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BRITISH COLUMBIA REGIONAL GEOCHEMICAL SURVEY

NTS 104M - SKAGWAY

STREAM SEDIMENT AND WATER GEOCHEMICAL DATA

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INTRODUCTION

Open File BC RGS 37 was published on August 4, 1993 as part of the British Columbia Regional Geochemical Survey (RGS) Program. This Open File includes analytical and field data compiled from a reconnaissance scale stream-sediment and water survey conducted in NTS map sheet 104M - Skagway during the 1992 field season. Adjacent NTS map sheets 1140 - Yakutat and 114P - Tatshenshini were also surveyed as part of the 1992 RGS field program. The 1992 surveys and production of Open File BC RGS 37 were managed by the British Columbia Ministry of Energy, Mines and Petroleum Resources (MEMPR) and are a contribution to the Corporate Resource Inventory Initiative (CRII).

Analytical data and field observations compiled by the RGS Program are used in the development of a high quality geochemical database suitable for resource assessment, mineral exploration, geological mapping and environmental studies. Sample collection, preparation and analysis are closely monitored by the MEMPR to ensure consistency and conformance to national standards.

ACKNOWLEDGMENTS

The RGS Program is managed by Geological Survey Branch staff of the MEMPR.

P.F. Matysek and W. Jackaman coordinated the operational activities of contract and MEMPR staff. *W. Jackaman* monitored the field program and produced this Open File.

COLLECTION : McElhanney Engineering Services Ltd., Surrey, B.C.

PREPARATION : Rossbacher Laboratories Ltd., Burnaby, B.C.

ANALYSIS : Barringer Laboratories Ltd., Calgary, Alta. (sediments)
Activation Laboratories Ltd., Ancaster, Ont. (INAA - sediments)
Chemex Laboratories Ltd., North Vancouver, B.C. (waters)

OPEN FILE FORMAT

Open File BC RGS 37 includes a data booklet, a map booklet and a floppy diskette.

The data booklet is divided into the following sections. ***Please refer to notes preceding each section for important information on data presentation format.***

- survey details and RGS data evaluation,
- listings of field and analytical data,
- listings of analytical duplicate data,
- summary statistics, and
- sample evaluation charts.

The map booklet contains the following maps :

- 3 - 1: 100 000 scale sample location maps,
- 1 - 1: 500 000 scale sample location clear overlay and map,
- 1 - 1: 500 000 scale bedrock geology clear overlay and map,
- 46 - 1: 500 000 scale symbol and value maps for individual elements,
- 1 - 1: 500 000 base metal anomaly map, and
- 1 - 1: 500 000 precious metal anomaly map.

Analytical and field data are included as an ASCII file on a 5.25 inch high-density diskette. Document files detailing data format specifications and survey details are also included.

SURVEY DETAILS

PHYSIOGRAPHY AND GEOLOGY

Situated in the northwest corner of British Columbia, NTS map sheet 104M - Skagway includes the Coast Mountain and Tagish Highland physiographic subdivisions (Holland, 1976). Trending southeast to northwest, the Coast Mountains extend along the western portion of the map sheet and are characterized by rugged mountain peaks separated by numerous glaciers and snowfields. Bordering the Coast Mountains to the northeast is a transition zone (Tagish Highlands) between the Coast Mountains and the Yukon Plateaus. The Tagish Highlands contains relatively smooth and gently sloping mountains separated by wide, U-shaped valleys.

The survey area presently contains 87 recorded mineral occurrences and is best known for the Gridiron, Ben-My-Chree and Engineer gold-silver past producers. Underlain by the Intermontane and Coast Crystalline tectonic belts, potential exploration targets include precious metal vein deposits, gold-quartz veins, gold-stibnite veins, auriferous quartz-carbonate zones and gold rich skarns. The bedrock geology base map (Map 2) used in Open File BC RGS 37 is from Mihalynuk and Smith, 1993.

SAMPLE COLLECTION

Helicopter and truck-supported sample collection was carried out during July and August of 1992. A total of 785 stream sediment and 773 stream water samples were systematically collected from 741 sites. Average sample site density was 1 site per 10 square kilometres over the 7500 square kilometre survey area. One field duplicate sample was routinely collected in each analytical block of twenty samples. The survey also included the collection of 43 sediment and water samples in Atlin Provincial Park and Recreation Area.

