.46	3.6	0.6	36.5	0.08	12.2	0.011	0.60	1.1	20	0.7	128.9
18	SPL002 02+00W	26	0.5	2.03	216.3	44.0	9.88	0.18	0.24	15.1	28.0	125.7	6.21	6.3	65	0.10	24.5	0.35	483	0.66	0.027	34.9	692	67.71	0.02	6.58	3.4	0.7	13.0	0.08	14.2	0.014	0.50	1.3	22	1.0	111.4
19	SPL002 02+25W	8	0.2	1.65	57.6	35.0	1.18	0.07	0.19	9.0	21.5	46.5	4.25	5.2	25	0.05	20.5	0.37	398	0.38	0.028	26.3	552	40.79	<0.02	4.84	2.2	0.5	11.0	0.06	7.8	0.005	0.16	0.7	14	0.3	90.8
20	SPL002 02+50W	9	0.1	1.22	37.6	24.0	1.08	0.04	0.08	6.8	16.5	33.0	4.16	6.6	20	0.04	20.0	0.28	199	0.41	0.027	19.7	493	28.51	0.02	2.50	1.0	0.4	7.0	0.04	2.4	0.003	0.12	0.7	18	0.2	70.8
21	SPL002 02+75W	6	0.1	1.51	44.2	28.0	1.04	0.07	0.12	8.0	19.5	41.0	4.13	5.5	25	0.05	22.0	0.40	211	0.37	0.025	27.2	616	34.98	<0.02	2.78	1.7	0.5	10.0	0.04	6.9	0.003	0.10	0.9	16	0.4	91.3
22	SPL002 03+00W	9	0.2	1.36	46.1	25.0	1.00	0.06	0.13	6.7	17.5	30.5	3.45	5.7	25	0.05	24.5	0.35	210	0.52	0.029	20.2	538	24.63	0.02	3.34	1.3	0.5	9.5	0.04	4.5	0.004	0.12	0.8	18	0.3	79.4
23	SPL002 03+25W	5	0.1	1.25	58.1	25.0	0.98	0.08	0.19	14.5	18.0	39.5	4.26	4.3	15	0.05	25.0	0.40	463	0.47	0.025	31.4	572	41.67	<0.02	3.24	1.7	0.6	13.0	0.06	9.2	0.002	0.08	0.9	12	0.2	108.3
24	SPL002 03+50W	7	0.1	0.76	64.5	12.0	2.16	0.04	0.10	7.5	14.0	41.6	2.95	5.4	15	0.05	21.5	0.27	252	0.39	0.026	19.9	400	27.94	<0.02	4.96	1.0	0.4	6.0	0.06	1.9	0.006	0.10	0.7	20	0.2	80.2
25	SPL002 03+75W	10	0.2	1.34	74.6	25.5	1.32	0.18	0.30	20.2	20.0	58.0	4.40	5.4	20	0.07	21.5	0.43	1312	0.43	0.043	36.5	589	52.52	0.02	5.92	2.8	0.5	20.5	0.06	8.3	0.011	0.16	1.0	18	0.2	136.8
26	SPL002 04+00W	6	0.1	1.37	51.0	16.0	1.48	0.11	0.16	14.8	17.5	49.5	4.36	4.1	25	0.04	22.0	0.37	512	0.29	0.025	30.4	632	42.11	0.02	2.98	2.1	0.6	12.0	0.04	10.6	0.007	0.10	0.9	10	0.2	95.7
27	SPL002 04+25W	6	0.1	0.95	93.8	19.0	2.48	0.03	0.09	12.6	15.5	47.1	4.99	6.8	30	0.03	20.5	0.23	535	0.49	0.029	26.4	597	50.24	0.04	4.62	0.8	0.5	14.5	0.06	1.7	0.004	0.14	0.9	20	0.4	94.0
28	SPL002 04+50W N/S																																				
29	SPL002 04+75W	11	0.2	1.60	95.7	24.5	1.80	0.07	0.15	11.1	18.5	38.7	3.93	6.0	30	0.04	18.0	0.21	394	0.61	0.031	20.1	585	45.35	0.02	5.12	1.4	0.6	9.5	0.06	4.1	0.009	0.12	0.8	20	0.4	67.5
30	SPL002 05+00W	7	0.2	1.31	76.8	20.0	2.98	0.07	0.10	13.0	23.0	47.8	5.09	6.8	35	0.06	20.0	0.34	711	0.62	0.027	24.8	972	54.39	0.04	4.40	1.3	0.6	10.5	0.08	2.9	0.010	0.14	1.1	22	0.3	83.7

ECO TECH LABORATORY LTD. ICP CERTIFICATE OF ANALYSIS AW 2010- 8111 TerraLogic Exploration Inc.

Et #	Tag #	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Se ppm	Sr ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
76	SPL005 00+75E	22	0.2	1.86	99.4	34.0	1.54	0.13	0.41	25.4	19.0	79.1	4.39	5.6	25	0.08	27.5	0.43	719	0.38	0.030	42.1	743	56.35	<0.02	10.38	2.7	0.7	16.0	0.08	11.3	0.008	0.20	1.1	16	0.2	131.5
77	SPL005 01+00E	20	0.2	1.25	103.4	25.5	1.68	0.27	0.35	20.9	18.5	85.6	4.39	4.9	25	0.13	31.5	0.44	663	0.24	0.036	41.9	498	43.43	<0.02	10.44	3.6	0.6	31.5	0.12	15.0	0.011	0.26	1.0	16	0.2	133.4
78	SPL005 01+25E	20	0.2	1.17	81.6	28.5	1.50	0.27	0.30	14.2	18.0	70.1	3.59	4.6	15	0.11	26.0	0.37	471	0.31	0.040	33.3	420	40.16	0.02	11.26	2.9	0.5	27.5	0.10	10.7	0.010	0.22	0.9	16	0.2	111.7
79	SPL005 01+50E	18	0.7	1.74	142.1	50.5	1.56	0.32	1.79	29.6	22.0	77.2	4.20	7.2	30	0.11	54.0	0.43	1001	0.32	0.045	47.7	666	110.70	0.02	14.94	3.5	1.2	33.5	0.06	12.2	0.006	0.26	2.2	18	0.2	340.6
80	SPL005 01+75E	27	0.2	1.93	94.0	37.0	1.70	0.15	0.37	21.6	21.0	82.8	4.33	6.3	30	0.10	31.5	0.42	625	0.34	0.029	40.6	630	47.43	<0.02	8.70	3.1	0.7	17.0	0.08	13.1	0.012	0.28	1.1	18	0.2	126.8
81	SPL005 02+00E	19	0.2	1.52	108.3	28.5	1.12	0.19	0.41	17.9	18.0	67.5	3.80	5.4	20	0.06	27.5	0.45	526	0.25	0.030	39.4	705	39.87	<0.02	6.50	2.5	0.6	22.0	0.08	13.4	0.010	0.18	1.0	14	0.1	134.5
82	SPL005 02+25E	6	0.1	1.82	93.4	26.5	1.22	0.07	0.13	9.6	24.5	38.3	4.47	7.8	25	0.07	19.5	0.40	334	0.36	0.025	23.6	511	35.63	0.02	4.96	1.9	0.5	7.5	0.08	5.7	0.018	0.16	0.9	22	0.2	82.7
83	SPL005 02+50E	2	0.1	1.18	34.6	14.0	0.70	0.07	0.11	13.1	18.0	28.9	4.31	4.4	20	0.03	21.0	0.36	579	0.28	0.023	27.1	541	38.60	<0.02	2.18	1.6	0.5	9.5	0.06	9.6	0.004	0.06	0.9	10	<0.1	82.2
84	SPL005 02+75E	3	0.3	2.17	36.1	43.5	0.74	0.03	0.15	9.6	23.5	26.7	5.04	6.4	35	0.06	20.0	0.40	377	0.69	0.027	23.8	584	40.25	0.02	1.94	1.8	0.5	7.5	0.04	8.3	0.004	0.10	0.9	22	0.2	82.5
85	SPL005 03+00E	10	0.1	1.17	68.5	24.5	1.42	0.02	0.08	6.7	19.0	29.3	4.31	8.0	25	0.06	23.0	0.30	209	0.49	0.024	19.0	372	28.41	0.02	4.98	1.2	0.5	6.0	0.06	2.8	0.006	0.12	0.8	26	0.2	69.8
86	SPL005 03+25E	6	0.3	1.63	57.2	39.0	1.00	0.06	0.11	7.9	22.0	31.8	3.90	6.6	20	0.06	22.0	0.44	272	0.50	0.026	23.2	521	27.21	<0.02	2.82	1.7	0.4	8.0	0.04	6.2	0.004	0.14	0.8	22	0.2	80.4
87	SPL005 03+50E	6	0.1	1.74	44.8	38.0	0.86	0.07	0.13	7.9	21.5	32.3	3.99	5.8	20	0.06	26.0	0.49	223	0.48	0.023	26.5	544	30.99	<0.02	2.98	1.8	0.5	10.5	0.06	8.9	0.003	0.14	0.9	16	0.1	87.8
88	SPL005 03+75E	8	0.5	1.63	52.7	52.5	0.90	0.06	1.12	22.2	20.5	30.1	4.08	6.1	15	0.06	23.5	0.36	975	0.48	0.028	42.1	478	41.21	<0.02	3.96	1.8	0.6	10.0	0.04	6.4	0.005	0.16	1.1	18	0.1	392.1
89	SPL005 04+00E	12	0.4	2.42	80.1	44.5	1.14	0.13	0.35	16.1	25.0	55.6	4.60	6.5	45	0.09	27.0	0.53	472	0.40	0.029	40.5	772	51.75	0.02	4.06	2.9	0.7	15.0	0.06	12.4	0.010	0.20	1.2	18	0.2	131.3
90	SPL005 04+25E	14	3.5	1.38	78.6	32.0	1.16	0.07	0.10	7.5	23.0	34.5	4.52	7.2	35	0.07	18.5	0.38	252	0.37	0.026	22.4	618	38.02	0.04	4.48	1.4	0.4	9.5	0.06	3.1	0.013	0.16	0.9	20	0.2	75.1
91	SPL005 04+50E	7	0.4	1.74	70.4	57.5	0.78	0.83	1.91	24.9	19.0	36.4	3.60	5.9	40	0.08	58.5	0.37	1223	0.39	0.031	75.1	678	88.31	0.04	4.32	2.4	1.4	54.0	0.04	5.0	0.007	0.22	3.0	16	0.2	605.2
92	SPL005 04+75E	10	0.6	2.20	85.8	68.5	0.98	0.41	2.55	30.4	24.0	44.0	4.27	7.4	40	0.09	77.0	0.41	1492	0.43	0.026	87.3	825	126.30	0.04	5.40	3.3	1.8	32.0	0.04	8.1	0.004	0.30	3.8	20	0.2	710.4
93	SPL005 05+00E	8	0.3	1.52	73.9	40.5	1.02	0.24	1.00	17.4	20.5	45.6	3.95	5.7	20	0.09	32.0	0.51	655	0.36	0.028	49.0	636	41.00	<0.02	3.90	2.7	0.6	24.0	0.06	10.2	0.012	0.18	1.3	16	0.2	290.2
94	SPL006 00+00	6	0.4	1.84	61.3	60.5	0.88	0.45	2.28	28.1	19.5	37.5	4.14	7.8	35	0.07	57.5	0.28	1926	0.56	0.029	63.3	689	71.09	0.04	4.00	2.4	1.5	34.5	0.06	5.8	0.007	0.26	4.6	22	0.2	480.3
95	SPL006 00+25W	8	0.1	2.26	108.6	35.5	1.08	0.10	0.20	10.0	28.5	35.0	4.76	6.4	40	0.06	20.0	0.42	288	0.40	0.025	24.3	717	47.34	0.04	3.80	2.1	0.6	11.0	0.06	8.5	0.018	0.14	1.0	18	0.2	78.8
96	SPL006 00+50W	7	0.2	1.66	52.3	32.5	1.08	0.53	0.60	13.8	20.0	40.5	3.73	5.8	25	0.06	23.5	0.47	606	0.42	0.030	37.1	681	35.41	0.06	4.70	2.0	0.8	36.5	0.06	4.9	0.009	0.12	2.0	18	0.1	261.3
97	SPL006 00+75W	1	0.2	1.40	34.1	22.5	1.00	0.04	0.15	9.8	23.0	25.9	6.01	8.7	25	0.05	18.0	0.36	546	0.51	0.027	22.8	469	33.36	0.02	1.64	1.4	0.5	6.0	0.06	3.3	0.020	0.08	0.8	22	0.1	71.5
98	SPL006 01+00W	12	0.2	2.27	71.1	27.5	1.08	0.12	0.17	10.9	22.0	44.6	4.24	5.7	50	0.05	16.5	0.33	424	0.35	0.025	24.6	1004	41.69	0.04	5.10	1.9	0.7	11.5	0.08	7.6	0.014	0.12	1.0	16	0.2	74.5
99	SPL006 01+25W	3	0.2	1.36	31.2	28.0	0.74	0.03	0.11	4.8	15.5	15.0	3.02	6.7	20	0.04	20.5	0.25	193	0.57	0.024	13.0	329	22.52	<0.02	1.64	1.0	0.4	6.0	0.04	3.4	0.006	0.10	0.6	26	0.2	52.4
100	SPL006 01+50W	5	0.2	2.43	42.9	27.5	0.82	0.08	0.25	13.2	22.0	40.4	4.55	5.1	35	0.04	22.0	0.33	390	0.45	0.028	32.6	633	57.08	<0.02	3.08	2.2	0.8	11.0	0.06	10.6	0.007	0.10	1.1	14	0.1	109.4
101	SPL006 01+75W	2	0.2	1.33	36.5	15.0	0.64	0.06	0.09	9.1	18.5	27.9	4.60	4.4	30	0.03	20.0	0.35	372	0.30	0.025	25.1	509	43.27	<0.02	1.80	1.5	0.5	7.5	0.04	8.8	0.003	0.06	0.8	10	<0.1	78.6
102	SPL006 02+00W	13	0.2	2.90	57.9	32.0	1.50	0.04	0.18	12.2	27.5	51.8	4.71	7.0	40	0.06	22.0	0.46	299	0.45	0.024	33.4	527	44.35	<0.02	5.60	2.4	0.7	7.0	0.06	12.2	0.008	0.18	1.0	20	0.2	89.1
103	SPL006 02+25W	41	0.2	1.08	75.4	26.0	3.04	0.26	0.30	19.7	16.0	127.3	4.00	4.6	25	0.08	34.5	0.35	705	0.25	0.034	38.1	477	39.53	<0.02	8.24	3.4	0.7	26.5	0.20	12.4	0.007	0.24	1.0	14	0.3	110.1
104	SPL006 02+50W	13	0.2	1.53	83.0	39.0	1.52	0.32	0.18	13.1	18.5	61.7	4.03	5.9	20	0.05	21.5	0.41	448	0.27	0.025	28.3	586	38.83	0.02	11.18	2.3	0.4	29.0	0.06	9.1	0.002	0.14	0.9	16	0.1	97.0
105	SPL006 02+75W	18	0.5	1.34	86.7	72.0	1.00	0.07	1.35	15.5	15.0	40.3	2.86	8.3	45	0.07	101.0	0.13	578	0.38	0.028	31.6	667	169.40	0.04	7.36	2.4	2.4	16.0	0.04	8.5	0.002	0.48	3.2	14	0.4	267.4
106	SPL006 03+00W	7	0.3	1.34	43.1	27.0	0.50	0.10	0.26	13.9	17.0	32.1	3.98	5.0	15	0.04	27.0	0.54	552	0.32	0.031	33.4	388	37.75	0.04	2.74	2.0	0.7	14.0	0.04	7.7	0.001	0.10	1.5	12	<0.1	114.6
107	SPL006 03+25W	17	0.2	1.35	98.5	27.5	1.48	0.62	0.34	18.3	18.5	73.5	4.36	5.0	10	0.09	21.5	0.56	664	0.27	0.043	40.6	532	46.98	0.06	20.50	3.0	0.6	44.5	0.08	13.6	0.005	0.16	0.9	14	0.2	136.7
108	SPL006 03+50W	32	0.2	1.21	98.0	20.5	1.86	0.44	0.32	18.0	18.0	88.2	4.27	4.7	10	0.07	23.5	0.50	676	0.28	0.048	40.7	466	35.74	0.06	16.90	3.2	0.6	38.5	0.12	11.7	0.006	0.16	0.8	14	0.2	114.6
109	SPL006 03+75W	19	0.2	1.48	71.6	23.0	1.26	0.19	0.28	20.8	19.0	92.2	4.23	5.5	20	0.06	25.5	0.52	781	0.30	0.041	41.6	548	42.02	0.04	9.54	3.0	0.7	20.0	0.08	11.2	0.014	0.18	1.0	16	0.2	119.4
110	SPL006 04+00W	9	0.3	2.85	80.1	24.5	0.80	0.07	0.28	13.3	29.0	27.3	5.45	7.3	40	0.05	16.0	0.49	542	0.37	0.031	28.5	762	52.32	0.08	6.68	2.2	0.7	7.5	0.06	7.3	0.020	0.12	1.0	20	0.2	98.2
111	SPL006 04+25W	7	0.4	2.06	69.4	33.5	1.20	0.04	0.22	9.9	32.0	28.8	6.82	11.7	50	0.05	19.0	0.51	428	0.50	0.028	25.2	634	44.22	0.08	5.46	1.4	0.6	7.5	0.08	2.0	0.017	0.14	1.1	34	0.3	98.6
112	SPL006 04+50W	4	0.2	1.28	29.4	19.5	0.58	0.02	0.12	8.7	17.5	18.3	4.87	4.0	30	0.03	6.0	0.31	331	0.50	0.026	22.3	388	39.47	0.04	2.40	0.9	0.4	4.0	0.04	4.1	0.008	0.08	0.6	14	0.3	69.8
113	SPL006 04+75W	6	0.4	1.37	47.1	19.0	1.02	0.03	0.09	6.0	17.0	22.8	4.21	7.2	30	0.03	16.0	0.27	181	0.44	0.038	17.0	375	23.07	0.06	3.08	1.1	0.4	6.0	0.04	2.6	0.005	0.12	0.6	20	0.3	72.4
114	SPL006 05+00W	6	0.3	1.99	56.9	36.5	1.44	0.03	0.14	10.4	26.5	40.6	6.26	8.7	45	0.04	21.5	0.43	409	0.51	0.033	27.7	548	44.14	0.06	4.54	1.5	0.6	7.5	0.04	3.8	0.007	0.14	1.0	22	0.4	91.4
115	SPL007 00+00	3	0.4	0.92	65.2	33.0	1.00	0.32	0.33	21.6	14.5	50.1	5.17	3.8	20	0.04	24.5	0.46	635	0.48	0.029	48.9	367	55.09	0.08	4.74	2.5	0.8	35.0	0.08	13.1	0.005	0.08	2.2	10	<0.1	170.6
116	SPL007 00+25W	3	0.5	1.15	57.8	62.0	1.92	0.42	0.39	30.1	14.5	57.9	5.63	4.0	20	0.04	19.5	0.49	1197	0.60	0.030	54.0	536	71.72	0.08	4.12	2.4	1.0	50.5	0.06	8.7	0.005	0.10	2.6	10	<0.1	184.6
117	SPL007 00+50W	2	0.2	1.38	28.3	32.0	1.22	0.37	0.18	20.1	18.5	38.9	5.23	4.6	20	0.03	16.5	0.66	596	0.63	0.033	41.8	520	53.25	0.08	2.86	2.1	0.8	43.5	0.06	7.6	0.001	0.06	4.7	12	0.2	158.0
118	SPL007 00+75W	2	0.2	1.28	25.5	47.5	0.68	0.37	0.17	18.1	17.0	39.3	4.29	4.1	25	0.05	17.0	0.48	773	0.47	0.030	37.6	708	37.67	0.06	2.06	2.4	0.9	44.0	0.06	5.8	0.001	0.08	3.9	12	<0.1	141.1
119	SPL007 01+00W	4	0.2	1.40	42.4	42.0	0.92	0.15	0.23	22.0	18.0	45.0	5.34	4.8	30	0.06	24.0	0.51	748	0.62	0.029	41.3	830	57.32	0.06	2.60	2.6	1.2	17.5	0.06	8.2	0.001	0.10	3.3	12	0.1	161.5
120	SPL007 01+25W	5	0.4	1.26	47.1	24.5	1.04	0.34	0.27	21.0	16.5	55.7	5.07	4.4	35	0.04	26.5	0.49	730	0.42	0.026	45.6	866	58.13	0.06	2.58	2.7	1.0	34.5	0.04	7.9	0.005	0.10	1.8	10	0.1	144.6

ECO TECH LABORATORY LTD. ICP CERTIFICATE OF ANALYSIS AW 2010- 8111 TerraLogic Exploration Inc.

Et #	Tag #	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Se ppm	Sr ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
121	SPL007 01+50W	2	0.2	1.17	19.8	29.5	0.56	0.33	0.57	14.4	13.5	37.0	3.95	3.9	15	0.06	18.0	0.56	566	0.23	0.056	35.0	556	35.14	0.06	1.06	2.0	0.5	51.0	0.06	11.0	0.007	0.08	1.2	8	<0.1	169.0
122	SPL007 01+75W	3	0.2	0.94	52.3	19.5	0.86	0.23	0.20	17.6	13.5	34.5	4.14	3.7	25	0.04	20.0	0.47	782	0.35	0.027	39.2	561	36.25	0.06	2.10	2.1	0.6	23.0	0.08	9.6	0.001	0.08	1.6	8	<0.1	115.6
123	SPL007 02+00W	4	0.3	0.96	30.1	20.0	0.58	0.19	0.22	13.8	13.0	38.2	4.35	3.7	25	0.04	26.0	0.41	632	0.51	0.028	37.5	458	46.22	0.04	2.04	2.2	0.9	19.5	0.06	7.4	0.005	0.08	1.7	8	<0.1	131.4
124	SPL007 02+25W	4	0.3	0.91	40.0	19.5	0.50	0.14	0.24	14.6	12.5	39.0	4.13	3.8	25	0.04	26.5	0.36	507	0.41	0.029	35.1	539	52.50	0.04	1.92	2.1	0.7	17.5	0.08	7.9	0.005	0.10	1.3	8	<0.1	140.9
125	SPL007 02+50W	4	0.2	0.89	37.2	23.0	0.60	0.24	0.44	14.9	12.0	45.7	4.61	3.6	20	0.04	24.5	0.35	508	0.43	0.029	37.4	743	63.33	0.06	2.00	2.5	0.8	21.0	0.06	8.6	0.005	0.08	1.3	8	<0.1	198.7
126	SPL007 02+75W	3	0.1	1.15	31.1	21.5	0.64	0.08	0.18	23.0	16.0	44.8	4.72	4.0	20	0.03	20.0	0.44	700	0.39	0.029	40.7	638	54.80	0.04	2.18	1.9	0.6	11.5	0.06	8.2	0.005	0.08	1.1	10	<0.1	136.5
127	SPL007 03+00W	2	0.2	0.94	21.2	36.0	0.46	0.12	0.08	7.6	13.0	23.6	3.25	4.0	15	0.05	20.0	0.28	255	0.40	0.034	21.5	744	34.52	0.06	1.64	0.8	0.5	18.5	0.04	3.1	0.001	0.12	0.9	12	0.2	85.2
128	SPL007 03+25W	1	0.1	0.67	16.2	46.5	0.34	0.24	0.06	4.1	7.5	10.2	1.73	3.1	10	0.04	13.5	0.11	391	0.25	0.035	7.9	1031	22.14	0.08	0.76	0.4	0.3	23.0	<0.02	1.3	0.002	0.10	0.6	10	0.1	38.2
129	SPL007 03+50W	3	0.2	1.19	24.6	27.5	0.56	0.24	0.12	15.6	18.5	38.7	4.58	4.9	15	0.05	21.0	0.51	475	0.38	0.037	37.4	641	49.50	0.06	2.34	2.8	0.6	27.5	0.08	8.9	0.002	0.08	1.2	12	<0.1	120.2
130	SPL008 00+00	6	0.4	1.14	93.1	34.5	0.90	0.19	0.44	18.2	17.0	56.2	5.39	4.5	15	0.06	26.5	0.42	754	0.47	0.034	43.1	725	104.90	0.10	3.38	2.6	0.8	37.5	0.06	9.0	0.001	0.14	1.7	12	<0.1	217.7
131	SPL008 00+25E	2	0.2	1.31	11.8	16.5	0.42	0.44	0.18	20.0	18.5	41.0	4.57	4.4	20	0.04	16.5	0.67	658	0.30	0.033	40.9	695	40.97	0.06	1.26	2.3	0.6	31.5	0.10	9.9	0.001	0.04	1.6	10	<0.1	125.3
132	SPL008 00+50E	1	0.2	1.39	8.5	41.0	0.38	0.34	0.13	14.8	11.5	25.6	3.10	4.2	20	0.03	15.0	0.33	1115	0.43	0.043	18.4	1107	37.42	0.10	0.70	1.7	0.6	28.0	0.06	3.0	0.005	0.06	1.2	14	<0.1	68.9
133	SPL008 00+75E	1	0.1	2.06	7.5	26.5	0.40	0.42	0.09	13.2	25.0	29.3	3.92	6.5	15	0.04	15.0	0.74	356	0.30	0.068	33.7	677	30.57	0.06	0.76	2.3	0.5	53.5	0.04	5.1	0.015	0.06	1.2	18	<0.1	100.0
134	SPL008 01+00E	1	0.1	2.33	7.1	32.5	0.46	0.48	0.08	18.3	28.0	35.7	4.53	7.4	15	0.06	15.5	0.83	641	0.33	0.120	38.3	619	38.29	0.06	0.66	3.2	0.6	73.0	0.06	7.7	0.019	0.08	1.4	20	<0.1	107.0
135	SPL008 01+25E	1	0.2	2.64	6.7	36.0	0.50	0.68	0.13	20.8	33.0	41.1	5.44	8.3	15	0.07	17.5	1.08	651	0.34	0.118	48.0	705	37.72	0.08	0.62	3.7	0.6	84.0	0.06	10.5	0.024	0.10	1.8	22	<0.1	132.7
136	SPL008 01+50E	2	0.2	1.90	9.6	36.0	0.44	0.65	0.11	16.2	22.5	31.0	4.03	6.2	20	0.05	15.5	0.68	523	0.34	0.063	32.0	926	36.14	0.10	0.74	2.1	0.6	59.5	0.06	4.0	0.010	0.08	1.3	18	<0.1	108.7
137	SPL008 01+75E	2	0.2	2.10	10.7	34.0	0.44	0.82	0.12	15.4	26.0	37.7	4.19	6.8	15	0.07	20.0	0.73	439	0.32	0.125	37.4	685	35.68	0.08	0.92	3.4	0.6	99.5	0.06	6.6	0.020	0.10	1.5	20	<0.1	120.1
138	SPL008 02+00E	2	0.1	1.73	10.7	30.5	0.42	0.78	0.11	15.0	21.0	37.1	4.24	5.8	15	0.05	21.5	0.64	428	0.34	0.081	37.1	718	37.67	0.08	1.58	2.7	0.7	77.5	0.04	5.0	0.011	0.06	1.3	16	<0.1	117.0
139	SPL008 02+25E	2	0.2	1.84	13.3	30.5	0.46	0.71	0.14	19.2	22.5	47.0	4.78	6.2	10	0.06	24.0	0.69	538	0.37	0.100	45.4	589	43.36	0.06	2.12	3.8	0.7	83.0	0.06	9.0	0.013	0.10	1.5	18	<0.1	124.6
140	SPL008 02+50E	2	0.5	2.00	10.4	38.0	0.46	0.26	0.09	15.2	23.5	31.9	4.00	6.4	15	0.04	16.0	0.77	455	0.32	0.059	33.5	682	38.63	0.06	0.76	2.5	0.6	36.5	0.04	5.5	0.013	0.10	1.3	18	<0.1	108.9
141	SPL008 02+75E	3	0.2	1.65	10.7	25.0	0.36	0.34	0.10	11.9	18.0	25.5	3.44	5.2	15	0.04	12.0	0.65	297	0.31	0.058	30.8	572	36.75	0.06	0.74	1.5	0.4	37.5	0.02	3.2	0.011	0.06	1.0	14	<0.1	91.2
142	SPL008 03+00E	3	0.1	2.05	49.8	39.0	0.52	0.31	0.16	16.2	26.0	32.7	4.37	7.0	15	0.06	16.0	0.77	497	0.38	0.049	39.0	657	50.15	0.08	1.28	2.1	0.6	42.0	0.06	4.2	0.018	0.08	1.5	20	<0.1	135.7
143	SPL008 03+25E	3	0.2	1.98	48.4	32.5	0.48	0.26	0.24	17.3	24.5	33.5	4.19	6.6	10	0.07	16.5	0.74	580	0.38	0.059	38.9	580	48.95	0.06	1.36	2.2	0.6	42.5	0.02	4.8	0.019	0.10	1.4	20	<0.1	135.6
144	SPL008 03+50E	4	0.2	1.26	49.9	28.0	0.66	0.28	0.10	16.2	17.0	36.9	4.32	4.6	25	0.04	23.0	0.52	569	0.39	0.043	37.3	607	39.91	0.06	2.32	2.2	0.8	33.0	0.08	7.7	0.003	0.06	1.8	12	0.1	112.9
145	SPL009 00+00	4	0.4	0.98	90.7	56.5	0.92	0.77	0.49	26.7	12.5	51.9	4.72	3.3	35	0.05	12.5	0.37	989	0.55	0.028	44.0	611	77.45	0.08	2.86	2.0	0.9	77.5	0.04	8.6	0.001	0.10	5.9	8	<0.1	159.6
146	SPL009 00+25E	3	0.1	0.70	17.7	21.0	0.20	0.31	0.07	5.4	4.5	15.8	1.58	2.2	15	0.02	6.5	0.13	146	0.23	0.049	12.1	648	16.10	0.06	0.86	0.6	0.3	25.0	0.02	1.5	0.017	0.02	0.8	14	<0.1	40.9
147	SPL009 00+50E N/S																																				
148	SPL009 00+75E	5	0.3	1.17	42.6	48.5	0.48	0.55	0.21	15.4	10.5	36.1	3.99	3.6	30	0.03	14.5	0.35	645	0.45	0.036	33.4	933	56.61	0.08	2.52	1.6	0.9	56.5	<0.02	3.8	0.004	0.06	3.0	10	<0.1	121.0
149	SPL009 01+00E	5	0.3	1.20	35.4	29.5	0.50	0.21	0.34	19.8	16.5	38.2	4.34	4.3	15	0.03	19.5	0.58	716	0.44	0.025	42.0	401	67.14	0.04	2.78	1.9	0.7	22.5	0.08	8.9	0.001	0.04	2.0	10	<0.1	151.6
150	SPL009 01+25E	5	0.3	1.20	30.8	37.0	0.52	0.23	0.20	17.5	15.5	40.5	4.40	4.1	15	0.03	16.5	0.54	399	0.48	0.025	37.7	464	70.41	0.04	3.08	2.0	0.8	27.0	0.06	7.6	0.001	0.04	2.2	10	<0.1	164.5
151	SPL009 01+50E	4	1.4	0.98	30.1	35.0	0.46	0.45	0.37	26.1	13.5	42.9	4.30	3.4	35	0.03	14.0	0.47	880	0.46	0.027	43.6	498	69.28	0.06	3.00	1.6	0.7	44.0	0.04	6.0	0.005	0.04	2.3	8	<0.1	151.2
152	SPL009 01+75E	4	0.3	1.32	37.0	26.0	0.48	0.17	0.20	24.7	18.5	47.3	4.86	4.7	15	0.03	20.0	0.73	719	0.49	0.025	48.6	506	56.76	0.04	3.92	2.3	0.7	24.5	0.06	12.3	0.001	0.04	1.9	10	<0.1	144.1
153	SPL009 02+00E	4	0.2	0.83	39.4	20.5	0.48	0.53	0.18	16.9	12.5	37.5	4.38	2.9	25	0.03	14.0	0.40	443	0.44	0.026	39.8	645	49.85	0.08	3.84	1.8	0.7	48.5	0.04	7.0	0.005	0.04	1.8	8	<0.1	128.2
154	SPL009 02+25E	5	0.3	1.08	34.8	46.5	0.50	0.74	0.31	18.7	13.5	38.1	4.31	3.3	45	0.04	11.0	0.45	567	0.48	0.029	38.7	751	54.58	0.10	3.38	1.5	0.6	67.0	0.04	4.8	0.001	0.04	2.3	8	<0.1	141.2
155	SPL009 02+50E	5	0.3	1.05	46.6	39.5	0.58	0.41	0.30	23.6	14.5	48.2	4.81	3.6	30	0.04	16.0	0.48	587	0.50	0.027	45.2	571	66.29	0.06	4.02	2.1	0.7	45.0	0.06	7.2	0.005	0.04	2.3	8	<0.1	156.6
156	SPL010 00+00	9	0.2	2.00	618.9	43.5	2.36	0.80	0.16	17.9	26.0	53.1	4.39	7.4	20	0.10	22.5	0.60	554	2.87	0.051	40.3	930	32.81	0.12	4.64	2.2	0.9	56.5	0.06	4.3	0.013	0.16	2.1	24	0.5	92.0
157	SPL010 00+25W	14	0.2	1.86	608.3	33.5	2.98	0.42	0.22	24.8	24.5	76.7	5.28	6.7	25	0.11	27.5	0.59	579	2.40	0.040	50.5	651	39.81	0.06	5.50	3.4	1.2	41.0	0.10	7.3	0.014	0.14	2.1	22	0.5	122.9
158	SPL010 00+50W	5	0.2	1.32	82.0	14.5	0.96	0.26	0.19	14.2	17.5	40.7	4.34	4.6	20	0.04	25.0	0.52	292	0.72	0.029	39.1	517	36.64	0.04	2.62	2.5	0.7	22.5	0.06	10.5	0.005	0.06	1.1	10	0.2	126.4
159	SPL010 00+75W N/S																																				
160	SPL010 01+00W	2	0.1	1.54	118.0	35.0	1.42	0.42	0.14	10.2	22.0	27.3	5.34	6.5	20	0.04	12.5	0.56	430	2.73	0.027	23.6	720	31.64	0.08	3.00	0.7	0.5	30.5	0.04	1.8	0.006	0.10	1.0	20	0.3	80.6
161	SPL010 01+25W	3	0.2	1.61	57.3	42.0	0.98	0.48	0.22	13.6	18.5	33.0	4.06	5.5	30	0.05	16.5	0.32	889	9.32	0.031	26.1	1264	34.55	0.10	1.82	1.1	0.8	31.5	<0.02	2.4	0.008	0.10	2.0	22	0.2	113.8
162	SPL010 01+50W	2	0.1	1.33	60.5	35.0	1.18	0.14	0.20	17.9	24.5	29.9	4.87	5.8	15	0.07	15.0	0.50	1231	10.74	0.027	30.1	632	56.30	0.06	2.48	1.5	0.4	17.5	0.04	2.8	0.014	0.10	1.0	20	0.2	118.3
163	SPL010 01+75W	9	0.3	1.97	154.1	62.5	7.16	0.25	0.23	17.9	26.5	68.0	4.38	7.2	20	0.09	18.5	0.52	927	12.91	0.036	36.7	745	42.80	0.08	6.12	2.1	0.6	26.0	0.10	4.7	0.010	0.18	1.6	28	1.4	112.6
164	SPL010 02+00W	4	0.2	0.87	61.4	22.0	3.16	0.10	0.14	4.3	9.5	23.9	1.50	3.3	15	0.04	6.5	0.16	207	1.97	0.045	11.9	511	11.68	0.04	2.22	0.6	0.2	10.5	0.02	0.7	0.017	0.06	0.6	14	0.8	34.8
165	SPL010 02+25W	3	0.2	1.12	43.0	24.0	0.80	0.04	0.25	9.1	14.0	23.6	3.28	4.6	30	0.04	12.0	0.34	524	0.68	0.029	19.4	670	29.00	0.06	1.54	0.4	0.5	6.5	0.04	0.8	0.004	0.08	0.9	16	0.2	78.9

ECO TECH LABORATORY LTD. — ICP CERTIFICATE OF ANALYSIS AW 2010- 8111 — TerraLogic Exploration Inc.