The majority of primary and secondary drainage basins having catchment areas of less than 10 square kilometres were sampled. At each site sediment samples weighing 1 to 2 kilograms were collected within the active (subject to annual flooding) stream channel and placed in kraft-bags. Samples were primarily composed of fine-grained material mixed with varying amounts of coarse sand and gravel, glacial sediments and organic material. Contaminated or poor-quality sample sites were avoided by choosing an alternate stream or by sampling a minimum of 60 metres upstream from the identified source of contamination. In order to minimize the glacial flour component of samples collected from glacial streams, the coarser grained material below the surface layer was sampled. Unfiltered water samples free of suspended material were collected in 250-millilitre bottles. Field observations regarding sample media, sample site and local terrain were also recorded. To assist follow-up, aluminum tags inscribed with a RGS sample site identification number (ie. 921002) were fixed to permanent objects, when available, at each site.

Recorded field observations (Appendix A) indicate that 14 per cent of the sample sites are located in the Coast Mountains (youthful mountains). Creeks found in this area tend to be fast flowing and are often charged with sediments from melting ice. A total of 311 sites list glacial melt water as the stream water source. Over 80 per cent of the sample sites are located within areas characterized by mature mountains (Tagish Highlands). This region contains creeks which tend to be slower flowing and produce sediment material with a slightly higher organic composition. Sediment samples collected in the Tagish Highland average 6.1 per cent loss on ignition and only 3.3 per cent loss on ignition for samples collected in areas listed as youthful mountains. The overall stream width and depth at each sample site average 5.0 metres and 85 centimetres respectively.

SAMPLE PREPARATION

At a field camp established in Atlin, sediment samples were air-dried at a temperature range of 30°C to less than 50°C and material finer than 1 mm was recovered by sieving each sample through a -18 mesh ASTM screen. Samples were shipped to Rossbacher Laboratories Ltd. (Burnaby, B.C.) for final processing. The -80 mesh (<177 microns) fraction was obtained for analyses by dry sieving each sample. Quality control reference standards and analytical duplicate samples were inserted into each analytical block of twenty sediment samples. A quantity of -80 mesh material and a representative sample of the +80 to -18 mesh fraction was archived for future studies. Control reference water standards were inserted into each analytical block of 20 water samples.

SAMPLE ANALYSIS - Routine Analytical Suite

Barringer Laboratories Ltd. (Calgary, Alta.) analyzed the sediment samples for antimony, arsenic, bismuth, cadmium, cobalt, copper, fluorine, iron, lead, manganese, mercury, molybdenum, nickel, silver, vanadium, zinc and loss on ignition. Water samples were analyzed for fluoride, uranium, sulphate and pH by Chemex Laboratories Ltd. (North Vancouver, B.C.). Laboratory reported detection limits for each element are listed in Table 1.

Element		Detection Limit	Method	Element		Detection Limit	Method
Antimony	Sb	0.2 ppm	AAS	Gold	Au	2 ppb	INAA
Arsenic	As	0.2 ppm	AAS-H	Antimony	Sb	0.1 ppm	INAA
Bismuth	Bi	0.2 ppm	AAS-H	Arsenic	As	0.5 ppm	INAA
Cadmium	Cd	0.2 ppm	AAS	Barium	Ba	50 ppm	INAA
Cobalt	Co	2 ppm	AAS	Bromine	Br	0.5 ppm	INAA
Copper	Cr	2 ppm	AAS	Cerium	Ce	3 ppm	INAA
Fluorine	F	40 ppm	ION	Cesium	Cs	1 ppm	INAA
Iron	Fe	0.02 %	AAS	Chromium	Cr	5 ppm	INAA
Lead	Pb	2 ppm	AAS	Cobalt	Co	1 ppm	INAA
Manganese	Mn	5 ppm	AAS	Hafnium	Hf	1 ppm	INAA
Mercury	Hg	10 ppb	AAS-F	Iron	Fe	0.02 %	INAA
Molybdenum	Mo	1 ppm	AAS	Lanthanum	La	1 ppm	INAA
Nickel	Ni	2 ppm	AAS	Lutetium	Lu	0.05 ppm	INAA
Silver	Ag	0.2 ppm	AAS	Molybdenum	Mo	1 ppm	INAA
Vanadium	V	5 ppm	AAS	Nickel	Ni	20 ppm	INAA
Zinc	Zn	2 ppm	AAS	Rubidium	Rb	15 ppm	INAA
LOI	LOI	1.0 %	GRAV	Samarium	Sm	0.1 ppm	INAA
				Scandium	Sc	0.1 ppm	INAA
				Sodium	Na	0.01 %	INAA
Fluoride - water	FW	20 ppb	ION	Tantalum	Ta	0.5 ppm	INAA
Uranium - water	UW	0.05 ppb	LIF	Terbium	Tb	0.5 ppm	INAA
Sulphate - water	SO4	1 ppm	TURB	Thorium	Th	0.5 ppm	INAA
pH - water	pH	0.1	GCE	Tungsten	W	1 ppm	INAA
				Uranium	U	0.5 ppm	INAA
				Ytterbium	Yb	0.2 ppm	INAA

Table 1. RGS suite of elements: NTS 104M

Antimony was determined as described by Aslin (1976). A 0.5 gram sample was placed in a test tube with 3 ml concentrated HNO_3 and 9 ml HCl. The mixture was allowed to stand overnight at room temperature prior to being heated to 90°C and maintained at this temperature for 90 minutes. The mixture was cooled and a 1 ml aliquot was diluted to 10 ml with 1.8M HCl. This dilute solution was determined by hydride evolution-atomic absorption spectroscopy (AAS).

Arsenic and bismuth were determined on a 1 gram sample reacted with 3 ml of concentrated HNO_3 for 30 minutes at 90°C. Concentrated HCl (1 ml) was added and the digestion was continued at 90°C for an additional 90 minutes. A 1 ml aliquot was diluted to 10 ml with 1.5M HCl in a clean test tube. The diluted sample solution was added to a sodium borohydride solution and aspirated through a heated quartz tube in the light path of an atomic absorption spectrometer (AAS-H).

For the determination of cadmium, cobalt, copper, iron, lead, manganese, nickel, silver, and zinc, a 1 gram sample was reacted with 3 ml of concentrated HNO_3 for 30 minutes at 90°C. Concentrated HCl (1 ml) was added and the digestion was continued at 90°C for an additional 90 minutes. The sample solution was then diluted to 20 ml with metal free water and mixed. Concentrations were determined by AAS using an air-acetylene flame. Background corrections were made for Pb, Ni, Co and Ag.

Fluorine was determined as described in Ficklin (1970). A 0.25 gram sample was sintered with a 1 gram flux consisting of 2 parts by weight Na_2CO_3 and 1 part by weight KNO_3. The residue was then leached with water and the Na_2CO_3 was neutralized with 10 ml 10% (w/v) citric acid. The resulting solution was diluted to 100 ml with water to a pH of 5.5 to 6.5 and measured using a fluoride ion electrode (ION).

Mercury was determined using a 0.5 gram sample reacted with 20 ml concentrated HNO_3 and 1 ml concentrated HCl in a test tube for 10 minutes at room temperature and for 2 hours in a 90°C water bath. After digestion the sample was cooled and diluted to 100 ml with metal free water. The Hg present was reduced to the elemental state by the addition of 10 ml of 10% w/v $SnSO_4$ in H_2SO_4. The Hg vapor was flushed by a stream of air into an absorption cell mounted in the light path of an atomic absorption spectrometer (AAS-F). Measurements were made at 253.7 nm. This method is described by Jonasson, *et al.* (1973).

Molybdenum and vanadium were determined by AAS using nitrous oxide acetylene flame. A 0.5 gram sample was reacted with 1.5 ml concentrated HNO_3 at 90°C for 30 minutes. At this point 0.5 ml of concentrated HCl was added and the digestion continued for an additional 90 minutes. After cooling, 8 ml of 1250 ppm Al solution was added and the sample solution diluted to 10 ml before aspiration by AAS.

Loss on ignition was determined using a 0.5 gram sample. The sample was weighed into a 30 ml beaker, placed in a cold muffle furnace and heated to 500°C over a period of 2 to 3 hours. The sample was left at this temperature for 4 hours, then cooled to room temperature before weighing (GRAV).

Fluoride in waters was determined using a specific ion electrode. An aliquot of sample was mixed with an equal volume of total ionic strength adjustment buffer (TISAB II solution). The fluoride was measured using a Corning 101 Electrometer with an Orion Fluoride Electrode (ION).

Uranium in waters was determined by a fluorometric method. The U was initially preconcentrated by evaporation. The residue was fused with a mixture of Na_2CO_3, K_2CO_3 and NaF in a platinum dish. After cooling the fluorescence of the fused pellet was measured using a Turner Fluorometer (LIF).

Sulphate in waters was determined on 50 ml sample mixed with 0.3 ml of Sulfaver IV reagent. The solution is poured into a spectrometer absorption cell and the turbidity is measured at 420 nm (TURB).

pH in waters was measured using an aliquot of sample in a clean dry beaker by a Fisher Accumet pH Meter (GCE).