Et #	Tag #	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Se ppm	Sr ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
31	SPL003 00+00	8	0.1	1.95	53.3	23.5	1.42	0.10	0.15	8.2	21.0	42.7	4.32	5.0	35	0.04	18.0	0.35	285	0.37	0.027	24.5	806	44.23	0.04	3.58	1.8	0.6	13.5	0.06	8.4	0.009	0.10	0.9	14	0.3	90.1
32	SPL003 00+25E	10	0.3	1.73	54.4	27.5	1.22	0.05	0.16	9.9	21.5	36.3	4.73	4.7	35	0.04	18.5	0.33	295	0.39	0.028	26.6	514	44.12	0.02	3.48	1.7	0.6	8.0	0.06	8.1	0.002	0.10	0.8	14	0.5	85.5
33	SPL003 00+50E	4	0.3	2.21	39.7	33.0	1.10	0.04	0.14	12.4	26.0	32.7	5.69	6.0	40	0.05	16.5	0.37	487	0.57	0.025	27.3	650	48.03	0.02	2.84	1.7	0.7	7.0	0.06	6.2	0.007	0.10	1.0	18	0.3	89.1
34	SPL003 00+75E	3	0.1	0.54	33.1	11.5	0.76	0.03	0.06	7.3	9.5	26.2	2.44	4.8	20	0.04	20.5	0.14	150	0.46	0.031	16.9	469	20.55	0.02	2.00	0.2	0.3	5.0	0.02	0.5	0.002	0.08	0.6	24	0.1	59.8
35	SPL003 01+00E	12	0.3	2.04	100.9	28.5	1.18	0.06	0.18	9.6	22.0	43.3	4.84	6.3	50	0.04	18.0	0.29	313	0.48	0.028	23.9	731	61.71	0.04	5.48	1.9	0.6	9.0	0.06	8.4	0.009	0.16	0.9	18	0.4	80.7
36	SPL003 01+25E	11	0.1	1.13	98.0	21.0	1.34	0.04	0.11	14.5	20.0	30.2	4.38	7.4	15	0.05	20.0	0.35	1073	0.40	0.028	22.6	585	40.38	<0.02	6.08	1.1	0.5	6.0	0.06	2.0	0.018	0.10	0.8	24	0.2	74.1
37	SPL003 01+50E	4	0.1	1.75	30.6	35.0	0.80	0.06	0.07	7.4	33.5	21.0	5.24	10.4	40	0.05	16.5	0.40	382	0.63	0.030	17.3	558	30.93	0.04	1.48	1.5	0.6	11.0	0.04	1.7	0.035	0.08	1.0	40	0.3	53.5
38	SPL003 01+75E	3	0.2	1.14	33.3	18.0	0.66	0.06	0.09	9.8	18.5	25.0	4.41	4.9	20	0.03	16.0	0.35	294	0.39	0.027	23.9	497	35.60	<0.02	2.08	1.2	0.5	8.0	0.04	4.3	0.006	0.06	0.8	12	0.2	74.3
39	SPL003 02+00E	7	0.2	1.42	59.7	27.5	1.18	0.06	0.15	10.3	19.5	52.1	4.78	5.4	15	0.04	22.5	0.40	384	0.56	0.028	29.7	498	42.59	<0.02	3.52	2.0	0.5	8.5	0.04	9.4	0.005	0.14	0.9	14	0.2	105.8
40	SPL003 02+25E	19	0.2	1.37	112.4	29.5	1.38	0.10	0.25	17.0	18.5	59.9	4.17	4.4	25	0.09	18.5	0.36	505	0.40	0.025	38.8	488	50.09	<0.02	6.04	2.3	0.5	10.5	0.04	8.6	0.010	0.24	1.0	16	0.3	119.7
41	SPL003 02+50E	12	0.3	1.37	51.4	27.0	0.70	0.10	0.54	17.8	18.0	45.4	3.82	4.8	25	0.04	28.5	0.45	537	0.31	0.026	39.2	473	51.27	<0.02	6.98	2.5	0.8	13.0	0.04	10.3	0.002	0.08	1.9	12	<0.1	185.6
42	SPL003 02+75E	34	0.8	1.80	266.5	38.5	1.78	0.20	2.22	20.9	24.0	69.3	5.42	5.9	40	0.07	29.5	0.50	924	0.44	0.032	74.7	664	176.70	<0.02	9.24	3.1	0.9	24.5	0.08	8.7	0.014	0.24	4.1	20	0.2	615.4
43	SPL003 03+00E	12	0.4	2.04	127.1	31.5	1.78	0.72	0.39	17.1	20.5	70.6	5.32	4.3	40	0.04	16.5	0.32	694	0.37	0.029	33.1	872	110.50	0.06	11.58	2.2	0.7	60.5	0.04	7.9	0.010	0.30	1.1	12	0.4	110.8
44	SPL003 03+25E	11	0.3	1.35	69.9	38.0	1.08	0.09	0.26	15.3	17.5	54.2	3.80	5.1	20	0.07	24.0	0.41	548	0.34	0.024	35.0	525	39.84	<0.02	5.22	2.4	0.5	11.0	0.06	8.9	0.009	0.18	0.9	14	0.2	106.7
45	SPL003 03+50E	7	0.2	1.56	46.6	29.0	0.78	0.06	0.10	6.6	17.5	34.4	3.34	5.0	25	0.05	18.0	0.39	177	0.38	0.025	22.2	672	29.26	0.02	2.94	1.2	0.5	8.5	0.04	3.7	0.004	0.12	0.8	16	0.2	78.4
46	SPL003 03+75E	7	3.2	1.38	55.7	34.0	1.02	0.08	0.18	10.1	17.0	40.2	3.57	5.5	25	0.06	22.5	0.36	340	0.38	0.031	23.7	538	34.14	<0.02	3.18	1.3	0.5	12.0	0.04	4.2	0.004	0.14	0.8	16	0.2	76.8
47	SPL003 04+00E	4	0.1	1.46	38.5	38.5	0.90	0.03	0.13	11.5	19.0	39.8	3.81	4.7	10	0.06	24.5	0.51	336	0.32	0.025	30.9	335	32.45	<0.02	2.74	1.7	0.5	7.5	0.04	8.7	0.003	0.10	0.8	14	0.2	98.1
48	SPL003 04+25E	6	0.1	1.24	71.8	37.5	1.00	0.25	0.21	14.3	17.5	37.1	3.62	4.6	20	0.06	17.0	0.44	617	0.43	0.028	29.3	630	35.83	0.02	3.50	1.7	0.4	21.5	0.04	5.1	0.007	0.12	0.9	14	0.2	113.4
49	SPL003 04+50E	12	0.1	1.67	130.2	43.0	1.54	0.14	0.45	16.4	22.5	54.7	4.37	5.7	30	0.08	25.0	0.48	507	0.50	0.026	38.0	594	50.00	<0.02	5.22	2.7	0.6	15.0	0.06	8.5	0.013	0.22	1.3	18	0.3	184.1
50	SPL003 04+75E	2	0.2	0.81	47.2	16.0	1.18	0.02	0.07	7.1	15.0	26.9	3.45	6.6	25	0.05	17.5	0.21	233	0.43	0.025	17.4	494	28.92	0.02	2.42	0.5	0.4	5.0	0.04	0.8	0.007	0.10	0.7	20	0.1	68.9
51	SPL003 05+00E	13	0.2	1.23	113.4	27.5	1.76	0.11	0.23	10.7	19.0	50.2	3.89	5.1	15	0.07	17.5	0.38	359	0.47	0.025	27.6	531	41.13	<0.02	5.22	2.0	0.4	11.5	0.06	5.6	0.009	0.18	0.9	18	0.2	106.6
52	SPL004 00+00	19	0.3	1.91	230.3	41.0	1.80	0.18	1.28	24.9	22.5	84.7	4.92	5.5	35	0.10	26.5	0.44	771	0.40	0.036	76.5	673	75.24	0.02	6.92	3.1	0.8	17.0	0.08	10.4	0.021	0.28	1.4	18	0.5	726.3
53	SPL004 00+25W	12	0.2	1.42	137.0	39.0	1.24	0.16	0.27	15.9	20.0	55.1	4.06	5.4	20	0.09	28.0	0.48	551	0.43	0.029	34.3	630	49.60	<0.02	5.34	2.6	0.6	20.0	0.06	10.4	0.011	0.18	1.1	18	0.2	120.5
54	SPL004 00+50W	4	0.1	1.45	98.2	33.5	1.30	0.04	0.13	7.7	22.5	34.0	4.12	7.1	20	0.05	19.5	0.38	254	0.51	0.025	22.2	427	38.77	0.02	4.04	1.2	0.4	7.5	0.04	2.8	0.008	0.14	0.7	22	0.2	92.7
55	SPL004 00+75W	12	0.1	1.96	136.4	41.5	1.24	0.16	0.46	16.0	25.5	55.8	4.69	6.4	30	0.09	25.0	0.54	475	0.42	0.029	42.5	719	49.93	<0.02	5.02	3.1	0.6	19.5	0.08	11.2	0.016	0.20	1.2	20	0.2	160.9
56	SPL004 01+00W	4	0.3	1.01	33.6	50.5	0.48	0.61	0.14	5.4	8.0	18.4	1.73	3.1	30	0.03	9.0	0.18	951	0.25	0.034	12.0	569	18.14	0.04	1.78	0.6	0.4	38.0	0.02	1.3	0.005	0.10	0.6	10	<0.1	36.7
57	SPL004 01+25W	11	0.3	1.52	163.7	40.5	1.34	0.30	0.25	16.7	20.5	58.0	4.28	5.3	20	0.07	20.0	0.47	571	0.47	0.030	35.5	549	55.96	<0.02	6.06	2.3	0.5	25.5	0.04	7.2	0.008	0.16	1.1	16	0.2	128.0
58	SPL004 01+50W	3	0.5	1.73	34.7	24.0	0.78	0.08	0.15	9.9	20.0	31.0	4.37	5.3	35	0.04	15.5	0.34	345	0.36	0.028	25.1	787	41.35	0.02	1.84	1.3	0.5	9.0	0.04	5.0	0.009	0.08	0.9	14	0.1	75.3
59	SPL004 01+75W	11	0.2	1.40	124.3	29.0	1.58	0.09	0.21	8.6	23.5	54.3	4.51	7.1	25	0.08	20.0	0.44	290	0.55	0.029	28.7	583	44.12	0.02	6.64	1.7	0.5	11.0	0.06	2.6	0.010	0.22	0.9	24	0.2	100.5
60	SPL004 02+00W	9	0.1	1.78	67.1	44.5	0.88	0.08	0.12	6.6	20.5	33.2	3.25	6.1	25	0.05	20.0	0.44	173	0.53	0.025	23.7	504	27.63	<0.02	3.18	1.7	0.5	11.5	0.06	6.4	0.005	0.16	0.8	18	0.2	75.0
61	SPL004 02+25W	6	0.4	1.45	81.3	29.0	1.52	0.04	0.14	8.7	24.0	36.2	4.73	8.8	30	0.06	19.0	0.42	308	0.60	0.026	24.0	377	33.70	0.02	5.22	1.3	0.4	7.5	0.06	2.3	0.011	0.16	0.8	30	0.3	83.7
62	SPL004 02+50W	11	0.3	1.51	76.9	32.0	1.18	0.09	0.21	10.8	19.0	33.3	3.77	5.9	20	0.05	21.5	0.37	414	0.40	0.024	24.1	487	34.23	<0.02	5.62	1.6	0.5	10.0	0.06	5.5	0.009	0.16	0.8	20	0.2	90.8
63	SPL004 02+75W	13	0.2	1.55	149.8	23.5	1.32	0.11	0.26	16.0	18.5	57.5	3.94	4.3	20	0.08	18.5	0.35	457	0.36	0.025	33.1	558	56.78	<0.02	7.02	2.3	0.6	10.0	0.10	9.5	0.011	0.18	0.9	14	0.2	112.3
64	SPL004 03+00W	25	0.3	1.35	159.0	32.0	1.52	0.08	0.48	18.9	18.0	67.5	4.19	4.9	20	0.10	23.5	0.34	630	0.46	0.026	36.3	536	74.92	<0.02	7.94	2.6	0.6	10.5	0.08	9.1	0.010	0.30	1.1	18	0.3	137.4
65	SPL004 03+25W	8	0.2	1.50	68.4	22.0	1.30	0.11	0.17	10.7	19.5	48.5	4.16	5.4	20	0.05	25.0	0.46	277	0.31	0.026	32.3	533	37.84	<0.02	5.22	2.3	0.6	12.0	0.06	11.2	0.012	0.14	1.0	14	0.1	103.4
66	SPL004 03+50W	9	0.3	1.97	75.3	23.0	1.18	0.09	0.14	10.7	22.0	36.3	4.28	5.1	50	0.04	15.0	0.26	571	0.36	0.025	21.2	862	45.35	0.04	4.36	1.6	0.7	10.5	0.06	7.6	0.014	0.10	0.9	14	0.2	66.8
67	SPL004 03+75W	10	0.4	1.52	108.2	19.0	2.34	0.09	0.18	14.1	20.5	39.9	4.27	6.9	35	0.05	17.0	0.29	652	0.42	0.027	25.7	646	47.08	0.04	5.54	1.4	0.5	9.0	0.10	3.3	0.012	0.16	0.9	22	0.2	74.4
68	SPL004 04+00W	13	0.3	2.20	169.2	33.0	4.78	0.07	0.14	24.4	33.5	45.0	6.77	7.7	55	0.04	14.0	0.34	605	0.48	0.027	33.4	868	78.47	0.06	6.22	1.8	0.9	11.5	0.14	4.6	0.018	0.16	1.1	20	0.3	71.2
69	SPL004 04+25W	6	0.1	0.87	37.1	19.0	0.86	0.01	0.06	5.0	13.5	17.3	3.03	5.5	20	0.03	16.0	0.20	113	0.43	0.026	14.5	298	20.55	0.02	2.26	0.4	0.4	6.0	0.06	0.7	0.005	0.06	0.6	20	0.2	50.1
70	SPL004 04+50W	3	0.3	1.06	40.4	21.5	1.12	0.03	0.07	5.5	16.5	22.5	3.06	6.2	25	0.03	18.5	0.27	142	0.48	0.025	15.8	367	22.70	0.02	2.88	0.6	0.4	8.0	0.04	1.0	0.004	0.08	0.7	20	0.2	59.3
71	SPL004 04+75W	5	1.3	1.16	34.6	28.5	0.92	0.04	0.05	3.8	15.0	17.9	2.53	5.5	20	0.05	20.5	0.28	105	0.46	0.028	12.8	599	18.94	0.02	2.12	0.5	0.4	8.0	0.04	1.0	0.003	0.12	0.7	18	0.1	48.8
72	SPL004 05+00W	13	0.2	2.00	123.3	26.0	1.18	0.09	0.24	8.7	26.0	33.8	4.67	5.9	45	0.05	20.0	0.34	321	0.36	0.028	23.7	769	82.64	0.02	6.26	1.9	0.6	12.0	0.06	8.5	0.007	0.16	0.9	16	0.2	118.0
73	SPL005 00+00	10	0.2	1.92	76.2	41.0	1.76	0.11	0.28	22.2	21.0	69.0	4.47	5.6	30	0.08	26.5	0.50	687	0.39	0.027	42.1	628	53.53	<0.02	5.28	2.9	0.7	16.0	0.06	12.3	0.006	0.18	1.2	14	0.2	129.0
74	SPL005 00+25E	17	0.1	2.53	128.8	33.5	1.44	0.12	0.23	18.1	22.5	49.5	4.63	5.6	25	0.05	21.0	0.45	593	0.40	0.025	33.5	722	57.60	<0.02	17.36	2.5	0.6	14.5	0.10	11.4	0.009	0.14	1.0	16	0.2	110.8
75	SPL005 00+50E	9	0.2	2.04	62.4	37.5	1.34	0.05	0.13	9.8	30.0	33.3	5.20	7.7	30	0.06	20.5	0.49	318	0.85	0.026	24.5	412	50.76	0.02	5.26	2.6	0.5	8.5	0.10	12.5	0.008	0.12	1.0	26	0.2	87.7

ECO TECH LABORATORY LTD. ICP CERTIFICATE OF ANALYSIS AW 2010- 8111 TerraLogic Exploration Inc.

Et #	Tag #	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Se ppm	Sr ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
166	SPL010 02+50W	3	0.3	1.45	44.4	26.5	0.62	0.22	0.19	19.9	13.5	35.5	4.37	3.7	40	0.03	18.0	0.37	714	0.44	0.028	40.6	1244	45.37	0.06	2.72	1.8	0.8	19.0	0.06	5.9	0.004	0.10	1.2	8	0.1	150.4
167	SPL010 02+75W	3	0.3	0.95	46.7	15.5	0.72	0.09	0.23	12.1	14.5	32.0	4.02	4.1	35	0.03	13.5	0.34	431	0.49	0.025	28.5	821	37.36	0.06	2.44	0.6	0.5	10.5	0.04	1.4	0.003	0.06	0.9	12	0.1	103.2
168	SPL010 03+00W	3	0.2	1.75	54.0	46.5	1.82	1.56	0.72	9.9	21.0	30.1	2.95	5.0	25	0.07	13.0	0.49	597	0.93	0.043	25.7	1136	33.02	0.18	2.86	1.1	1.5	92.0	0.04	2.6	0.012	0.10	6.2	16	0.3	158.9
169	SPL010 03+25W	4	0.3	1.76	80.4	41.5	1.12	0.23	0.63	13.0	22.0	35.1	4.02	6.3	20	0.10	18.5	0.52	535	0.88	0.034	33.7	608	73.72	0.06	2.46	1.6	0.7	31.0	0.04	3.1	0.012	0.12	1.6	20	0.2	170.9
170	SPL010 03+50W N/S																																				
171	SPL010 03+75W	4	0.3	1.15	42.4	27.5	0.54	0.25	0.23	21.4	16.0	46.1	4.67	3.9	20	0.03	16.5	0.56	570	0.56	0.032	44.6	506	57.04	0.04	3.72	2.0	0.7	30.0	0.04	7.7	0.001	0.04	2.1	10	<0.1	148.8
172	SPL010 04+00W	3	0.2	1.12	45.6	25.0	0.44	0.17	0.29	29.1	16.0	45.6	5.03	4.1	15	0.02	16.5	0.58	912	0.50	0.027	48.5	435	66.34	0.04	3.58	1.9	0.7	22.0	0.04	9.9	0.001	0.04	2.2	10	<0.1	145.2
173	SPL011 00+00	3	0.3	2.08	123.8	44.0	1.28	0.35	0.57	14.9	27.0	40.6	4.57	7.3	10	0.11	17.5	0.64	522	0.44	0.052	40.7	633	92.17	0.06	2.08	2.6	0.6	62.0	0.06	6.8	0.025	0.16	1.8	24	0.5	183.0
174	SPL011 00+25E	4	0.4	2.28	98.4	40.5	1.02	0.77	0.85	12.1	31.5	32.8	4.14	7.9	10	0.10	15.5	0.70	357	0.44	0.117	37.7	545	101.50	0.06	1.96	3.0	0.7	109.5	0.04	7.0	0.030	0.14	2.3	28	0.3	203.4
175	SPL011 00+50E	7	0.4	2.03	101.0	33.5	1.10	0.81	1.17	12.0	25.5	32.7	3.88	6.9	15	0.09	15.5	0.60	511	0.45	0.091	33.4	659	112.40	0.08	2.22	2.3	1.0	96.0	0.04	5.2	0.025	0.12	5.3	24	0.2	229.0
176	SPL011 00+75E	5	0.6	2.02	56.7	36.5	0.72	0.92	2.02	10.4	22.0	27.2	3.06	5.9	15	0.07	14.0	0.48	401	0.41	0.077	28.0	612	136.80	0.12	1.72	1.7	1.1	90.5	0.04	3.3	0.021	0.10	9.0	20	0.2	286.4
177	SPL011 01+00E	6	0.2	1.73	69.0	45.5	1.02	0.16	0.59	9.6	23.0	26.7	3.90	6.9	15	0.06	18.5	0.50	448	0.64	0.030	29.2	637	120.20	0.06	2.38	1.5	0.5	26.0	0.04	2.5	0.007	0.10	1.4	22	0.2	251.2
178	SPL011 01+25E	3	0.1	1.82	54.5	46.0	0.86	0.44	0.39	10.1	23.5	22.8	3.91	6.7	15	0.07	17.0	0.52	447	0.58	0.030	31.3	766	57.60	0.08	1.94	1.9	0.6	35.0	0.04	3.2	0.007	0.10	2.3	24	0.2	140.3
179	SPL011 01+50E	2	<0.1	1.87	34.8	30.5	0.56	0.06	0.20	13.9	21.0	28.4	3.92	6.2	25	0.06	15.5	0.49	513	0.40	0.028	32.6	481	28.40	0.04	1.52	1.8	0.5	22.5	0.04	5.0	0.014	0.10	1.0	18	0.2	94.4
180	SPL011 01+75E	3	0.1	2.14	64.5	78.0	1.12	0.16	0.44	9.5	24.5	24.4	3.98	7.3	20	0.07	17.5	0.54	622	1.14	0.031	27.8	1209	51.12	0.12	1.76	1.6	0.6	24.5	0.06	3.5	0.008	0.14	3.3	26	0.2	160.1
181	SPL011 02+00E	3	0.2	1.91	74.3	45.0	1.32	0.49	0.41	11.1	23.5	29.8	3.77	6.8	15	0.08	18.0	0.55	447	0.81	0.035	30.9	608	51.51	0.06	2.10	1.7	0.7	40.0	0.04	3.7	0.011	0.12	3.4	22	0.2	132.2
182	SPL011 02+25E	12	0.2	3.26	276.4	39.5	10.38	0.64	0.49	22.2	29.0	110.0	4.77	7.9	35	0.12	25.0	0.50	871	2.74	0.032	49.4	946	37.74	0.10	17.96	3.0	1.0	46.5	0.12	7.4	0.017	0.16	2.7	26	1.3	141.2
183	SPL011 02+50E	6	0.2	2.15	93.7	47.5	2.64	0.07	0.29	13.0	25.5	45.6	4.43	7.1	25	0.09	19.5	0.57	497	1.38	0.030	36.1	560	48.93	0.06	4.24	1.8	0.6	15.5	0.04	4.8	0.012	0.14	1.4	22	0.5	132.2
184	SPL011 02+75E	10	0.5	1.95	174.6	50.0	7.28	0.14	0.30	11.4	25.5	72.9	4.03	6.8	25	0.08	19.5	0.47	481	3.70	0.036	35.1	739	42.01	0.08	9.14	1.9	0.6	21.0	0.10	4.1	0.009	0.18	1.6	26	1.7	103.0
185	SPL011 03+00E	15	0.4	2.09	209.2	59.5	11.00	0.14	0.43	21.9	32.5	106.4	5.04	7.8	25	0.12	24.0	0.56	874	5.78	0.036	50.9	638	49.80	0.08	14.56	2.6	0.8	22.5	0.16	4.8	0.012	0.20	2.0	30	1.6	133.0
186	SPL011 03+25E	7	0.3	1.98	144.3	59.0	7.16	0.34	0.31	15.5	26.0	61.5	4.01	7.0	15	0.08	17.0	0.47	800	14.10	0.035	32.3	744	45.98	0.08	5.56	1.7	0.6	29.0	0.10	2.8	0.008	0.18	1.6	26	1.1	107.7
187	SPL011 03+50E	5	0.2	1.78	135.4	76.0	7.02	0.45	0.41	15.6	23.0	52.8	4.01	7.8	20	0.08	17.5	0.41	1543	14.92	0.033	29.4	817	37.36	0.10	3.82	1.2	0.6	31.5	0.10	2.2	0.007	0.16	1.6	28	1.1	95.1
188	SPL011 03+75E	4	0.2	1.33	44.5	19.0	0.88	0.10	0.25	16.7	17.0	41.7	4.01	4.6	20	0.05	18.0	0.46	587	0.46	0.027	36.4	568	31.99	0.04	2.54	2.4	0.6	12.0	0.06	6.0	0.010	0.10	1.0	12	0.1	108.3
189	SPL011 04+00E	4	0.2	2.18	65.7	30.5	1.44	0.10	0.31	17.6	22.0	46.0	4.10	6.6	35	0.06	16.5	0.50	698	0.64	0.030	34.0	834	32.53	0.08	2.40	2.0	0.7	13.0	0.02	4.4	0.019	0.14	1.2	18	0.2	102.4
190	SPL011 04+25E	10	0.3	1.66	727.2	44.5	7.96	0.15	0.59	30.7	23.5	175.3	5.32	6.8	10	0.18	31.5	0.47	906	0.81	0.034	54.3	534	30.96	0.06	8.30	3.1	0.9	21.5	0.10	8.2	0.019	0.24	2.3	24	0.7	120.8
191	SPL011 04+50E	12	0.2	2.08	542.3	51.5	5.68	0.10	0.37	25.8	27.5	116.4	5.42	7.6	15	0.16	27.5	0.52	868	1.13	0.032	48.0	654	36.67	0.08	7.30	2.7	0.8	19.0	0.10	6.1	0.018	0.24	2.1	28	0.6	127.8
192	SPL011 04+75E N/S																																				
193	SPL011 05+00E N/S																																				
194	SPL011 05+25E	10	0.1	3.01	737.1	92.0	4.12	0.21	0.39	25.0	36.0	82.4	5.21	9.8	30	0.19	24.0	0.64	818	3.57	0.031	59.1	1272	48.85	0.10	7.60	3.4	0.8	23.5	0.08	6.7	0.012	0.28	3.1	34	0.5	170.3
195	SPL011 05+50E	16	0.2	2.27	877.7	48.0	2.92	0.32	0.32	30.9	27.0	89.9	5.37	8.4	15	0.18	26.0	0.59	819	0.59	0.043	58.3	699	22.46	0.08	3.40	3.5	0.7	39.0	0.10	7.8	0.021	0.22	2.6	28	0.8	96.3
QC DATA:																																					
Repeat:																																					
1	SPL001 00+00	7	0.2	1.49	246.1	59.5	3.38	0.11	0.18	10.1	21.0	48.2	4.12	6.8	25	0.09	23.0	0.32	364	3.09	0.036	24.5	888	39.67	0.06	3.60	1.0	0.5	16.5	0.08	2.0	0.003	0.22	1.2	28	1.3	87.9
10	SPL002 00+00	7	0.1	1.88	105.2	45.0	1.76	0.93	0.19	14.4	26.0	62.7	3.63	7.0	20	0.15	27.0	0.71	488	0.38	0.048	33.6	637	20.65	0.02	3.16	3.6	0.8	61.5	0.04	7.0	0.017	0.22	1.1	24	0.3	77.1
19	SPL002 02+25W	7	0.2	1.57	55.2	33.0	1.02	0.07	0.15	8.6	20.5	44.0	4.18	5.0	25	0.05	20.5	0.36	382	0.41	0.028	25.5	535	38.14	0.02	4.78	2.0	0.5	10.5	0.04	7.4	0.005	0.16	0.7	14	0.3	88.3
29	SPL002 04+75W	11	0.2	1.57	95.4	24.5	1.76	0.06	0.13	10.7	18.5	37.3	3.86	5.9	35	0.04	17.0	0.20	381	0.58	0.029	19.3	569	44.83	0.02	4.90	1.3	0.6	9.0	0.06	3.7	0.009	0.12	0.8	20	0.3	65.9
36	SPL003 01+25E	9	0.2	1.18	103.6	23.0	1.72	0.04	0.10	15.6	22.5	30.8	4.47	8.2	20	0.05	19.0	0.34	1109	0.45	0.029	21.7	602	42.42	0.02	6.12	1.0	0.4	7.0	0.06	1.6	0.019	0.10	0.8	26	0.4	71.7
45	SPL003 03+50E	8	0.4	1.63	50.6	32.0	0.86	0.07	0.11	7.2	19.0	36.8	3.49	5.4	30	0.05	19.5	0.40	192	0.44	0.023	23.6	696	31.90	0.02	3.20	1.3	0.5	9.5	0.04	4.2	0.005	0.12	0.9	16	0.3	81.1
54	SPL004 00+50W	5	0.1	1.37	97.3	30.5	1.26	0.03	0.12	7.6	20.0	32.4	4.06	6.6	20	0.05	19.5	0.35	262	0.48	0.024	20.9	415	38.04	<0.02	4.14	1.2	0.4	6.5	0.04	2.5	0.007	0.14	0.7	20	0.2	89.6
63	SPL004 02+75W	17	0.2	1.50	150.4	22.5	1.42	0.11	0.25	15.7	18.0	57.1	3.85	4.2	20	0.07	17.5	0.33	451	0.37	0.025	32.6	573	57.00	<0.02	7.14	2.1	0.5	10.0	0.08	8.7	0.012	0.18	0.9	14	0.2	109.8
71	SPL004 04+75W	4	0.3	1.21	36.1	30.5	1.00	0.04	0.05	4.2	16.5	18.8	2.60	6.1	20	0.05	21.5	0.30	114	0.50	0.027	13.5	610	20.59	0.02	2.30	0.5	0.4	8.5	0.04	1.4	0.003	0.14	0.7	20	0.2	50.3
80	SPL005 01+75E	24	0.1	1.86	91.7	35.5	1.56	0.14	0.33	19.1	20.5	78.9	4.23	5.5	25	0.09	29.5	0.40	600	0.29	0.028	38.1	614	46.30	<0.02	8.30	2.7	0.6	15.5	0.10	12.7	0.011	0.26	1.0	16	0.2	119.8
89	SPL005 04+00E	11	0.4	2.33	75.6	42.0	0.90	0.12	0.28	14.7	24.5	55.1	4.43	5.1	40	0.07	24.5	0.50	457	0.33	0.027	39.0	760	48.03	<0.02	3.78	2.2	0.5	14.0	0.04	12.2	0.009	0.16	0.9	16	0.2	126.5
98	SPL006 01+00W	9	0.2	2.23	72.4	26.5	1.14	0.12	0.19	11.2	21.5	45.7	4.21	5.7	45	0.05	16.0	0.33	429	0.37	0.026	25.1	994	42.13	0.04	5.24	1.8	0.7	11.5	0.08	7.6	0.014	0.14	1.0	16	0.2	75.5
106	SPL006 03+00W	4	0.2	1.40	43.0	29.0	0.50	0.11	0.26	14.6	18.0	33.0	4.01	5.1	15	0.04	27.5	0.56	574	0.31	0.033	35.0	395	38.77	0.04	2.90	2.2	0.8	15.0	0.06	8.2	0.001	0.10	1.5	12	<0.1	118.8
115	SPL007 00+00	3	0.4	0.89	62.0	31.0	0.90	0.31	0.31	19.5	13.0	48.3	5.07	3.3	20	0.03	22.5	0.44	618	0.48	0.030	44.5	344	53.17	0.06	4.30	2.2	0.7	33.0	0.08	11.8	0.005	0.06	2.0	8	<0.1	165.2
124	SPL007 02+25W	3	0.2	0.88	38.5	18.0	0.48	0.14	0.23	13.4	11.5	37.6	3.99	3.4	25	0.03	24.0	0.33	483	0.38	0.026	32.0	512	48.41	0.04	1.90	1.7	0.7	16.5	0.04	6.7	0.005	0.08	1.2	8	<0.1	136.3

ECO TECH LABORATORY LTD. **ICP CERTIFICATE OF ANALYSIS AW 2010- 8111** **TerraLogic Exploration Inc.**

Et #	Tag #	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Se ppm	Sr ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
133	SPL008 00+75E	2	0.1	1.98	7.0	26.5	0.40	0.42	0.09	12.7	24.0	28.6	3.73	6.1	15	0.04	13.5	0.72	351	0.29	0.067	31.4	649	30.16	0.06	0.72	2.3	0.5	51.5	0.04	4.9	0.013	0.06	1.2	18	<0.1	97.9
141	SPL008 02+75E	2	0.1	1.69	11.1	26.0	0.38	0.35	0.11	12.5	19.0	26.4	3.55	5.4	10	0.03	12.0	0.67	307	0.37	0.057	31.7	591	38.37	0.06	0.82	1.4	0.4	38.5	0.02	3.2	0.012	0.06	1.0	16	<0.1	94.5
150	SPL009 01+25E	5	0.4	1.21	31.0	37.5	0.54	0.24	0.18	17.5	15.5	41.4	4.42	4.1	20	0.03	16.5	0.54	397	0.47	0.026	38.2	460	72.49	0.04	3.14	2.0	0.7	27.5	0.04	8.1	0.001	0.04	2.2	10	<0.1	167.7
160	SPL010 01+00W	2	0.1	1.53	116.2	35.5	1.40	0.42	0.13	9.9	22.0	27.1	5.30	6.7	20	0.05	13.5	0.56	420	2.76	0.029	23.0	710	31.40	0.06	3.02	0.8	0.5	30.0	0.06	1.7	0.005	0.10	1.0	20	0.3	79.9
168	SPL010 03+00W	3	0.3	1.80	55.5	48.0	1.86	1.62	0.79	10.3	21.5	31.1	3.04	5.2	30	0.07	13.5	0.50	618	0.96	0.043	26.5	1166	33.77	0.18	2.66	1.2	1.5	93.5	0.04	3.1	0.013	0.10	6.4	16	0.3	161.3
176	SPL011 00+75E	4	0.5	1.97	55.9	35.5	0.62	0.88	1.95	9.9	21.0	25.3	2.99	5.4	15	0.06	13.0	0.46	378	0.37	0.075	27.8	594	129.40	0.11	1.60	1.5	1.0	87.5	0.04	3.0	0.019	0.08	8.5	18	0.2	278.0
185	SPL011 03+00E	14	0.3	2.08	207.7	60.5	11.48	0.14	0.43	22.1	32.5	105.3	5.00	8.0	20	0.12	24.5	0.56	880	5.76	0.034	50.9	637	49.26	0.08	13.48	2.6	0.8	21.0	0.12	5.3	0.012	0.22	2.0	30	1.7	130.6
Standard:																																					
OXE74		602	0.1	1.69	0.8	60.5	0.06	0.86	0.04	21.7	56.5	29.2	2.99	7.0	10	0.39	14.0	1.49	479	1.79	0.696	79.6	995	6.42	0.02	0.08	1.3	0.2	170.5	0.02	1.8	0.390	0.04	0.5	48	<0.1	42.4
OXE74		620	<0.1	1.72	1.0	70.5	0.06	0.80	0.03	21.3	59.0	29.6	3.19	6.9	5	0.42	14.0	1.54	490	1.75	0.711	81.0	1032	7.89	<0.02	0.06	1.3	0.2	189.0	0.02	1.9	0.412	0.04	0.6	5	0.2	44.6
OXE74		618	<0.1	1.66	1.0	67.0	0.02	0.82	0.03	20.4	56.0	28.6	3.20	6.5	5	0.41	13.5	1.50	485	1.65	0.718	79.6	992	6.97	0.02	0.06	1.2	0.2	176.0	0.04	2.1	0.400	0.04	0.6	52	<0.1	43.3
OXE74		616	<0.1	1.72	1.1	72.5	0.04	0.77	0.03	21.5	59.5	30.2	3.12	6.8	10	0.38	14.5	1.47	464	1.77	0.691	80.7	1054	7.37	<0.02	0.06	1.4	0.3	190.5	0.04	1.8	0.395	0.04	0.5	54	0.1	44.8
OXE74		606	0.1	1.66	1.3	69.5	0.04	0.81	0.03	20.1	57.5	29.3	3.11	6.4	5	0.40	14.0	1.49	475	1.58	0.709	79.8	1098	7.45	0.02	0.08	1.3	0.3	187.5	0.04	2.0	0.393	0.04	0.5	52	<0.1	41.7
OXE74		615	0.1	1.72	1.3	71.5	0.04	0.81	0.04	21.6	60.0	30.6	3.14	6.9	15	0.40	15.5	1.44	487	1.76	0.698	81.0	1035	8.25	<0.02	0.04	1.5	0.3	188.0	0.02	2.1	0.404	0.04	0.6	50	<0.1	42.9

Aqua Regia Digest/ICPMS Finish

NM/nw
df/nwmsr8111AuBS
XLS/10

ECO TECH LABORATORY LTD.
Norman Monteith
B.C. Certified Assayer

5.3 – MMI Samples

Certificate of Analysis

Work Order: TO111858

To: **COD SGS Minerals**
C/O #50-655 West Kent Avenue N.
VANCOUVER
BC V6P 6T7

Date: Sep 29, 2010

P.O. No.	:	Terralogic Exploration
Project No.	:	-
No. Of Samples	:	87
Date Submitted	:	Sep 10, 2010
Report Comprises	:	Pages 1 to 19 (Inclusive of Cover Sheet)

Distribution of unused material:
Return to client:

Certified By :

Gavin McGill
Operations Manager

SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
SPML007 00+00W	72	11	20	0.2	330	<1	310	12	44	176
SPML007 00+25W	94	36	<10	0.3	380	<1	290	23	29	186
SPML007 00+50W	36	41	<10	0.2	260	<1	310	8	30	46
SPML007 00+75W	38	57	<10	0.4	280	<1	310	4	11	22
SPML007 01+00W	24	163	50	0.5	320	2	180	13	313	107
SPML007 01+25W	50	36	10	0.5	100	<1	240	10	64	171
SPML007 01+50W	44	22	<10	0.2	250	<1	210	36	23	81
SPML007 01+75W	24	20	50	0.1	130	<1	220	9	78	189
SPML007 02+00W	57	59	20	0.4	100	<1	240	7	62	71
SPML007 02+25W	59	59	30	0.7	130	<1	210	7	99	110
SPML007 02+50W	35	63	20	0.5	180	<1	240	42	132	110
SPML007 02+75W	15	177	20	0.2	370	2	70	21	181	289
SPML007 03+00W	9	159	20	0.1	390	1	170	8	190	40
SPML007 03+25W	9	149	<10	<0.1	600	<1	190	5	40	7
SPML007 03+50W	17	86	10	0.2	200	<1	210	6	281	52
SPML008 00+00E	78	112	80	1.1	260	2	210	22	370	73
SPML008 00+25E	22	26	<10	0.1	110	<1	330	13	91	276
SPML008 00+50E	9	132	<10	<0.1	270	<1	170	12	77	28
SPML008 00+75E	18	150	<10	<0.1	250	<1	210	3	125	33
SPML008 01+00E	15	156	<10	0.1	330	1	170	5	256	135
SPML008 01+25E	27	96	<10	0.1	230	<1	250	6	78	77
SPML008 01+50E	2	132	<10	<0.1	420	<1	200	15	123	206
SPML008 01+75E	27	91	<10	0.3	250	<1	320	8	66	75
SPML008 02+00E	19	102	<10	0.1	180	<1	310	7	36	34
SPML008 02+25E	37	73	<10	0.4	220	<1	330	6	74	46
SPML008 02+50E	52	195	10	0.1	460	2	110	15	226	126
SPML008 02+75E	23	145	<10	0.2	250	<1	200	6	114	33
SPML008 03+00E	15	162	30	0.2	380	<1	170	8	138	39
SPML008 03+25E	29	191	50	0.2	280	<1	140	11	224	66
SPML008 03+50E	37	76	90	0.6	310	2	220	7	173	99
SPML009 00+00E	53	26	<10	0.3	300	<1	320	24	39	153
SPML009 00+25E	19	128	<10	0.2	260	<1	220	5	62	22
SPML009 00+75E	56	129	20	0.5	280	<1	250	12	86	28
SPML009 01+00E	77	47	60	1.3	820	2	240	34	196	216
SPML009 01+25E	56	87	20	1.1	540	<1	250	22	110	202
SPML009 01+50E	69	18	<10	0.6	240	<1	280	17	15	144
SPML009 01+75E	76	15	20	0.4	210	<1	210	23	44	566
SPML009 02+00E	39	11	<10	0.4	190	<1	330	9	16	134
SPML009 02+25E	26	41	<10	0.6	370	<1	330	28	30	137
SPML009 02+50E	79	18	10	0.9	320	<1	250	23	43	356
SPML010 00+00W	11	89	240	1.1	160	1	250	9	107	115
SPML010 00+25W	29	59	500	2.3	170	3	250	14	233	217
SPML010 00+50W	35	48	240	1.1	170	4	190	14	128	235

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
SPML010 01+00W	9	137	50	0.2	130	<1	240	13	44	37
SPML010 01+25W	23	137	10	0.2	120	<1	230	10	55	17
SPML010 01+50W	6	224	50	0.1	360	3	80	10	115	71
SPML010 01+75W	30	161	50	1.0	700	16	100	13	121	94
SPML010 02+00W	6	209	60	0.4	540	34	<10	65	138	72
SPML010 02+25W	4	230	60	0.1	400	7	<10	28	85	109
SPML010 02+50W	32	280	20	0.2	250	<1	40	7	375	83
SPML010 02+75W	8	216	20	0.1	250	2	30	34	87	274
SPML010 03+00W	9	57	<10	0.2	280	<1	390	40	12	6
SPML010 03+25W	17	175	50	0.4	570	3	130	48	211	185
SPML010 03+75W	67	35	30	0.7	310	<1	230	25	64	384
SPML010 04+00W	36	16	30	0.4	220	<1	190	15	29	161
SPML011 00+00E	49	163	100	0.4	410	2	180	25	179	40
SPML011 00+25E	65	84	30	0.5	290	<1	270	33	44	19
SPML011 00+50E	44	72	20	0.5	180	<1	290	51	31	17
SPML011 00+75E	48	81	<10	0.3	210	<1	280	142	13	<5
SPML011 01+00E	26	208	40	0.5	610	2	80	16	227	17
SPML011 01+25E	17	125	<10	0.2	280	<1	250	13	21	5
SPML011 01+50E	7	269	10	0.1	210	<1	<10	8	144	24
SPML011 01+75E	8	217	10	0.1	630	2	20	18	266	7
SPML011 02+00E	23	82	<10	0.3	350	<1	250	19	29	18
SPML011 02+25E	25	112	<10	0.8	100	<1	220	15	47	7
SPML011 02+50E	19	272	20	0.3	580	9	<10	18	120	23
SPML011 02+75E	31	255	90	0.6	580	31	20	28	290	47
SPML011 03+00E	30	294	120	1.0	770	54	30	29	344	66
SPML011 03+25E	36	133	40	0.6	610	7	180	23	83	11
SPML011 03+50E	13	119	40	0.3	350	4	230	19	45	17
SPML011 03+75E	12	>300	50	0.3	380	5	20	32	379	225
SPML011 04+00E	22	>300	50	0.3	350	3	<10	21	213	67
SPML011 04+25E	50	251	510	1.2	470	22	60	55	815	201
SPML011 04+50E	23	262	490	1.5	490	21	20	12	484	133
SPML011 05+25E	13	245	1280	1.1	380	6	100	12	383	215
SPML011 05+50E	21	184	600	1.8	320	4	130	22	330	100
BWSPD004	46	135	100	0.5	330	2	130	12	235	81
BWSPD005	36	126	80	0.7	620	3	200	6	169	22
AHSPD005	25	283	100	1.0	570	7	<10	10	278	246
AHSPD006	57	257	240	3.5	770	5	20	11	636	381
AHSPD007	36	37	10	1.9	330	<1	260	9	43	12
AHSPD008	33	164	180	9.6	580	6	<10	11	1310	240
AHSPD009	35	98	180	5.4	680	5	50	17	1280	108
AHSPD015	36	293	100	0.3	290	3	<10	6	77	66
AHSPD016	44	>300	550	5.9	670	17	<10	12	268	203
AHSPD017	218	54	1040	25.1	290	3	190	168	312	236

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
AHSPD018	260	34	440	15.2	210	<1	190	277	83	78
*Rep SPML007 00+00W	72	11	20	0.1	320	<1	300	14	44	192
*Rep SPML008 00+50E	10	133	<10	<0.1	200	<1	190	10	78	29
*Rep SPML008 03+25E	31	196	50	0.2	300	1	140	12	215	61
*Rep SPML010 02+75W	9	220	20	0.1	220	2	30	38	88	291
*Rep SPML010 03+25W	15	169	80	0.4	530	3	120	41	184	320
*Rep BWSPD004	46	132	80	0.7	320	1	130	10	215	82
*Rep AHSPD007	37	33	10	2.2	330	<1	250	8	37	12
*Std MMISRM16	17	44	10	28.2	80	<1	200	4	21	61
*Std AMIS0169	8	59	<10	0.8	750	<1	30	2	819	115
*Std MMISRM18	19	21	<10	7.5	200	<1	150	80	26	57
*Blk BLANK	<1	<1	<10	<0.1	20	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	10	<1	<10	<1	<5	<5