SAMPLE ANALYSIS - INAA

The determination of gold, antimony, arsenic, barium, bromine, cerium, cesium, chromium, cobalt, hafnium, iron, lanthanum, lutetium, molybdenum, nickel, rubidium, samarium, scandium, sodium, tantalum, terbium, thorium, tungsten, uranium and ytterbium by INAA was conducted by Activation Laboratories Ltd. (Ancaster, Ont.). This analytical technique involves irradiating the sediment samples, which on average weigh 15 grams, for 20 minutes in a neutron flux of 10^{11} neutrons/cm^2/second. After a decay period of approximately 1 week, gamma-ray emissions for the elements were measured using a gamma-ray spectrometer with a high resolution, coaxial germanium detector. Counting time was approximately 15 minutes per sample and the results were compiled on a computer and later converted to concentrations. Table 1 lists the associated laboratory reported detection limits for this analytical technique.

Repeat analysis by INAA have also been performed on a separate split for samples reporting gold values exceeding 23 ppb and are listed as Au2 in Appendix A.. This level represents the 95th percentile for gold based on the total 1992 analytical data set (NTS map sheets 104M, 114O and 114P).

RGS Data Evaluation

The ability to discriminate real trends, related to geological and geochemical conditions, from those that result from spurious factors such as sampling and analytical errors is of considerable importance in the success of geochemical data interpretation. An estimate of precision allows sampling and analytical variation to be quantified, and is an integral part of the evaluation of geochemical data. Estimates of analytical precision and element variability within and between sample sites can be determined by utilizing analytical duplicate and field duplicate data.

Control reference standards and analytical duplicates are routinely inserted to monitor and assess accuracy and precision of analytical results. Each analytical block of twenty sediment samples consists of :

- 17 Routine samples
- 1 Field duplicate sample collected adjacent to one of the 17 routine samples (Listed in Appendix A).
- 1 Analytical duplicate sample; a subsample taken from one of the 17 routine samples prior to analysis (Listed in Appendix B).
- 1 Control reference standard sample containing sediment of known element concentrations.

Analytical blocks of corresponding water samples differ slightly in that they contain two control reference standard samples but no analytical duplicate samples.

Scatterplots of analytical results of field duplicate pairs and analytical duplicate pairs are presented for Cu, Pb, Ni, Zn (AAS sediment data) and Au, As (INAA sediment data). A total of 107 duplicate pairs from the total 1992 analytical data set (NTS map sheets 104M, 114O and 114P) were included in this analysis. Field duplicate data (Figure 1a) and analytical duplicate data (Figure 1b) show very good reproducibility ($r > 0.970$), particularly for those trace elements with concentration levels well above detection limits. This gives a high degree of confidence in the quality of both the field sampling and the analytical methods for these elements. Poor reproducibility for gold is primarily due to the influence of the particle sparsity effect (see section : Interpretation of Gold Data).

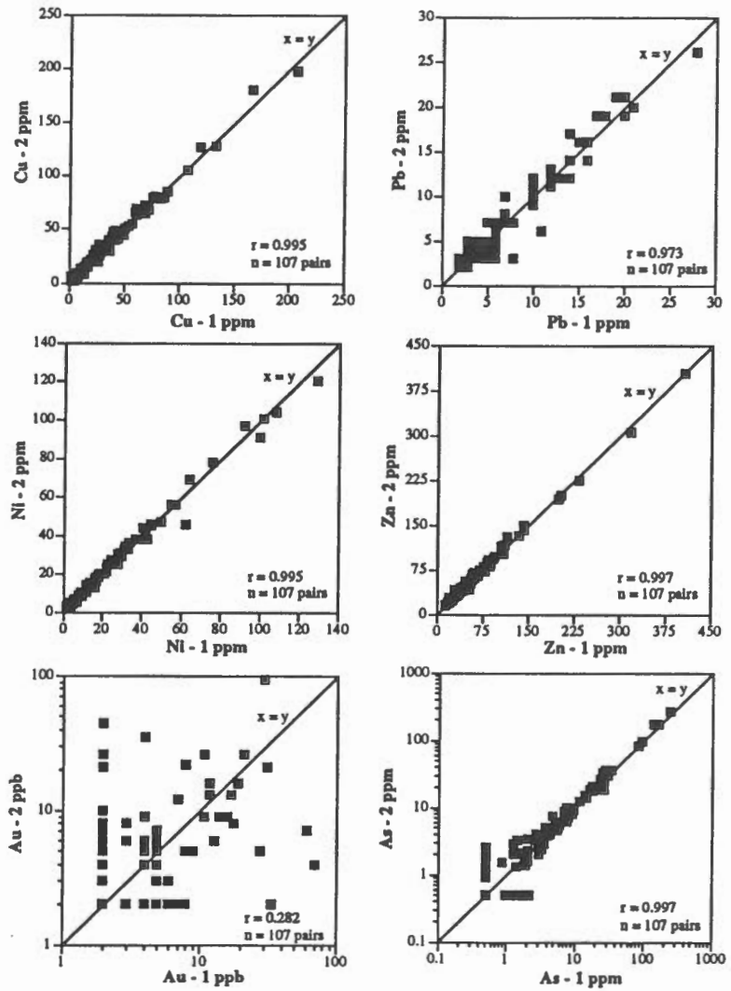

Figure 1a. Scatterplots of field duplicate pairs for Cu, Zn, Pb, Ni, Au and As

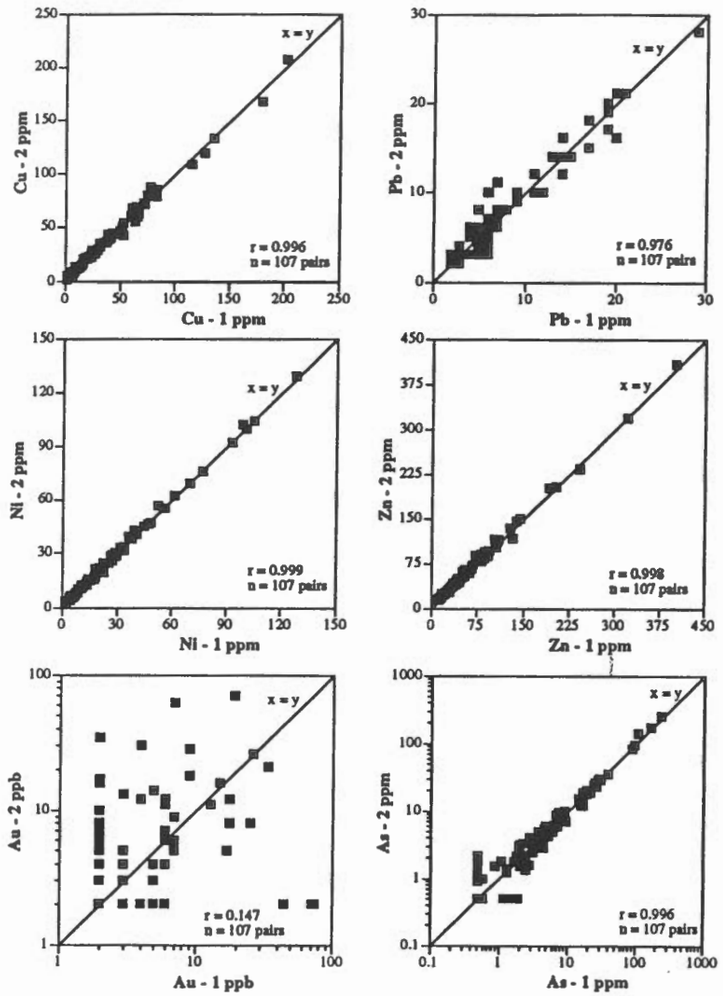

Figure 1b. Scatterplots of analytical duplicate pairs for Cu, Zn, Pb, Ni, Au and As

PRECISION ESTIMATES OF SELECTED ELEMENTS

In order to quantify analytical reproducibility, precision estimates for selected elements were calculated using 107 analytical duplicate pairs from the total 1992 analytical data set using the Thompson and Howarth (1973, 1976, 1978) method.

Their method involves dividing analytical duplicate pairs (x1, x2) into groups with narrow concentration ranges. For each group, the median value of absolute differences between duplicate pairs (|x1-x2|) is used as an estimation of the standard deviation(s), whereas the mean value of all the duplicate pair means (x1+x2)/2 is used as an estimation of the average concentration. Repetition of this procedure for successive groups of concentration ranges produces a set of corresponding mean concentration and standard deviation estimates for the entire range of data. Linear regression of the estimates provides slope and intercept values from which precision of the data set can be calculated using the equation:

$$Pc = 200(K/c + S_O)$$

where S_O (coefficient of slope) is the standard deviation at zero concentration and K (intercept) is a constant. This linear function has been determined in practical cases (Matysek and Sinclair, 1984) to be a satisfactory model for the expression of analytical variation.

Precision estimates were calculated as follows:

Step 1. A list of duplicate means and corresponding absolute differences was calculated for each sample pair.

Step 2. The list was sorted in increasing order of concentration means.

Step 3. The mean concentration and the median difference between pairs for the first group of 13 analytical pairs were determined.

Step 4. Step 3 was repeated for each successive group of 13 pairs ignoring any remainder less than 13.

Step 5. The linear regression of the median differences on the means was calculated. The resultant intercept and coefficient of the calculated line are multiplied by 1.048 and were used to estimate precision.

To illustrate this method precision estimates were determined for Cu, Pb, Fe and Zn (AAS), and As (INAA). This particular suite of elements was selected on the following basis:

- Their distributions approximated a Gaussian (normal) curve, and
- The majority of their concentrations were well above their detection limits.