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Element	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
SPML007 00+00W	<100	8.1	980	16	8.1	5.7	23	5	23	<1
SPML007 00+25W	<100	3.7	2740	19	10.8	4.6	24	6	20	<1
SPML007 00+50W	<100	2.4	1520	17	8.9	5.1	26	4	23	<1
SPML007 00+75W	<100	3.6	2080	12	5.4	3.9	9	5	17	<1
SPML007 01+00W	<100	10.7	980	119	59.6	31.3	66	7	138	<1
SPML007 01+25W	<100	4.5	1140	13	6.1	4.4	24	2	18	<1
SPML007 01+50W	<100	3.2	1450	7	4.2	2.4	15	4	10	<1
SPML007 01+75W	<100	11.7	670	21	11.0	7.1	36	3	32	<1
SPML007 02+00W	<100	4.8	690	24	11.2	7.9	39	3	35	<1
SPML007 02+25W	<100	8.6	630	25	11.3	8.2	37	3	36	<1
SPML007 02+50W	<100	7.7	500	36	17.8	11.6	51	4	51	<1
SPML007 02+75W	<100	15.4	190	26	11.4	7.2	160	11	31	<1
SPML007 03+00W	<100	17.1	260	37	15.9	10.2	54	9	44	<1
SPML007 03+25W	<100	3.7	70	12	5.7	2.5	36	11	11	<1
SPML007 03+50W	<100	17.6	380	42	19.8	10.7	45	5	48	<1
SPML008 00+00E	<100	38.4	1210	103	49.9	30.0	50	5	130	<1
SPML008 00+25E	<100	5.9	1110	21	10.3	6.4	17	2	30	<1
SPML008 00+50E	<100	7.2	380	46	25.8	9.4	35	8	43	<1
SPML008 00+75E	<100	9.9	1030	42	21.8	10.9	38	9	46	<1
SPML008 01+00E	<100	14.7	1290	98	55.8	21.3	62	9	88	<1
SPML008 01+25E	<100	3.5	1320	30	16.9	8.7	30	5	34	<1
SPML008 01+50E	<100	4.9	370	57	38.7	7.4	56	8	36	<1
SPML008 01+75E	<100	3.7	1450	30	16.2	7.3	24	5	34	<1
SPML008 02+00E	<100	4.5	1210	27	14.5	6.7	15	3	31	<1
SPML008 02+25E	<100	3.7	1900	40	20.8	10.1	22	4	48	<1
SPML008 02+50E	<100	10.9	820	85	50.8	14.9	73	14	72	<1
SPML008 02+75E	<100	8.5	450	29	16.1	6.3	33	7	29	<1
SPML008 03+00E	<100	12.7	470	41	23.5	8.7	37	10	39	<1
SPML008 03+25E	<100	21.0	570	59	32.5	15.7	36	11	67	<1
SPML008 03+50E	<100	7.2	2700	67	35.6	19.2	66	7	78	<1
SPML009 00+00E	<100	5.6	990	20	12.5	3.9	34	5	19	<1
SPML009 00+25E	<100	11.6	340	16	9.2	3.7	27	8	17	<1
SPML009 00+75E	<100	14.3	610	47	26.3	12.0	28	6	50	<1
SPML009 01+00E	<100	3.1	4610	66	47.7	23.6	59	12	101	<1
SPML009 01+25E	<100	2.5	2700	60	36.0	14.2	49	9	60	<1
SPML009 01+50E	<100	2.8	1630	11	6.1	3.3	17	4	13	<1
SPML009 01+75E	<100	2.4	2870	17	10.4	5.2	30	4	21	<1
SPML009 02+00E	<100	4.3	850	9	4.9	2.7	16	3	12	<1
SPML009 02+25E	<100	1.2	700	14	8.1	4.0	30	6	15	<1
SPML009 02+50E	<100	1.2	2830	22	12.8	6.0	34	5	24	<1
SPML010 00+00W	<100	18.4	650	23	12.2	6.2	35	4	29	<1
SPML010 00+25W	<100	17.6	3670	29	15.6	9.6	53	4	43	<1
SPML010 00+50W	<100	14.4	1730	22	10.5	6.8	64	4	26	<1

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Element	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
SPML010 01+00W	<100	12.3	330	11	6.3	2.1	47	6	11	<1
SPML010 01+25W	<100	14.5	600	23	12.0	4.6	21	4	23	<1
SPML010 01+50W	<100	19.6	140	23	11.5	4.4	106	14	22	<1
SPML010 01+75W	<100	59.1	1010	34	16.6	6.7	51	14	29	<1
SPML010 02+00W	<100	58.6	590	37	21.6	6.2	76	24	28	<1
SPML010 02+25W	<100	13.3	420	28	14.9	4.6	171	20	20	1
SPML010 02+50W	<100	17.5	460	106	48.1	30.0	51	9	126	<1
SPML010 02+75W	<100	9.1	160	50	30.8	7.4	215	8	35	<1
SPML010 03+00W	<100	6.8	150	3	1.7	0.9	5	4	5	<1
SPML010 03+25W	<100	25.5	610	33	16.5	7.2	71	12	34	<1
SPML010 03+75W	<100	2.4	2790	33	18.1	9.5	38	5	39	<1
SPML010 04+00W	<100	5.8	1350	11	5.7	3.6	27	4	14	<1
SPML011 00+00E	<100	43.3	600	35	17.6	9.1	35	12	40	<1
SPML011 00+25E	<100	11.6	820	11	5.9	3.7	15	6	15	<1
SPML011 00+50E	<100	8.5	660	8	4.0	2.4	13	4	11	<1
SPML011 00+75E	<100	6.8	450	5	2.6	1.5	6	4	6	<1
SPML011 01+00E	<100	28.3	240	53	25.7	11.7	34	15	55	<1
SPML011 01+25E	<100	18.5	200	8	3.7	2.0	7	5	9	<1
SPML011 01+50E	<100	47.6	400	31	14.7	6.7	34	12	31	<1
SPML011 01+75E	<100	19.6	210	83	40.2	13.9	27	14	69	<1
SPML011 02+00E	<100	14.5	630	6	3.0	2.0	9	6	9	<1
SPML011 02+25E	<100	68.1	790	9	4.7	2.5	4	3	11	<1
SPML011 02+50E	<100	52.7	410	32	14.0	5.8	29	15	27	<1
SPML011 02+75E	<100	51.3	1110	55	25.2	12.7	46	19	56	<1
SPML011 03+00E	<100	105	1150	50	21.9	13.8	35	23	58	<1
SPML011 03+25E	<100	29.7	630	31	15.1	6.6	19	12	30	<1
SPML011 03+50E	<100	25.4	490	19	8.9	4.9	18	8	22	<1
SPML011 03+75E	<100	42.8	490	95	45.9	25.7	60	18	108	<1
SPML011 04+00E	<100	39.0	780	47	21.0	10.2	41	18	44	<1
SPML011 04+25E	<100	141	2530	104	45.4	31.3	43	13	148	<1
SPML011 04+50E	<100	91.4	1440	73	32.7	20.6	49	18	91	<1
SPML011 05+25E	<100	114	870	43	19.0	12.5	51	14	58	<1
SPML011 05+50E	<100	136	1170	58	28.1	20.7	34	10	76	<1
BWSPD004	<100	29.1	480	86	37.9	28.1	60	8	116	<1
BWSPD005	<100	23.9	690	71	34.2	18.6	33	12	85	<1
AHSPD005	<100	19.2	520	34	15.6	9.6	195	15	38	<1
AHSPD006	<100	51.9	830	88	40.2	29.2	108	22	119	<1
AHSPD007	<100	14.0	770	10	4.3	4.0	4	5	19	2
AHSPD008	<100	129	1680	104	37.6	41.4	78	19	158	<1
AHSPD009	<100	72.6	2360	189	67.7	68.1	136	16	268	<1
AHSPD015	<100	75.4	350	10	5.1	2.3	191	12	10	<1
AHSPD016	100	58.1	700	37	13.6	10.3	233	24	45	1
AHSPD017	<100	38.6	2600	44	18.8	16.4	105	8	70	<1

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Element	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
AHSPD018	<100	16.8	3120	28	11.5	11.8	27	4	49	<1
*Rep SPML007 00+00W	<100	8.9	930	16	7.9	5.5	22	5	21	<1
*Rep SPML008 00+50E	<100	7.6	460	42	22.3	9.5	33	7	43	<1
*Rep SPML008 03+25E	<100	21.5	560	60	32.0	15.3	37	11	66	<1
*Rep SPML010 02+75W	<100	9.0	150	50	29.8	7.5	221	8	36	<1
*Rep SPML010 03+25W	<100	24.7	870	25	12.5	5.6	92	11	25	<1
*Rep BWSPD004	<100	27.9	480	90	38.7	29.1	52	8	124	<1
*Rep AHSPD007	<100	14.0	810	10	4.4	4.0	4	5	19	3
*Std MMISRM16	<100	14.5	640	3	0.9	1.2	2	2	5	16
*Std AMIS0169	<100	9.7	3960	33	14.2	13.0	42	22	57	<1
*Std MMISRM18	<100	7.1	730	4	1.4	1.4	3	3	6	5
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1

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Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
SPML007 00+00W	<0.5	13.9	22	7	4	4530	<5	<0.5	43	360
SPML007 00+25W	<0.5	7.9	16	6	27	5550	<5	<0.5	29	1170
SPML007 00+50W	<0.5	6.7	14	8	34	1070	<5	<0.5	32	602
SPML007 00+75W	<0.5	9.9	10	9	34	860	<5	<0.5	25	724
SPML007 01+00W	<0.5	14.9	143	<5	3	3720	<5	0.5	255	657
SPML007 01+25W	<0.5	12.7	18	<5	13	6370	<5	<0.5	35	411
SPML007 01+50W	<0.5	13.2	11	<5	2	2790	<5	<0.5	21	275
SPML007 01+75W	<0.5	31.5	34	<5	5	7500	<5	<0.5	65	544
SPML007 02+00W	<0.5	10.3	41	<5	2	2160	<5	<0.5	78	335
SPML007 02+25W	<0.5	12.3	37	<5	2	2790	<5	<0.5	76	300
SPML007 02+50W	<0.5	19.9	50	<5	4	3170	<5	<0.5	106	397
SPML007 02+75W	<0.5	18.6	49	<5	4	8300	<5	0.6	78	224
SPML007 03+00W	<0.5	12.8	79	<5	1	1440	<5	0.7	117	128
SPML007 03+25W	<0.5	7.0	21	<5	<1	510	<5	<0.5	28	71
SPML007 03+50W	<0.5	18.8	87	<5	4	2680	<5	<0.5	132	166
SPML008 00+00E	<0.5	16.2	229	<5	2	4450	<5	<0.5	350	388
SPML008 00+25E	<0.5	35.1	36	<5	5	9080	<5	<0.5	66	541
SPML008 00+50E	<0.5	14.0	70	<5	1	2040	<5	0.6	84	193
SPML008 00+75E	<0.5	8.0	81	<5	<1	1180	<5	<0.5	106	112
SPML008 01+00E	<0.5	11.3	150	<5	<1	5420	<5	<0.5	169	401
SPML008 01+25E	<0.5	14.6	60	<5	2	2520	<5	<0.5	76	228
SPML008 01+50E	<0.5	15.6	57	<5	2	7010	<5	<0.5	68	344
SPML008 01+75E	<0.5	13.8	66	<5	2	2290	<5	<0.5	85	373
SPML008 02+00E	<0.5	10.8	56	<5	2	1090	<5	<0.5	69	387
SPML008 02+25E	<0.5	13.0	98	<5	3	1580	<5	<0.5	121	430
SPML008 02+50E	<0.5	13.9	112	<5	1	4520	<5	0.6	136	361
SPML008 02+75E	<0.5	8.1	61	<5	<1	1260	<5	0.7	70	136
SPML008 03+00E	<0.5	7.8	66	<5	<1	1710	<5	<0.5	89	194
SPML008 03+25E	<0.5	16.3	161	<5	1	2880	<5	<0.5	196	137
SPML008 03+50E	<0.5	6.9	83	<5	3	3050	<5	<0.5	148	976
SPML009 00+00E	<0.5	12.1	17	<5	4	2720	<5	<0.5	30	804
SPML009 00+25E	<0.5	10.7	32	<5	1	1160	<5	1.4	40	142
SPML009 00+75E	<0.5	14.9	69	<5	1	3140	<5	0.5	98	330
SPML009 01+00E	<0.5	8.1	74	<5	2	3190	<5	<0.5	158	1440
SPML009 01+25E	<0.5	5.9	49	<5	<1	3940	<5	<0.5	92	1180
SPML009 01+50E	<0.5	10.7	8	<5	4	3500	<5	<0.5	17	560
SPML009 01+75E	<0.5	8.8	17	5	4	13300	6	<0.5	35	1070
SPML009 02+00E	<0.5	17.5	8	8	4	3520	<5	<0.5	16	327
SPML009 02+25E	<0.5	9.9	12	<5	3	3330	<5	<0.5	23	987
SPML009 02+50E	<0.5	8.3	16	<5	5	3740	<5	<0.5	32	1130
SPML010 00+00W	<0.5	11.1	56	<5	27	4010	15	<0.5	77	372
SPML010 00+25W	<0.5	18.6	98	<5	22	6070	32	<0.5	140	513
SPML010 00+50W	<0.5	14.6	44	<5	14	5880	11	<0.5	68	296

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Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
SPML010 01+00W	<0.5	9.2	22	<5	8	1350	12	0.6	26	136
SPML010 01+25W	<0.5	7.2	35	<5	10	1170	42	<0.5	44	172
SPML010 01+50W	<0.5	7.9	31	<5	4	2250	34	1.6	47	149
SPML010 01+75W	<0.5	6.7	38	<5	8	2840	29	<0.5	67	254
SPML010 02+00W	0.6	8.1	47	<5	<1	1770	7	1.7	75	124
SPML010 02+25W	0.5	19.8	32	<5	2	4460	<5	4.7	42	163
SPML010 02+50W	<0.5	9.4	195	<5	<1	1930	<5	0.5	288	243
SPML010 02+75W	<0.5	15.8	36	<5	5	1350	<5	1.0	55	475
SPML010 03+00W	<0.5	9.2	5	5	30	440	<5	<0.5	10	164
SPML010 03+25W	<0.5	27.9	77	<5	4	10000	<5	1.0	91	287
SPML010 03+75W	<0.5	12.7	29	<5	5	6700	<5	<0.5	56	1030
SPML010 04+00W	<0.5	10.4	11	<5	3	4230	<5	<0.5	22	339
SPML011 00+00E	<0.5	9.7	91	<5	<1	1640	<5	0.5	115	68
SPML011 00+25E	<0.5	10.9	28	<5	3	610	<5	<0.5	43	101
SPML011 00+50E	<0.5	10.9	17	<5	4	1070	<5	<0.5	29	152
SPML011 00+75E	<0.5	8.2	14	<5	4	250	<5	<0.5	19	155
SPML011 01+00E	0.5	6.5	100	<5	<1	820	<5	1.2	139	52
SPML011 01+25E	<0.5	7.8	16	<5	4	230	<5	<0.5	23	50
SPML011 01+50E	<0.5	6.9	55	<5	<1	1090	<5	1.3	74	87
SPML011 01+75E	0.6	3.7	83	<5	<1	530	<5	0.8	168	126
SPML011 02+00E	<0.5	13.2	15	<5	10	660	<5	<0.5	23	99
SPML011 02+25E	<0.5	11.2	34	<5	7	230	<5	<0.5	38	67
SPML011 02+50E	<0.5	6.5	44	<5	<1	1040	<5	1.4	67	87
SPML011 02+75E	<0.5	7.1	127	<5	1	1480	8	1.4	178	132
SPML011 03+00E	<0.5	9.7	150	<5	2	2520	20	1.5	186	129
SPML011 03+25E	<0.5	4.5	59	<5	13	730	47	<0.5	75	101
SPML011 03+50E	<0.5	11.9	48	<5	11	1640	45	0.7	58	119
SPML011 03+75E	<0.5	13.7	207	<5	<1	8040	<5	2.2	275	260
SPML011 04+00E	<0.5	4.8	92	<5	<1	1560	<5	2.0	117	184
SPML011 04+25E	0.6	14.6	565	<5	4	4570	<5	0.8	612	408
SPML011 04+50E	0.5	7.2	229	<5	<1	4780	<5	1.6	302	103
SPML011 05+25E	<0.5	20.2	233	5	5	4220	15	0.9	229	229
SPML011 05+50E	<0.5	19.6	237	<5	5	2120	<5	0.7	296	177
BWSPD004	<0.5	9.3	222	<5	3	3180	24	<0.5	299	137
BWSPD005	<0.5	7.6	127	<5	5	830	14	0.7	189	129
AHSPD005	0.7	7.7	117	<5	<1	4870	<5	3.5	116	161
AHSPD006	<0.5	10.3	323	9	1	11900	<5	2.0	367	200
AHSPD007	<0.5	18.6	27	<5	7	730	<5	<0.5	40	103
AHSPD008	<0.5	7.6	585	<5	<1	6970	<5	1.5	842	172
AHSPD009	<0.5	9.5	769	<5	2	5970	<5	1.0	992	156
AHSPD015	0.6	7.5	36	<5	<1	1700	<5	4.7	31	115
AHSPD016	1.5	10.9	99	8	<1	4480	<5	6.5	116	154
AHSPD017	<0.5	13.6	139	<5	8	7080	<5	<0.5	195	841

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Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
AHSPD018	<0.5	7.9	66	<5	7	3340	<5	<0.5	125	603
*Rep SPML007 00+00W	<0.5	14.5	21	8	4	4960	<5	<0.5	41	348
*Rep SPML008 00+50E	<0.5	12.3	72	<5	1	1820	<5	0.6	88	160
*Rep SPML008 03+25E	<0.5	17.0	152	<5	1	2450	<5	<0.5	167	136
*Rep SPML010 02+75W	<0.5	17.2	36	<5	5	1420	<5	1.1	55	464
*Rep SPML010 03+25W	<0.5	27.0	86	<5	4	17500	<5	1.0	75	304
*Rep BWSPD004	<0.5	9.1	229	<5	3	2610	23	<0.5	312	121
*Rep AHSPD007	<0.5	17.5	27	<5	7	730	<5	<0.5	41	91
*Std MMISRM16	<0.5	37.5	5	<5	29	140	51	<0.5	16	222
*Std AMIS0169	<0.5	42.0	436	<5	31	3620	<5	3.7	405	457
*Std MMISRM18	<0.5	23.9	8	<5	74	510	31	<0.5	20	425
*Blk BLANK	<0.5	<0.1	2	<5	<1	<10	<5	<0.5	1	<5
*Blk BLANK	<0.5	<0.1	<1	<5	<1	10	<5	<0.5	<1	<5
*Blk BLANK	<0.5	<0.1	1	<5	<1	<10	<5	<0.5	<1	<5

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Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
SPML007 00+00W	1.4	180	<1	8	<1	47	2	5	15	<1
SPML007 00+25W	0.6	200	<1	6	<1	19	3	6	11	<1
SPML007 00+50W	0.5	190	<1	6	<1	15	2	6	14	<1
SPML007 00+75W	0.7	50	<1	5	<1	37	<1	<5	11	<1
SPML007 01+00W	6.6	1310	2	56	<1	102	5	96	94	<1
SPML007 01+25W	1.2	240	<1	7	<1	39	2	<5	13	<1
SPML007 01+50W	0.7	120	<1	4	<1	46	1	<5	7	<1
SPML007 01+75W	2.0	150	<1	13	<1	99	2	7	22	<1
SPML007 02+00W	2.4	220	<1	16	<1	67	2	6	26	<1
SPML007 02+25W	2.4	360	<1	16	<1	83	3	7	27	<1
SPML007 02+50W	2.5	710	<1	22	<1	78	2	10	36	<1
SPML007 02+75W	14.9	2390	<1	18	<1	139	3	35	25	<1
SPML007 03+00W	6.5	1050	<1	28	<1	191	2	34	34	<1
SPML007 03+25W	1.7	740	<1	6	<1	136	<1	21	6	<1
SPML007 03+50W	3.5	680	<1	32	<1	136	2	18	38	1
SPML008 00+00E	3.5	1290	1	62	<1	140	5	31	97	1
SPML008 00+25E	2.6	170	<1	14	<1	45	<1	<5	19	<1
SPML008 00+50E	1.6	600	<1	20	<1	95	<1	39	27	<1
SPML008 00+75E	2.4	720	<1	26	<1	111	1	38	32	<1
SPML008 01+00E	2.8	1670	<1	42	<1	155	2	78	55	<1
SPML008 01+25E	1.6	190	<1	18	<1	144	<1	11	23	<1
SPML008 01+50E	1.5	1140	<1	17	<1	173	<1	36	21	<1
SPML008 01+75E	1.1	130	<1	20	<1	145	1	7	23	<1
SPML008 02+00E	1.2	130	<1	16	<1	123	<1	<5	21	<1
SPML008 02+25E	1.1	90	<1	29	<1	94	<1	12	33	<1
SPML008 02+50E	3.4	2620	<1	34	<1	136	2	64	44	<1
SPML008 02+75E	1.4	1010	<1	18	<1	104	<1	18	20	<1
SPML008 03+00E	1.8	1360	<1	22	<1	153	1	28	27	<1
SPML008 03+25E	3.1	1520	<1	50	<1	212	2	37	52	<1
SPML008 03+50E	1.4	670	<1	31	<1	72	9	24	53	<1
SPML009 00+00E	0.4	400	<1	7	<1	41	1	<5	10	<1
SPML009 00+25E	1.4	400	<1	10	<1	46	<1	9	12	<1
SPML009 00+75E	1.3	550	<1	23	<1	59	2	27	32	<1
SPML009 01+00E	1.0	1940	2	32	<1	31	12	30	81	<1
SPML009 01+25E	0.7	1380	1	19	<1	32	9	21	35	<1
SPML009 01+50E	1.0	180	<1	3	<1	20	2	<5	7	<1
SPML009 01+75E	0.7	290	<1	7	<1	14	5	7	12	<1
SPML009 02+00E	1.5	140	<1	3	<1	37	1	<5	7	<1
SPML009 02+25E	0.7	250	<1	5	<1	14	2	<5	9	<1
SPML009 02+50E	0.6	410	<1	6	<1	8	7	7	12	<1
SPML010 00+00W	0.7	220	<1	16	<1	137	5	6	21	<1
SPML010 00+25W	0.8	230	<1	33	<1	170	10	7	34	<1
SPML010 00+50W	1.1	470	<1	15	<1	141	9	15	20	<1

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Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
SPML010 01+00W	1.1	470	<1	6	<1	160	2	6	7	<1
SPML010 01+25W	1.2	270	<1	11	<1	156	1	14	14	<1
SPML010 01+50W	6.2	1890	<1	11	<1	144	3	22	15	<1
SPML010 01+75W	1.0	1870	<1	15	<1	258	4	20	20	<1
SPML010 02+00W	5.4	1400	<1	18	<1	174	4	27	20	<1
SPML010 02+25W	27.0	1890	1	10	<1	189	3	34	14	<1
SPML010 02+50W	5.1	1070	<1	69	<1	123	2	57	92	<1
SPML010 02+75W	12.1	2240	<1	12	<1	141	<1	25	21	<1
SPML010 03+00W	0.4	110	<1	2	<1	80	<1	<5	3	<1
SPML010 03+25W	2.6	3060	<1	24	<1	269	4	25	25	<1
SPML010 03+75W	1.1	550	<1	11	<1	21	8	9	22	<1
SPML010 04+00W	0.9	330	<1	4	<1	38	3	<5	9	<1
SPML011 00+00E	1.8	2330	<1	30	<1	282	2	18	31	<1
SPML011 00+25E	0.7	650	<1	10	<1	171	1	<5	12	<1
SPML011 00+50E	0.7	640	<1	7	<1	139	<1	<5	8	<1
SPML011 00+75E	0.3	1240	<1	5	<1	105	<1	<5	5	<1
SPML011 01+00E	4.0	9620	<1	34	<1	183	2	28	38	<1
SPML011 01+25E	0.5	470	<1	5	<1	213	<1	<5	7	<1
SPML011 01+50E	4.0	1070	<1	18	<1	138	<1	27	23	<1
SPML011 01+75E	2.9	2970	<1	38	<1	154	<1	33	48	<1
SPML011 02+00E	0.6	370	<1	5	<1	187	<1	<5	7	<1
SPML011 02+25E	0.5	170	<1	10	<1	187	<1	<5	9	<1
SPML011 02+50E	5.3	3070	<1	16	<1	240	1	18	20	<1
SPML011 02+75E	5.0	2220	<1	44	<1	192	6	25	45	<1
SPML011 03+00E	8.8	1250	<1	48	<1	252	9	31	48	1
SPML011 03+25E	0.9	1290	<1	18	<1	190	2	16	21	<1
SPML011 03+50E	0.9	260	<1	14	<1	259	2	8	16	<1
SPML011 03+75E	16.5	1070	<1	67	<1	233	4	79	80	<1
SPML011 04+00E	7.2	1170	<1	29	<1	144	2	38	34	<1
SPML011 04+25E	9.7	520	<1	167	<1	280	8	40	131	2
SPML011 04+50E	7.3	970	<1	77	<1	260	8	40	76	2
SPML011 05+25E	7.8	350	<1	63	<1	354	5	26	50	2
SPML011 05+50E	2.7	340	<1	78	<1	272	3	35	69	2
BWSPD004	2.2	1110	<1	72	<1	174	6	54	92	<1
BWSPD005	0.9	1180	<1	44	<1	233	4	40	61	<1
AHSPD005	3.2	1990	<1	31	<1	204	7	38	32	<1
AHSPD006	2.6	1600	<1	96	<1	252	20	77	96	5
AHSPD007	0.4	290	<1	8	<1	206	2	<5	12	<1
AHSPD008	2.1	1690	<1	178	<1	183	37	63	147	1
AHSPD009	1.4	1360	<1	258	<1	189	33	110	232	<1
AHSPD015	4.7	1650	<1	9	<1	255	5	14	8	1
AHSPD016	7.7	4290	<1	31	<1	317	25	37	35	7
AHSPD017	1.8	2450	<1	47	<1	168	44	13	52	3

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Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
AHSPD018	0.7	2130	<1	26	<1	108	16	7	36	1
*Rep SPML007 00+00W	1.4	180	<1	8	<1	50	2	6	14	<1
*Rep SPML008 00+50E	1.7	540	<1	21	<1	93	<1	35	27	<1
*Rep SPML008 03+25E	3.0	1620	<1	47	<1	222	2	37	51	<1
*Rep SPML010 02+75W	13.3	2220	<1	12	<1	147	<1	27	21	<1
*Rep SPML010 03+25W	2.5	2350	<1	20	<1	255	4	23	20	<1
*Rep BWSPD004	2.1	1050	<1	75	<1	173	5	54	95	<1
*Rep AHSPD007	0.4	210	<1	8	<1	196	2	<5	12	<1
*Std MMISRM16	0.3	90	27	3	<1	340	<1	<5	5	<1
*Std AMIS0169	3.1	130	<1	119	<1	250	<1	55	68	<1
*Std MMISRM18	0.7	290	11	4	6	161	<1	<5	6	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1

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Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
SPML007 00+00W	1880	<1	3	<10	58.4	21	<0.5	64	<1	89
SPML007 00+25W	1890	<1	3	<10	76.8	18	<0.5	142	<1	110
SPML007 00+50W	2210	<1	4	<10	91.4	12	<0.5	396	<1	88
SPML007 00+75W	2220	<1	3	<10	47.3	12	<0.5	277	<1	57
SPML007 01+00W	430	<1	24	<10	251	146	<0.5	333	<1	534
SPML007 01+25W	1410	<1	3	<10	47.8	13	<0.5	71	<1	59
SPML007 01+50W	1100	<1	2	<10	25.7	18	<0.5	20	<1	45
SPML007 01+75W	900	<1	5	<10	69.8	28	<0.5	54	<1	109
SPML007 02+00W	900	<1	5	<10	94.4	48	<0.5	68	<1	108
SPML007 02+25W	790	<1	6	<10	120	42	<0.5	51	<1	106
SPML007 02+50W	810	<1	8	<10	128	38	<0.5	37	<1	163
SPML007 02+75W	220	<1	6	<10	230	187	<0.5	26	<1	88
SPML007 03+00W	370	<1	8	<10	181	181	<0.5	40	<1	132
SPML007 03+25W	720	<1	2	<10	66.8	45	<0.5	30	<1	53
SPML007 03+50W	700	<1	8	<10	183	64	<0.5	36	<1	164
SPML008 00+00E	540	<1	22	<10	206	85	<0.5	94	<1	452
SPML008 00+25E	1570	<1	4	<10	52.1	24	<0.5	54	<1	102
SPML008 00+50E	570	<1	8	<10	57.5	94	<0.5	50	<1	247
SPML008 00+75E	420	<1	8	<10	126	109	<0.5	44	<1	177
SPML008 01+00E	450	<1	17	<10	187	103	<0.5	93	<1	477
SPML008 01+25E	1230	<1	6	<10	76.1	51	<0.5	45	<1	158
SPML008 01+50E	1220	<1	8	<10	86.4	47	<0.5	54	<1	324
SPML008 01+75E	1520	<1	6	<10	63.0	23	<0.5	41	<1	155
SPML008 02+00E	1390	<1	5	<10	34.4	19	<0.5	28	<1	148
SPML008 02+25E	1630	<1	8	<10	79.6	23	<0.5	38	<1	223
SPML008 02+50E	500	<1	14	<10	186	139	<0.5	67	<1	430
SPML008 02+75E	600	<1	5	<10	56.3	105	<0.5	39	<1	146
SPML008 03+00E	650	<1	7	<10	85.7	79	<0.5	57	<1	208
SPML008 03+25E	400	<1	12	<10	116	98	<0.5	56	<1	300
SPML008 03+50E	1050	<1	13	<10	191	55	<0.5	167	<1	346
SPML009 00+00E	2420	<1	4	<10	86.6	7	<0.5	381	<1	130
SPML009 00+25E	710	<1	3	<10	31.7	178	<0.5	43	<1	91
SPML009 00+75E	930	<1	9	<10	66.4	72	<0.5	191	<1	269
SPML009 01+00E	1570	<1	17	<10	578	36	<0.5	352	<1	445
SPML009 01+25E	1540	<1	11	<10	171	26	<0.5	314	<1	337
SPML009 01+50E	2000	<1	2	<10	51.1	12	<0.5	146	<1	64
SPML009 01+75E	1320	<1	3	<10	96.6	34	<0.5	149	<1	102
SPML009 02+00E	2040	<1	2	<10	29.9	16	<0.5	63	<1	55
SPML009 02+25E	2220	<1	3	<10	60.1	14	<0.5	132	<1	82
SPML009 02+50E	1690	<1	4	<10	136	9	<0.5	179	<1	128
SPML010 00+00W	990	<1	5	<10	24.2	34	<0.5	53	<1	138
SPML010 00+25W	1000	<1	6	<10	56.0	30	<0.5	48	<1	175
SPML010 00+50W	780	<1	4	<10	85.8	56	<0.5	26	<1	99

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Element	Sr	Ta	Tb	Te	Th	Ti	Ti	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
SPML010 01+00W	730	<1	2	<10	29.9	175	<0.5	14	<1	59
SPML010 01+25W	580	<1	4	<10	25.8	137	<0.5	47	<1	119
SPML010 01+50W	340	<1	4	<10	107	349	<0.5	25	<1	100
SPML010 01+75W	480	<1	6	<10	70.9	89	<0.5	46	<1	147
SPML010 02+00W	130	<1	6	<10	86.2	240	<0.5	36	1	165
SPML010 02+25W	70	<1	5	<10	180	785	<0.5	35	<1	85
SPML010 02+50W	120	<1	22	<10	165	125	<0.5	40	<1	399
SPML010 02+75W	230	<1	8	<10	107	200	<0.5	19	<1	204
SPML010 03+00W	1920	<1	<1	<10	6.2	7	<0.5	136	<1	19
SPML010 03+25W	500	<1	6	<10	84.8	186	<0.5	92	<1	149
SPML010 03+75W	1380	<1	6	<10	188	24	<0.5	205	<1	176
SPML010 04+00W	1360	<1	2	<10	54.4	26	<0.5	105	<1	59
SPML011 00+00E	580	<1	7	<10	84.0	104	<0.5	51	<1	175
SPML011 00+25E	1340	<1	2	<10	33.9	47	<0.5	59	<1	61
SPML011 00+50E	1400	<1	2	<10	21.7	19	<0.5	198	<1	41
SPML011 00+75E	1290	<1	1	<10	8.4	19	<0.5	316	<1	31
SPML011 01+00E	430	<1	10	<10	65.1	271	<0.5	53	<1	268
SPML011 01+25E	810	<1	2	<10	15.5	26	<0.5	50	<1	39
SPML011 01+50E	50	<1	6	<10	90.4	276	<0.5	23	<1	123
SPML011 01+75E	220	<1	15	<10	76.8	142	<0.5	185	<1	396
SPML011 02+00E	980	<1	1	<10	17.7	36	<0.5	74	<1	30
SPML011 02+25E	610	<1	2	<10	15.5	17	<0.5	52	<1	44
SPML011 02+50E	110	<1	6	<10	74.5	238	<0.5	26	<1	118
SPML011 02+75E	240	<1	10	<10	85.7	262	<0.5	47	1	243
SPML011 03+00E	230	<1	10	<10	123	314	<0.5	59	3	204
SPML011 03+25E	670	<1	6	<10	39.8	89	<0.5	55	<1	156
SPML011 03+50E	620	<1	4	<10	30.0	154	<0.5	49	<1	99
SPML011 03+75E	120	<1	19	<10	192	341	<0.5	34	<1	412
SPML011 04+00E	60	<1	9	<10	117	324	<0.5	27	<1	174
SPML011 04+25E	330	<1	23	<10	166	197	<0.5	88	2	465
SPML011 04+50E	120	<1	15	<10	154	314	<0.5	72	2	319
SPML011 05+25E	340	<1	9	<10	114	199	<0.5	58	1	201
SPML011 05+50E	350	<1	12	<10	120	161	<0.5	92	<1	266
BWSPD004	280	<1	19	<10	140	118	<0.5	112	<1	346
BWSPD005	580	<1	14	<10	95.9	174	<0.5	234	<1	336
AHSPD005	40	<1	7	<10	187	329	<0.5	25	<1	116
AHSPD006	90	<1	19	<10	208	264	<0.5	37	1	363
AHSPD007	2490	<1	2	<10	18.4	4	<0.5	16	<1	84
AHSPD008	60	<1	25	<10	209	338	<0.5	35	1	317
AHSPD009	280	<1	42	<10	182	196	<0.5	36	1	806
AHSPD015	50	<1	2	<10	97.4	574	<0.5	15	<1	31
AHSPD016	60	<1	8	<10	320	1390	<0.5	42	1	98
AHSPD017	920	<1	10	<10	102	103	<0.5	158	<1	193

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Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
AHSPD018	980	<1	7	<10	63.6	27	<0.5	181	<1	138
*Rep SPML007 00+00W	1780	<1	3	<10	53.0	16	<0.5	80	<1	85
*Rep SPML008 00+50E	500	<1	8	<10	62.7	101	<0.5	50	<1	215
*Rep SPML008 03+25E	430	<1	12	<10	115	93	<0.5	58	<1	301
*Rep SPML010 02+75W	230	<1	8	<10	112	206	<0.5	20	<1	203
*Rep SPML010 03+25W	490	<1	5	<10	80.2	189	<0.5	104	<1	110
*Rep BWSPD004	290	<1	20	<10	135	95	<0.5	117	<1	362
*Rep AHSPD007	2370	<1	2	<10	18.1	3	<0.5	15	<1	61
*Std MMISRM16	470	<1	<1	<10	26.1	<3	<0.5	58	<1	12
*Std AMIS0169	80	<1	8	<10	93.1	522	<0.5	33	2	128
*Std MMISRM18	1060	<1	<1	<10	21.5	7	<0.5	31	<1	20
*Blk BLANK	10	<1	<1	<10	0.8	<3	<0.5	<1	<1	<5
*Blk BLANK	<10	<1	<1	<10	<0.5	<3	<0.5	<1	<1	<5
*Blk BLANK	10	<1	<1	<10	<0.5	<3	<0.5	<1	<1	<5

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Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
SPML007 00+00W	7	140	39
SPML007 00+25W	10	220	44
SPML007 00+50W	8	150	54
SPML007 00+75W	4	60	35
SPML007 01+00W	51	500	334
SPML007 01+25W	5	80	25
SPML007 01+50W	4	650	16
SPML007 01+75W	10	260	47
SPML007 02+00W	10	180	66
SPML007 02+25W	9	160	71
SPML007 02+50W	15	1150	81
SPML007 02+75W	9	1890	184
SPML007 03+00W	13	380	187
SPML007 03+25W	4	40	84
SPML007 03+50W	17	280	127
SPML008 00+00E	40	630	185
SPML008 00+25E	9	140	22
SPML008 00+50E	21	290	105
SPML008 00+75E	20	120	141
SPML008 01+00E	50	160	134
SPML008 01+25E	16	170	45
SPML008 01+50E	34	380	48
SPML008 01+75E	15	130	33
SPML008 02+00E	12	60	21
SPML008 02+25E	17	100	29
SPML008 02+50E	46	510	151
SPML008 02+75E	14	70	108
SPML008 03+00E	20	150	88
SPML008 03+25E	28	510	120
SPML008 03+50E	33	500	157
SPML009 00+00E	12	350	38
SPML009 00+25E	9	90	151
SPML009 00+75E	23	450	161
SPML009 01+00E	45	1000	511
SPML009 01+25E	34	960	214
SPML009 01+50E	6	190	37
SPML009 01+75E	10	260	61
SPML009 02+00E	4	120	23
SPML009 02+25E	8	290	39
SPML009 02+50E	12	380	89
SPML010 00+00W	10	60	17
SPML010 00+25W	14	220	28
SPML010 00+50W	10	510	61

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Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
SPML010 01+00W	5	60	25
SPML010 01+25W	10	180	24
SPML010 01+50W	9	250	53
SPML010 01+75W	12	350	57
SPML010 02+00W	18	890	179
SPML010 02+25W	13	1050	251
SPML010 02+50W	37	490	129
SPML010 02+75W	26	1240	36
SPML010 03+00W	1	460	<5
SPML010 03+25W	13	710	66
SPML010 03+75W	16	420	148
SPML010 04+00W	5	210	56
SPML011 00+00E	14	250	84
SPML011 00+25E	5	190	26
SPML011 00+50E	3	240	13
SPML011 00+75E	2	410	15
SPML011 01+00E	17	170	70
SPML011 01+25E	3	60	14
SPML011 01+50E	10	170	85
SPML011 01+75E	28	120	65
SPML011 02+00E	2	110	16
SPML011 02+25E	3	170	8
SPML011 02+50E	10	420	45
SPML011 02+75E	16	240	88
SPML011 03+00E	16	280	89
SPML011 03+25E	10	50	48
SPML011 03+50E	6	80	51
SPML011 03+75E	37	300	127
SPML011 04+00E	16	260	90
SPML011 04+25E	31	580	92
SPML011 04+50E	23	240	97
SPML011 05+25E	15	200	82
SPML011 05+50E	21	460	76
BWSPD004	31	670	90
BWSPD005	27	470	70
AHSPD005	13	220	173
AHSPD006	34	880	153
AHSPD007	3	150	<5
AHSPD008	26	600	114
AHSPD009	69	1080	135
AHSPD015	4	250	78
AHSPD016	10	530	169
AHSPD017	15	4790	71

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Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
AHSPD018	9	5100	26
*Rep SPML007 00+00W	7	110	36
*Rep SPML008 00+50E	18	260	121
*Rep SPML008 03+25E	28	610	111
*Rep SPML010 02+75W	25	1370	38
*Rep SPML010 03+25W	10	710	64
*Rep BWSPD004	31	630	85
*Rep AHSPD007	3	160	<5
*Std MMISRM16	<1	230	20
*Std AMIS0169	11	220	58
*Std MMISRM18	<1	600	26
*Blk BLANK	<1	<20	<5
*Blk BLANK	<1	<20	<5
*Blk BLANK	<1	<20	<5

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Certificate of Analysis

Work Order: TO111857

To: **COD SGS Minerals**
C/O #50-655 West Kent Avenue N.
VANCOUVER
BC V6P 6T7

Date: Sep 23, 2010

P.O. No.	:	Terralogic Exploration
Project No.	:	-
No. Of Samples	:	105
Date Submitted	:	Sep 10, 2010
Report Comprises	:	Pages 1 to 19 (Inclusive of Cover Sheet)

Distribution of unused material:
Return to client:

Certified By :

Gavin McGill
Operations Manager

SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
– = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
SPML002 00+00W	18	25	50	0.2	180	<1	340	10	<5	98
SPML002 00+25W	22	12	50	0.5	190	<1	260	8	<5	144
SPML002 00+50W	38	9	90	3.0	160	<1	250	15	16	241
SPML002 00+75W	10	169	40	0.1	260	2	190	16	83	99
SPML002 01+00W	22	209	110	<0.1	230	6	<10	3	26	38
SPML002 01+25W	11	215	450	2.1	880	19	10	4	61	21
SPML002 01+50W	81	189	510	19.9	240	24	80	12	537	83
SPML002 01+75W	83	94	110	6.1	180	2	260	29	240	87
SPML002 02+00W	61	>300	320	3.2	780	49	<10	5	222	282
SPML002 02+25W	22	280	80	0.5	650	4	<10	4	114	156
SPML002 02+50W	15	245	30	0.1	330	3	<10	2	44	45
SPML002 02+75W	9	213	40	0.1	330	3	<10	3	30	29
SPML002 03+00W	30	282	50	0.5	330	4	<10	9	84	65
SPML002 03+25W	22	252	50	0.2	520	3	<10	6	50	134
SPML002 03+50W	9	231	170	0.3	340	17	<10	5	121	183
SPML002 03+75W	10	233	150	0.6	380	6	20	16	283	256
SPML002 04+00W	11	258	30	0.3	220	2	<10	3	101	54
SPML002 04+25W	6	207	110	0.1	310	4	<10	2	71	58
SPML002 04+50W	16	154	70	<0.1	100	3	<10	<1	17	17
SPML002 04+75W	23	274	80	2.3	360	5	<10	5	138	94
SPML002 05+00W	18	238	80	0.2	260	7	<10	2	69	40
SPML003 00+00E	10	232	20	0.2	200	3	<10	4	51	25
SPML003 00+25E	43	234	30	0.3	330	2	<10	4	68	26
SPML003 00+50E	23	206	20	<0.1	190	1	<10	4	38	60
SPML003 00+75E	3	182	50	<0.1	230	6	<10	2	40	42
SPML003 01+00E	19	217	20	0.6	190	1	<10	3	44	38
SPML003 01+25E	13	230	90	0.1	270	4	<10	3	57	74
SPML003 01+50E	7	195	<10	<0.1	210	<1	<10	<1	13	20
SPML003 01+75E	16	209	50	<0.1	330	3	<10	3	77	339
SPML003 02+00E	29	240	170	0.7	500	9	<10	5	240	192
SPML003 02+25E	42	285	120	3.6	840	4	<10	11	265	245
SPML003 02+50E	37	233	170	3.3	510	7	10	57	1360	806
SPML003 02+75E	38	216	460	3.6	840	7	20	224	381	389
SPML003 03+00E	30	148	<10	1.0	110	<1	130	38	50	22
SPML003 03+25E	26	207	170	2.0	2020	6	<10	12	884	184
SPML003 03+50E	27	271	50	0.5	390	3	<10	6	96	145
SPML003 03+75E	26	280	60	0.6	600	4	<10	22	213	265
SPML003 04+00E	12	266	60	0.6	1140	4	<10	3	145	42
SPML003 04+25E	16	113	110	0.7	400	3	200	22	129	114
SPML003 04+50E	21	283	290	2.0	1030	8	<10	39	402	419
SPML003 04+75E	47	>300	180	3.8	860	3	<10	44	371	192
SPML003 05+00E	22	239	230	1.4	710	9	<10	10	176	154
SPML004 00+00W	54	>300	180	4.1	900	3	<10	47	410	183

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
SPML004 00+25W	52	131	480	3.2	890	6	60	13	678	254
SPML004 00+50W	13	228	140	0.4	440	4	<10	4	68	67
SPML004 00+75W	19	273	180	1.1	560	3	<10	26	268	268
SPML004 01+00W	6	98	<10	0.8	450	<1	190	18	34	20
SPML004 01+25W	49	119	190	2.4	290	2	190	6	140	77
SPML004 01+50W	43	250	20	0.1	190	<1	<10	8	52	58
SPML004 01+75W	10	231	390	2.7	850	11	<10	12	155	141
SPML004 02+00W	17	257	140	1.4	780	4	<10	9	144	84
SPML004 02+25W	20	156	70	0.2	250	3	<10	1	41	38
SPML004 02+50W	8	269	100	1.0	500	3	<10	17	113	126
SPML004 02+75W	33	275	70	2.4	240	3	<10	5	137	55
SPML004 03+00W	30	225	90	3.1	210	3	10	23	598	174
SPML004 03+25W	19	270	230	0.8	510	10	<10	12	257	160
SPML004 03+50W	27	285	70	0.4	230	2	<10	2	84	32
SPML004 03+75W	27	237	90	0.8	170	4	<10	5	117	58
SPML004 04+00W	11	183	90	0.5	230	5	<10	1	54	97
SPML004 04+25W	3	191	40	<0.1	320	4	<10	<1	36	22
SPML004 04+50W	13	195	40	0.2	220	4	<10	6	27	62
SPML004 04+75W	37	208	50	0.5	350	4	<10	3	50	111
SPML004 05+00W	21	195	80	0.8	180	1	<10	8	49	34
SPML005 00+00E	27	284	60	2.1	600	3	<10	9	295	344
SPML005 00+25E	12	283	60	1.0	280	2	<10	9	79	52
SPML005 00+50E	27	207	130	0.7	210	5	<10	3	129	212
SPML005 00+75E	21	>300	100	2.8	630	3	<10	31	455	823
SPML005 01+00E	42	37	70	4.8	80	1	150	18	172	127
SPML005 01+25E	41	62	140	4.9	280	3	220	32	468	591
SPML005 01+50E	62	135	270	2.1	410	5	160	157	1370	438
SPML005 01+75E	32	>300	70	4.4	720	3	<10	20	496	352
SPML005 02+00E	35	283	90	5.1	880	2	<10	19	455	626
SPML005 02+25E	15	260	40	0.2	190	2	<10	6	63	50
SPML005 02+50E	8	233	50	<0.1	270	2	<10	2	98	80
SPML005 02+75E	35	205	<10	0.1	180	<1	<10	4	25	29
SPML005 03+00E	5	198	40	0.1	180	3	<10	1	22	41
SPML005 03+25E	28	251	100	0.8	630	4	<10	8	122	74
SPML005 03+50E	20	243	80	0.9	490	3	<10	7	177	241
SPML005 03+75E	9	250	80	0.2	620	4	<10	69	258	263
SPML005 04+00E	42	242	30	0.9	400	1	<10	10	88	158
SPML005 04+25E	7	149	30	0.2	240	3	<10	1	16	39
SPML005 04+50E	39	95	<10	0.9	280	<1	250	102	59	10
SPML005 04+75E	51	95	<10	1.6	250	<1	180	101	270	10
SPML005 05+00E	19	182	240	1.0	820	9	110	113	370	404
SPML006 00+00W	49	101	10	0.7	160	<1	230	76	130	21
SPML008 00+25W	7	198	40	0.2	250	2	<10	2	35	41

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
SPML006 00+50W	17	111	10	0.5	100	<1	240	44	56	85
SPML006 00+75W	14	249	90	<0.1	390	9	<10	24	88	104
SPML006 01+00W	12	226	20	0.4	210	2	<10	8	46	148
SPML006 01+25W	33	283	30	0.2	280	2	<10	14	70	29
SPML006 01+50W	18	>300	30	0.2	290	1	<10	13	110	77
SPML006 01+75W	39	272	40	0.1	170	1	<10	3	90	34
SPML006 02+00W	17	251	20	0.8	150	2	<10	5	107	19
SPML006 02+25W	56	42	30	7.5	90	1	190	11	99	80
SPML006 02+50W	24	154	90	1.6	310	4	170	9	160	250
SPML006 02+75W	36	197	100	2.7	590	3	10	250	3920	237
SPML006 03+00W	17	154	150	0.4	620	5	80	17	827	295
SPML006 03+25W	40	13	30	3.4	100	<1	200	16	7	125
SPML006 03+50W	37	9	60	8.9	50	<1	240	18	7	408
SPML006 03+75W	28	152	80	4.6	220	2	30	22	831	82
SPML006 04+00W	25	288	30	0.3	160	<1	<10	7	79	27
SPML006 04+25W	23	218	60	0.2	230	2	<10	5	41	42
SPML006 04+50W	13	283	60	0.1	370	2	<10	2	71	31
SPML006 04+75W	40	251	50	0.3	250	4	<10	2	71	96
SPML006 05+00W	19	207	20	<0.1	280	2	<10	2	46	18
*Rep SPML002 01+25W	11	218	390	2.2	690	16	10	4	42	22
*Rep SPML003 01+00E	20	234	30	0.6	220	2	<10	3	57	38
*Rep SPML003 04+25E	16	115	160	0.8	440	3	200	18	160	109
*Rep SPML004 00+25W	50	140	500	3.1	940	7	60	14	727	309
*Rep SPML005 00+00E	27	287	60	2.1	590	3	<10	8	289	347
*Rep SPML005 02+75E	37	212	10	0.1	210	<1	<10	4	31	29
*Rep SPML005 03+75E	8	250	80	0.2	750	4	<10	78	286	287
*Rep SPML006 03+75W	27	119	160	4.7	230	3	60	28	665	98
*Rep SPML006 05+00W	20	200	20	0.1	270	2	<10	2	47	20
*Std MMISRM18	16	41	20	28.0	80	<1	170	4	16	63
*Std AMIS0169	7	80	20	0.4	630	<1	30	2	798	133
*Std MMISRM18	16	23	10	7.6	160	<1	140	71	22	70
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

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Element	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
SPML002 00+00W	<100	23.2	1910	3	1.5	0.6	5	2	3	<1
SPML002 00+25W	<100	4.8	1510	5	3.0	1.0	8	2	5	<1
SPML002 00+50W	<100	6.7	3120	5	2.9	1.4	16	2	6	<1
SPML002 00+75W	<100	7.1	130	12	4.8	3.1	74	11	14	<1
SPML002 01+00W	<100	3.8	120	3	2.4	<0.5	274	14	2	<1
SPML002 01+25W	<100	9.8	350	6	3.3	1.4	352	17	6	<1
SPML002 01+50W	<100	53.1	2380	70	26.0	24.4	79	8	105	<1
SPML002 01+75W	<100	6.0	2020	51	24.4	17.0	28	3	75	<1
SPML002 02+00W	100	35.2	1080	18	8.9	4.6	238	16	20	<1
SPML002 02+25W	<100	6.8	320	13	6.6	2.5	254	15	12	<1
SPML002 02+50W	<100	2.5	210	6	3.6	1.0	228	13	5	<1
SPML002 02+75W	<100	3.3	220	5	3.0	0.8	279	11	4	<1
SPML002 03+00W	<100	17.1	450	14	6.6	2.8	176	11	12	<1
SPML002 03+25W	<100	12.5	210	6	3.1	1.0	242	12	5	<1
SPML002 03+50W	200	12.1	250	14	6.2	3.4	254	23	14	<1
SPML002 03+75W	<100	10.3	490	28	14.2	7.6	181	22	33	<1
SPML002 04+00W	<100	18.8	260	11	4.8	2.7	275	7	12	<1
SPML002 04+25W	100	12.7	190	7	3.7	1.5	335	14	7	<1
SPML002 04+50W	<100	3.5	60	1	1.0	<0.5	293	12	1	<1
SPML002 04+75W	<100	52.0	540	12	6.4	3.0	170	16	13	<1
SPML002 05+00W	100	32.2	260	7	3.5	1.5	338	16	7	<1
SPML003 00+00E	<100	16.3	260	5	2.6	1.0	169	10	5	<1
SPML003 00+25E	<100	15.0	240	4	1.9	0.9	197	8	4	<1
SPML003 00+50E	<100	4.3	250	3	2.2	0.6	188	8	3	<1
SPML003 00+75E	100	8.4	110	7	4.0	1.1	272	17	5	<1
SPML003 01+00E	<100	12.4	320	5	3.1	1.0	133	6	4	<1
SPML003 01+25E	<100	6.8	160	6	3.9	1.0	206	25	5	<1
SPML003 01+50E	<100	1.0	80	1	1.2	<0.5	169	13	1	<1
SPML003 01+75E	<100	7.4	190	6	3.0	1.2	303	12	6	<1
SPML003 02+00E	<100	14.5	450	28	13.5	7.8	294	25	35	<1
SPML003 02+25E	<100	40.0	640	31	13.2	8.4	211	17	35	<1
SPML003 02+50E	<100	18.3	1570	266	114	85.1	125	11	362	<1
SPML003 02+75E	<100	50.8	920	85	42.4	24.3	229	15	105	<1
SPML003 03+00E	<100	18.6	520	23	12.2	3.9	64	2	19	<1
SPML003 03+25E	<100	34.5	1430	85	34.3	27.9	116	38	116	<1
SPML003 03+50E	<100	17.0	530	12	5.9	2.7	144	10	11	<1
SPML003 03+75E	<100	12.2	630	49	24.7	10.7	144	17	48	<1
SPML003 04+00E	<100	16.8	440	25	9.1	5.5	68	17	25	<1
SPML003 04+25E	<100	9.3	320	22	10.7	6.3	77	8	28	<1
SPML003 04+50E	<100	24.8	810	68	34.1	17.5	171	23	75	<1
SPML003 04+75E	<100	57.5	870	51	19.1	15.4	149	18	65	<1
SPML003 05+00E	<100	24.1	630	23	11.2	5.4	255	19	23	<1
SPML004 00+00W	<100	62.8	990	56	20.8	17.6	129	18	76	<1

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Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
SPML004 00+25W	<100	15.1	1250	100	46.3	32.4	103	19	140	<1
SPML004 00+50W	<100	11.9	440	9	5.5	1.6	207	15	7	<1
SPML004 00+75W	<100	22.5	700	45	22.7	11.1	182	17	48	<1
SPML004 01+00W	<100	4.4	400	34	21.8	4.4	50	7	23	<1
SPML004 01+25W	<100	21.1	990	16	7.7	4.8	49	7	20	<1
SPML004 01+50W	<100	15.0	410	6	2.8	1.4	145	7	6	<1
SPML004 01+75W	100	6.1	500	13	6.8	3.0	311	26	13	<1
SPML004 02+00W	<100	13.2	880	20	10.5	4.2	141	16	19	<1
SPML004 02+25W	<100	1.7	380	2	1.3	0.5	272	11	2	<1
SPML004 02+50W	<100	37.6	450	13	5.4	3.1	126	13	13	<1
SPML004 02+75W	<100	47.7	670	15	7.4	3.9	103	9	16	<1
SPML004 03+00W	<100	44.9	610	66	26.9	20.1	48	7	88	<1
SPML004 03+25W	<100	33.1	570	25	10.9	7.1	209	31	29	<1
SPML004 03+50W	<100	34.1	300	7	3.0	1.8	221	12	8	<1
SPML004 03+75W	<100	36.8	240	14	7.0	2.9	184	12	13	<1
SPML004 04+00W	<100	22.8	200	4	2.4	1.0	255	13	5	<1
SPML004 04+25W	<100	3.9	90	3	1.8	0.7	236	18	3	<1
SPML004 04+50W	<100	3.6	320	4	3.2	0.7	196	12	3	<1
SPML004 04+75W	<100	32.4	350	8	5.4	1.3	133	14	6	<1
SPML004 05+00W	<100	23.5	320	5	2.7	1.2	179	6	5	<1
SPML005 00+00E	<100	42.4	1290	36	15.2	11.1	85	13	47	<1
SPML005 00+25E	<100	23.6	350	9	4.5	2.0	134	10	8	<1
SPML005 00+50E	<100	24.6	500	12	7.8	2.4	195	13	11	<1
SPML005 00+75E	<100	46.7	1290	49	21.0	14.7	97	17	61	<1
SPML005 01+00E	<100	11.0	1110	39	19.6	14.8	20	2	63	<1
SPML005 01+25E	<100	13.6	3320	51	25.9	18.2	53	5	79	<1
SPML005 01+50E	<100	41.3	1240	130	53.1	42.0	74	10	196	<1
SPML005 01+75E	<100	61.0	1210	50	20.6	15.7	77	17	65	<1
SPML005 02+00E	<100	62.9	1470	28	9.4	9.8	87	18	39	<1
SPML005 02+25E	<100	38.5	390	8	4.0	1.5	126	13	7	<1
SPML005 02+50E	200	21.7	160	8	3.2	1.9	417	10	8	<1
SPML005 02+75E	<100	8.5	210	4	2.0	0.6	123	5	3	<1
SPML005 03+00E	<100	2.2	110	3	2.9	<0.5	160	11	2	<1
SPML005 03+25E	<100	16.9	840	13	5.2	3.2	175	13	13	<1
SPML005 03+50E	<100	21.0	910	19	7.5	5.4	160	11	22	<1
SPML005 03+75E	<100	14.1	310	29	12.1	6.6	163	23	30	<1
SPML005 04+00E	<100	16.5	520	8	3.4	1.9	152	9	9	<1
SPML005 04+25E	<100	2.3	130	2	1.7	<0.5	242	10	1	<1
SPML005 04+50E	<100	10.3	400	64	26.5	16.8	9	4	84	<1
SPML005 04+75E	<100	16.4	550	133	51.4	40.0	8	3	201	<1
SPML005 05+00E	<100	9.8	540	60	26.4	18.0	179	19	82	<1
SPML006 00+00W	<100	9.7	510	65	24.0	23.7	13	4	115	<1
SPML006 00+25W	<100	10.3	180	3	1.7	0.7	207	9	3	<1

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Element	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
SPML006 00+50W	<100	11.2	1000	14	6.6	4.0	11	2	20	<1
SPML006 00+75W	100	7.2	380	7	4.5	1.4	413	36	8	<1
SPML006 01+00W	<100	28.7	430	6	3.4	1.1	154	10	5	<1
SPML006 01+25W	<100	15.7	340	10	4.5	2.2	99	14	9	<1
SPML006 01+50W	<100	16.5	410	14	5.8	3.6	121	10	15	<1
SPML006 01+75W	<100	23.1	200	9	4.3	1.9	198	6	9	<1
SPML006 02+00W	<100	26.3	260	17	7.5	3.7	59	7	16	<1
SPML006 02+25W	<100	23.6	2510	31	14.0	11.4	16	2	50	<1
SPML006 02+50W	<100	21.6	530	22	10.1	6.0	91	9	25	<1
SPML006 02+75W	<100	11.5	1430	932	433	201	97	10	931	<1
SPML006 03+00W	<100	10.5	740	176	77.1	55.1	124	13	234	<1
SPML006 03+25W	<100	4.1	860	2	1.2	0.7	4	1	3	<1
SPML006 03+50W	<100	4.5	1780	5	3.0	1.3	8	<1	7	<1
SPML006 03+75W	<100	56.5	1710	116	52.4	39.6	33	8	158	<1
SPML006 04+00W	<100	33.9	200	8	3.6	1.9	130	7	9	<1
SPML006 04+25W	<100	11.0	240	4	2.3	0.8	221	15	4	<1
SPML006 04+50W	100	14.2	110	6	2.7	1.6	262	13	7	<1
SPML006 04+75W	<100	3.9	350	7	3.7	1.8	165	12	7	<1
SPML006 05+00W	<100	11.6	210	3	2.3	0.8	169	13	3	<1
*Rep SPML002 01+25W	<100	8.0	340	5	3.1	1.1	310	14	5	<1
*Rep SPML003 01+00E	<100	14.6	350	6	3.4	1.2	154	7	5	<1
*Rep SPML003 04+25E	<100	10.7	420	23	10.5	6.9	64	9	30	<1
*Rep SPML004 00+25W	<100	17.0	1310	106	49.0	34.2	109	21	145	<1
*Rep SPML005 00+00E	<100	43.0	1320	36	14.7	10.8	82	14	45	<1
*Rep SPML005 02+75E	<100	9.4	220	4	2.1	0.8	143	6	3	<1
*Rep SPML005 03+75E	<100	14.8	320	32	13.8	6.9	159	21	33	<1
*Rep SPML006 03+75W	<100	83.0	2650	127	59.4	43.5	40	7	175	<1
*Rep SPML006 05+00W	<100	12.9	220	4	2.4	0.9	193	13	4	<1
*Std MMISRM16	<100	12.6	650	2	0.9	0.9	2	<1	4	15
*Std AMIS0169	100	6.3	4290	33	14.2	13.0	44	17	58	1
*Std MMISRM18	<100	6.4	750	4	1.5	1.2	3	2	6	4
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1

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Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
SPML002 00+00W	<0.5	12.2	2	18	12	2700	<5	<0.5	4	140
SPML002 00+25W	<0.5	13.5	<1	<5	11	4450	<5	<0.5	4	143
SPML002 00+50W	<0.5	10.4	4	10	11	10700	<5	<0.5	13	343
SPML002 00+75W	<0.5	14.4	31	<5	4	5130	<5	3.2	37	83
SPML002 01+00W	<0.5	9.5	11	5	2	620	<5	6.3	8	95
SPML002 01+25W	1.1	11.9	32	8	2	710	<5	7.4	24	59
SPML002 01+50W	0.8	17.8	241	<5	<1	3520	<5	2.0	317	84
SPML002 01+75W	<0.5	28.2	153	<5	2	4440	<5	<0.5	212	524
SPML002 02+00W	1.2	9.8	91	<5	<1	1350	<5	7.0	72	136
SPML002 02+25W	0.6	7.4	45	<5	1	1240	<5	6.7	36	121
SPML002 02+50W	<0.5	5.3	21	<5	<1	540	<5	5.4	16	105
SPML002 02+75W	<0.5	6.3	15	<5	<1	360	<5	5.6	11	89
SPML002 03+00W	0.7	8.3	42	<5	<1	420	<5	5.1	35	90
SPML002 03+25W	0.5	10.6	21	5	1	980	<5	4.5	16	116
SPML002 03+50W	0.6	13.8	37	<5	2	2610	<5	18.1	39	138
SPML002 03+75W	0.5	15.1	74	6	2	27700	<5	4.8	98	202
SPML002 04+00W	<0.5	2.9	46	<5	<1	980	<5	4.0	38	106
SPML002 04+25W	<0.5	5.4	28	<5	<1	1710	<5	10.9	22	133
SPML002 04+50W	<0.5	6.5	6	<5	<1	520	<5	7.1	5	29
SPML002 04+75W	0.6	5.7	57	<5	<1	1100	<5	8.6	49	158
SPML002 05+00W	0.8	6.3	30	<5	<1	2600	<5	9.7	22	59
SPML003 00+00E	<0.5	4.4	24	<5	<1	240	<5	4.3	18	48
SPML003 00+25E	<0.5	4.4	24	<5	<1	490	<5	4.8	17	83
SPML003 00+50E	<0.5	4.4	16	<5	<1	460	<5	3.7	12	56
SPML003 00+75E	<0.5	13.2	15	<5	1	1140	<5	13.1	13	66
SPML003 01+00E	<0.5	3.5	20	<5	<1	180	<5	1.9	16	68
SPML003 01+25E	<0.5	5.8	26	<5	<1	2290	<5	7.5	20	52
SPML003 01+50E	<0.5	4.4	7	<5	1	150	<5	3.4	5	27
SPML003 01+75E	<0.5	10.3	24	<5	1	1190	<5	8.0	19	103
SPML003 02+00E	0.6	8.8	81	<5	<1	6590	<5	7.2	93	111
SPML003 02+25E	0.6	6.0	107	6	1	5090	<5	3.9	98	238
SPML003 02+50E	0.8	10.2	717	<5	2	10800	<5	1.1	911	815
SPML003 02+75E	1.0	13.0	290	8	2	16200	<5	2.7	286	1170
SPML003 03+00E	<0.5	3.7	31	<5	2	420	<5	<0.5	37	158
SPML003 03+25E	<0.5	9.2	538	<5	<1	9160	<5	3.5	408	152
SPML003 03+50E	<0.5	5.7	49	<5	<1	500	<5	3.4	36	135
SPML003 03+75E	<0.5	11.2	147	<5	1	4010	<5	3.9	130	220
SPML003 04+00E	<0.5	6.7	62	<5	<1	1120	<5	2.6	64	57
SPML003 04+25E	<0.5	13.1	54	<5	10	5830	<5	1.0	78	165
SPML003 04+50E	1.6	8.5	216	6	<1	8770	<5	2.4	235	249
SPML003 04+75E	0.8	7.8	248	6	<1	5440	<5	3.2	232	350
SPML003 05+00E	0.9	7.7	78	<5	1	2020	<5	6.3	72	174
SPML004 00+00W	0.8	7.4	286	6	<1	5550	<5	2.4	269	358

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Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
SPML004 00+25W	0.6	11.1	407	<5	3	10400	<5	1.7	473	256
SPML004 00+50W	0.6	4.9	28	<5	<1	500	<5	6.0	23	107
SPML004 00+75W	0.7	5.4	120	<5	<1	2460	<5	2.7	144	397
SPML004 01+00W	<0.5	12.0	23	<5	22	3650	<5	<0.5	39	126
SPML004 01+25W	<0.5	9.0	43	<5	9	2570	<5	0.6	57	83
SPML004 01+50W	<0.5	8.1	23	<5	<1	500	<5	2.3	18	92
SPML004 01+75W	0.8	14.0	46	7	2	2490	<5	9.9	42	142
SPML004 02+00W	<0.5	4.5	69	<5	<1	160	<5	3.4	60	110
SPML004 02+25W	<0.5	8.0	12	<5	1	700	<5	6.4	10	55
SPML004 02+50W	<0.5	4.3	48	<5	<1	2010	<5	4.7	45	172
SPML004 02+75W	0.7	3.7	58	<5	<1	1280	<5	2.2	55	79
SPML004 03+00W	<0.5	7.9	214	<5	1	5310	<5	0.8	281	244
SPML004 03+25W	0.8	11.2	82	<5	1	3920	<5	6.1	88	104
SPML004 03+50W	0.7	3.8	40	<5	<1	830	<5	5.5	30	45
SPML004 03+75W	<0.5	6.1	44	<5	<1	1870	<5	6.5	42	79
SPML004 04+00W	<0.5	4.2	25	<5	<1	730	<5	7.7	18	46
SPML004 04+25W	<0.5	5.0	18	<5	<1	140	<5	8.8	13	57
SPML004 04+50W	<0.5	3.9	13	<5	<1	110	<5	5.4	10	84
SPML004 04+75W	<0.5	4.1	22	<5	<1	120	<5	6.8	20	122
SPML004 05+00W	0.8	3.4	24	<5	<1	310	<5	3.7	19	81
SPML005 00+00E	<0.5	6.6	140	5	<1	9950	<5	2.2	135	183
SPML005 00+25E	<0.5	4.1	35	<5	<1	1020	<5	4.1	29	72
SPML005 00+50E	1.1	11.9	37	<5	<1	540	<5	8.0	34	74
SPML005 00+75E	0.5	15.0	212	<5	1	5070	<5	3.2	213	673
SPML005 01+00E	<0.5	32.0	131	<5	6	4430	<5	<0.5	209	313
SPML005 01+25E	<0.5	16.2	252	<5	5	33500	<5	<0.5	335	1280
SPML005 01+50E	0.6	10.8	507	<5	4	20000	<5	0.8	733	650
SPML005 01+75E	<0.5	8.9	243	<5	<1	6050	<5	1.7	237	381
SPML005 02+00E	0.5	10.0	190	<5	<1	20600	<5	2.4	150	424
SPML005 02+25E	<0.5	8.0	31	<5	<1	340	<5	3.6	23	107
SPML005 02+50E	0.5	4.5	43	<5	<1	3150	<5	9.6	30	57
SPML005 02+75E	<0.5	4.6	14	<5	<1	100	<5	1.6	10	41
SPML005 03+00E	<0.5	5.6	9	<5	<1	170	<5	5.2	8	35
SPML005 03+25E	<0.5	4.8	52	<5	<1	550	<5	4.8	43	98
SPML005 03+50E	<0.5	9.9	77	<5	<1	2510	<5	3.6	72	95
SPML005 03+75E	0.8	7.9	88	<5	1	3030	<5	5.5	96	240
SPML005 04+00E	<0.5	8.7	35	<5	<1	1780	<5	3.0	27	107
SPML005 04+25E	<0.5	10.7	8	<5	2	160	<5	3.3	5	45
SPML005 04+50E	<0.5	6.7	193	<5	14	740	<5	<0.5	251	1060
SPML005 04+75E	<0.5	11.3	543	<5	12	580	<5	<0.5	653	515
SPML005 05+00E	0.9	11.8	222	<5	8	12800	<5	2.4	284	895
SPML006 00+00W	<0.5	5.9	256	<5	5	2050	<5	0.8	372	724
SPML006 00+25W	<0.5	8.5	20	<5	1	120	<5	4.0	13	41

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Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
SPML006 00+50W	<0.5	8.7	46	<5	19	5010	<5	<0.5	60	459
SPML006 00+75W	<0.5	24.0	33	<5	2	8660	<5	16.9	23	61
SPML006 01+00W	<0.5	9.4	23	<5	<1	1000	<5	3.3	16	58
SPML006 01+25W	<0.5	5.9	32	<5	<1	330	<5	6.1	31	66
SPML006 01+50W	<0.5	6.2	47	<5	<1	960	<5	3.8	46	101
SPML006 01+75W	<0.5	5.0	40	<5	<1	1620	<5	3.8	30	68
SPML006 02+00W	0.5	5.9	39	<5	<1	530	<5	2.4	44	37
SPML006 02+25W	<0.5	10.0	110	<5	3	1770	<5	<0.5	169	203
SPML006 02+50W	<0.5	9.8	40	<5	2	5060	<5	1.3	62	194
SPML006 02+75W	0.8	10.1	1390	<5	1	2960	<5	1.0	2840	735
SPML006 03+00W	0.7	9.6	391	6	2	8700	<5	0.7	573	425
SPML006 03+25W	<0.5	17.5	<1	<5	2	5450	<5	<0.5	3	159
SPML006 03+50W	<0.5	16.7	2	<5	2	11600	<5	<0.5	5	639
SPML006 03+75W	<0.5	10.9	507	<5	<1	4760	<5	0.9	565	128
SPML006 04+00W	<0.5	2.2	39	<5	<1	700	<5	2.4	29	73
SPML006 04+25W	<0.5	5.2	21	<5	<1	340	<5	6.6	15	65
SPML006 04+50W	0.5	6.6	35	<5	<1	1140	<5	7.5	26	47
SPML006 04+75W	0.5	5.8	31	<5	<1	240	<5	4.5	24	135
SPML006 05+00W	<0.5	2.5	22	<5	<1	250	<5	4.9	16	31
*Rep SPML002 01+25W	1.0	10.5	23	7	1	470	<5	5.6	17	61
*Rep SPML003 01+00E	0.5	3.9	26	<5	<1	230	<5	2.4	20	79
*Rep SPML003 04+25E	<0.5	12.4	65	<5	9	5660	<5	1.2	91	156
*Rep SPML004 00+25W	0.6	11.8	432	<5	3	12400	<5	1.9	501	279
*Rep SPML005 00+00E	<0.5	6.7	135	6	<1	9940	<5	2.2	131	192
*Rep SPML005 02+75E	<0.5	5.1	17	<5	<1	170	<5	2.3	12	52
*Rep SPML005 03+75E	1.0	7.7	66	<5	1	3140	<5	4.9	103	247
*Rep SPML006 03+75W	<0.5	11.6	527	<5	1	4720	<5	0.7	803	149
*Rep SPML006 05+00W	<0.5	2.6	23	<5	<1	250	<5	4.9	17	34
*Std MMISRM16	<0.5	36.4	4	<5	29	100	62	<0.5	13	237
*Std AMIS0169	<0.5	42.1	410	<5	31	4210	<5	4.0	390	517
*Std MMISRM18	<0.5	23.2	6	<5	75	530	33	<0.5	17	494
*Blk BLANK	<0.5	<0.1	<1	<5	<1	<10	<5	<0.5	<1	<5
*Blk BLANK	<0.5	<0.1	<1	<5	<1	10	<5	<0.5	<1	<5
*Blk BLANK	<0.5	<0.1	<1	<5	<1	<10	<5	<0.5	<1	<5

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Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
SPML002 00+00W	0.4	20	<1	<1	<1	207	1	<5	2	<1
SPML002 00+25W	0.3	40	<1	<1	<1	87	2	7	2	<1
SPML002 00+50W	0.5	90	<1	2	<1	107	4	6	4	<1
SPML002 00+75W	2.7	860	<1	9	<1	177	2	13	11	3
SPML002 01+00W	5.0	480	<1	2	<1	209	2	12	2	3
SPML002 01+25W	9.0	960	<1	7	<1	260	13	14	5	9
SPML002 01+50W	3.3	2250	<1	75	<1	220	16	58	86	12
SPML002 01+75W	1.2	320	<1	48	<1	173	4	31	58	2
SPML002 02+00W	3.9	2450	<1	20	<1	283	6	29	17	5
SPML002 02+25W	5.6	1030	<1	10	<1	166	4	22	10	<1
SPML002 02+50W	5.2	690	<1	5	<1	155	1	11	4	<1
SPML002 02+75W	7.4	800	<1	3	<1	135	2	11	3	<1
SPML002 03+00W	10.1	1250	<1	9	<1	257	3	22	10	<1
SPML002 03+25W	5.4	1270	<1	4	<1	274	3	12	4	<1
SPML002 03+50W	30.7	1030	<1	10	<1	206	7	27	11	6
SPML002 03+75W	19.0	1690	<1	24	<1	198	9	42	27	2
SPML002 04+00W	5.8	550	<1	10	<1	148	1	16	10	<1
SPML002 04+25W	12.6	460	<1	6	<1	158	3	15	6	2
SPML002 04+50W	6.7	190	<1	1	<1	133	1	6	1	1
SPML002 04+75W	6.4	1050	<1	14	<1	202	4	23	11	3
SPML002 05+00W	15.7	540	<1	6	<1	181	3	15	6	2
SPML003 00+00E	4.6	660	<1	5	<1	136	1	11	4	<1
SPML003 00+25E	4.3	1660	<1	5	<1	138	2	13	4	<1
SPML003 00+50E	3.1	610	<1	3	<1	112	<1	10	2	<1
SPML003 00+75E	30.0	800	<1	3	<1	198	2	16	4	2
SPML003 01+00E	2.9	1290	<1	4	<1	109	<1	11	4	<1
SPML003 01+25E	7.5	340	<1	5	<1	126	3	13	4	2
SPML003 01+50E	1.4	70	<1	1	<1	87	<1	6	<1	<1
SPML003 01+75E	5.9	570	<1	5	<1	156	2	13	5	<1
SPML003 02+00E	5.4	2640	<1	22	<1	198	7	37	27	2
SPML003 02+25E	9.6	2450	<1	26	<1	241	8	34	27	2
SPML003 02+50E	7.2	3890	2	215	<1	150	31	151	275	1
SPML003 02+75E	11.0	5190	<1	74	<1	185	14	59	75	2
SPML003 03+00E	0.7	1980	<1	6	<1	151	2	13	11	<1
SPML003 03+25E	5.8	1630	<1	111	<1	229	11	65	96	2
SPML003 03+50E	7.7	1250	<1	10	<1	162	2	16	9	<1
SPML003 03+75E	11.2	1470	<1	34	<1	230	3	32	34	<1
SPML003 04+00E	8.3	2790	<1	16	<1	210	4	23	19	1
SPML003 04+25E	3.3	550	<1	18	<1	187	6	21	21	<1
SPML003 04+50E	10.6	3040	<1	60	<1	230	10	62	60	2
SPML003 04+75E	7.3	1810	<1	62	<1	193	6	37	55	2
SPML003 05+00E	14.0	1950	<1	19	<1	170	8	31	18	2
SPML004 00+00W	6.9	1940	<1	73	<1	194	6	41	64	2

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Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
SPML004 00+25W	4.1	2420	<1	119	<1	188	15	93	114	2
SPML004 00+50W	8.0	1850	<1	8	<1	160	5	16	6	2
SPML004 00+75W	10.0	1590	<1	36	<1	154	6	45	39	<1
SPML004 01+00W	0.6	690	<1	8	<1	155	1	16	13	<1
SPML004 01+25W	1.6	760	<1	14	<1	196	6	15	15	1
SPML004 01+50W	5.1	780	<1	5	<1	128	<1	11	5	<1
SPML004 01+75W	18.3	1690	<1	11	<1	185	18	29	11	4
SPML004 02+00W	3.9	1780	<1	16	<1	132	4	23	15	<1
SPML004 02+25W	4.3	100	<1	3	<1	127	3	10	2	1
SPML004 02+50W	4.1	1180	<1	12	<1	202	4	18	12	<1
SPML004 02+75W	3.4	2530	<1	15	<1	150	3	24	14	<1
SPML004 03+00W	11.5	2930	<1	69	<1	186	5	42	73	<1
SPML004 03+25W	6.6	2240	<1	22	<1	235	10	35	24	2
SPML004 03+50W	6.4	470	<1	9	<1	145	1	15	7	<1
SPML004 03+75W	8.6	840	<1	11	<1	159	3	26	11	1
SPML004 04+00W	4.9	330	<1	5	<1	77	1	12	4	<1
SPML004 04+25W	6.1	270	<1	4	<1	107	1	9	3	1
SPML004 04+50W	5.1	650	<1	3	<1	98	2	11	3	<1
SPML004 04+75W	12.9	740	<1	5	<1	154	4	23	5	<1
SPML004 05+00W	2.7	2070	<1	5	<1	127	2	13	4	<1
SPML005 00+00E	3.1	1870	<1	36	<1	208	5	40	38	<1
SPML005 00+25E	4.6	1250	<1	8	<1	158	7	17	7	<1
SPML005 00+50E	3.1	1760	<1	9	<1	165	8	22	9	1
SPML005 00+75E	15.8	1720	<1	56	<1	230	9	49	53	<1
SPML005 01+00E	1.0	190	<1	45	<1	110	11	25	49	<1
SPML005 01+25E	1.6	240	<1	79	<1	167	34	23	70	<1
SPML005 01+50E	3.6	1680	<1	182	<1	234	37	57	183	2
SPML005 01+75E	4.1	1520	<1	63	<1	220	7	37	57	<1
SPML005 02+00E	5.8	1030	<1	43	<1	186	5	32	35	<1
SPML005 02+25E	6.9	800	<1	8	<1	200	1	12	6	<1
SPML005 02+50E	11.2	490	<1	9	<1	143	2	18	7	<1
SPML005 02+75E	3.1	820	<1	3	<1	203	<1	6	2	<1
SPML005 03+00E	2.5	340	<1	2	<1	95	2	11	2	1
SPML005 03+25E	8.1	760	<1	12	<1	153	4	19	11	<1
SPML005 03+50E	6.2	810	<1	19	<1	205	5	27	19	1
SPML005 03+75E	8.6	1220	<1	24	<1	180	6	22	25	1
SPML005 04+00E	5.8	1150	<1	7	<1	206	2	14	7	<1
SPML005 04+25E	3.6	400	<1	1	<1	132	1	8	1	<1
SPML005 04+50E	0.4	530	<1	80	<1	163	1	14	64	<1
SPML005 04+75E	0.4	840	<1	158	<1	220	1	30	157	<1
SPML005 05+00E	6.3	1510	<1	71	<1	155	13	50	69	2
SPML006 00+00W	0.5	300	<1	86	<1	181	2	12	94	<1
SPML006 00+25W	3.1	410	<1	4	<1	139	<1	9	3	<1

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Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
SPML006 00+50W	0.9	190	<1	14	<1	157	3	7	15	<1
SPML006 00+75W	14.6	660	<1	7	<1	204	2	18	5	5
SPML006 01+00W	5.1	610	<1	4	<1	197	1	12	4	<1
SPML006 01+25W	6.1	880	<1	8	<1	211	2	14	8	2
SPML006 01+50W	4.8	1410	<1	12	<1	138	2	24	12	<1
SPML006 01+75W	8.1	1320	<1	9	<1	164	2	18	7	<1
SPML006 02+00W	4.1	1580	<1	11	<1	186	2	26	13	<1
SPML006 02+25W	0.7	120	<1	37	<1	98	4	19	41	<1
SPML006 02+50W	5.2	1060	<1	15	<1	144	16	27	19	<1
SPML006 02+75W	5.5	4370	<1	661	<1	228	12	124	764	<1
SPML006 03+00W	8.9	2400	1	134	<1	119	14	113	176	<1
SPML006 03+25W	0.3	220	<1	<1	<1	30	8	<5	2	<1
SPML006 03+50W	0.9	80	<1	<1	<1	39	11	6	3	<1
SPML006 03+75W	4.2	2690	<1	141	<1	164	13	99	131	<1
SPML006 04+00W	3.6	860	<1	6	<1	203	<1	17	7	<1
SPML006 04+25W	5.4	500	<1	4	<1	108	3	13	3	1
SPML006 04+50W	9.8	1590	<1	7	<1	129	3	19	6	1
SPML008 04+75W	4.1	440	<1	7	<1	95	2	13	6	1
SPML006 05+00W	3.7	470	<1	5	<1	90	1	12	3	<1
*Rep SPML002 01+25W	6.5	900	<1	5	<1	251	11	12	4	6
*Rep SPML003 01+00E	3.8	1310	<1	5	<1	120	1	12	4	<1
*Rep SPML003 04+25E	4.4	540	<1	21	<1	164	7	23	24	1
*Rep SPML004 00+25W	4.3	2600	<1	126	<1	205	15	99	122	3
*Rep SPML005 00+00E	2.9	1680	<1	35	<1	210	5	41	37	<1
*Rep SPML005 02+75E	3.8	790	<1	3	<1	207	<1	7	3	<1
*Rep SPML005 03+75E	7.9	1300	<1	25	<1	175	5	23	27	<1
*Rep SPML006 03+75W	3.3	2010	<1	147	<1	173	18	103	143	<1
*Rep SPML006 05+00W	3.7	480	<1	5	<1	94	1	11	3	<1
*Std MMISRM16	0.3	80	25	2	<1	322	<1	7	4	<1
*Std AMIS0169	3.1	140	<1	107	<1	251	<1	66	67	<1
*Std MMISRM18	0.8	330	12	3	6	153	<1	<5	5	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1