Precision estimates are not determined for elements characterized by non-normal distributions (ie. gold). These distributions are recognized when the following conditions arise :

- Element abundances are dependent on rare grains,
- Concentration levels are at or near the detection limit, and
- Data contains outliers.

RESULTS

Precision estimates calculated at different concentration levels using the Thompson and Howarth method are presented in Table 2 and Figure 2. These estimates are of similar magnitude to those obtained from studies on error evaluation in stream sediment surveys (Plant, 1971; Chork, 1977; Fletcher, 1981). These studies generally concluded that precision ranges of 10-15% at the 95% confidence level are often encountered and considered acceptable for laboratory variability in most exploration programs.

Element	Intercept	Slope	r	50th	Pc	80th	Pc	95th	Pc
Copper	0.404	0.036	0.892	32 ppm	10.23%	63 ppm	8.93%	104 ppm	8.40%
Lead	0.505	0.044	0.467	6 ppm	26.95%	14 ppm	16.87%	30 ppm	12.83%
Zinc	0.128	0.028	0.950	66 ppm	6.25%	108 ppm	6.10%	181 ppm	6.00%
Iron	0.052	0.014	0.314	2.0 %	8.28%	3.3 %	6.13%	4.4 %	5.31%
Arsenic	0.478	0.043	0.923	5.8 ppm	26.20%	19.0 ppm	14.20%	64.0 ppm	10.49%

Table 2. Thompson and Howarth precision estimates : As, Cu, Pb, Zn, Fe

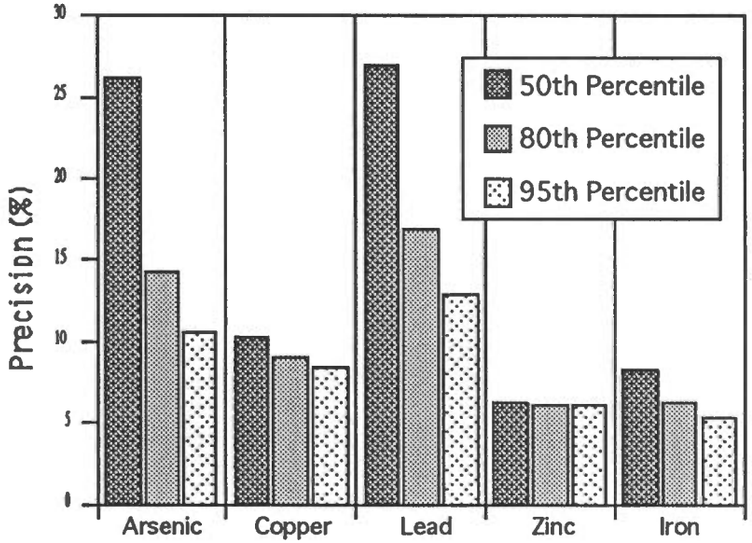

Figure 2. Bar graph illustrating precision estimates : As, Cu, Pb, Zn, Fe

COMPARISON OF INAA VERSUS AAS TECHNIQUES

Several elements (As, Sb, Co, Fe, Mo and Ni) were determined by both atomic absorption spectroscopy (AAS) and by instrumental neutron activation analysis (INAA). Variations observed between AAS and INAA results are due largely to differences in the analytical methods. AAS requires dissolution of the sample with acids prior to analysis. Aqua regia, a combination of hydrochloric and nitric acids, was used to dissolve RGS sediment samples. Gold and sulphide minerals are dissolved, whereas silicates and some oxides (*i.e.* magnetite) are only partially digested. Conversely, INAA does not require sample digestion prior to analysis. Concentrations determined by INAA generally represent the *total* content of that element in the sample. Due to this difference between methods, INAA generally reports higher concentrations than aqua regia - AAS. Using data from NTS map sheet 104M Figures 3a and 3b represent a comparison of the two techniques for cobalt and iron. In both cases, the scatterplots show INAA returning higher results. The slight analytical variation for cobalt can be attributed to minute quantities of cobalt trapped within particles not dissolved by the aqua regia digestion. Iron shows substantial concentration differences between analytical methods as well as a weaker correlation ($r = 0.718$). These results can be associated with the presence of variable amounts of magnetite and hematite commonly found in stream sediment samples.