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Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
SPML002 00+00W	1540	<1	<1	<10	5.5	6	<0.5	23	<1	16
SPML002 00+25W	1630	<1	<1	<10	9.3	5	<0.5	7	<1	29
SPML002 00+50W	1270	<1	<1	<10	14.4	7	<0.5	17	2	31
SPML002 00+75W	530	<1	2	<10	50.5	568	<0.5	15	<1	43
SPML002 01+00W	50	<1	<1	<10	32.9	816	<0.5	5	<1	14
SPML002 01+25W	120	<1	1	<10	60.1	520	<0.5	11	2	27
SPML002 01+50W	120	<1	16	<10	196	354	0.5	49	3	233
SPML002 01+75W	820	<1	10	<10	100	39	<0.5	35	<1	267
SPML002 02+00W	50	<1	3	<10	153	616	<0.5	24	1	68
SPML002 02+25W	100	<1	2	<10	93.1	497	<0.5	10	<1	49
SPML002 02+50W	60	<1	<1	<10	48.2	541	<0.5	8	<1	23
SPML002 02+75W	40	<1	<1	<10	51.3	437	<0.5	10	<1	19
SPML002 03+00W	40	<1	2	<10	113	508	<0.5	19	<1	45
SPML002 03+25W	40	<1	<1	<10	55.4	481	<0.5	7	<1	19
SPML002 03+50W	70	1	3	<10	114	2190	<0.5	18	1	47
SPML002 03+75W	110	<1	6	<10	134	660	<0.5	28	<1	110
SPML002 04+00W	40	<1	2	<10	90.9	254	<0.5	13	<1	35
SPML002 04+25W	40	<1	1	<10	77.0	814	<0.5	14	<1	28
SPML002 04+50W	10	<1	<1	<10	40.1	623	<0.5	8	<1	5
SPML002 04+75W	30	<1	2	<10	100	884	<0.5	18	<1	46
SPML002 05+00W	40	<1	1	<10	103	794	<0.5	15	<1	24
SPML003 00+00E	20	<1	<1	<10	46.0	450	<0.5	9	<1	17
SPML003 00+25E	10	<1	<1	<10	67.0	234	<0.5	8	<1	13
SPML003 00+50E	20	<1	<1	<10	41.4	342	<0.5	6	<1	12
SPML003 00+75E	50	<1	1	<10	64.7	1370	<0.5	18	<1	28
SPML003 01+00E	20	<1	<1	<10	41.6	201	<0.5	9	<1	19
SPML003 01+25E	50	<1	<1	<10	35.6	1000	<0.5	10	<1	25
SPML003 01+50E	50	<1	<1	<10	13.5	342	<0.5	5	<1	5
SPML003 01+75E	50	<1	1	<10	91.9	550	<0.5	13	<1	19
SPML003 02+00E	30	<1	8	<10	167	1000	<0.5	25	1	106
SPML003 02+25E	60	<1	6	<10	176	395	<0.5	23	<1	101
SPML003 02+50E	100	<1	55	<10	510	229	<0.5	214	1	1070
SPML003 02+75E	210	<1	17	<10	146	444	<0.5	177	<1	407
SPML003 03+00E	730	<1	4	<10	28.8	26	<0.5	15	<1	126
SPML003 03+25E	50	<1	18	<10	193	552	<0.5	27	1	330
SPML003 03+50E	30	<1	2	<10	79.8	340	<0.5	15	<1	41
SPML003 03+75E	60	<1	8	<10	105	444	<0.5	20	<1	204
SPML003 04+00E	30	<1	5	<10	191	332	<0.5	19	<1	64
SPML003 04+25E	570	<1	4	<10	90.1	169	<0.5	34	<1	88
SPML003 04+50E	100	<1	13	<10	258	338	<0.5	71	<1	279
SPML003 04+75E	60	<1	11	<10	125	280	<0.5	37	<1	165
SPML003 05+00E	90	<1	4	<10	171	638	<0.5	26	<1	86
SPML004 00+00W	60	<1	12	<10	134	201	<0.5	41	<1	179

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Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
SPML004 00+25W	290	<1	21	<10	237	382	<0.5	49	1	455
SPML004 00+50W	30	<1	1	<10	76.2	621	<0.5	12	<1	36
SPML004 00+75W	110	<1	8	<10	174	319	<0.5	31	<1	177
SPML004 01+00W	1060	<1	5	<10	24.3	17	<0.5	28	<1	193
SPML004 01+25W	480	<1	3	<10	60.5	136	<0.5	19	<1	68
SPML004 01+50W	20	<1	1	<10	61.9	197	<0.5	10	<1	18
SPML004 01+75W	70	<1	2	<10	169	1280	<0.5	21	1	52
SPML004 02+00W	70	<1	3	<10	91.8	371	<0.5	20	<1	74
SPML004 02+25W	40	<1	<1	<10	44.0	704	<0.5	8	<1	9
SPML004 02+50W	40	<1	2	<10	73.2	454	<0.5	13	<1	40
SPML004 02+75W	20	<1	3	<10	106	198	<0.5	19	<1	51
SPML004 03+00W	80	<1	13	<10	200	164	<0.5	38	<1	231
SPML004 03+25W	50	<1	5	<10	193	1070	<0.5	24	1	80
SPML004 03+50W	40	<1	1	<10	91.5	416	<0.5	11	<1	23
SPML004 03+75W	<10	<1	2	<10	119	519	<0.5	17	<1	46
SPML004 04+00W	50	<1	<1	<10	70.0	513	<0.5	10	<1	15
SPML004 04+25W	50	<1	<1	<10	35.1	949	<0.5	8	<1	12
SPML004 04+50W	60	<1	<1	<10	47.1	533	<0.5	9	<1	19
SPML004 04+75W	20	<1	1	<10	68.6	578	<0.5	19	<1	35
SPML004 05+00W	40	<1	<1	<10	72.6	255	<0.5	10	<1	17
SPML005 00+00E	50	<1	8	<10	144	269	<0.5	27	<1	115
SPML005 00+25E	30	<1	2	<10	53.7	365	<0.5	11	<1	32
SPML005 00+50E	10	<1	2	<10	105	824	<0.5	17	<1	45
SPML005 00+75E	80	<1	10	<10	188	304	<0.5	29	<1	177
SPML005 01+00E	720	<1	8	<10	66.5	28	<0.5	16	<1	233
SPML005 01+25E	1000	<1	11	<10	187	54	<0.5	31	1	277
SPML005 01+50E	400	<1	29	<10	185	164	<0.5	90	<1	482
SPML005 01+75E	80	<1	10	<10	112	229	<0.5	21	<1	195
SPML005 02+00E	60	<1	8	<10	119	276	<0.5	22	<1	85
SPML005 02+25E	30	<1	1	<10	53.5	458	<0.5	11	<1	28
SPML005 02+50E	10	<1	1	<10	138	485	<0.5	15	<1	22
SPML005 02+75E	30	<1	<1	<10	22.8	162	<0.5	7	<1	11
SPML005 03+00E	30	<1	<1	<10	27.2	430	<0.5	11	<1	15
SPML005 03+25E	30	<1	2	<10	115	451	<0.5	19	<1	35
SPML005 03+50E	20	<1	4	<10	177	468	<0.5	23	<1	54
SPML005 03+75E	110	<1	5	<10	104	721	<0.5	24	<1	94
SPML005 04+00E	20	<1	2	<10	79.0	242	<0.5	11	<1	24
SPML005 04+25E	50	<1	<1	<10	28.7	322	<0.5	7	<1	9
SPML005 04+50E	980	<1	12	<10	23.5	12	<0.5	125	<1	309
SPML005 04+75E	580	<1	28	<10	39.9	21	<0.5	168	<1	594
SPML005 05+00E	430	<1	12	<10	180	453	<0.5	50	1	234
SPML006 00+00W	690	<1	15	<10	25.9	125	<0.5	182	<1	284
SPML006 00+25W	50	<1	<1	<10	38.7	283	<0.5	7	<1	11

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Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
SPML006 00+50W	690	<1	3	<10	20.5	52	<0.5	49	<1	74
SPML006 00+75W	50	1	1	<10	102	2510	<0.5	23	1	27
SPML006 01+00W	40	<1	<1	<10	47.4	326	<0.5	12	<1	21
SPML006 01+25W	40	<1	2	<10	49.2	908	<0.5	12	<1	35
SPML006 01+50W	50	<1	3	<10	103	392	<0.5	15	<1	40
SPML006 01+75W	10	<1	2	<10	105	358	<0.5	14	<1	30
SPML006 02+00W	<10	<1	3	<10	163	321	<0.5	16	<1	52
SPML006 02+25W	860	<1	6	<10	74.4	25	<0.5	17	<1	169
SPML006 02+50W	520	<1	4	<10	106	232	<0.5	16	<1	79
SPML006 02+75W	160	1	168	<10	313	156	<0.5	278	3	3210
SPML006 03+00W	360	<1	36	<10	362	172	<0.5	161	<1	703
SPML006 03+25W	1230	<1	<1	<10	6.9	<3	<0.5	13	<1	14
SPML006 03+50W	1270	<1	1	<10	12.2	8	<0.5	8	<1	32
SPML006 03+75W	120	<1	24	<10	179	115	<0.5	37	<1	476
SPML006 04+00W	10	<1	2	<10	49.6	181	<0.5	9	<1	26
SPML006 04+25W	20	<1	<1	<10	43.9	751	<0.5	9	<1	14
SPML006 04+50W	20	<1	1	<10	121	695	<0.5	14	<1	21
SPML006 04+75W	30	<1	1	<10	53.7	561	<0.5	8	<1	24
SPML006 05+00W	20	<1	<1	<10	42.8	465	<0.5	9	<1	15
*Rep SPML002 01+25W	100	<1	<1	<10	48.0	441	<0.5	9	1	24
*Rep SPML003 01+00E	30	<1	<1	<10	52.5	253	<0.5	10	<1	22
*Rep SPML003 04+25E	530	<1	5	<10	115	218	<0.5	35	<1	90
*Rep SPML004 00+25W	300	<1	22	<10	247	416	<0.5	50	1	487
*Rep SPML005 00+00E	50	<1	8	<10	140	262	<0.5	27	<1	113
*Rep SPML005 02+75E	30	<1	<1	<10	27.7	233	<0.5	7	<1	13
*Rep SPML005 03+75E	120	<1	6	<10	107	627	<0.5	25	<1	105
*Rep SPML006 03+75W	300	<1	26	<10	152	108	<0.5	34	1	608
*Rep SPML006 05+00W	20	<1	<1	<10	44.3	445	<0.5	9	<1	15
*Std MMISRM16	430	<1	<1	<10	22.4	<3	<0.5	55	<1	9
*Std AMIS0169	80	<1	8	<10	99.0	488	<0.5	35	2	134
*Std MMISRM18	990	<1	<1	<10	21.3	7	<0.5	33	<1	19
*Blk BLANK	<10	<1	<1	<10	<0.5	<3	<0.5	<1	<1	<5
*Blk BLANK	<10	<1	<1	<10	<0.5	<3	<0.5	<1	<1	<5
*Blk BLANK	<10	<1	<1	<10	0.5	<3	<0.5	<1	<1	<5

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Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
SPML002 00+00W	1	100	<5
SPML002 00+25W	3	140	8
SPML002 00+50W	3	200	9
SPML002 00+75W	4	250	95
SPML002 01+00W	2	230	38
SPML002 01+25W	3	370	90
SPML002 01+50W	18	300	88
SPML002 01+75W	19	190	25
SPML002 02+00W	7	190	113
SPML002 02+25W	8	210	87
SPML002 02+50W	4	110	47
SPML002 02+75W	3	160	34
SPML002 03+00W	5	200	75
SPML002 03+25W	3	270	69
SPML002 03+50W	5	280	121
SPML002 03+75W	12	990	118
SPML002 04+00W	4	100	47
SPML002 04+25W	4	180	76
SPML002 04+50W	1	60	40
SPML002 04+75W	6	230	88
SPML002 05+00W	3	130	95
SPML003 00+00E	2	100	35
SPML003 00+25E	2	100	46
SPML003 00+50E	2	150	45
SPML003 00+75E	3	210	88
SPML003 01+00E	3	180	29
SPML003 01+25E	4	140	54
SPML003 01+50E	2	30	17
SPML003 01+75E	3	160	100
SPML003 02+00E	12	220	174
SPML003 02+25E	10	540	113
SPML003 02+50E	86	2320	311
SPML003 02+75E	33	10800	83
SPML003 03+00E	9	90	13
SPML003 03+25E	26	820	140
SPML003 03+50E	5	240	56
SPML003 03+75E	20	380	136
SPML003 04+00E	6	270	149
SPML003 04+25E	9	1290	87
SPML003 04+50E	28	1590	148
SPML003 04+75E	13	3130	80
SPML003 05+00E	9	610	116
SPML004 00+00W	15	3390	84

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Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
SPML004 00+25W	39	1220	149
SPML004 00+50W	5	240	81
SPML004 00+75W	18	1810	120
SPML004 01+00W	17	640	14
SPML004 01+25W	6	620	48
SPML004 01+50W	2	190	42
SPML004 01+75W	6	360	123
SPML004 02+00W	8	460	63
SPML004 02+25W	1	50	44
SPML004 02+50W	4	470	57
SPML004 02+75W	6	170	52
SPML004 03+00W	20	290	64
SPML004 03+25W	9	370	151
SPML004 03+50W	3	80	64
SPML004 03+75W	6	90	53
SPML004 04+00W	2	70	53
SPML004 04+25W	2	60	47
SPML004 04+50W	3	150	36
SPML004 04+75W	5	200	134
SPML004 05+00W	2	190	43
SPML005 00+00E	11	720	94
SPML005 00+25E	4	280	52
SPML005 00+50E	8	150	71
SPML005 00+75E	17	1120	86
SPML005 01+00E	16	250	23
SPML005 01+25E	22	230	52
SPML005 01+50E	36	3890	105
SPML005 01+75E	16	960	51
SPML005 02+00E	7	1000	56
SPML005 02+25E	3	310	36
SPML005 02+50E	2	50	97
SPML005 02+75E	2	230	28
SPML005 03+00E	3	60	27
SPML005 03+25E	4	220	78
SPML005 03+50E	6	220	116
SPML005 03+75E	8	1820	113
SPML005 04+00E	3	450	56
SPML005 04+25E	2	90	20
SPML005 04+50E	16	5230	9
SPML005 04+75E	29	3340	15
SPML005 05+00E	20	5660	130
SPML006 00+00W	14	2450	24
SPML006 00+25W	2	60	28

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Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
SPML006 00+50W	5	1020	24
SPML008 00+75W	4	330	173
SPML006 01+00W	3	170	54
SPML006 01+25W	3	150	52
SPML006 01+50W	4	190	106
SPML006 01+75W	3	140	67
SPML006 02+00W	5	70	66
SPML006 02+25W	11	120	18
SPML006 02+50W	9	370	58
SPML006 02+75W	238	5600	154
SPML006 03+00W	63	470	277
SPML006 03+25W	1	130	6
SPML008 03+50W	3	70	8
SPML006 03+75W	41	350	65
SPML008 04+00W	3	160	30
SPML006 04+25W	2	120	52
SPML006 04+50W	2	130	110
SPML006 04+75W	3	180	36
SPML006 05+00W	2	50	53
*Rep SPML002 01+25W	3	350	70
*Rep SPML003 01+00E	3	180	37
*Rep SPML003 04+25E	9	1360	106
*Rep SPML004 00+25W	40	1250	150
*Rep SPML005 00+00E	11	730	94
*Rep SPML005 02+75E	2	240	33
*Rep SPML005 03+75E	9	2050	103
*Rep SPML006 03+75W	46	880	63
*Rep SPML006 05+00W	2	50	54
*Std MMISRM16	<1	230	17
*Std AMIS0169	12	230	61
*Std MMISRM18	<1	620	27
*Blk BLANK	<1	<20	<5
*Blk BLANK	<1	<20	<5
*Blk BLANK	<1	<20	<5

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Appendix VI – Bedrock Geological Mapping

6.1 – Geology Stations
6.2 - Lithology
6.3 – Structure

Appendix 6.1 - 2010 Field Mapping Station Locations

Station Number	Date (dd/mm/yyyy)	Type	Elevation (m)	Easting (m)	Northing (m)	Location Method	GPS Accuracy (m)	Comments
AHSPG001	12/08/2010	outcrop		548550	6836868	GPS	9	
AHSPG002	12/08/2010	waypoint		548516	6836826	GPS	9	
AHSPG003	12/08/2010	outcrop		548749	6836953	GPS	16	
AHSPG004	12/08/2010	outcrop		548486	6837057	GPS	9	
AHSPG005	12/08/2010	outcrop		548334	6837031	GPS	9	
AHSPG006	12/08/2010	outcrop		548318	6837036	GPS	9	
AHSPG007	12/08/2010	outcrop		547230	6838370	GPS	10	
AHSPG008	12/08/2010	outcrop		547227	6838567	GPS	10	
AHSPG009	12/08/2010	waypoint		547246	6838669	GPS		
AHSPG010	12/08/2010	outcrop		546825	6839405	GPS	10	
AHSPG011	12/08/2010	outcrop		546517	6839358	GPS	8	
AHSPG012	12/08/2010	outcrop		546643	6839310	GPS	8	
AHSPG013	12/08/2010	subcrop		546780	6839304	GPS	9	
AHSPG014	12/08/2010	outcrop		546825	6839454	GPS	20	
AHSPG015	12/08/2010	outcrop		546809	6839471	GPS	9	
AHSPG016	12/08/2010	outcrop	1473	546713	6839114.9	GPS	1	
AHSPG017	12/08/2010	outcrop	1473	546705	6839102.2	GPS	1	
AHSPG018	12/08/2010	outcrop		546636	6838695	GPS	15	
AHSPG019	12/08/2010	outcrop	1715	546750	6838546.5	GPS	2	
AHSPG020	13/08/2010	outcrop	14239	548523	6836834.3	GPS	1	
AHSPG021	13/08/2010	outcrop	1415	548540	6836846.1	GPS	1	
AHSPG022	13/08/2010	outcrop	1412	548573	6836911.3	GPS	1	
AHSPG023	14/08/2010	outcrop	1391	548637	6836949.5	GPS	1	
AHSPG024	14/08/2010	outcrop	1375	548671	6836968.6	GPS	1	
AHSPG025	14/08/2010	outcrop	1372	548720	6836947.8	GPS	2	
AHSPG026	14/08/2010	outcrop	1438	548341	6837035.8	GPS	2	
AHSPG027	16/08/2010	outcrop	1728	547302	6838419.6	GPS	2	
AHSPG028	16/08/2010	outcrop	1565	547233	6838708	GPS	3	
AHSPG029	16/08/2010	outcrop	1601	547236	6838663.6	GPS	2	
AHSPG030	16/08/2010	float	1604	547235	6838647.9	GPS	2	
AHSPG031	16/08/2010	outcrop	1632	547211	6838606.3	GPS	1	
AHSPG032	16/08/2010	outcrop	1677	547230	6838514.8	GPS	4	

Station Number	Date (dd/mm/yyyy)	Type	Elevation (m)	Easting (m)	Northing (m)	Location Method	GPS Accuracy (m)	Comments
AHSPG033	16/08/2010	outcrop	1701	547219	6838496.2	GPS	1	
AHSPG034	17/08/2010	outcrop		547195	6839205	GPS	10	
AHSPG035	17/08/2010	outcrop		547163	6839238	GPS	10	
AHSPG036	17/08/2010	subcrop		546909	6839154	GPS	10	
AHSPG037	17/08/2010	subcrop		546824	6839433	GPS	15	
AHSPG038	17/08/2010	outcrop		546753	6839453	GPS	15	
AHSPG039	17/08/2010	outcrop		546767	6839451	GPS	7	
AHSPG040	17/08/2010	outcrop		546648	6839513	GPS	7	
AHSPG041	17/08/2010	outcrop		546607	6839523	GPS	10	
AHSPG042	17/08/2010	subcrop		546558	6839377	GPS	10	
AHSPG043	19/08/2010	outcrop	1864	547022	6838247.9	GPS	2	
AHSPG044	19/08/2010	outcrop	1843	547019	6838285.7	GPS	2	
AHSPG045	19/08/2010	subcrop	1731	547226	6838425.6	GPS	1	
AHSPG046	19/08/2010	outcrop	1763	547236	6838367.1	GPS	1	
AHSPG048	20/08/2010	outcrop				GPS		
BKSPG001	12/08/2010	scree		548014	6835684	GPS	5	
BKSPG002	12/08/2010	outcrop		548062	6835827	GPS	4	
BKSPG003	12/08/2010	outcrop		548088	6835883	GPS	3	
BKSPG004	12/08/2010	outcrop		548223	6836056	GPS	4	
BKSPG005	12/08/2010	outcrop		548263	6836124	GPS	6	
BKSPG006	16/08/2010	outcrop		547276	6838796	GPS	5	
BKSPG007	16/08/2010	float		547218	6838486	GPS	9	
BKSPG008	16/08/2010	outcrop		547213	6838480	GPS	12	
BWSPG001	09/08/2010	outcrop	1452	546514	6839352.9	GPS	1	
BWSPG002	11/08/2010	outcrop	1445	546779	6839305.8	GPS	2	
BWSPG003	12/08/2010	outcrop	1782	548026	6835629.7	GPS	3	
BWSPG004	12/08/2010	outcrop	1841	548036	6835715.3	GPS	2	
BWSPG005	12/08/2010	outcrop	1814	548078	6835864.4	GPS	1	
BWSPG006	12/08/2010	outcrop	1787	548104	6835883.3	GPS	3	
BWSPG007	12/08/2010	rubble	1802	548103	6835899.1	GPS	2	
BWSPG008	12/08/2010	outcrop	1795	548092	6835884.6	GPS	1	
BWSPG009	12/08/2010	outcrop	1777	548145	6835933.3	GPS	2	

Station Number	Date (dd/mm/yyyy)	Type	Elevation (m)	Easting (m)	Northing (m)	Location Method	GPS Accuracy (m)	Comments
BWSPG010	12/08/2010	outcrop	1761	548247	6836096.5	GPS	1	
BWSPG011	12/08/2010	rubble	1563	548134	6836306.3	GPS	1	
BWSPG012	13/08/2010	outcrop	1623	545790	6839084.7	GPS	1	
BWSPG013	13/08/2010	outcrop	1527	545944	6838939.1	GPS	1	
BWSPG014	13/08/2010	subcrop	1602	546111	6838841	GPS	1	
BWSPG015	13/08/2010	subcrop	1471	546559	6839260.7	GPS	1	
BWSPG016	13/08/2010	outcrop	1889	546033	6837567.1	GPS	1	
BWSPG017	13/08/2010	outcrop	1675	545982	6836828.7	GPS	2	
BWSPG018	14/08/2010	outcrop	1516	547491	6837292.8	GPS	1	
BWSPG019	14/08/2010	outcrop	1508	547508	6837299.2	GPS	2	
BWSPG020	14/08/2010	subcrop	1513	547600	6837278.4	GPS	2	
BWSPG021	14/08/2010	subcrop	1488	547622	6837271.8	GPS	1	
BWSPG022	14/08/2010	subcrop	1496	547704	6837235.1	GPS	1	
BWSPG023	14/08/2010	outcrop	1472	547751	6837202.2	GPS	1	
BWSPG024	14/08/2010	outcrop	1466	547804	6837181.9	GPS	2	
BWSPG025	14/08/2010	subcrop	1456	547967	6837092.5	GPS	1	
BWSPG026	14/08/2010	outcrop	1432	548067	6837061.2	GPS	2	
BWSPG027	14/08/2010	outcrop	1425	548114	6837056.8	GPS	2	
BWSPG028	14/08/2010	outcrop	1442	548159	6837056.1	GPS	3	
BWSPG029	14/08/2010	outcrop	1439	548235	6837020.2	GPS	2	
BWSPG030	14/08/2010	outcrop	1440	548291	6837047.6	GPS	1	
BWSPG031	14/08/2010	outcrop	1418	548311	6837024	GPS	1	
BWSPG032	14/08/2010	outcrop	1401	548468	6837074.2	GPS	2	
BWSPG033	14/08/2010	rubble	1397	548527	6837034.6	GPS	6	
BWSPG034	14/08/2010	outcrop	1389	548630	6837037.7	GPS	6	
BWSPG035	14/08/2010	outcrop	1390	548733	6836941.4	GPS	3	
BWSPG036	14/08/2010	outcrop	1403	548705	6836957.4	GPS	2	
BWSPG037	16/08/2010	outcrop	1842	547223	6838125	GPS	3	
BWSPG038	16/08/2010	outcrop	1886	547235	6838139.3	GPS	3	
BWSPG039	16/08/2010	outcrop	1899	547263	6838129.1	GPS	2	
BWSPG040	16/08/2010	outcrop	1897	547285	6838122.2	GPS	1	
BWSPG041	16/08/2010	outcrop	1867	547291	6838133.5	GPS	2	

Station Number	Date (dd/mm/yyyy)	Type	Elevation (m)	Easting (m)	Northing (m)	Location Method	GPS Accuracy (m)	Comments
BWSPG042	16/08/2010	outcrop	1908	547305	6838214.1	GPS	2	
BWSPG043	16/08/2010	outcrop	1828	547308	6838182.4	GPS	3	
BWSPG044	16/08/2010	outcrop	1842	547364	6838253.9	GPS	2	
BWSPG045	16/08/2010	outcrop	1758	547406	6838263.4	GPS	3	
BWSPG046	16/08/2010	outcrop	1793	547783	6838336.6	GPS	2	
BWSPG047	16/08/2010	outcrop	1825	547828	6838236	GPS	2	
BWSPG048	17/08/2010	outcrop	1515	547439	6837279	GPS	1	
BWSPG049	17/08/2010	outcrop	1526	547380	6837299.7	GPS	2	
BWSPG050	17/08/2010	outcrop	1516	547376	6837292.3	GPS	2	
BWSPG051	17/08/2010	outcrop	1522	547366	6837294.9	GPS	1	
BWSPG052	17/08/2010	outcrop	1521	547344	6837298.6	GPS	1	
BWSPG053	17/08/2010	outcrop	1534	547339	6837292.3	GPS	7	
BWSPG054	17/08/2010	outcrop	1532	547330	6837303.7	GPS	2	
BWSPG055	17/08/2010	outcrop	1535	547321	6837305.4	GPS	2	
BWSPG056	17/08/2010	outcrop	1529	547328	6837308.1	GPS	2	
BWSPG057	18/08/2010	outcrop	1693	547261	6836925.9	GPS	1	
BWSPG058	18/08/2010	outcrop	1680	547213	6836951.9	GPS	2	
BWSPG059	18/08/2010	outcrop	1732	547172	6836889.9	GPS	2	
BWSPG060	18/08/2010	outcrop	1797	546954	6836834	GPS	3	
BWSPG061	18/08/2010	outcrop	1799	546843	6836880.9	GPS	1	
BWSPG062	18/08/2010	outcrop	1805	546809	6836878.6	GPS	2	
BWSPG063	18/08/2010	outcrop	1772	546583	6836836.5	GPS	2	
BWSPG064	18/08/2010	outcrop	1756	546201	6836648	GPS	2	
BWSPG065	18/08/2010	outcrop	1593	546827	6837392.6	GPS	2	
BWSPG067	20/08/2010	outcrop		548392	6836759	GPS	10	
BWSPG068	20/08/2010	rubble		548384	6836601	GPS	18	
BWSPG069	21/08/2010	outcrop		547298	6837298	GPS	7	
BWSPG070	21/08/2010	outcrop		547293	6837316	GPS	8	
ETSPG001	09/08/2010	outcrop		548595	6836893	GPS	8	
ETSPG002	09/08/2010	outcrop		547930	6837779	GPS	7	
ETSPG003	09/08/2010	outcrop		547941	6837967	GPS	5	
ETSPG004	10/08/2010	outcrop		546544	6839336	GPS	9	

Station Number	Date (dd/mm/yyyy)	Type	Elevation (m)	Easting (m)	Northing (m)	Location Method	GPS Accuracy (m)	Comments
ETSPG005	10/08/2010	outcrop		546811	6839448	GPS	11	
ETSPG006	10/08/2010	outcrop		546789	6839459	GPS	5	
ETSPG007	10/08/2010	outcrop		546775	6839466	GPS	9	
ETSPG008	10/08/2010	outcrop		546730	6839480	GPS	9	
ETSPG009	11/08/2010	outcrop		549419	6836675	GPS	6	
ETSPG010	12/08/2010	outcrop		546776	6839480	GPS	8	
ETSPG011	12/08/2010	outcrop		546684	6839081	GPS	10	
LJSPG001	09/08/2010	float		548517	6836762	GPS	10	
LJSPG002	09/08/2010	outcrop		5448598	6836911	GPS	6	
LJSPG003	09/08/2010	outcrop		547950	6837785	GPS	9	
LJSPG004	09/08/2010	outcrop		548003	6837921	GPS	7	
LJSPG005	09/08/2010	outcrop		547878	6838076	GPS	13	
LJSPG006	09/08/2010	outcrop		547814	6838084	GPS	12	
LJSPG007	11/08/2010	outcrop		548965	6835901	GPS	10	
LJSPG008	12/08/2010	outcrop		546800	6839449	GPS	8	
LJSPG009	13/08/2010	outcrop		548605	6836911	GPS	7	
LJSPG010	13/08/2010	outcrop		548627	6836947	GPS	14	
LJSPG011	14/08/2010	outcrop		548726	6836954	GPS	7	
LJSPG012	16/08/2010	outcrop		547293	6838199	GPS	10	
LJSPG013	16/08/2010	outcrop		547356	6838127	GPS	5	
LJSPG014	16/08/2010	outcrop		547487	6838204	GPS	25	
LJSPG015	17/08/2010	outcrop		547039	6839148	GPS	8	
LJSPG016	17/08/2010	outcrop		546768	6839570	GPS	6	
LJSPG017	17/08/2010	outcrop		546592	683960	GPS	10	
LJSPG018	18/08/2010	outcrop		546557	6839627	GPS	5	
LJSPG019	18/08/2010	outcrop		546405	6839518	GPS	14	
LJSPG020	18/08/2010	outcrop		546521	6839442	GPS	6	
LJSPG021	18/08/2010	outcrop	1463	546594	6839270	GPS	6	
LJSPG022	18/08/2010	outcrop		546608	6839140	GPS	7	
LJSPG023	18/08/2010	outcrop		547391	6836867	GPS	6	
LJSPG024	18/08/2010	outcrop		547437	6836868	GPS	8	
LJSPG025	18/08/2010	outcrop		547379	6836822	GPS	8	

Station Number	Date (dd/mm/yyyy)	Type	Elevation (m)	Easting (m)	Northing (m)	Location Method	GPS Accuracy (m)	Comments
LJSPG026	18/08/2010	outcrop		547273	6836781	GPS	5	
LJSPG027	18/08/2010	outcrop	1816	547215	6836748	GPS	7	
LJSPG028	18/08/2010	outcrop	1840	547139	6836714	GPS	1	
LJSPG029	18/08/2010	outcrop		546917	6836687	GPS	6	
LJSPG030	18/08/2010	outcrop	1947	546858	6836655	GPS	5	
LJSPG031	18/08/2010	outcrop		546828	6836645	GPS	7	
LJSPG032	18/08/2010	outcrop	1975	546809	6836631	GPS	0	
LJSPG033	18/08/2010	outcrop	1983	546784	6836639	GPS	6	
LJSPG034	18/08/2010	outcrop	1989	546767	6836627	GPS	7	
LJSPG035	18/08/2010	outcrop	1982	546719	6836601	GPS	6	
LJSPG036	18/08/2010	outcrop	1975	546666	6836525	GPS	7	
LJSPG037	18/08/2010	outcrop	1926	546480	6836388	GPS	14	
LJSPG038	18/08/2010	outcrop	1835	546366	6836441	GPS	11	
LJSPG039	18/08/2010	outcrop	1778	546219	6836517	GPS	6	
LJSPG040	19/08/2010	outcrop	1904	547104	6838137	GPS	9	
LJSPG041	19/08/2010	outcrop		547010	6838210	GPS	15	
LJSPG042	19/08/2010	outcrop	1839	546999	6838360	GPS	12	
LJSPG043	19/08/2010	outcrop		546998	6838383	GPS	9	
LJSPG044	19/08/2010	outcrop	1773	547233	6838437	GPS	12	
LJSPG045	20/08/2010	outcrop	1543	548538	6837318	GPS	7	
LJSPG046	21/08/2010	outcrop	1422	548578	6836915	GPS	8	
LJSPG047	21/08/2010	outcrop		548626	6836939	GPS	10	

Appendix 6.2 - Lithology

Station Number	User	Date (dd/mm/yyyy)	Station Type	Map Unit	Rock Type	Colour	Colour Weathered	Grain size	Texture	Mineralization	Mineralization Minor	Min. Style	Min. %	Alteration	Alt. Degree
AHSPG001	AH	12/08/2010	outcrop		Phyllite								0		0
AHSPG005	AH	12/08/2010	outcrop		artz Pebble Conglome								0		0
AHSPG006	AH	12/08/2010	outcrop		artz Pebble Conglome								0		0
AHSPG006	AH	12/08/2010	outcrop		Contact - Lithologic								0		0
AHSPG007	AH	12/08/2010	outcrop		Skarn								0		0
AHSPG010	AH	12/08/2010	outcrop		Siliceous phyllite	milky	orangish	fine-medium					0		0
AHSPG011	AH	12/08/2010	outcrop		Granodiorite	grey	grey	medium	equigranular				0		0
AHSPG012	AH	12/08/2010	outcrop		Felsite								0		0
AHSPG013	AH	12/08/2010	subcrop		Calc-silicate								0		0
AHSPG014	AH	12/08/2010	outcrop		Meta-siltstone								0		0
AHSPG015	AH	12/08/2010	outcrop		Quartzite	orange	brown	fine-medium					0		0
AHSPG016	AH	12/08/2010	outcrop		Granodiorite								0		0
AHSPG017	AH	12/08/2010	outcrop		Porphyry	grey	orangish	nedium-coarse	porphyritic				0		0
AHSPG018	AH	12/08/2010	outcrop		Skarn								0		0
AHSPG019	AH	12/08/2010	outcrop		Quartz Prophyry	white	beige		porphyritic				0		0
AHSPG020	AH	13/08/2010	outcrop		artz Pebble Conglome	milky	grey	medium					0		0
AHSPG021	AH	13/08/2010	outcrop		Phyllite								0		0
AHSPG022	AH	13/08/2010	outcrop		artz Pebble Conglome	white	grey	nedium-coarse	veined				0		0
AHSPG023	AH	14/08/2010	outcrop		artz Pebble Conglome	milky	tan	nedium-coarse					0		0
AHSPG024	AH	14/08/2010	outcrop		artz Pebble Conglome	milky	reddish	medium					0		0
AHSPG025	AH	14/08/2010	outcrop		artz Pebble Conglome	milky	reddish	nedium-coarse					0		0
AHSPG026	AH	14/08/2010	outcrop		artz Pebble Conglome	grey	grey	medium					0		0
AHSPG027	AH	16/08/2010	outcrop		Siltstone	greenish	rusty	fine					0		0
AHSPG028	AH	16/08/2010	outcrop		Siltstone	greenish	brown	fine					0		0
AHSPG029	AH	16/08/2010	outcrop		Siltstone								0		0
AHSPG030	AH	16/08/2010	float		Siltstone								0		0

Station Number	User	Date (dd/mm/yyyy)	Station Type	Map Unit	Rock Type	Colour	Colour Weathered	Grain size	Texture	Mineralization	Mineralization Minor	Min. Style	Min. %	Alteration	Alt. Degree
AHSPG031	AH	16/08/2010	outcrop		Siltstone								0		0
AHSPG032	AH	16/08/2010	outcrop		Skarn	green	rusty	fine-medium					0		0
AHSPG033	AH	16/08/2010	outcrop		Skarn	green	rusty	fine					0		0
AHSPG034	AH	17/08/2010	outcrop		Phyllite	greenish	greyish	fine					0		0
AHSPG035	AH	17/08/2010	outcrop		Sandstone	white	grey	medium					0		0
AHSPG036	AH	17/08/2010	subcrop		Granodiorite								0		0
AHSPG037	AH	17/08/2010	subcrop		Skarn	green	grey green	medium					0		0
AHSPG038	AH	17/08/2010	outcrop		Calc-silicate	green	grey green	fine	veined				0		0
AHSPG039	AH	17/08/2010	outcrop		Skarn	green	grey green	nedium-coarse					0		0
AHSPG040	AH	17/08/2010	outcrop		artz Pebble Conglome	white	grey	medium	veined				0		0
AHSPG041	AH	17/08/2010	outcrop		Felsite	white	grey	fine-medium	porphyritic				0		0
AHSPG042	AH	17/08/2010	subcrop		Granodiorite	white	grey	medium	equigranular				0		0
AHSPG043	AH	19/08/2010	outcrop		Sandstone	brownish	brown	fine-medium	veined				0		0
AHSPG044	AH	19/08/2010	outcrop		artz Pebble Conglome								0		0
AHSPG045	AH	19/08/2010	subcrop		Calc-silicate	green	brownish	fine					0		0
AHSPG045	AH	19/08/2010	subcrop		Skarn								0		0
AHSPG046	AH	19/08/2010	outcrop		Skarn	grey green	rusty	fine-medium					0		0
BKSPG001	BK	12/08/2010	scree		Limestone	bluish	orange	very fine	fissile				0		0
BKSPG002	BK	12/08/2010	outcrop		artz Pebble Conglome	white	orange	pebble					0		0
BKSPG003	BK	12/08/2010	outcrop		artz Pebble Conglome	grey	salmon	pebble					0		0
BKSPG004	BK	12/08/2010	outcrop		quartz arenite	grey	yellow	fine					0		0
BKSPG005	BK	12/08/2010	outcrop		artz Pebble Conglome	light grey	yellow	pebble					0		0
BKSPG006	BK	16/08/2010	outcrop		Siltstone	bluish	orangish	fine	fissile				0		0
BKSPG007	BK	16/08/2010	float		Hornfels								0		0
BKSPG008	BK	16/08/2010	outcrop		Sulph Min	light grey	yellowish	fine					0		0
BWSPG001	BW	09/08/2010	outcrop		Granite	grey	grey	medium	equigranular				0		0
BWSPG002	BW	11/08/2010	outcrop		Granite	grey	grey	medium	equigranular				0		0

Station Number	User	Date (dd/mm/yyyy)	Station Type	Map Unit	Rock Type	Colour	Colour Weathered	Grain size	Texture	Mineralization	Mineralization Minor	Min. Style	Min. %	Alteration	Alt. Degree
BWSPG003	BW	12/08/2010	outcrop		artz Pebble Conglome	grey	grey	nedium-coarse	gritty				0		0
BWSPG004	BW	12/08/2010	outcrop		Sandstone	grey	brown	fine-medium	gritty				0		0
BWSPG005	BW	12/08/2010	outcrop		artz Pebble Conglome	orange	orange	coarse	granular				0		0
BWSPG006	BW	12/08/2010	outcrop		artz Pebble Conglome	grey	beige	coarse	granular				0		0
BWSPG007	BW	12/08/2010	rubble		artz Pebble Conglome	grey	grey	medium	rotten				0		0
BWSPG008	BW	12/08/2010	outcrop		artz Pebble Conglome	grey	beige	medium	granular				0		0
BWSPG009	BW	12/08/2010	outcrop		artz Pebble Conglome	grey	grey	medium	granular				0		0
BWSPG010	BW	12/08/2010	outcrop		Siltstone	grey	grey	fine-medium	gritty				0		0
BWSPG011	BW	12/08/2010	rubble		artz Pebble Conglome	white	light grey	medium	granular				0		0
BWSPG012	BW	13/08/2010	outcrop		Phyllite	dark grey	brownish	fine	platy				0		0
BWSPG013	BW	13/08/2010	outcrop		artz Pebble Conglome	rusty	rusty	pebble	rotten				0		0
BWSPG014	BW	13/08/2010	subcrop		artz Pebble Conglome	grey	grey	cobble	pebble				0		0
BWSPG015	BW	13/08/2010	subcrop		Granite	grey	grey	medium	equigranular				0		0
BWSPG016	BW	13/08/2010	outcrop		Phyllite	dark grey	dark grey	fine	platy				0		0
BWSPG017	BW	13/08/2010	outcrop		artz Pebble Conglome	grey	grey	coarse	pebble				0		0
BWSPG018	BW	14/08/2010	outcrop		artz Pebble Conglome	grey	grey	medium	granular				0		0
BWSPG019	BW	14/08/2010	outcrop		artz Pebble Conglome	grey	grey	medium	clast within				0		0
BWSPG020	BW	14/08/2010	subcrop		artz Pebble Conglome	pinkish	brown	medium	granular				0		0
BWSPG021	BW	14/08/2010	subcrop		Siltstone	dark grey	brownish	fine	massive				0		0
BWSPG022	BW	14/08/2010	subcrop		artz Pebble Conglome	grey	brown	nedium-coarse	pebble				0		0
BWSPG023	BW	14/08/2010	outcrop		artz Pebble Conglome	grey	brown	coarse	pebble				0		0
BWSPG024	BW	14/08/2010	outcrop		artz Pebble Conglome	grey	grey	coarse	pebble				0		0
BWSPG025	BW	14/08/2010	subcrop		Siltstone	beige	beige	fine	laminated				0		0
BWSPG026	BW	14/08/2010	outcrop		Phyllite	pinkish	brown	fine-medium	platy				0		0
BWSPG027	BW	14/08/2010	outcrop		Phyllite	brown	brown	fine	platy				0		0
BWSPG028	BW	14/08/2010	outcrop		Phyllite	grey	brown	fine	platy				0		0
BWSPG029	BW	14/08/2010	outcrop		Phyllitic quartzite	grey	brown	fine					0		0

Station Number	User	Date (dd/mm/yyyy)	Station Type	Map Unit	Rock Type	Colour	Colour Weathered	Grain size	Texture	Mineralization	Mineralization Minor	Min. Style	Min. %	Alteration	Alt. Degree
BWSPG030	BW	14/08/2010	outcrop		Phyllite								0		0
BWSPG031	BW	14/08/2010	outcrop		Contact - Lithologic	grey	grey	medium	pebble				0		0
BWSPG032	BW	14/08/2010	outcrop		artz Pebble Conglome	grey	grey	coarse	pebble				0		0
BWSPG033	BW	14/08/2010	rubble		Phyllite								0		0
BWSPG034	BW	14/08/2010	outcrop		Phyllite	brown	brown	fine	platy				0		0
BWSPG035	BW	14/08/2010	outcrop		Phyllite								0		0
BWSPG036	BW	14/08/2010	outcrop		Phyllite								0		0
BWSPG037	BW	16/08/2010	outcrop		Hornfels	greenish	brown	fine	laminated				0		0
BWSPG038	BW	16/08/2010	outcrop		Siltstone	dark grey	brown	fine	laminated				0		0
BWSPG039	BW	16/08/2010	outcrop		Hornfels	greenish	brown	fine	laminated				0		0
BWSPG040	BW	16/08/2010	outcrop		Hornfels	greenish	brown	fine	laminated				0		0
BWSPG041	BW	16/08/2010	outcrop		Hornfels	greenish	brown	fine	laminated				0		0
BWSPG042	BW	16/08/2010	outcrop		Skarn	green	brown	fine	laminated				0		0
BWSPG043	BW	16/08/2010	outcrop		Hornfels	greenish	brown	fine	laminated				0		0
BWSPG044	BW	16/08/2010	outcrop		Hornfels	dark grey	rusty	fine	laminated				0		0
BWSPG045	BW	16/08/2010	outcrop		Phyllite	brown	brown	fine	platy				0		0
BWSPG046	BW	16/08/2010	outcrop		Hornfels	grey	grey	fine	laminated				0		0
BWSPG047	BW	16/08/2010	outcrop		Limestone	grey	grey	fine	platy				0		0
BWSPG048	BW	17/08/2010	outcrop		Breccia	grey	brown	fine	clast within				0		0
BWSPG049	BW	17/08/2010	outcrop		Vein	green	brown	fine-medium	massive				0		0
BWSPG050	BW	17/08/2010	outcrop		Skarn	dark grey	brown	fine-medium	massive				0		0
BWSPG051	BW	17/08/2010	outcrop		Skarn	green	brown	medium					0		0
BWSPG052	BW	17/08/2010	outcrop		Felsite	white	rusty	nedium-coarse	fractured				0		0
BWSPG053	BW	17/08/2010	outcrop		Felsite	white	brown	medium	fractured				0		0
BWSPG054	BW	17/08/2010	outcrop		Skarn	green	brown	medium					0		0
BWSPG055	BW	17/08/2010	outcrop		Skarn	green	brownish	nedium-coarse	granular				0		0
BWSPG056	BW	17/08/2010	outcrop		Skarn	green	brown	nedium-coarse					0		0

Station Number	User	Date (dd/mm/yyyy)	Station Type	Map Unit	Rock Type	Colour	Colour Weathered	Grain size	Texture	Mineralization	Mineralization Minor	Min. Style	Min. %	Alteration	Alt. Degree
BWSPG057	BW	18/08/2010	outcrop		artz Pebble Conglome	grey	grey	coarse	pebble				0		0
BWSPG058	BW	18/08/2010	outcrop		artz Pebble Conglome	grey	greyish	coarse	graded (normal)				0		0
BWSPG059	BW	18/08/2010	outcrop		artz Pebble Conglome	grey	brown	fine-medium	clast within				0		0
BWSPG060	BW	18/08/2010	outcrop		Phyllite	grey	grey	fine	platy				0		0
BWSPG061	BW	18/08/2010	outcrop		uartz-Feldspar Porphy	beige	grey	fine	porphyritic				0		0
BWSPG062	BW	18/08/2010	outcrop		Shale	grey	grey	fine	platy				0		0
BWSPG063	BW	18/08/2010	outcrop		Phyllite	grey	grey	fine	platy				0		0
BWSPG064	BW	18/08/2010	outcrop		uartz-Feldspar Porphy	grey	grey	nedium-coarse	porphyritic				0		0
BWSPG065	BW	18/08/2010	outcrop		uartz-Feldspar Porphy								0		0
BWSPG067	BW	20/08/2010	outcrop		Skarn	greenish	brown	fine	laminated				0		0
BWSPG067	BW	20/08/2010	outcrop		Hornfels	grey	rusty	fine	laminated				0		0
BWSPG068	BW	20/08/2010	rubble		Hornfels	dark grey	rusty	fine					0		0
BWSPG069	BW	21/08/2010	outcrop		uartz-Feldspar Porphy	pinkish	beige	nedium-coarse	porphyritic				0		0
BWSPG069	BW	21/08/2010	outcrop		uartz-Feldspar Porphy	rusty	rusty	fine-medium	rotten				0		0
BWSPG070	BW	21/08/2010	outcrop		uartz-Feldspar Porphy	beige	rusty	medium	rotten				0		0
BWSPG070	BW	21/08/2010	outcrop		Hornfels	dark grey	rusty	fine	rotten				0		0
ETSPG001	ET	09/08/2010	outcrop		Phyllite	white	orange	fine	veined				0		0
ETSPG002	ET	09/08/2010	outcrop		Siltstone	greyish	brownish	fine					0		0
ETSPG003	ET	09/08/2010	outcrop		Siltstone	greyish	brownish	fine					0		0
ETSPG004	ET	10/08/2010	outcrop		artz Pebble Conglome	white	greyish	nedium-coarse					0		0
ETSPG005	ET	10/08/2010	outcrop		Skarn	green	rusty	medium					0		0
ETSPG006	ET	10/08/2010	outcrop		Skarn	greenish	rusty	nedium-coarse					0		0
ETSPG007	ET	10/08/2010	outcrop		Skarn	greenish	dark grey	nedium-coarse					0		0
ETSPG008	ET	10/08/2010	outcrop		Quartz Monzonite	white	grey	fine-medium					0		0
ETSPG009	ET	11/08/2010	outcrop		Shale	white	greyish	medium					0		0
ETSPG010	ET	12/08/2010	outcrop		Calc-silicate	greenish	brownish	medium					0		0
ETSPG011	ET	12/08/2010	outcrop		artz Pebble Conglome	white		nedium-coarse					0		0

Station Number	User	Date (dd/mm/yyyy)	Station Type	Map Unit	Rock Type	Colour	Colour Weathered	Grain size	Texture	Mineralization	Mineralization Minor	Min. Style	Min. %	Alteration	Alt. Degree
LJSPG001	LJ	09/08/2010	float		Meta-siltstone	light grey	rusty	fine					0		0
LJSPG002	LJ	09/08/2010	outcrop		artz Pebble Conglome	grey	dark grey	fine-medium					0		0
LJSPG003	LJ	09/08/2010	outcrop		Siltstone	light grey	grey	very fine	bedded				0		0
LJSPG004	LJ	09/08/2010	outcrop		Siltstone	grey	dark grey	fine-medium					0		0
LJSPG005	LJ	09/08/2010	outcrop		Carbonate	light grey	greyish	fine	veined				0		0
LJSPG006	LJ	09/08/2010	outcrop		Phyllite	bluish	brownish	fine					0		0
LJSPG007	LJ	11/08/2010	outcrop		Phyllite	greyish	brownish	fine					0		0
LJSPG008	LJ	12/08/2010	outcrop		Calc-silicate	greenish	brownish	nedium-coarse	equigranular				0		0
LJSPG009	LJ	13/08/2010	outcrop		artz Pebble Conglome	light grey	brownish	fine-medium					0		0
LJSPG010	LJ	13/08/2010	outcrop		artz Pebble Conglome	light	brownish	pebble					0		0
LJSPG011	LJ	14/08/2010	outcrop		artz Pebble Conglome	light grey	brownish	pebble					0		0
LJSPG012	LJ	16/08/2010	outcrop		Skarn	greenish		fine-medium	aphanitic				0		0
LJSPG013	LJ	16/08/2010	outcrop		Phyllite	greyish	light grey	fine					0		0
LJSPG014	LJ	16/08/2010	outcrop		Skarn	greenish	light grey	fine					0		0
LJSPG015	LJ	17/08/2010	outcrop		Granodiorite	salt and pepper	grey	nedium-coarse	equigranular				0		0
LJSPG016	LJ	17/08/2010	outcrop		Conglomerate	dark	dark grey	pebble	lineated				0		0
LJSPG017	LJ	17/08/2010	outcrop		Conglomerate	greyish	dark grey	nedium-coarse					0		0
LJSPG018	LJ	18/08/2010	outcrop		Sandstone	dark grey	greyish	fine					0		0
LJSPG019	LJ	18/08/2010	outcrop		Sandstone	light	greyish	fine					0		0
LJSPG020	LJ	18/08/2010	outcrop		Skarn	greenish	dark grey	fine-medium					0		0
LJSPG021	LJ	18/08/2010	outcrop		Granodiorite	salt and pepper	greyish	nedium-coarse	equigranular				0		0
LJSPG022	LJ	18/08/2010	outcrop		artz Pebble Conglome	light grey	dark grey	pebble					0		0
LJSPG023	LJ	18/08/2010	outcrop		Phyllite	brown	brownish	fine	foliated				0		0
LJSPG024	LJ	18/08/2010	outcrop		Hornfels	bluish	grey	very fine					0		0
LJSPG025	LJ	18/08/2010	outcrop		Siltstone	bluish	brownish	fine					0		0
LJSPG026	LJ	18/08/2010	outcrop		Sandstone	light grey	dark grey	fine-medium					0		0
LJSPG027	LJ	18/08/2010	outcrop		Contact - Lithologic								0		0

Station Number	User	Date (dd/mm/yyyy)	Station Type	Map Unit	Rock Type	Colour	Colour Weathered	Grain size	Texture	Mineralization	Mineralization Minor	Min. Style	Min. %	Alteration	Alt. Degree
LJSPG028	LJ	18/08/2010	outcrop		Contact - Lithologic								0		0
LJSPG029	LJ	18/08/2010	outcrop		Phyllite	brownish	dark grey	fine	foliated				0		0
LJSPG030	LJ	18/08/2010	outcrop		Contact - Lithologic								0		0
LJSPG031	LJ	18/08/2010	outcrop		Contact - Lithologic								0		0
LJSPG032	LJ	18/08/2010	outcrop		Contact - Lithologic								0		0
LJSPG033	LJ	18/08/2010	outcrop		Contact - Lithologic								0		0
LJSPG034	LJ	18/08/2010	outcrop		Contact - Lithologic								0		0
LJSPG035	LJ	18/08/2010	outcrop		Contact - Lithologic								0		0
LJSPG036	LJ	18/08/2010	outcrop		Contact - Lithologic								0		0
LJSPG037	LJ	18/08/2010	outcrop		Sandstone	bluish	grey	fine-medium					0		0
LJSPG038	LJ	18/08/2010	outcrop		Sandstone	bluish	brownish	fine-medium					0		0
LJSPG039	LJ	18/08/2010	outcrop		Contact - Lithologic								0		0
LJSPG040	LJ	19/08/2010	outcrop		Siltstone	bluish	brownish	fine-medium	bedded				0		0
LJSPG041	LJ	19/08/2010	outcrop		Siltstone	bluish	brownish	fine-medium	bedded				0		0
LJSPG042	LJ	19/08/2010	outcrop		Siltstone	bluish	brownish	fine	bedded				0		0
LJSPG043	LJ	19/08/2010	outcrop		Siltstone	bluish	rusty	fine					0		0
LJSPG044	LJ	19/08/2010	outcrop		Siltstone	bluish	brownish	fine-medium					0		0
LJSPG045	LJ	20/08/2010	outcrop		Sandstone	light grey	brownish	fine	laminated				0		0
LJSPG046	LJ	21/08/2010	outcrop		artz Pebble Conglome	bluish	brownish	pebble					0		0
LJSPG047	LJ	21/08/2010	outcrop		artz Pebble Conglome	light grey	brownish	pebble					0		0

Appendix 6.3 - Structure

Station Number	Structure Name	Quality	Azimuth	Dip / Plunge	Comments
AHSPG001	compositional layering	GOOD	132	13	
AHSPG005	slickenline	MODERATE	300	8	
AHSPG007	fracture		280	80	
AHSPG010	shear plane	MODERATE	155	80	
AHSPG017	fault plane	MODERATE	198	40	Could be structure dyke is following
AHSPG031	joint	GOOD	154	81	
AHSPG031	joint	GOOD	12	44	
AHSPG034	crenulation cleavage	GOOD	40	58	
AHSPG041	dike	MODERATE	354	80	
BWSPG004	joint	GOOD	246	50	May be bedding
BWSPG006	slickenline	GOOD	30	22	
BWSPG009	joint	GOOD	25	60	Major jointing direction
BWSPG016	bedding	GOOD	276	30	
BWSPG018	joint	GOOD	220	60	Maybe bedding?
BWSPG024	joint	GOOD	230	70	
BWSPG026	bedding	GOOD	130	30	bedding undulating somewhat, crenulation cleavage seen
BWSPG028	cleavage	MODERATE	80	15	
BWSPG028	bedding	GOOD	130	30	
BWSPG030	cleavage	MODERATE	100	20	
BWSPG030	bedding	GOOD	120	40	
BWSPG031	contact - lithologic	MODERATE	80	50	Tricky angle to reach, rock crumbly
BWSPG034	bedding	GOOD	305	30	Dipping opposide to creek west
BWSPG035	bedding	MODERATE	120	40	
BWSPG036	bedding	MODERATE	110	25	
BWSPG037	joint	GOOD	20	80	
BWSPG038	bedding	POOR	270	15	Just general observation that bedding is dipping north - NO measurement available. West of saddle bedding dips south
BWSPG040	bedding	MODERATE	260	20	
BWSPG040	joint	GOOD	350	80	Major lineation direction
BWSPG040	slickenline	GOOD	5	80	
BWSPG045	cleavage	GOOD	110	80	
BWSPG049	joint	GOOD	185	75	Dominant lineation, also vein direction
BWSPG050	joint	GOOD	200	75	Major lineation direction
BWSPG053	contact - lithologic	MODERATE	350	70	Dyke/skarn contact
BWSPG058	bedding	MODERATE	340	35	Mud layer in QPC

Station Number	Structure Name	Quality	Azimuth	Dip / Plunge	Comments
BWSPG062	bedding	GOOD	320	35	Shale partings
BWSPG063	cleavage	GOOD	320	40	
LJSPG011	slickenline	MODERATE	221	70	Sllicen slides found on fracture surface between QPC and massive sulphide.
LJSPG012	bedding	MODERATE	240	31	Orentation of skarn altered bed in sediment package
LJSPG018	joint	GOOD	271	41	Main jointing plane in sandstone
LJSPG029	cleavage	GOOD	341	49	Possible bedding is paraellel to cleavage
LJSPG031	bedding	GOOD	152	58	Orentation of phyllite bed
LJSPG040	compositional layering	GOOD	114	10	Compostional layering vould be parallel to bedding
LJSPG041	bedding	GOOD	108	11	
LJSPG042	compositional layering	GOOD	122	29	

Appendix VII – Geophysical Report by Aeroquest Geophysics

Report on a Helicopter-Borne AeroTEM System Electromagnetic & Magnetic Survey



Aeroquest Job # 10048

Sprogge, Dragon Lake & Kiwi Blocks

Ross River, Yukon
NTS 105H09, 105J11, J12

For

TerraLogic Exploration Inc.

by

7687 Bath Road,
Mississauga, ON, L4T 3T1
Tel: (905) 672-9129
Fax: (905) 672-7083
www.aeroquest.ca

Report date: September 2010

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Cranbrook, BC V1C 2R7

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TABLE OF CONTENTS

TABLE OF CONTENTS i
LIST OF FIGURES 2
LIST OF MAPS (1:10,000) 2
1. INTRODUCTION 3
2. SURVEY AREA 3
3. SURVEY SPECIFICATIONS AND PROCEDURES 4
3.1. Navigation 4
3.2. System Drift 4
3.3. Field QA/QC Procedures 5
4. AIRCRAFT AND EQUIPMENT 5
4.1. Aircraft 5
4.2. Magnetometer 5
4.3. Magnetometer II 6
4.4. Electromagnetic System 6
4.5. AeroDAS Acquisition System 7
4.6. Magnetometer Base Station 9
4.7. Radar Altimeter 10
4.8. Video Tracking and Recording System 10
4.9. GPS Navigation System 10
4.10. Digital Acquisition System 11
5. PERSONNEL 11
6. DELIVERABLES 11
6.1. Hardcopy Deliverables 11
6.2. Digital Deliverables 11
6.2.1. Final Database of Survey Data (.GDB) 11
6.2.2. Geosoft Grid files (.GRD) 12
6.2.3. Digital Versions of Final Maps (.MAP, .PDF) 12
6.2.4. Google Earth Survey Navigation Files (.kmz) 12
6.2.5. Free Viewing Software (.EXE) 12
6.2.6. Digital Copy of this Document (.PDF) 12
7. DATA PROCESSING AND PRESENTATION 12
7.1. Base Map 12
7.2. Flight Path & Terrain Clearance 13
7.3. Electromagnetic Data 13
7.4. Magnetic Data 14
8. General Comments 14
8.1. Magnetic Response 14
8.2. EM Anomalies 14
APPENDIX 1: Survey Boundaries 17
APPENDIX 2: Description of Database Fields 18

APPENDIX 3: Anomaly Listing 19
APPENDIX 4: AeroTEM Design Considerations 42
APPENDIX 5: AeroTEM Instrumentation Specification Sheet 48

LIST OF FIGURES

Figure 1. Project survey blocks. 3
Figure 2. Helicopter of the type used during the survey 5
Figure 3. AeroTEM II EM bird. Arrow indicates the location of the second caesium magnetometer sensor. 6
Figure 4. The magnetometer bird (A) and AeroTEM II EM bird (B) 7
Figure 5. Schematic of Transmitter and Receiver waveforms 7
Figure 6. AeroTEM II Instrument Rack. 8
Figure 7. Digital video camera typical mounting location. 10
Figure 8.AeroTEM response to a 'thin' vertical conductor 15
Figure 9. AeroTEM response for a 'thick' vertical conductor. 15
Figure 10. AeroTEM response over a 'thin' dipping conductor. 16

LIST OF MAPS (1:10,000)

- MAGL – Coloured Total Magnetic Intensity lower sensor with line contours and EM anomaly picks.
- MAGU – Coloured Total Magnetic Intensity upper sensor with line contours and EM anomaly picks.
- ZOFF1 – AeroTEM Z1 Off-time with line contours and EM anomaly picks.
- EM – AeroTEM Off-Time profiles Z0 – Z10 and EM anomaly picks.

1. INTRODUCTION

This report describes a helicopter-borne geophysical survey carried out for TerraLogic Exploration Inc. over the Sprogge, Dragon Lake and Kiwi areas located near the Ross River, Yukon.

The principal geophysical sensor is Aeroquest's exclusive AeroTEM II (Echo) time domain helicopter electromagnetic system which is employed in conjunction with a high-sensitivity caesium vapour magnetometer. Ancillary equipment includes a real-time differential GPS navigation system, radar altimeter, video recorder, and a base station magnetometer. Full-waveform streaming EM data is recorded at 36,000 samples per second. The streaming data comprise the transmitted waveform, and the X component and Z component of the resultant field at the receivers. The streaming EM data along with ancillary data recorded with AeroDAS acquisition system.

The total survey coverage is 553 line-km, of which 517 line-km fell within the defined project areas (Appendix 1). The survey was made up of three blocks all flown at 100 metre line spacing in various flight directions (Table 1). The survey flying described in this report took place from June 19th-28th, 2010. This report describes the survey logistics, the data processing, presentation, and provides the specifications of the survey.

2. SURVEY AREA

The Dragon and Kiwi blocks are located approximately 80 km northeast and the Sprogge Block 230 km south east of Ross River, Yukon. The project is made up of three blocks, Sprogge, Dragon Lake and Kiwi (47 km²). The survey block boundary co-ordinates are tabulated in Appendix 1.

The base of survey operations and crew accommodation was at Ross River, Yukon.

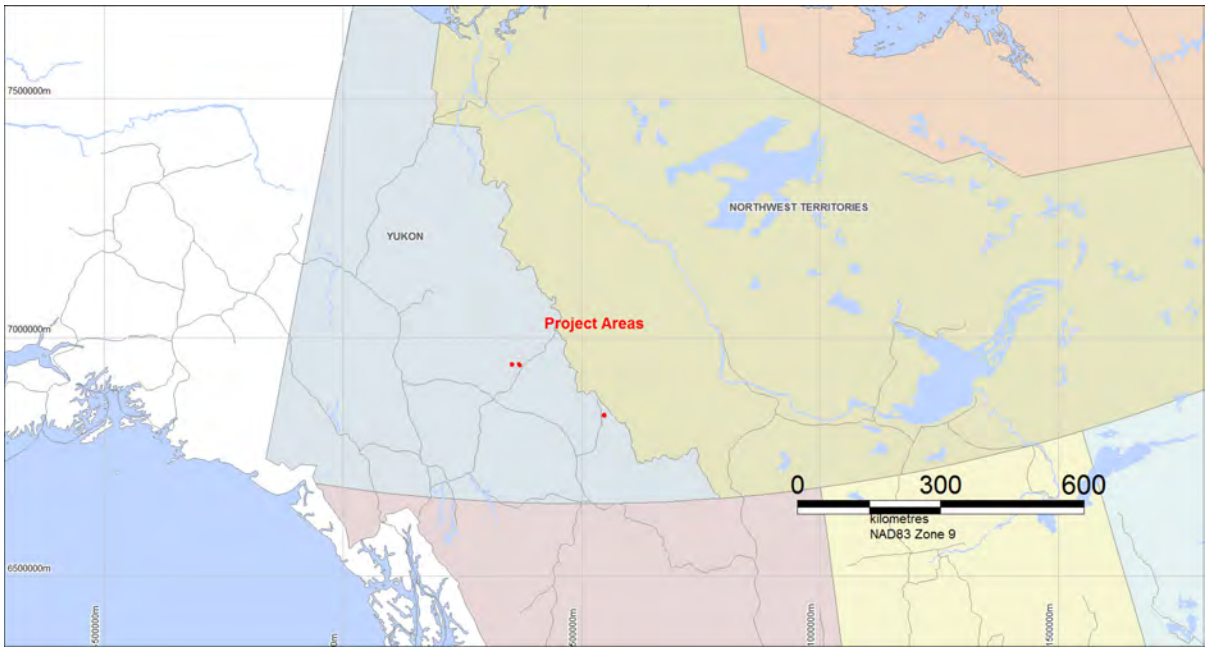


Figure 1. Project survey blocks.

3. SURVEY SPECIFICATIONS AND PROCEDURES

The survey specifications are summarised in the following table:

Blocks	Line/Tie Spacing (metres)	Line Direction	Survey Coverage (line-km)	Date flown
Sprogge	100/1000	60º/240º	227	June 23rd – 28th, 2010
Dragon Lake	100/1000	20º/200º	196	June 20th – 21st, 2010
Kiwi	100/1000	55º/235º	130	June 21st – 22nd, 2010

Table 1. Survey specifications summary

The survey coverage was calculated by adding up the along-line distance of the survey lines and control (tie) lines as presented in the final Geosoft database. The survey was flown with a line spacing of 100 metres. The control (tie) lines were flown perpendicular to the survey lines with a spacing of 1000 metres.

The nominal EM bird terrain clearance is 30 metres, but can be higher in more rugged terrain due to safety considerations and the capabilities of the aircraft. A magnetometer sensor is mounted in a smaller bird connected to the tow rope 18 metres above the EM bird and 18 metres below the helicopter (Figure 3). A second magnetometer is installed on the tail of the EM bird. Nominal survey speed over relatively flat terrain is 75 km/hr and is generally lower in rougher terrain. Scan rates for ancillary data acquisition is 0.1 second for the magnetometer and altimeter, and 0.2 second for the GPS determined position. The EM data is acquired as a data stream at a sampling rate of 36,000 samples per second and is processed to generate final data at 10 samples per second. The 10 samples per second translate to a geophysical reading about every 1.5 to 2.5 metres along the flight path.

3.1. NAVIGATION

Navigation is carried out using a GPS receiver, an AGNAV2 system for navigation control, and AeroDAS data acquisition system which records the GPS coordinates. The x-y-z position of the aircraft, as reported by the GPS, is recorded at 0.2 second intervals. The system has a published accuracy of less than 3 metres. A recent static ground test of the Mid-Tech WAAS GPS yielded a standard deviation in x and y of under 0.6 metres and for z under 1.5 metres over a two-hour period.

3.2. SYSTEM DRIFT

Unlike frequency domain electromagnetic systems, the AeroTEM II system has negligible drift due to thermal expansion. The operator is responsible for ensuring the instrument is properly warmed up prior to departure and that the instruments are operated properly throughout the flight. The operator maintains a detailed flight log during the survey noting the times of the flight and any unusual geophysical or topographic features. Each flight included at least two high elevation 'background' checks. During the high elevation checks, an internal 5 second wide calibration pulse in all EM channels was generated in order to ensure that the gain of the system remained constant and within specifications.

3.3. FIELD QA/QC PROCEDURES

On return of the pilot and operator to the base, usually after each flight, the AeroDAS streaming EM and ancillary (magnetic, GPS, radar altimeter) data are carried on removable hard drives and transferred to the data processing work station. At the end of each day, the base station magnetometer data on Flashcard is retrieved from the base station unit.

Data verification and quality control includes a comparison of the acquired GPS data with the flight plan; verification of both the magnetic towed bird (upper Mag) and EM bird (lower Mag) data; verification of the base station magnetometer data and conversion to ASCII format XYZ data; and loading, processing and conversion of the steaming EM data from the removable hard drive. All data is then merged to an ASCII XYZ format file which is then imported to an Oasis database for further QA/QC and for the production of preliminary EM, magnetic contour, and flight path maps.

Survey lines which show excessive deviation from the intended flight path are re-flown. Any line or portion of a line on which the data quality did not meet the contract specification was noted and reflown.

4. AIRCRAFT AND EQUIPMENT

4.1. AIRCRAFT

A Eurocopter (Aerospatiale) AS350B-3 "A-Star" helicopter - registration C-GSGK was used as survey platform. The helicopter was owned and operated by Guardian Helicopters Inc., Alberta. Installation of the geophysical and ancillary equipment was carried out by Aeroquest Limited personnel in conjunction with a licensed aircraft. The survey aircraft was flown at a nominal terrain clearance of 217 ft (66 metres).



Figure 2. Helicopter of the type used during the survey

4.2. MAGNETOMETER

The AeroTEM II airborne survey system employs the Geometrics G-823A caesium vapour magnetometer sensor installed in a two metre towed bird airfoil attached to the main tow line, 18 metres below the helicopter (Figure 4). The sensitivity of the magnetometer is 0.001

nanoTesla at a 0.1 second sampling rate. The nominal ground clearance of the magnetometer bird is 48 metres (158 ft.). The magnetic data is recorded at 10 Hz by the ADAS.

4.3. MAGNETOMETER II

In addition to the main magnetometer bird on the main tow line, the AeroTEM II system includes an additional G-823A magnetometer installed on the tail of the EM bird (Figure 3. AeroTEM II EM bird. Arrow indicates the location of the second caesium magnetometer sensor.). The sensor is located 36 metres below the helicopter and has a superior nominal terrain clearance of 30 m. Data is recorded at 300 samples a second and down sampled to 10 Hz by the AeroDAS acquisition system.



Figure 3. AeroTEM II EM bird. Arrow indicates the location of the second caesium magnetometer sensor.

4.4. ELECTROMAGNETIC SYSTEM

The electromagnetic system is an Aeroquest AeroTEM II time domain towed-bird system (Figure 3. AeroTEM II EM bird. Arrow indicates the location of the second caesium magnetometer sensor., Figure 4. The magnetometer bird (A) and AeroTEM II EM bird (B)). The current AeroTEM II transmitter dipole moment is 42.3 kNIA. The AeroTEM bird is towed 38 metres (125 ft) below the helicopter. More technical details of the system may be found in Appendix 5.

The wave-form is triangular with a symmetric transmitter on-time pulse of 1.10 ms and a base frequency of 150 Hz (Figure 5). The current alternates polarity every on-time pulse. During every Tx on-off cycle (300 per second), 120 contiguous channels of raw X and Z component (and a transmitter current monitor, itx) of the received waveform are measured. Each channel width is 27.78 microseconds starting at the beginning of the transmitter pulse. This 120 channel data is referred to as the raw streaming data. The AeroTEM system has two separate EM data recording streams, the newly designed AeroDAS system which records the full waveform (Figure 6).

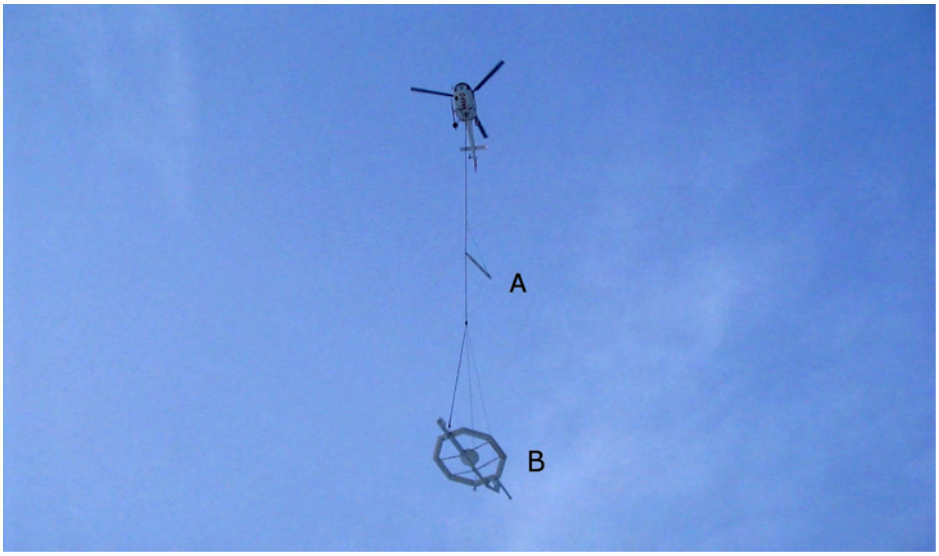


Figure 4. The magnetometer bird (A) and AeroTEM II EM bird (B)

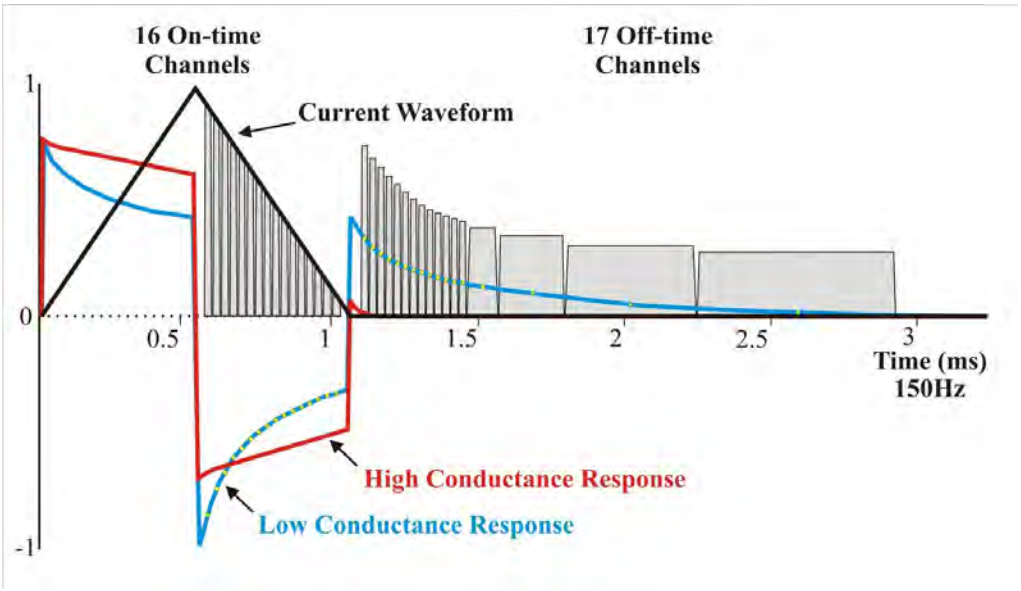


Figure 5. Schematic of Transmitter and Receiver waveforms

4.5. AERODAS ACQUISITION SYSTEM

The 120 channels of raw streaming data are recorded by the AeroDAS acquisition system (Figure 6) onto a removable hard drive. In addition the magnetic, altimeter and position data are also recorded in it, six channels of real time processed off-time EM decay in the Z direction and one in the X direction can be viewed on a color monitor on board, these channels are derived by a binning, stacking and filtering procedure on the raw streaming data.

The primary use of the displayed EM data (Z1 to Z6, X1), magnetic and altimeter is to provide for real-time QA/QC on board



Figure 6. AeroTEM II Instrument Rack.

The streaming data are processed post-survey to yield 33 stacked and binned on-time and off-time channels at a 10 Hz sample rate. The timing of the final processed EM channels is described in the following table:

Dragon Lake and Kiwi Blocks

```
Average TxOn       -3.7112 us
Average TxSwitch   582.4817 us
Average TxOff      1123.0983 us
Average TxPeak     262.2983 A

[Channel Data]
```

Channel	Sample Range	Time Width (us)	Time Center (us)	Time After TxOn (us)
On1	3 - 3	27.8	69.4	73.2
On2	4 - 4	27.8	97.2	100.9
On3	5 - 5	27.8	125.0	128.7
On4	6 - 6	27.8	152.8	156.5
On5	7 - 7	27.8	180.6	184.3
On6	8 - 8	27.8	208.3	212.0
On7	9 - 9	27.8	236.1	239.8
On8	10 - 10	27.8	263.9	267.6
On9	11 - 11	27.8	291.7	295.4
On10	12 - 12	27.8	319.4	323.2
On11	13 - 13	27.8	347.2	350.9
On12	14 - 14	27.8	375.0	378.7
On13	15 - 15	27.8	402.8	406.5
On14	16 - 16	27.8	430.6	434.3
On15	17 - 17	27.8	458.3	462.0
On16	18 - 18	27.8	486.1	489.8

Channel	Sample Range	Time Width (us)	Time Center (us)	Time After TxOff (us)
Off0	42 - 42	27.8	1152.8	29.7
Off1	43 - 43	27.8	1180.6	57.5
Off2	44 - 44	27.8	1208.3	85.2
Off3	45 - 45	27.8	1236.1	113.0
Off4	46 - 46	27.8	1263.9	140.8
Off5	47 - 47	27.8	1291.7	168.6
Off6	48 - 49	55.6	1333.3	210.2

Off7	50 - 51	55.6	1388.9	265.8
Off8	52 - 53	55.6	1444.4	321.3
Off9	54 - 55	55.6	1500.0	376.9
Off10	56 - 58	83.3	1569.4	446.3
Off11	59 - 61	83.3	1652.8	529.7
Off12	62 - 65	111.1	1750.0	626.9
Off13	66 - 71	166.7	1888.9	765.8
Off14	72 - 79	222.2	2083.3	960.2
Off15	80 - 92	361.1	2375.0	1251.9
Off16	93 - 113	583.3	2847.2	1724.1

Sprogge Block

Average TxOn 2.4376 us
Average TxSwitch 588.3991 us
Average TxOff 1128.5284 us
Average TxPeak 262.8313 A

[Channel Data]

Channel	Sample Range	Time Width (us)	Time Center (us)	Time After TxOn (us)
On1	3 - 3	27.8	69.4	67.0
On2	4 - 4	27.8	97.2	94.8
On3	5 - 5	27.8	125.0	122.6
On4	6 - 6	27.8	152.8	150.3
On5	7 - 7	27.8	180.6	178.1
On6	8 - 8	27.8	208.3	205.9
On7	9 - 9	27.8	236.1	233.7
On8	10 - 10	27.8	263.9	261.5
On9	11 - 11	27.8	291.7	289.2
On10	12 - 12	27.8	319.4	317.0
On11	13 - 13	27.8	347.2	344.8
On12	14 - 14	27.8	375.0	372.6
On13	15 - 15	27.8	402.8	400.3
On14	16 - 16	27.8	430.6	428.1
On15	17 - 17	27.8	458.3	455.9
On16	18 - 18	27.8	486.1	483.7

Channel	Sample Range	Time Width (us)	Time Center (us)	Time After TxOff (us)
Off0	43 - 43	27.8	1180.6	52.0
Off1	44 - 44	27.8	1208.3	79.8
Off2	45 - 45	27.8	1236.1	107.6
Off3	46 - 46	27.8	1263.9	135.4
Off4	47 - 47	27.8	1291.7	163.1
Off5	48 - 48	27.8	1319.4	190.9
Off6	49 - 50	55.6	1361.1	232.6
Off7	51 - 52	55.6	1416.7	288.1
Off8	53 - 54	55.6	1472.2	343.7
Off9	55 - 56	55.6	1527.8	399.2
Off10	57 - 59	83.3	1597.2	468.7
Off11	60 - 62	83.3	1680.6	552.0
Off12	63 - 66	111.1	1777.8	649.2
Off13	67 - 72	166.7	1916.7	788.1
Off14	73 - 80	222.2	2111.1	982.6
Off15	81 - 93	361.1	2402.8	1274.2
Off16	94 - 114	583.3	2875.0	1746.5

4.6. MAGNETOMETER BASE STATION

The base magnetometer was a Geometrics G-859 caesium vapour magnetometer system with integrated GPS. Data logging and UTC time synchronisation was carried out within the magnetometer, with the GPS providing the timing signal. The data logging was configured to measure at 1.0 second intervals. Digital recording resolution was 0.001 nT. The sensor was placed on a tripod in an area of low magnetic gradient and free of cultural noise sources. A continuously updated display of the base station values was available for viewing and regularly monitored to ensure acceptable data quality and diurnal variation.

4.7. RADAR ALTIMETER

A Terra TRA 3500/TRI-30 radar altimeter is used to record terrain clearance. The antenna was mounted on the outside of the helicopter beneath the cockpit. Therefore, the recorded data reflect the height of the helicopter above the ground. The Terra altimeter has an altitude accuracy of +/- 1.5 metres.

4.8. VIDEO TRACKING AND RECORDING SYSTEM

A high resolution digital colour 8 mm video camera is used to record the helicopter ground flight path along the survey lines. The video is digitally annotated with GPS position and time and can be used to verify ground positioning information and cultural causes of anomalous geophysical responses.



Figure 7. Digital video camera typical mounting location.

4.9. GPS NAVIGATION SYSTEM

The navigation system consists of an Ag-Nav Incorporated AG-NAV2 GPS navigation system comprising a PC-based acquisition system, navigation software, a deviation indicator in front of the aircraft pilot to direct the flight, a full screen display with controls in front of the operator, a Mid-Tech RX400p WAAS-enabled GPS receiver mounted on the instrument rack and an antenna mounted on the magnetometer bird. WAAS (Wide Area Augmentation System) consists of approximately 25 ground reference stations positioned across the United States that monitor GPS satellite data. Two master stations located on the east and west coasts collect data from the reference stations and create a GPS correction message. This correction accounts for GPS satellite orbit and clock drift plus signal delays caused by the atmosphere and ionosphere. The corrected differential message is then broadcast through one of two geostationary satellites, or satellites with a fixed position over the equator. The corrected position has a published accuracy of less than 3 metres.

Survey co-ordinates are set up prior to the survey and the information is fed into the airborne navigation system. The co-ordinate system employed in the survey design was WGS84 [World] using the UTM zone 09N projection. The real-time differentially corrected GPS positional data was recorded by AeroDAS system in geodetic coordinates (latitude and longitude using WGS84) at 0.2 s intervals.

4.10. DIGITAL ACQUISITION SYSTEM

The AeroTEM received waveform sampled during on and off-time at 120 channels per decay, 300 times per second, was logged by the proprietary AeroDAS data acquisition system. The channel sampling commences at the start of the Tx cycle and the width of each channel is 27.778 microseconds. In addition the positional and secondary geophysical data, (i.e. magnetic, radar altimeter, GPS position, and UTC time) was recorded on a removable hard-drive and later backed-up onto DVD-ROM from the field-processing computer.

5. PERSONNEL

The following Aeroquest personnel were involved in the project:

- Manager of Operations: Lee Harper
- Field Data Processor: Mihai Scentesy / Asif Mirza
- Field Operator: Amit Praharaj / Tom Szumigaj
- Data Processing and Reporting: Asif Mirza

The survey pilot, Mike Holcroft, was employed directly by the helicopter operator – Guardian Helicopters Inc.

6. DELIVERABLES

6.1. HARDCOPY DELIVERABLES

The report includes a set of 1:10,000 maps. The each survey area is covered by a single map plate and four geophysical data products are delivered as listed below:

- MAGL – Coloured Total Magnetic Intensity lower sensor with line contours and EM anomaly picks.
- MAGU – Coloured Total Magnetic Intensity upper sensor with line contours and EM anomaly picks.
- ZOFF0 – AeroTEM Z0 Off-time with line contours and EM anomaly picks.
- EM – AeroTEM Off-Time profiles Z0 – Z10 and EM anomaly picks.

The coordinate/projection system for the maps is NAD83 – UTM Zone 09N. For reference, the latitude and longitude in WGS84 are also noted on the maps.