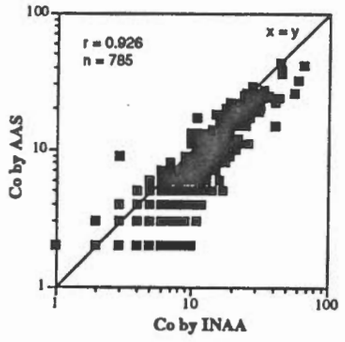

Figure 3a. Scatterplot comparing INAA vs. AAS results for Co (ppm)

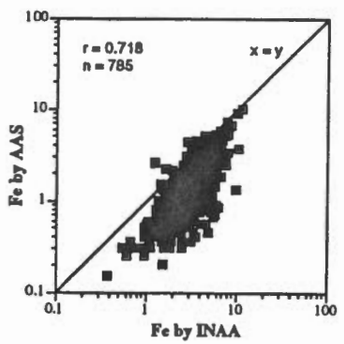

Figure 3b. Scatterplot comparing INAA vs. AAS results for Fe (%)

INTERPRETATION OF GOLD DATA

Understanding gold geochemical data from regional stream sediment surveys requires an understanding of the chemical and physical characteristics of gold in the surficial environment.

Gold is a soft, malleable element of high density (19.3 g/cm^3). Gold is chemically inert and commonly occurs in native form (pure Au) or as electrum (alloyed with silver). Sub-micron sized gold is often bound to clays, adsorbed onto Fe-Mn oxides or contained within organic colloids. At normal surface temperatures, gold will dissolve under rare conditions of high oxidation potential and high acidity where ions such as chloride (Cl^-), thiosulphate (S^2O^{3-2}) or cyanide (CN^-) are present. Normal background concentrations for gold in bedrock vary, but are generally less than 5 ppb. Background levels encountered for stream sediments seldom exceed 10 ppb and commonly are near the detection limit of 2 ppb.

Gold generally occurs as rare, discrete particles. In many instances a geochemical subsample may or may not contain a gold grain. This is known as the '*nugget effect*'. Generally, larger geochemical sample sizes are required to minimize the nugget effect and more accurately represent gold concentrations. (Clifton *et al.*, 1969; Harris, 1982). Neutron activation analyses for the 1992 RGS analytical program utilized samples weighing on average 15 grams.

Follow-up investigations of gold anomalies should be based on careful consideration of related geological and geochemical information and an understanding of the variability of gold geochemical data. Once an anomalous area has been identified, field investigations should be designed to include detailed geochemical follow-up surveys and collection of large, representative samples. Analysis of field and analytical duplicate samples enables assessment of the reliability of gold results and permits better data interpretation.

ANOMALY RATING PROCEDURE

Stream sediments collected downstream from mineralized sources commonly exhibit enhanced concentrations for specific elements. An interpretive technique has been developed to highlight sample sites characterized by anomalous, multi-element signatures (Figure 4). As an example of this methodology, sample evaluation charts (Appendix D) and 1:500 000 scale anomaly maps (Map Booklet) have been produced which outline areas considered to have high base metal and precious metal potential.

METHODOLOGY

Element concentrations for stream sediment samples typically reflect the underlying geology found within the sampled drainage basin. Considerable variability in element concentrations are associated with different lithologies and must be considered in order to distinguish samples which are being influenced by mineralized sources from lithological units characterized by high background values. Consequently, analytical data is initially subset on the basis of the underlying lithology found at each sample site (STEP 1). To better estimate element variability within lithologies, data from the total 1992 analytical data set were included. The 90th, 95th and 98th percentiles for each element were calculated for lithologies having 10 or more sample sites (STEP 2) and the results are listed in a threshold table (Appendix D). Element concentrations for each sample can then be compared to the calculated threshold values and assigned an anomaly rating (STEP 3).

The following rating assignments have been used for this example :

- an anomaly rating of 1 for concentrations >= 90th but < 95th percentile,
- an anomaly rating of 2 for concentrations >= 95th but < 98th percentile,
- an anomaly rating of 3 for concentrations >= 98th percentile.

Sample evaluation charts graphically display the anomaly rating for individual elements. The summed element ratings provide a measure of the anomalous multi-element nature of each sample. Anomaly maps produced from the sample evaluation charts highlight the spatial relationships between anomalous samples.

Utilizing the above technique, sample evaluation charts (Appendix D) and anomaly maps (Map Booklet) have been generated to aid the user in identifying potential base metal and precious metal targets. Lithologies having less than 10 sample sites utilized threshold values determined from the Provincial RGS data set and samples must have a minimum rating of 3 to be included in the charts. The element suite used for the identification of base and precious metal multi-element anomalies include Cu - Pb - Zn - Ag and Au - Sb - As - Hg - Ag respectively.