All the maps show flight path trace, skeletal topography, and conductor picks represented by an anomaly symbol classified according to calculated off-time conductance. The anomaly symbol is accompanied by postings denoting the calculated off-time conductance, a thick or thin classification and an anomaly identifier label. The anomaly symbol legend and survey specifications are displayed on the left margin of the maps.

6.2. DIGITAL DELIVERABLES

6.2.1. Final Database of Survey Data (.GDB)

The geophysical profile data is archived digitally in a Geosoft GDB binary format database. A description of the contents of the individual channels in the database can be found in Appendix 2. A copy of this digital data is archived at the Aeroquest head office in Mississauga.

6.2.2. Geosoft Grid files (.GRD)

Levelled Grid products used to generate the geophysical map images. Cell size for all grid files is 25 metres.

- Total Magnetic Intensity from lower Mag sensor (magl_block.grd)
- Total Magnetic Intensity from upper Mag sensor (magu_block.grd)
- AeroTEM Z Offtime Channel 1 (z0-off_block.grd)
- Digital terrain Model (dtm_block.grd)

6.2.3. Digital Versions of Final Maps (.MAP, .PDF)

Map files in Geosoft .map and Adobe PDF format.

6.2.4. Google Earth Survey Navigation Files (.kmz)

Flight navigation lines, EM Profiles, EM culture picks, geophysical grids and contours in Google Earth .kmz format. Double click to view flight lines in Google Earth.

6.2.5. Free Viewing Software (.EXE)

- Geosoft Oasis Montaj Viewing Software
- Adobe Acrobat Reader
- Google Earth Viewer

6.2.6. Digital Copy of this Document (.PDF)

Adobe PDF format of this document.

7. DATA PROCESSING AND PRESENTATION

All in-field and post-field data processing was carried out using Aeroquest proprietary data processing software and Geosoft Oasis Montaj software. Maps were generated using 36-inch wide Hewlett Packard ink-jet plotters.

7.1. BASE MAP

The geophysical maps accompanying this report are based on positioning in the NAD83 datum. The survey geodetic GPS positions have been projected using the Universal Transverse Mercator projection in Zone 09 North. A summary of the map datum and projection specifications is given following:

- Ellipse: GRS 1980
- Ellipse major axis: 6378137m eccentricity: 0.081819191
- Datum: North American 1983 - Canada Mean
- Datum Shifts (x,y,z) : 0, 0, 0 metres
- Map Projection: Universal Transverse Mercator Zone 09 (129º W)
- Central Scale Factor: 0.9996
- False Easting, Northing: 500,000m, 0m

For reference, the latitude and longitude in WGS84 are also noted on the maps.

The background vector topography was sourced from Natural Resources Canada 1:50000 National Topographic Data Base data and the background shading were derived from NASA Shuttle Radar Topography Mission (SRTM) 90 metre resolution DEM data.

7.2. FLIGHT PATH & TERRAIN CLEARANCE

The position of the survey helicopter was directed by use of the Global Positioning System (GPS). Positions were updated five times per second (5 Hz) and expressed as WGS84 latitude and longitude calculated from the raw pseudo range derived from the C/A code signal. The instantaneous GPS flight path, after conversion to UTM co-ordinates, is drawn using linear interpolation between the x/y positions. The terrain clearance was maintained with reference to the radar altimeter. The raw Digital Terrain Model (DTM) was derived by taking the GPS survey elevation and subtracting the radar altimeter terrain clearance values. The calculated topography elevation values are relative and are not tied in to surveyed geodetic heights.

Each flight included at least two high elevation 'background' checks. These high elevation checks are to ensure that the gain of the system remained constant and within specifications.

7.3. ELECTROMAGNETIC DATA

The raw streaming data, sampled at a rate of 36,000 Hz (120 channels, 300 times per second) was reprocessed using a proprietary software algorithm developed and owned by Aeroquest Limited. Processing involves the compensation of the X and Z component data for the primary field waveform. Coefficients for this compensation for the system transient are determined and applied to the stream data. The stream data are then pre-filtered, stacked, binned to the 33 on and off-time channels and checked for the effectiveness of the compensation and stacking processes. The stacked data is then filtered, levelled and split up into the individual line segments. Further base level adjustments may be carried out at this stage. The filtering of the stacked data is designed to remove or minimize high frequency noise that cannot be sourced from the geology.

The final field processing step was to merge the processed EM data with the other data sets into a Geosoft GDB file. The EM fiducial is used to synchronize the two datasets. The processed channels are merged into 'array format; channels in the final Geosoft database as Zon, Zoff, Xon, and Xoff.

Apparent bedrock EM anomalies were interpreted with the aid of an auto-pick from positive peaks and troughs in the off-time Z channel responses correlated with X channel responses. The auto-picked anomalies were reviewed and edited by a geophysicist on a line by line basis to discriminate between thin and thick conductor types. Anomaly picks locations were migrated and removed as required. This process ensures the optimal representation of the conductor centres on the maps.

At each conductor pick, estimates of the off-time conductance have been generated based on a horizontal plate source model for those data points along the line where the response amplitude is sufficient to yield an acceptable estimate. Some of the EM anomaly picks do not display a Tau value; this is due to the inability to properly define the decay of the conductor usually because of low signal amplitudes. Each conductor pick was then classified according to a set of seven ranges of calculated off-time conductance values. For high conductance sources, the on-time conductance values may be used, since it provides a more accurate measure of high-conductance sources. Each symbol is also given an identification letter label, unique to each flight line. Conductor picks that did not yield an acceptable estimate of off-time conductance due to a low amplitude response were classified as a low conductance

source. Please refer to the anomaly symbol legend located in the margin of the maps. Although the auto- pick anomaly routine was run, no bedrock anomalies were identified.

7.4. MAGNETIC DATA

Prior to any levelling the magnetic data was subjected to a lag correction of -0.1 seconds and a spike removal filter. The filtered aeromagnetic data were then corrected for diurnal variations using the magnetic base station and the intersections of the tie lines. No corrections for the regional reference field (IGRF) were applied. The corrected profile data were interpolated on to a grid using a bi-directional grid technique with a grid cell size of 25 metres. The final levelled grid provided the basis for threading the presented contours which have a minimum contour interval of 5 nT.

8. GENERAL COMMENTS

The survey was successful in mapping the magnetic and conductive properties of the geology throughout the survey area. There was no interpreted bedrock anomalies identified within the EM data. Few anomalies have been identified which are coincident with manmade features and were given cultural symbol. Below is a brief interpretation of the results. For a detailed interpretation please contact Aeroquest Limited.

8.1. MAGNETIC RESPONSE

The magnetic data provide a high resolution map of the distribution of the magnetic mineral content of the survey area. This data can be used to interpret the location of geological contacts and other structural features such as faults and zones of magnetic alteration. The sources for anomalous magnetic responses are generally thought to be predominantly magnetite because of the relative abundance and strength of response (high magnetic susceptibility) of magnetite over other magnetic minerals such as pyrrhotite.

8.2. EM ANOMALIES

As a reference, typical EM anomalies are classified by conductance (as described earlier in the report) and also by the thickness of the source. A thin, vertically orientated source produces a double peak anomaly in the z-component response and a positive to negative crossover in the x-component response (Figure 8). For a vertically orientated thick source (say, greater than 10 metres), the response is a single peak in the z-component response and a negative to positive crossover in the x-component response (Figure 9). Because of these differing responses, the AeroTEM system provides discrimination of thin and thick sources and this distinction is indicated on the EM anomaly symbols (N = thin and K = thick). Where multiple, closely spaced conductive sources occur, or where the source has a shallow dip, it can be difficult to uniquely determine the type (thick vs. thin) of the source (Figure 10). In these cases both possible source types may be indicated by picking both thick and thin response styles. For shallow dipping conductors the ‘thin’ pick will be located over the edge of the source, whereas the ‘thick’ pick will fall over the downdip ‘heart’ of the anomaly.

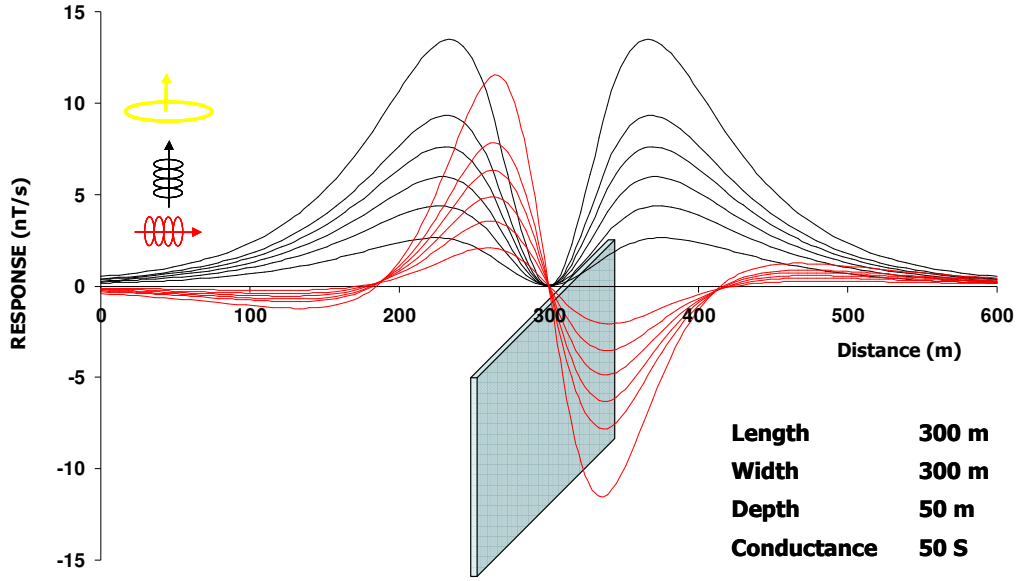


Figure 8.AeroTEM response to a 'thin' vertical conductor.

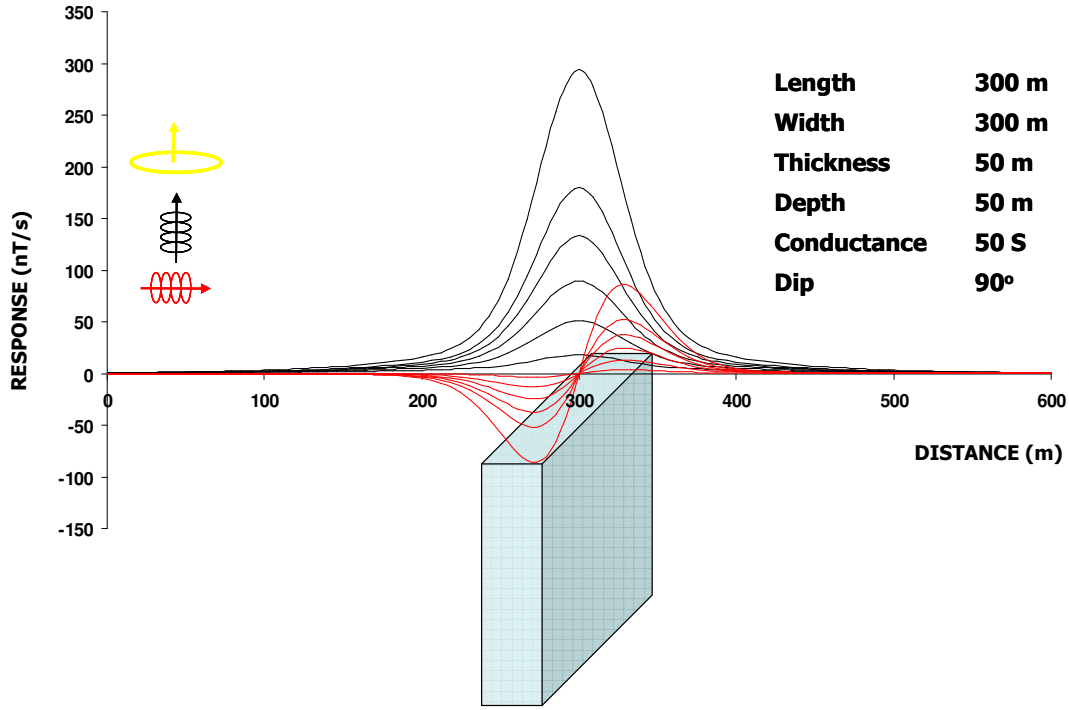


Figure 9. AeroTEM response for a 'thick' vertical conductor.

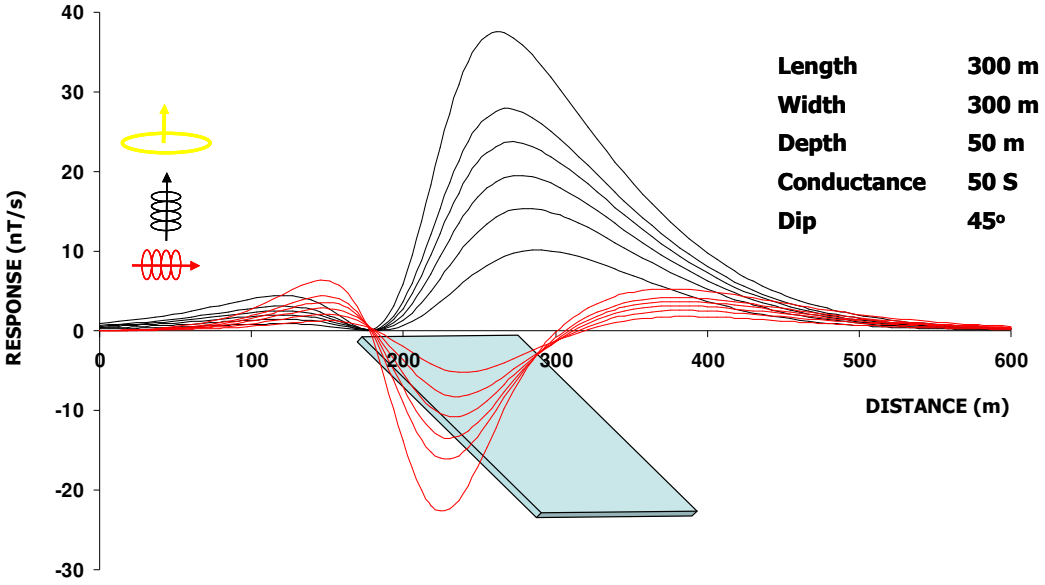


Figure 10. AeroTEM response over a 'thin' dipping conductor.

All cases should be considered when analyzing the interpreted picks and prioritizing for follow-up. Specific anomalous responses which remain as high priority should be subjected to numerical modeling prior to drill testing to determine the dip, depth and probable geometry of the source.

APPENDIX 1: SURVEY BOUNDARIES

The following table presents the survey blocks boundaries. All geophysical data presented in this report have been windowed to 100m outside the original outline. X and Y positions are in NAD83 UTM Zone 09N metres.

Sprogge Block

X	*Y*
544720.1	6838703.7
547316.9	6840205.9
548225.0	6839130.0
548584.4	6839090.9
548494.5	6838198.7
549856.4	6838045.0
549721.0	6836761.0
549832.6	6836594.4
550281.1	6835986.2
547685.9	6834481.2
547234.4	6835094.6
547034.0	6835209.0
545008.6	6835422.9
545221.6	6837192.6
545662.9	6837651.2

Dragon Lake Block

X	*Y*
366928.8	6943547.3
367954.3	6946366.5
372655.7	6942660.4
371629.3	6939841.5
367102.0	6943481.0

Kiwi Block

X	*Y*
351990.5	6944397.1
354477.8	6946074.4
356696.1	6943172.4
354213.7	6941487.8

APPENDIX 2: DESCRIPTION OF DATABASE FIELDS

The GDB file is a Geosoft binary database. In the database, the Survey lines and Tie Lines are prefixed with an "L" for "Line" and "T" for "Tie".

COLUMN	UNITS	DESCRIPTOR
Line		Line number
Flight		Flight #
emfid		AERODAS Fiducial
utctime	hh:mm:ss.ss	UTC time
X	m	UTM Easting (NAD83, Zone 09)
Y	m	UTM Northing (NAD83, Zone 09)
Galt	m	GPS elevation of magnetometer bird
Ralt	m	Helicopter radar altimeter (height above terrain)
bheight	m	Terrain clearance of EM bird
Dtm	m	Digital Terrain Model
Basemag	nT	Base station total magnetic intensity
magL	nT	Final levelled total magnetic intensity from lower magnetometer sensor (installed on the tail of the EM bird).
magU	nT	Final levelled total magnetic intensity from upper magnetometer sensor (installed on the tail of the mag bird).
Zon	nT/s	EM On-Time Z component Channels 1-16
Zoff	nT/s	EM Off-Time Z component Channels 0-16
Xon	nT/s	EM On-Time X component Channels 1-16
Xoff	nT/s	EM Off-Time X component Channels 0-16
pwrline		powerline monitor data channel
TranOff	s	Transmitter turn off time
TranOn	s	Transmitter turn on time
TranPeak	A	Transmitter peak current
TranSwitch	s	Transmitter peak current time
Off_pick		Anomaly pick channel
Grade		Classification from 1-7 based on conductance of conductor pick
Anom_Labels		Letter label of conductor pick (Unique per flight line)
Off_Con	S	Off-time conductance at conductor pick
Off_Tau	µs	Off-time decay constant at conductor pick
Anom_ID		EM Anomaly response style (K= thicK, N = thiN)
Off_AllCon	S	Off-time conductance
Off_AllTau	µs	Off-time decay constant

APPENDIX 3: ANOMALY LISTING

SPROGGE BLOCK

Line	Anom	ID	Cond (S)	Tau (µs)	Flight #	UTC Time	Bird height(m)	Easting(m)	Northing(m)
10010	A	K	9.8	313.6	10	21:48:34	60.0	545924.7	6839401.1
10010	B	K	13.4	366.2	10	21:48:55	41.0	546178.9	6839549.3
10020	A	K	11.4	337.1	14	19:18:22	56.6	545792.3	6839199.7
10020	B	K	12.4	352.5	14	19:18:31	52.8	545844.6	6839236.0
10020	C	K	11.3	336.2	14	19:18:44	38.5	545929.0	6839292.3
10020	D	K	1.3	116.0	14	19:19:40	44.4	546414.5	6839577.3
10030	A	K	4.2	203.7	14	19:26:11	34.2	546406.2	6839436.1
10030	B	K	13.6	368.2	14	19:26:39	36.8	546010.5	6839234.1
10030	C	N	21.2	460.8	14	19:26:42	32.2	545979.8	6839215.2
10030	D	K	21.2	460.8	14	19:26:45	31.8	545954.1	6839197.3
10030	E	K	10.6	325.9	14	19:27:02	38.3	545832.2	6839113.0
10040	A	K	28.2	531.0	14	19:32:18	67.5	545906.0	6839030.2
10040	B	K	19.1	436.9	14	19:32:28	56.1	546004.1	6839079.7
10040	C	K	11.4	337.4	14	19:32:35	49.4	546045.6	6839123.4
10040	D	N	4.6	215.2	14	19:33:14	47.9	546470.9	6839360.0
10040	E	K	4.6	215.2	14	19:33:23	48.7	546554.8	6839427.1
10051	B	K	9.1	301.7	27	21:08:11	36.6	546038.4	6838989.7
10051	C	K	19.6	442.9	27	21:08:19	46.5	545926.3	6838933.4
10060	A	K	2.3	150.6	14	19:53:56	55.8	545172.8	6838388.5
10060	B	K	20.5	452.4	14	19:55:52	58.4	546463.3	6839146.8
10060	C	K	0.1	31.0	14	19:56:48	36.4	546986.6	6839433.8
10070	A	K	0.1	26.5	14	20:00:57	28.5	547041.4	6839362.2
10070	B	K	6.8	261.0	14	20:01:45	29.0	546508.7	6839030.6
10070	C	K	25.6	506.0	14	20:02:36	26.0	545926.3	6838701.4
10070	D	K	13.1	361.2	14	20:02:50	42.6	545781.7	6838628.2
10070	E	K	0.6	79.9	14	20:04:32	44.5	545063.2	6838198.3
10080	A	K	3.2	179.3	14	20:05:52	42.8	545487.8	6838334.6
10080	B	K	19.0	435.4	14	20:06:34	45.0	545889.0	6838568.7
10080	C	N	0.9	96.0	14	20:07:29	39.5	546476.1	6838901.9
10080	D	K	0.9	96.0	14	20:07:38	39.7	546593.5	6838975.5
10080	E	K	0.1	24.7	14	20:08:23	32.9	547118.9	6839270.7
10090	A	N	2.2	147.2	14	20:12:17	37.5	546922.0	6839055.9
10090	B	N	2.2	147.2	14	20:13:03	31.4	546440.4	6838763.1
10090	C	N	2.2	147.2	14	20:13:13	27.5	546322.1	6838707.3
10090	D	K	2.2	147.2	14	20:14:13	32.5	545594.2	6838303.4
10090	E	K	2.7	165.5	14	20:14:28	31.7	545523.6	6838233.2

Line	Anom	ID	Cond (S)	Tau (µs)	Flight #	UTC Time	Bird height (m)	Easting (m)	Northing (m)
10090	F	K	0.9	96.2	14	20:14:54	44.4	545258.4	6838115.6
10100	A	K	0.1	22.4	14	20:21:12	27.6	547388.1	6839211.6
10100	B	K	0.6	75.7	14	20:21:46	31.6	547039.9	6839008.1
10100	C	K	2.4	156.3	14	20:22:49	42.4	546552.7	6838717.5
10100	D	K	9.7	311.2	14	20:24:09	38.5	545848.5	6838315.3
10100	E	N	9.7	311.2	14	20:24:14	34.3	545792.4	6838286.5
10100	F	K	0.9	97.1	14	20:25:01	36.9	545293.0	6837992.2
10110	A	K	1.1	103.0	14	20:25:48	41.8	545377.2	6837934.0
10110	B	K	5.1	226.6	14	20:26:20	37.8	545686.1	6838100.0
10110	C	K	10.8	328.4	14	20:26:42	35.2	545893.6	6838224.8
10110	D	K	1.0	101.0	14	20:28:41	64.1	546670.6	6838660.6
10110	E	K	0.4	61.6	14	20:28:58	46.0	546813.3	6838733.5
10110	F	K	0.3	57.2	14	20:29:30	60.9	547079.8	6838899.9
10110	G	K	0.5	68.7	14	20:29:40	46.2	547149.9	6838940.4
10110	H	N	0.1	23.5	14	20:30:06	45.2	547385.7	6839075.2
10110	I	K	0.1	23.5	14	20:30:12	33.8	547456.2	6839119.0
10120	A	K	0.1	33.8	14	20:32:40	34.4	547645.9	6839124.2
10120	B	N	0.7	82.4	14	20:32:55	39.4	547470.9	6839028.1
10120	C	K	0.7	82.4	14	20:33:04	31.9	547367.7	6838958.2
10120	D	K	0.7	84.2	14	20:34:48	42.9	546607.0	6838539.5
10120	E	K	10.6	325.9	14	20:36:40	26.4	545916.3	6838138.4
10120	F	N	10.6	325.9	14	20:36:48	30.0	545845.8	6838098.3
10120	G	K	7.8	278.7	14	20:36:58	40.3	545740.3	6838031.6
10120	H	K	4.9	221.9	14	20:37:11	42.2	545556.5	6837927.1
10120	I	K	1.4	116.8	14	20:37:30	32.4	545428.0	6837834.7
10130	A	K	2.5	156.5	15	21:35:00	27.5	545719.8	6837909.8
10130	B	K	1.6	125.3	15	21:35:10	32.8	545825.6	6837952.7
10130	C	K	1.4	116.6	15	21:35:20	39.8	545910.7	6837985.7
10130	D	K	0.2	39.6	15	21:37:46	67.9	546582.7	6838373.2
10130	E	K	0.1	35.9	15	21:38:06	58.0	546767.1	6838469.0
10130	F	K	0.0	18.1	15	21:39:30	41.6	547482.7	6838904.6
10130	G	N	0.1	27.0	15	21:39:38	30.4	547528.7	6838935.1
10130	H	K	0.1	27.0	15	21:39:43	27.9	547563.9	6838953.3
10140	A	K	0.1	28.4	15	21:42:33	38.0	547658.0	6838907.8
10140	B	K	0.2	43.2	15	21:43:40	34.4	547069.6	6838550.4
10140	C	K	0.8	91.3	15	21:46:36	30.5	545823.1	6837869.0
10140	D	K	0.7	85.8	15	21:46:51	31.0	545718.3	6837787.2
10140	E	N	0.3	57.4	15	21:47:02	35.9	545639.4	6837743.1
10140	F	K	0.3	57.4	15	21:47:13	35.4	545588.5	6837675.5

Line	Anom	ID	Cond (S)	Tau (µs)	Flight #	UTC Time	Bird height (m)	Easting (m)	Northing (m)
10150	A	N	0.4	59.0	15	21:48:24	44.6	545827.5	6837725.8
10150	B	K	0.4	59.0	15	21:48:32	32.4	545901.2	6837760.0
10150	C	K	0.2	40.0	15	21:52:04	61.1	547015.5	6838397.1
10150	D	K	0.2	41.0	15	21:52:18	81.2	547111.5	6838469.4
10150	E	N	0.1	30.9	15	21:53:10	46.7	547575.5	6838732.2
10150	F	K	0.1	30.9	15	21:53:21	39.4	547658.2	6838806.4
10160	A	K	0.1	28.0	15	21:57:59	27.8	547689.6	6838682.7
10160	B	K	0.3	57.8	15	21:58:38	23.1	547416.7	6838534.6
10160	C	K	0.4	64.4	15	21:58:57	18.7	547358.6	6838502.0
10160	D	K	0.3	56.4	15	21:59:55	44.0	547153.8	6838374.0
10160	E	K	0.4	66.6	15	22:03:07	28.5	545932.0	6837677.4
10160	F	N	0.5	72.4	15	22:03:17	23.4	545855.0	6837651.8
10160	G	K	0.5	72.4	15	22:03:22	23.7	545829.1	6837625.7
10160	H	K	26.4	514.0	15	22:04:03	28.2	545543.0	6837453.4
10160	I	K	1.0	101.0	15	22:04:58	68.3	545244.0	6837295.3
10170	A	K	0.6	80.1	15	22:05:58	84.6	545137.9	6837058.1
10170	B	K	0.1	35.7	15	22:06:27	23.8	545262.5	6837165.2
10170	C	K	0.4	64.6	15	22:06:47	22.4	545335.7	6837201.6
10170	D	K	0.4	64.6	15	22:08:24	43.6	546003.4	6837615.6
10170	E	N	0.4	64.6	15	22:09:26	31.5	546501.3	6837884.5
10170	F	N	0.4	64.6	15	22:09:40	27.5	546662.0	6837966.3
10170	G	K	0.2	47.2	15	22:10:58	68.9	547249.2	6838323.4
10170	H	K	0.1	36.0	15	22:12:12	42.3	547730.4	6838593.4
10180	A	K	0.3	52.6	15	22:18:23	31.9	547767.1	6838497.7
10180	B	N	0.3	52.6	15	22:18:29	33.0	547706.8	6838481.7
10180	C	K	0.2	38.9	15	22:20:22	41.2	546881.9	6837992.3
10180	D	K	0.2	47.9	15	22:20:35	42.3	546723.3	6837902.1
10180	E	K	0.7	85.5	15	22:21:43	35.1	545959.3	6837493.2
10180	F	K	0.3	53.3	15	22:22:33	38.6	545541.2	6837219.9
10180	G	K	0.2	41.3	15	22:22:55	61.8	545319.7	6837088.9
10180	H	K	0.3	50.6	15	22:23:13	54.6	545170.0	6837019.4
10190	A	K	0.1	28.2	15	22:29:16	47.4	545249.9	6836933.6
10190	B	K	0.0	21.2	15	22:30:02	27.8	545499.0	6837066.0
10190	C	K	0.1	29.3	15	22:30:20	24.2	545624.5	6837142.1
10190	D	K	0.2	40.4	15	22:30:54	38.8	546106.6	6837430.7
10190	E	K	0.1	25.9	15	22:32:04	21.8	546869.4	6837863.9
10200	A	K	0.1	28.3	15	22:39:48	38.3	547813.2	6838303.1
10200	B	K	0.1	37.8	15	22:40:42	20.4	547587.2	6838162.6
10200	C	K	0.2	40.4	15	22:41:36	45.4	547149.0	6837916.3

Line	Anom	ID	Cond (S)	Tau (µs)	Flight #	UTC Time	Bird height (m)	Easting (m)	Northing (m)
10200	D	K	0.8	88.9	15	22:42:52	36.3	546228.0	6837371.8
10200	E	K	0.6	77.5	15	22:43:14	33.2	545976.5	6837230.5
10200	F	K	0.1	37.9	15	22:43:34	31.0	545770.3	6837122.0
10200	G	K	0.1	37.1	15	22:44:17	25.4	545275.1	6836844.9
10210	A	K	0.2	39.9	15	22:46:40	25.0	545761.8	6836982.4
10210	B	N	0.8	88.9	15	22:47:07	47.1	546233.0	6837250.8
10210	C	K	0.8	88.9	15	22:47:15	39.4	546373.3	6837343.3
10210	D	K	0.2	39.2	15	22:48:06	25.2	547196.8	6837809.0
10210	E	K	0.2	48.4	15	22:49:13	37.6	547621.1	6838069.0
10220	A	K	0.3	57.4	15	22:54:39	65.7	547752.3	6838015.9
10220	B	K	1.3	111.8	15	22:55:30	40.2	547223.6	6837711.4
10220	C	K	0.8	89.5	15	22:56:27	34.6	546345.4	6837222.8
10220	D	K	0.7	81.1	15	22:56:49	36.8	546044.1	6837034.7
10220	E	K	0.4	66.6	15	22:57:05	28.7	545859.1	6836939.0
10230	A	K	0.5	68.7	16	19:02:22	54.0	545504.6	6836598.8
10230	B	K	0.4	60.3	16	19:03:10	44.4	546090.9	6836944.5
10230	C	N	1.0	99.8	16	19:03:26	37.8	546363.4	6837098.7
10230	D	K	1.0	99.8	16	19:03:31	39.1	546438.8	6837140.4
10231	A	K	0.8	88.6	16	19:14:52	74.6	547810.3	6837965.0
10231	B	K	5.8	240.8	16	19:15:54	40.0	547220.9	6837612.0
10231	C	K	2.9	170.0	16	19:16:41	32.7	546549.0	6837221.8
10231	D	K	4.6	215.5	16	19:16:49	32.0	546429.9	6837153.9
10240	A	K	0.9	93.4	16	19:18:57	57.2	545093.6	6836269.9
10240	B	K	1.4	119.0	16	19:21:05	39.0	546088.5	6836831.1
10240	C	K	3.0	174.2	16	19:21:42	40.6	546594.3	6837110.1
10240	D	K	2.2	147.4	16	19:21:59	41.3	546844.9	6837260.1
10240	E	K	8.9	298.4	16	19:23:00	83.4	547361.6	6837560.7
10250	A	K	33.7	580.8	16	19:30:12	73.3	547390.6	6837462.0
10250	B	K	1.9	136.3	16	19:32:16	41.8	545920.0	6836615.6
10250	C	K	0.4	60.8	16	19:34:15	50.3	545122.6	6836165.7
10260	A	K	3.2	178.4	16	19:35:23	54.5	545011.3	6835988.4
10260	B	K	3.0	172.5	16	19:35:45	56.5	545171.7	6836066.3
10260	C	K	1.9	139.4	16	19:37:22	61.2	545849.6	6836446.0
10260	D	K	12.0	346.5	16	19:39:41	33.4	547329.6	6837303.0
10270	A	K	46.3	680.8	16	19:50:33	34.7	547380.7	6837241.0
10270	B	K	3.3	180.6	16	19:53:07	53.0	545964.0	6836418.6
10270	C	K	1.5	120.6	16	19:54:27	35.8	545218.7	6836002.0
10280	A	K	0.6	79.9	16	19:55:46	53.9	544996.6	6835739.8
10280	B	K	0.6	77.7	16	19:57:24	67.0	545805.3	6836208.8

Line	Anom	ID	Cond (S)	Tau (µs)	Flight #	UTC Time	Bird height (m)	Easting (m)	Northing (m)
10280	C	K	2.8	166.4	16	20:00:46	54.0	547555.5	6837196.0
10290	A	K	0.3	56.8	16	20:09:38	56.2	548417.1	6837607.3
10290	B	K	11.6	340.9	16	20:10:43	31.0	547729.4	6837209.4
10290	C	K	15.0	387.5	16	20:10:59	20.3	547673.1	6837190.0
10290	D	K	2.1	145.5	16	20:11:29	54.8	547519.4	6837091.8
10290	E	K	1.0	97.9	16	20:14:55	70.0	545790.7	6836086.8
10290	F	K	0.9	94.3	16	20:16:25	53.3	545159.6	6835727.2
10300	A	K	0.9	95.6	16	20:17:40	84.1	545197.1	6835618.5
10300	B	K	0.4	62.4	16	20:18:44	62.1	545861.9	6836013.0
10300	C	K	9.7	311.0	16	20:21:14	30.3	547790.0	6837090.2
10300	D	K	8.3	288.1	16	20:21:31	49.1	547936.2	6837203.9
10300	E	K	0.2	44.8	16	20:22:20	42.0	548430.4	6837495.2
10310	A	K	6.3	250.1	16	20:30:02	44.6	547940.1	6837134.2
10310	B	N	6.3	250.1	16	20:30:12	47.0	547888.8	6837060.9
10310	C	K	2.5	159.5	16	20:30:25	47.2	547753.2	6836999.3
10310	D	K	0.2	44.5	16	20:33:24	41.2	545816.5	6835870.1
10310	E	K	0.2	45.7	16	20:35:03	53.0	544962.0	6835375.3
10320	B	K	10.6	325.5	17	21:26:46	37.8	548054.2	6837050.6
10320	C	K	1.3	112.0	17	21:27:25	51.2	548254.6	6837173.0
10320	D	K	1.7	129.5	17	21:28:01	54.5	548356.4	6837201.5
10330	A	K	2.6	162.1	17	21:38:29	36.0	548128.1	6836972.0
10330	B	K	1.4	117.8	17	21:39:33	38.2	547403.8	6836546.2
10330	C	K	0.7	83.5	17	21:40:46	53.8	546234.0	6835877.7
10341	A	K	0.5	68.6	17	21:48:54	59.8	546443.5	6835855.4
10341	B	K	6.2	249.0	17	21:50:19	48.4	547950.4	6836735.2
10341	C	K	2.9	170.4	17	21:50:48	37.0	548415.8	6837025.5
10350	A	K	0.9	93.6	10	22:02:52	63.4	548486.9	6836953.6
10350	B	K	1.1	106.0	10	22:03:04	44.5	548354.8	6836857.7
10350	C	K	1.0	98.4	10	22:03:21	41.1	548147.6	6836766.4
10350	D	K	1.0	100.2	10	22:03:47	41.6	547770.7	6836546.8
10350	E	K	0.8	91.9	10	22:04:09	37.9	547527.7	6836385.9
10350	F	K	0.3	55.9	10	22:05:51	44.2	546537.1	6835836.4
10360	A	K	0.9	92.7	10	22:11:07	30.6	546654.2	6835778.3
10360	B	K	0.2	49.0	10	22:12:22	32.5	547778.4	6836426.9
10360	C	K	0.5	73.1	10	22:12:35	30.2	548012.3	6836563.0
10360	D	K	0.7	80.7	10	22:13:03	40.5	548514.0	6836847.4
10370	A	K	1.7	132.1	17	21:59:05	47.2	548844.9	6836929.5
10370	B	K	1.4	117.3	17	21:59:27	20.7	548577.6	6836782.5
10370	C	K	2.2	148.3	17	21:59:46	43.3	548343.7	6836633.9

Line	Anom	ID	Cond (S)	Tau (µs)	Flight #	UTC Time	Bird height (m)	Easting (m)	Northing (m)
10370	D	K	1.6	126.8	17	22:00:07	40.8	547968.3	6836415.4
10370	E	K	1.9	137.6	17	22:00:20	32.8	547691.0	6836264.3
10370	F	K	0.2	38.5	17	22:00:54	62.2	547006.8	6835870.6
10380	A	K	0.8	88.4	17	22:04:17	32.3	547699.7	6836150.3
10380	B	K	1.3	111.9	17	22:04:33	25.6	548110.7	6836384.0
10380	C	K	1.4	118.6	17	22:04:50	38.3	548529.4	6836626.4
10390	A	K	0.7	85.5	17	22:09:55	61.5	549078.9	6836816.7
10390	B	K	0.7	83.5	17	22:10:13	31.3	548790.4	6836669.3
10390	C	K	1.4	117.1	17	22:10:25	29.4	548585.6	6836539.9
10390	D	K	1.5	120.4	17	22:10:35	26.3	548406.8	6836445.2
10390	E	K	0.7	85.5	17	22:11:03	30.4	547935.1	6836169.8
10390	F	K	1.8	135.3	17	22:11:14	34.7	547689.6	6836031.0
10390	G	K	0.2	46.0	17	22:11:26	53.7	547387.6	6835852.3
10390	H	K	0.2	42.7	17	22:11:58	55.8	546711.7	6835470.9
10400	A	K	0.6	75.8	17	22:14:36	53.4	548006.1	6836111.1
10400	B	K	1.1	102.5	17	22:15:22	67.8	548670.9	6836480.7
10400	C	K	0.8	88.9	17	22:15:51	38.1	549186.9	6836759.9
10410	A	K	1.9	137.0	17	22:24:34	30.7	549191.5	6836663.4
10410	B	K	1.4	119.9	17	22:25:15	49.0	548702.2	6836385.0
10410	C	K	0.6	79.6	17	22:26:45	40.5	547753.4	6835817.1
10420	A	K	0.2	43.1	17	22:29:33	83.3	547562.0	6835615.8
10420	B	K	0.6	74.0	17	22:29:39	68.3	547650.3	6835675.1
10420	C	K	0.7	82.4	17	22:29:46	67.2	547768.8	6835743.7
10420	D	K	1.4	118.1	17	22:31:10	50.5	548854.6	6836355.8
10420	E	K	1.4	118.3	17	22:31:31	54.6	549249.5	6836580.2
10420	F	K	0.6	73.9	17	22:31:44	48.8	549444.7	6836676.8
10430	A	K	0.5	70.7	17	22:33:33	44.1	549525.0	6836640.0
10430	B	K	3.3	182.5	17	22:33:53	33.1	549356.4	6836548.8
10430	C	K	1.5	121.8	17	22:34:17	44.4	549103.6	6836379.5
10430	D	K	1.7	128.5	17	22:34:31	35.6	548854.2	6836235.0
10430	E	K	0.9	92.8	17	22:35:53	55.0	547695.6	6835584.0
10440	A	K	0.7	81.3	17	22:39:55	80.0	548333.5	6835818.9
10440	B	K	1.1	105.7	17	22:40:10	44.2	548540.1	6835898.5
10440	C	K	0.5	70.1	17	22:40:41	37.2	548917.3	6836149.8
10440	D	K	0.5	73.3	17	22:41:12	58.8	549487.5	6836488.0
10450	A	K	0.4	64.4	17	22:43:05	38.2	549506.8	6836390.4
10450	B	K	0.4	61.9	17	22:43:42	35.4	548976.6	6836095.0
10460	A	K	1.0	98.9	27	20:16:33	95.9	548497.4	6835676.0
10460	B	K	1.3	115.7	27	20:17:24	67.9	549168.7	6836081.7

Line	Anom	ID	Cond (S)	Tau (µs)	Flight #	UTC Time	Bird height (m)	Easting (m)	Northing (m)
10460	C	K	1.9	138.1	27	20:17:32	45.5	549285.8	6836145.6
10460	D	K	0.5	68.8	27	20:18:09	70.3	549828.8	6836459.6
10470	A	K	1.3	114.6	27	20:19:32	57.9	549882.8	6836366.1
10470	B	K	1.2	109.3	27	20:19:40	34.5	549837.5	6836342.8
10470	C	K	3.6	188.6	27	20:20:36	44.1	549350.6	6836051.7
10470	D	K	3.2	179.8	27	20:20:50	46.7	549182.8	6835977.9
10470	E	K	1.1	104.1	27	20:21:03	46.9	549032.5	6835882.7
10480	A	K	2.2	149.3	27	20:27:35	54.3	549381.6	6835976.4
10480	B	K	5.7	238.1	27	20:28:04	61.5	549897.9	6836255.6
10490	A	K	3.9	197.2	27	20:29:35	40.6	550008.2	6836219.0
10490	B	K	4.8	219.7	27	20:30:51	40.3	549435.5	6835899.1
10500	A	K	1.5	120.9	27	20:37:44	38.4	549172.5	6835612.0
10500	B	K	1.3	111.8	27	20:38:57	63.2	550010.2	6836103.8
10510	A	K	2.7	163.0	27	20:40:27	69.5	550117.4	6836051.6
10510	B	K	3.2	178.8	27	20:40:35	52.5	550030.5	6836008.3
10510	C	K	0.6	76.8	27	20:41:39	27.3	549447.6	6835669.1
10520	A	K	8.6	293.0	27	20:46:24	71.7	548188.6	6834803.7
10520	B	K	4.2	205.7	27	20:46:47	55.1	548473.6	6834976.1
10520	C	K	1.3	114.4	27	20:49:03	65.2	550086.8	6835915.6
10520	D	K	1.0	97.8	27	20:49:15	60.6	550235.7	6835994.2
19020	A	K	0.8	87.3	9	19:53:10	49.7	546103.3	6836997.2
19020	B	K	1.0	99.1	9	19:54:37	72.6	545689.4	6837705.5
19020	C	K	2.2	148.0	9	19:55:15	40.4	545381.3	6838265.3
19031	A	K	8.0	282.7	27	20:58:30	35.8	547135.8	6837244.8
19031	B	K	16.7	408.9	27	21:02:21	53.7	546025.6	6839136.9
19031	D	N	11.2	334.6	27	21:02:28	45.8	545962.0	6839236.6
19031	F	K	11.2	334.6	27	21:02:33	47.8	545921.6	6839302.0
19040	A	K	0.9	95.5	8	19:08:45	47.2	548902.0	6836165.3
19040	B	K	1.2	110.0	8	19:09:40	52.0	548321.6	6837173.1
19050	A	K	0.4	60.0	6	18:40:22	38.8	549931.1	6836368.1

DRAGON LAKE BLOCK

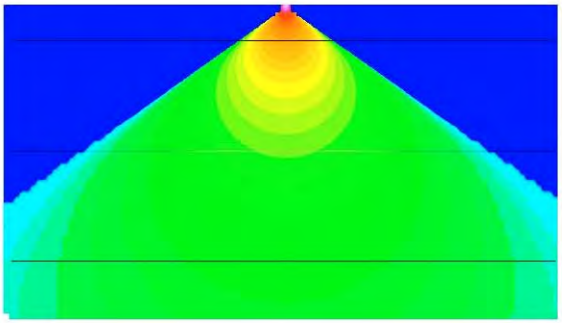
Line	Anom	ID	Cond (S)	Tau (µs)	Flight #	UTC Time	Bird height (m)	Easting (m)	Northing (m)
20010	A	N	0.6	70.1	3	23:45:43	26.6	368024.9	6946348.9
20010	B	K	0.4	61.2	3	23:45:48	24.3	367995.6	6946254.9
20010	C	K	0.3	50.3	3	23:46:26	38.1	367722.3	6945453.2
20010	D	K	0.3	53.8	3	23:47:53	41.9	367088.4	6943701.7
20010	E	K	1.7	129.7	3	23:48:04	34.4	367008.1	6943494.8

APPENDIX 4: AEROTEM DESIGN CONSIDERATIONS

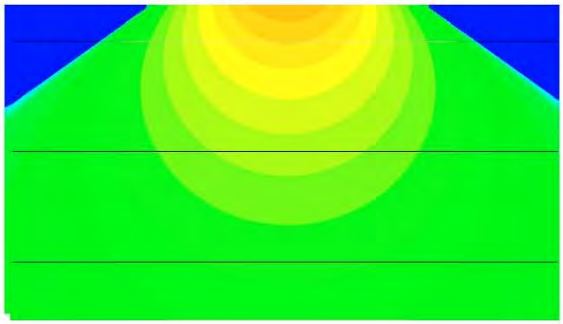
Helicopter-borne EM systems offer an advantage that cannot be matched from a fixed-wing platform. The ability to fly at slower speed and collect data with high spatial resolution, and with great accuracy, means the helicopter EM systems provide more detail than any other EM configuration, airborne or ground-based. Spatial resolution is especially important in areas of complex geology and in the search for discrete conductors. With the advent of helicopter-borne high-moment time domain EM systems the fixed wing platforms are losing their *only* advantage – depth penetration.

Advantage 1 – Spatial Resolution

The AeroTEM system is specifically designed to have a small footprint. This is accomplished through the use of concentric transmitter-receiver coils and a relatively small diameter transmitter coil (5 m). The result is a highly focused exploration footprint, which allows for more accurate "mapping" of discrete conductors. Consider the transmitter primary field images shown in Figure 1, for AeroTEM versus a fixed-wing transmitter.



The footprint of AeroTEM at the earth's surface is roughly 50m on either side of transmitter



The footprint of a fixed-wing system is roughly 150 m on either side of the transmitter

Figure 1. A comparison of the footprint between AeroTEM and a fixed-wing system, highlights the greater resolution that is achievable with a transmitter located closer to the earth's surface. The AeroTEM footprint is one third that of a fixed-wing system and is symmetric, while the fixed-wing system has even lower spatial resolution along the flight line because of the separated transmitter and receiver configuration.

At first glance one may want to believe that a transmitter footprint that is distributed more evenly over a larger area is of benefit in mineral exploration. In fact, the opposite is true; by energizing a larger surface area, the ability to energize and detect discrete conductors is reduced. Consider, for example, a comparison between AeroTEM and a fixed-wing system over the Mesamax Deposit (1,450,000 tonnes of 2.1% Ni, 2.7% Cu, 5.2 g/t Pt/Pd). In a test survey over three flight lines spaced 100 m apart, AeroTEM detected the Deposit on all three flight lines. The fixed-wing system detected the Deposit only on two flight lines. In exploration programs that seek to expand the flight line spacing in an effort to reduce the cost of the airborne survey, discrete conductors such as the Mesamax Deposit can go undetected. The argument often put forward in favour of using fixed-wing systems is that because of their larger footprint, the flight line spacing can indeed be widened. Many fixed-wing surveys are flown at 200 m or 400 m. Much of the survey work performed by Aeroquest has been to survey in areas that were previously flown at these wider line spacings. One of the reasons for AeroTEM's impressive discovery record has been the strategy of flying closely spaced lines and finding all the discrete near-surface conductors. These higher resolution surveys are being flown within existing mining camps, areas that improve the chances of discovery.

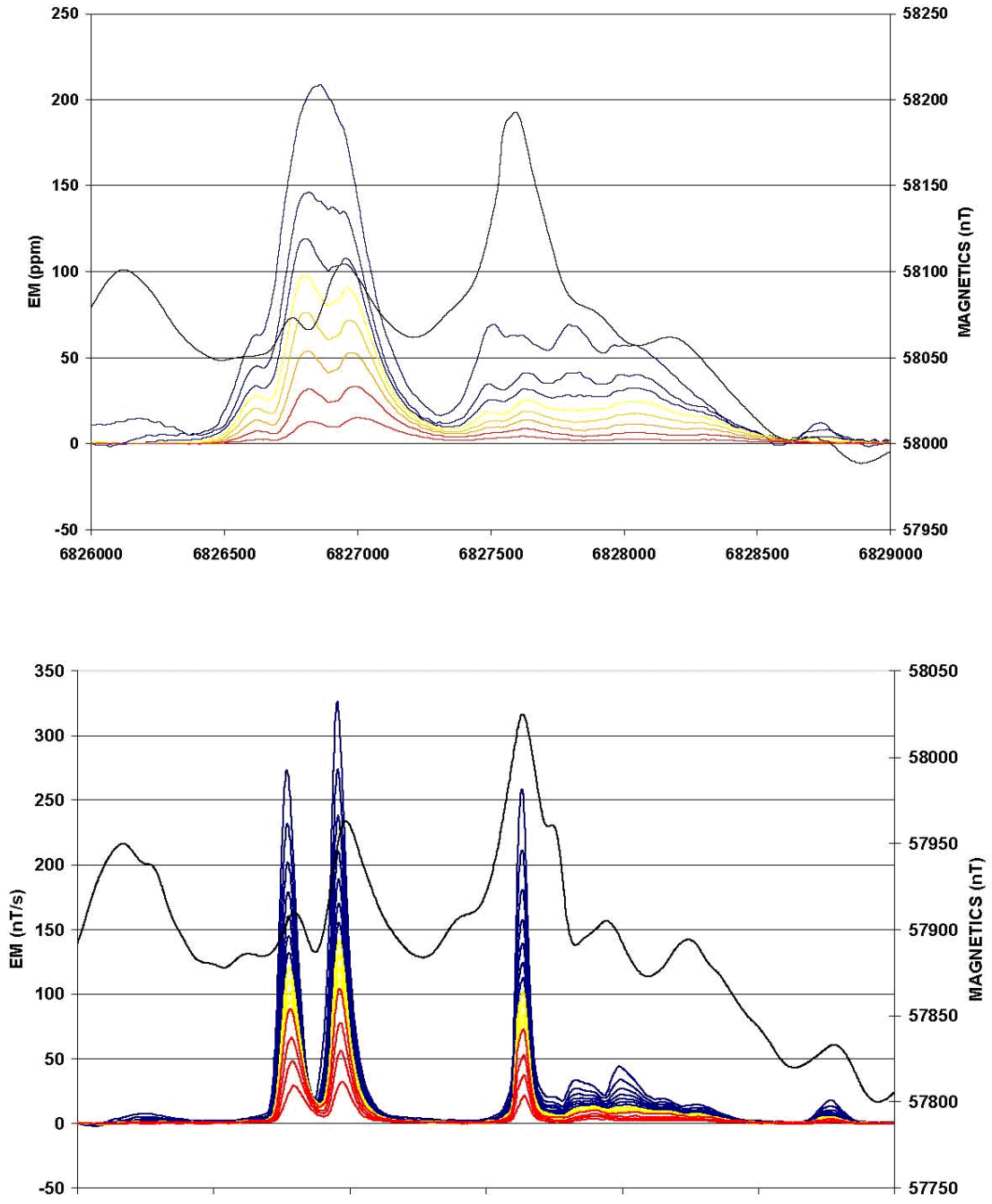


Figure 2. Fixed-wing (upper) and AeroTEM (lower) comparison over the eastern limit of the Mesamax Deposit, a Ni-Cu-PGE zone located in the Raglan nickel belt and owned by Canadian Royalties. Both systems detected the Deposit further to the west where it is closer to surface.

The small footprint of AeroTEM combined with the high signal to noise ratio (S/N) makes the system more suitable to surveying in areas where local infrastructure produces electromagnetic noise, such as power lines and railways. In 2002 Aeroquest flew four exploration properties in the Sudbury Basin that were under option by FNX Mining Company Inc. from Inco Limited. One such property, the Victoria Property, contained three major power line corridors.

The resulting AeroTEM survey identified all the known zones of Ni-Cu-PGE mineralization, and detected a response between two of the major power line corridors but in an area of favorable geology. Three boreholes were drilled to test the anomaly, and all three intersected sulphide. The third borehole encountered 1.3% Ni, 6.7% Cu, and 13.3 g/t TPMs over 42.3 ft. The mineralization was subsequently named the Powerline Deposit.

The success of AeroTEM in Sudbury highlights the advantage of having a system with a small footprint, but also one with a high S/N. This latter advantage is achieved through a combination of a high-moment (high signal) transmitter and a rigid geometry (low noise). Figure 3 shows the Powerline Deposit response and the response from the power line corridor at full scale. The width of power line response is less than 75 m.

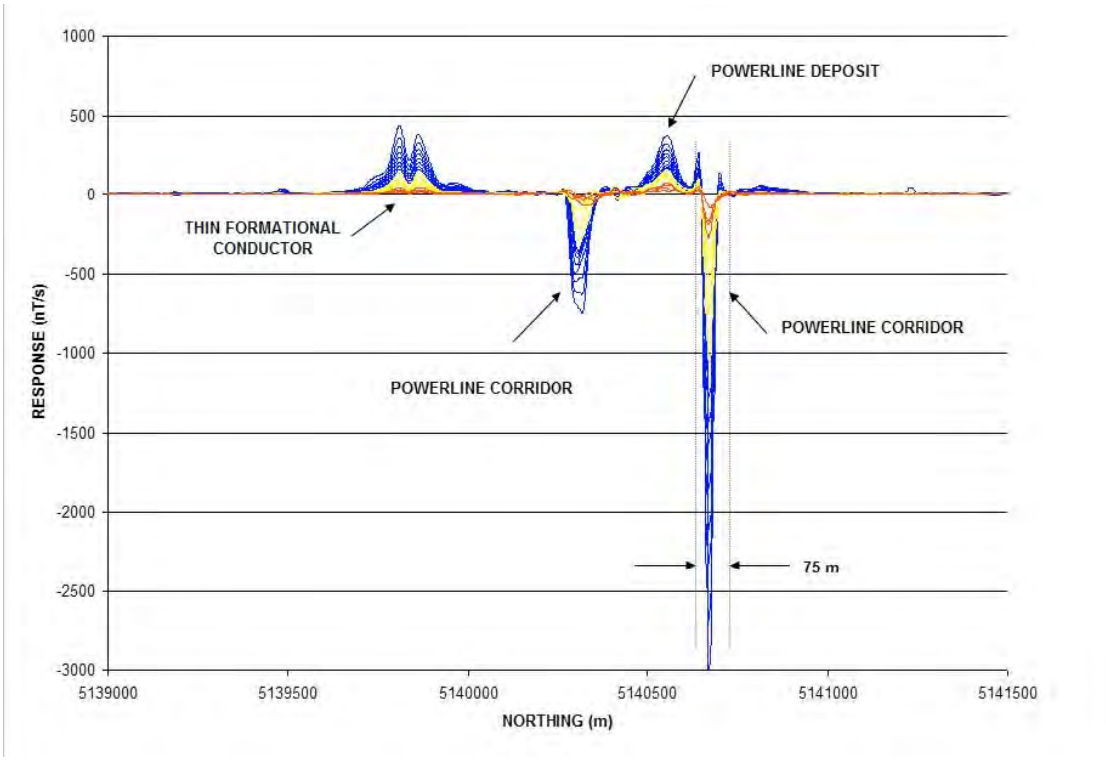


Figure 3. The Powerline Deposit is located between two major power line corridors, which make EM surveying problematic. Despite the strong response from the power line, the anomaly from the Deposit is clearly detected. Note the thin formational conductor located to the south. The only way to distinguish this response from that of two closely spaced conductors is by interpreting the X-axis coil response.

Advantage 2 – Conductance Discrimination

The AeroTEM system features full waveform recording and as such is able to measure the on-time response due to high conductance targets. Due to the processing method (primary field removal), there is attenuation of the response with increasing conductance, but the AeroTEM on-time measurement is still superior to systems that rely on lower base frequencies to detect high conductance targets, but do not measure in the on-time.

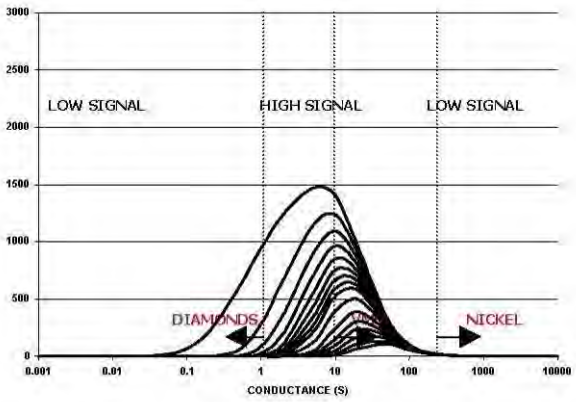
The peak response of a conductive target to an EM system is a function of the target conductance and the EM

system base frequency. For time domain EM systems that measure only in the off-time, there is a drop in the peak response of a target as the base frequency is lowered for all conductance values below the peak system response. For example, the AeroTEM peak response occurs for a 10 S conductor in the early off-time and 100 S in the late off-time for a 150 Hz base frequency. Because base frequency and conductance form a linear relationship when considering the peak response of any EM system, a drop in base frequency of 50% will double the conductance at which an EM system shows its peak response. If the base frequency were lowered from 150 Hz to 30 Hz there would be a fivefold increase in conductance at which the peak response of an EM occurred.

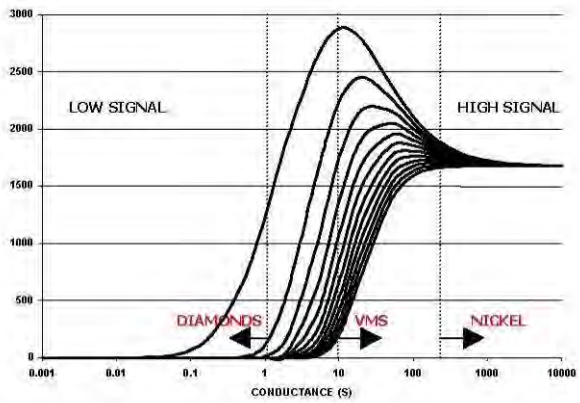
However, in the search for highly conductive targets, such as pyrrhotite-related Ni-Cu-PGM deposits, a fivefold increase in conductance range is a high price to pay because the signal level to lower conductance targets is reduced by the same factor of five. For this reason, EM systems that operate with low base frequencies are not suitable for general exploration unless the target conductance is more than 100 S, or the target is covered by conductive overburden.

Despite the excellent progress that has been made in modeling software over the past two decades, there has been little work done on determining the optimum form of an EM system for mineral exploration. For example, the optimum configuration in terms of geometry, base frequency and so remain unknown. Many geophysicists would argue that there is no single ideal configuration, and that each system has its advantages and disadvantages. We disagree.

When it comes to detecting and discriminating high-conductance targets, it is necessary to measure the pure in phase response of the target conductor. This measurement requires that the measured primary field from the transmitter be subtracted from the total measured response such that the secondary field from the target conductor can be determined. Because this secondary field is in-phase with the transmitter primary field, it must be made while the transmitter is turned on and the transmitter current is changing. The transmitted primary field is several orders of magnitude larger than the secondary field. AeroTEM uses a bucking coil to reduce the primary field at the receiver coils. The only practical way of removing the primary field is to maintain a rigid geometry between the transmitter, bucking and receiver coils. This is the main design consideration of the AeroTEM airframe and it is the only time domain airborne system to have this configuration.



The off-time AeroTEM response for the 16 channel configuration.



The on-time response assuming 100% removal of the measured primary field.

Figure 4. The off-time and on-time response nomogram of AeroTEM for a base frequency of 150 Hz. The on-time response is much stronger for higher conductance targets and this is why on-time measurements are more important than lower frequencies when considering high conductance targets in a resistive environment.

Advantage 3 – Multiple Receiver Coils

AeroTEM employs two receiver coil orientations. The Z-axis coil is oriented parallel to the transmitter coil and

both are horizontal to the ground. This is known as a maximum coupled configuration and is optimal for detection. The X-axis coil is oriented at right angles to the transmitter coil and is oriented along the line-of-flight. This is known as a minimum coupled configuration, and provides information on conductor orientation and thickness. These two coil configurations combined provide important information on the position, orientation, depth, and thickness of a conductor that cannot be matched by the traditional geometries of the HEM or fixed-wing systems. The responses are free from a system geometric effect and can be easily compared to model type curves in most cases. In other words, AeroTEM data is very easy to interpret. Consider, for example, the following modeled profile:

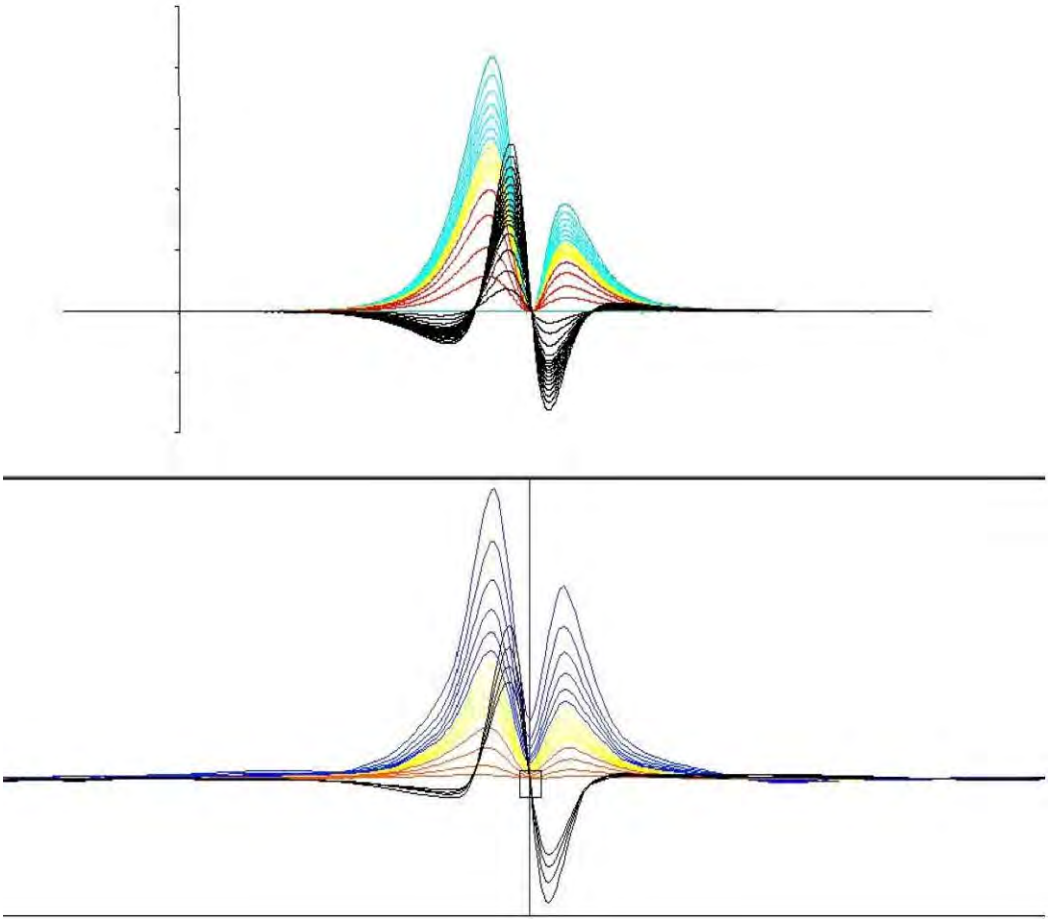


Figure 5. Measured (lower) and modeled (upper) AeroTEM responses are compared for a thin steeply dipping conductor. The response is characterized by two peaks in the Z-axis coil, and a cross-over in the X-axis coil that is centered between the two Z-axis peaks. The conductor dips toward the higher amplitude Z-axis peak. Using the X-axis cross-over is the only way of differentiating the Z-axis response from being two closely spaced conductors.

HEM versus AeroTEM

Traditional helicopter EM systems operate in the frequency domain and benefit from the fact that they use narrowband as opposed to wide-band transmitters. Thus all of the energy from the transmitter is concentrated in a few discrete frequencies. This allows the systems to achieve excellent depth penetration (up to 100 m) from a transmitter of modest power. The Aeroquest Impulse system is one implementation of this technology.

The AeroTEM system uses a wide-band transmitter and delivers more power over a wide frequency range. This frequency range is then captured into 16 time channels, the early channels containing the high frequency information and the late time channels containing the low frequency information down to the system base frequency. Because frequency domain HEM systems employ two coil configurations (coplanar and coaxial) there are only a maximum of three comparable frequencies per configuration, compared to 16 AeroTEM off-time and 12 AeroTEM on-time channels.

Figure 6 shows a comparison between the Dighem HEM system (900 Hz and 7200 Hz coplanar) and AeroTEM (Z-axis) from surveys flown in Raglan, in search of highly conductive Ni-Cu-PGM sulphide. In general, the AeroTEM peaks are sharper and better defined, in part due to the greater S/N ratio of the AeroTEM system over HEM, and also due to the modestly filtered AeroTEM data compared to HEM. The base levels are also better defined in the AeroTEM data. AeroTEM filtering is limited to spike removal and a 5-point smoothing filter. Clients are also given copies of the raw, unfiltered data.

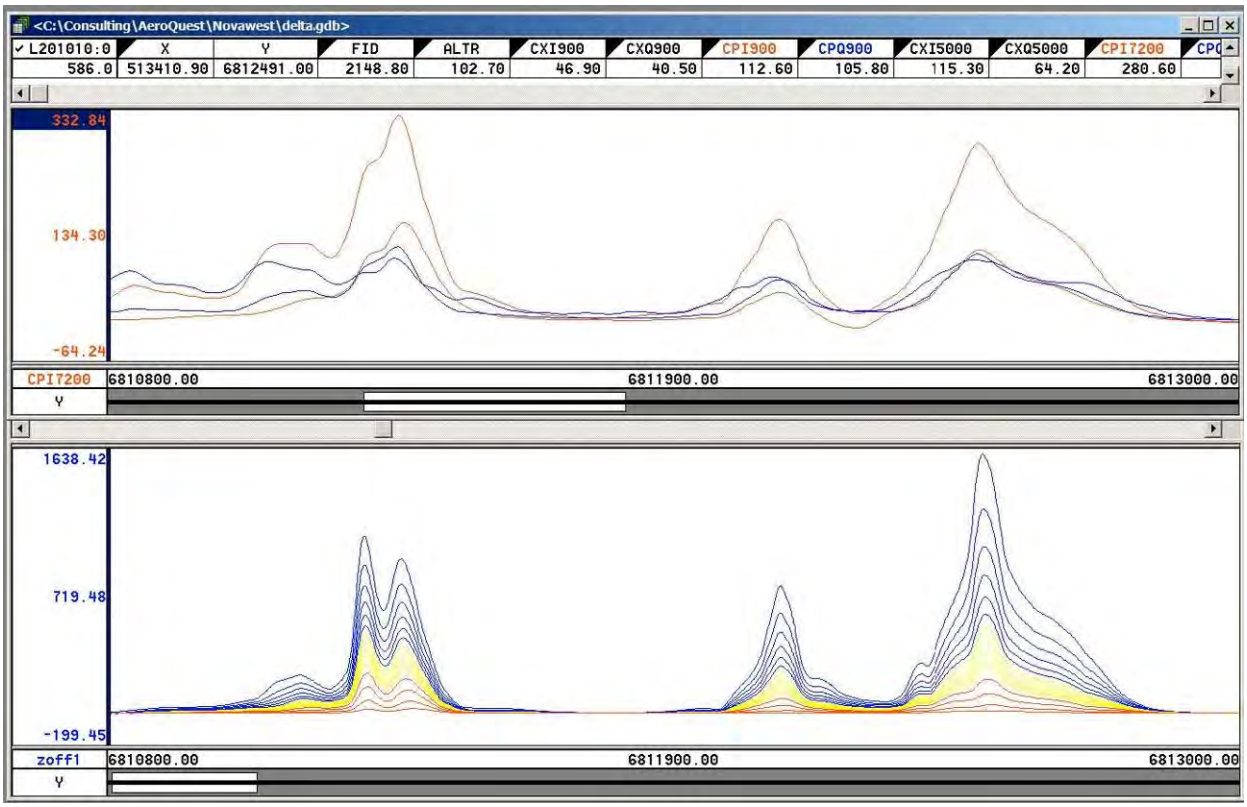


Figure 6. Comparison between Dighem HEM (upper) and AeroTEM (lower) surveys flown in the Raglan area. The AeroTEM responses appear to be more discrete, suggesting that the data is not as heavily filtered as the HEM data. The S/N advantage of AeroTEM over HEM is about 5:1.

Aeroquest Limited is grateful to the following companies for permission to publish some of the data from their respective surveys: Wolfden Resources, FNX Mining Company Inc, Canadian Royalties, Nova West Resources, Aurogin Resources, Spectrem Air. Permission does not imply an endorsement of the AeroTEM system by these companies.

APPENDIX 5: AEROTEM INSTRUMENTATION SPECIFICATION SHEET

AEROTEM Helicopter Electromagnetic System

System Characteristics

- Transmitter: Triangular Pulse Shape Base Frequency 150 Hz
- Tx On Time - 1,150 (150 Hz) µs
- Tx Off Time - 2,183 (150 Hz) µs
- Loop Diameter - 5 m
- Peak Current - 269 A
- Peak Moment - 42,254 NIA
- Typical Z Axis Noise at Survey Speed = 5 nT peak to peak
- Sling Weight: 270 Kg
- Length of Tow Cable: 36 m
- Bird Survey Height: 30 m nominal

Receiver

- Two Axis Receiver Coils (x, z) positioned at centre of transmitter loop
- Selectable Time Delay to start of first channel 21.3 , 42.7, or 64.0 ms

Display & Acquisition

- AERODAS Digital recording at 120 samples per decay curve at a maximum of 300 curves per second (27.778µs channel width)
- Recording & Display Rate = 10 readings per second.
- On-board display - six channels Z-component and 1 X-component

System Considerations

Comparing a fixed-wing time domain transmitter with a typical moment of 500,000 NIA flying at an altitude of 120 m with a Helicopter TDEM at 30 m, notwithstanding the substantial moment loss in the airframe of the fixed wing, the same penetration by the lower flying helicopter system would only require a sixty-fourth of the moment. Clearly the AeroTEM system with nearly 43,000 NIA has more than sufficient moment. The airframe of the fixed wing presents a response to the towed bird, which requires dynamic compensation. This problem is non-existent for AeroTEM since transmitter and receiver positions are fixed. The AeroTEM system is completely portable, and can be assembled at the survey site within half a day.

548000E

-128°05'

6840000N

6836000N

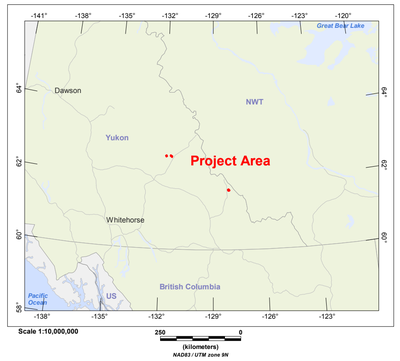
61°40'

Grid North
NAD83-Zone9

The topographic data base was derived from 1:50000 NRC (Natural Resources Canada) NTDB data

Inset data derived from Natural Resources Canada 'Atlas of Canada Base Maps'

This map accompanies the technical report entitled 'Report on a Helicopter-Borne Magnetic and Electromagnetic Survey, Ross River, Yukon', by Aeroquest Limited, September 2010



Z0-OFF nT/s
603.3
439.0
351.3
277.3
229.6
195.1
171.4
154.8
140.0
126.6
114.5
104.4
93.0
82.6
72.5
63.4
54.9
48.3
42.7
36.7
31.1
25.6
20.4
16.0
11.8
8.0
4.5
1.6

Off-Time Anomaly Symbols

- >50S
- 35-50S
- 20-35S
- 10-20S
- 5-10S
- 1-5S
- <1S

anomaly label A 125 decay constant (µs)
thickK/thiN source K 36 off-time conductance (S)

Contour Interval

- 10 nT/s
- 20 nT/s
- 100 nT/s
- 500 nT/s

Wetland

Lake

SURVEY SPECIFICATIONS:
- Survey flown: June 19 - 28, 2010
- Traverse/Tie line spacing: 100/1000 metres
- Traverse/Tie line direction: 20°/110°
- Nominal EM bird height: 30 metres
- Aircraft: Aerospatiale A-Star 350 B3 (C-GSGK)

INSTRUMENTATION:
- Data acquisition: ADAS
- Magnetometers: Geometrics G-823A caesium vapour
  - Installation: Towed upper magnetic bird 18 m below the helicopter
  - Installation: Towed lower magnetic bird 36 m below the helicopter
  - Sensitivity: .001 nanoTesla
- Electromagnetics: AeroTEM II System (ECHO)
  - Configuration: Towed bird

NAVIGATION:
- Navigation: Differential Global Positioning System (DGPS)
- Navigation equipment: AGNAV with MID-TECH RX400p receiver
- Radar Altimeter: Terra TRA3000/TRI-30

POSITIONING
- Datum: NAD83
  - Major Axis: 6378137.000
    - Eccentricity: 0.081819191
- MAP PROJECTION
- Projection: Universal Transverse Mercator
- Central Meridian: 129°W (Zone 09)
- Central Scale Factor: 0.9996
- False Easting/Northing: 500,000m/0m

1:10,000

200 0 200 400 600
(meters)
NAD83 / UTM zone 9N

TerraLogic Exploration Inc.
Ross River, Yukon

AEROTEM Z0-OFF TIME
Time after Tx Off 52 µs

Sprogge Block

NTS 105H09

AEROQUEST
7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel: (905) 672-9129 Fax: (905) 672-7083
www.aeroquest.ca

September 2010

Z0-OFF

Z0-OFF_10k_Sprogge Block.map, AQL Job no. 10048

548000E

-128°05'

6840000N

6836000N

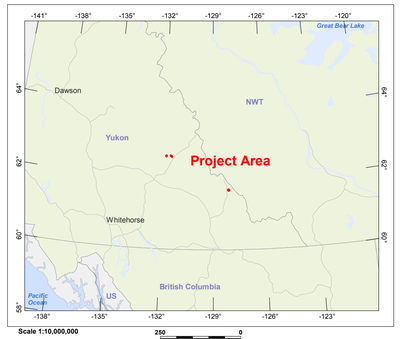
61°40'

Grid North
NAD83-Zone9

The topographic data base was derived from 1:50000 NRC (Natural Resources Canada) NTDB data

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58012.1
57985.1
57970.9
57963.6
57958.5
57954.7
57951.2
57948.5
57945.9
57943.4
57941.1
57939.0
57937.1
57935.0
57933.0
57930.8
57928.4
57925.6
57922.9
57919.7
57916.3
57913.0
57910.2
57908.1
57906.3
57905.0
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57902.9
57902.0
57900.8
57899.5
57898.1
57896.8
57895.2
57893.4
57891.4
57888.7
57884.0

MAGU
nT

Off-Time Anomaly Symbols

- >50S
- 35-50S
- 20-35S
- 10-20S
- 5-10S
- 1-5S
- <1S

anomaly label A 125 decay constant (µs)
thick/thin source K 36 off-time conductance (S)

Contour Interval

- 5 nT
- 10 nT
- 50 nT
- 250 nT

Wetland

Lake

SURVEY SPECIFICATIONS:
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  - Eccentricity: 0.081819191
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- Projection: Universal Transverse Mercator
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- Central Scale Factor: 0.9996
- False Easting/Northing: 500,000m/0m

1:10,000

200 0 200 400 600
(meters)
NAD83 / UTM zone 9N

TerraLogic Exploration Inc.
Ross River, Yukon

TOTAL UPPER MAGNETIC INTENSITY

Sprogge Block

NTS 105H09

AEROQUEST
7687 Bath Road, Mississauga, ON, CANADA L4T 3T1
Tel: (905) 672-9129 Fax: (905) 672-7083
www.aeroquest.ca

September 2010

MAGU

MAGU_10k_Sprogge Block.map, AQL Job no. 10048

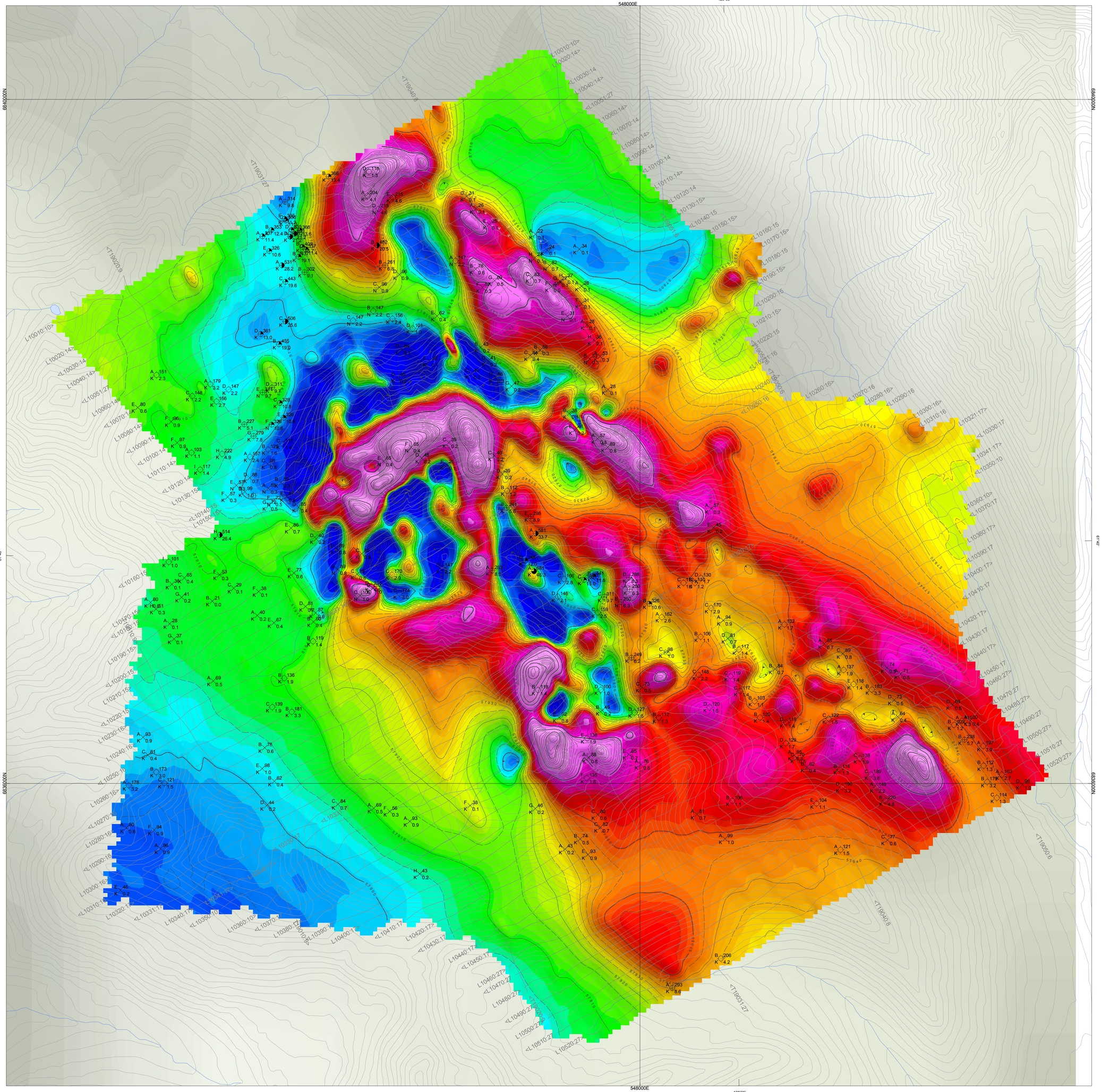
548000E

-128°05'

6840000N

61°49'

6836000N



548000E

-128°05'

6840000N

61°49'

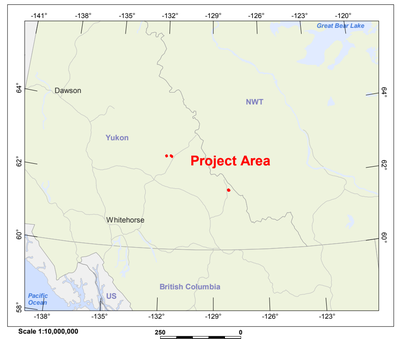
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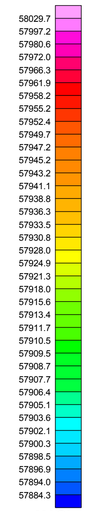
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Grid North
NAD83-Zone9





Off-Time Anomaly Symbols

- >50S
- 35-50S
- 20-35S
- 10-20S
- 5-10S
- 1-5S
- <1S

anomaly label A 125 decay constant (µs)
thickK/thiN source K 36 off-time conductance (S)

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1:10,000

200 0 200 400 600
(meters)
NAD83 / UTM zone 9N

TerraLogic Exploration Inc.
Ross River, Yukon

TOTAL LOWER MAGNETIC INTENSITY

Sprogge Block

NTS 105H09

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September 2010

MAGL

MAGL_10k_Sprogge Block.map, AQL Job no. 10048

548000E

-128°05'

6840000N

6836000N

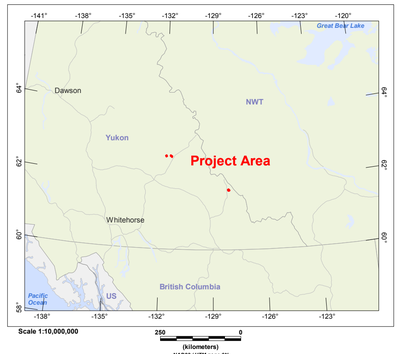
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AeroTEM Profiles

positive excursion to top and right, 1mm=100nT/s

- Z0 Off-Time Channel 52 µs
- Z1 Off-Time Channel 80 µs
- Z2 Off-Time Channel 108 µs
- Z3 Off-Time Channel 135 µs
- Z4 Off-Time Channel 163 µs
- Z5 Off-Time Channel 191 µs
- Z6 Off-Time Channel 233 µs
- Z7 Off-Time Channel 288 µs
- Z8 Off-Time Channel 344 µs
- Z9 Off-Time Channel 399 µs
- Z10 Off-Time Channel 469 µs

Off-Time Anomaly Symbols

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- 35-50S
- 20-35S
- 10-20S
- 5-10S
- 1-5S
- <1S

anomaly label: A 125 K 36 — decay constant (µs); thick/thin source; off-time conductance (S)

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Lake

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Major Axis: 6378137.000
Eccentricity: 0.081819191

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Central Scale Factor: 0.9996
False Easting/Northing: 500,000m/0m

1:10,000

200 0 200 400 600
(meters)
NAD83 / UTM zone 9N

TerraLogic Exploration Inc.
Ross River, Yukon

AEROTEM
OFF TIME PROFILES

Sprogge Block

NTS 105H09

AEROQUEST
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September 2010

EM PROFILES

EM PROFILES_10k_Sprogge Block.map, AQL Job no. 10048