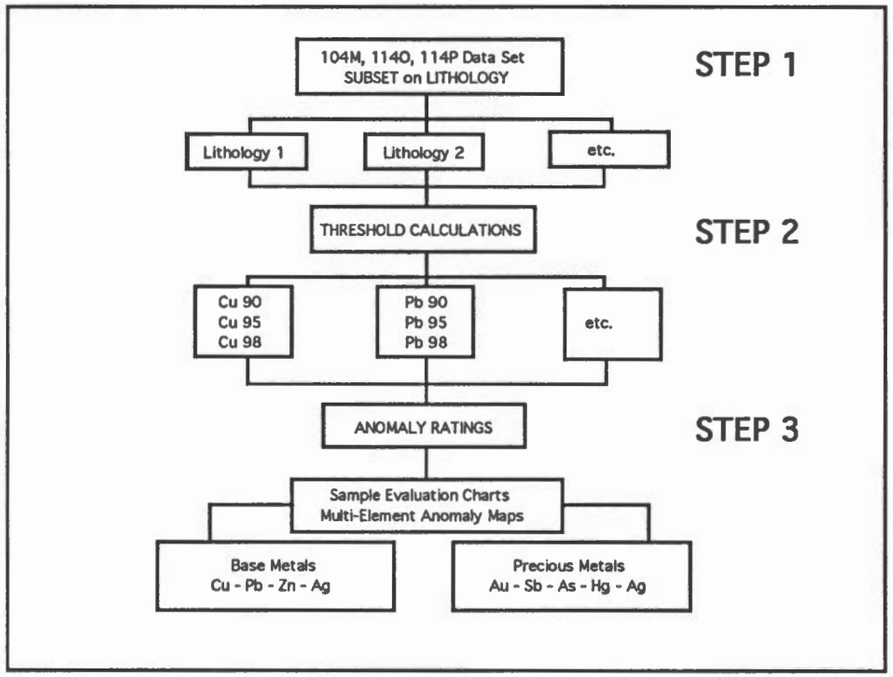

Figure 4. Anomaly Rating Flowchart

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BRITISH COLUMBIA REGIONAL GEOCHEMICAL SURVEY

BC RGS 37 - NTS 104M Skagway

APPENDIX A

FIELD OBSERVATIONS AND ANALYTICAL DATA

Notes:

- Repeat analysis of Au (reported as Au2) have been performed on a separate split for samples reporting Au values exceeding 23 ppb. This level represents the 95th percentile for Au based on the total 1993 RGS data set for map sheets 104M, 114O and 114P.
- Analytical duplicate results for Au are also reported as Au2.
- Sample weight for original INAA is reported as Wt.

TABLE A-1. REFERENCE GUIDE FOR FIELD OBSERVATIONS

MAP 1:50,000 NTS map sheet number

SAMPLE ID Sample Number

UTM ZONE UTM Zone

UTM EAST UTM East Coordinate

UTM NORTH UTM North Coordinate

ELEV Site Elevation (metres)

STA Replicate Sample Status :

- Routine Sample
- 10 1st Field Duplicate
- 20 2nd Field Duplicate

MED Sample Media Collected :

- 1 Stream Sediment
- 6 Steam Sediment and Water

FORM Geological Formations (see Table A-2)

WAT COL Water Color :

0	Colorless	2	White Cloudy
1	Brown Clear	3	Brown Cloudy

FLW Water Flow Rate :

0	Stagnant	3	Fast
1	Slow	4	Torrent
2	Moderate		

SED COL Sediment Color :

R	Red	O	Olive-Green
W	White-Buff	G	Grey-Blue
B	Black	P	Pink
Y	Yellow	T	Tan-Brown

SED PPT Sediment Precipitate : N = None

(otherwise, same as SED COL)

CON Site Contamination :

N	None	A	Agricultural
P	Possible	D	Domestic
M	Mining	F	Forestry

COMP Sediment Composition : Estimate of Sand-Fines_Organic Content

- 0 Absent
- 1 Minor(<1/3 of total)
- 2 Moderate (>1/3 but <2/3 of total)
- 3 Major (?2/3 of total)

STRM WDTH Stream Width (metres)

STRM DPTH Stream Depth (centimetres)

BNK Bank Composition :

U	Unknown	G	Glacial Outwash
A	Alluvium	R	Rock
C	Colluvium	S	Scree, talus
T	Till	O	Organic

BNK PPT Bank Precipitate : N = None

(otherwise, same as SED COL)

CHL BED Channel Bed :

B	Boulders	F	Fine sand/clay
S	Coarse sand/gravel	O	Organic

CHL PTN Channel Pattern :

S	Shoots/Pools	M	Meandering
B	Braided	D	Disturbed

PHY Physiography :

L	Lowland	H	Hilly
S	Swamp	M	Mature Mts
P	Plateau	Y	Youthful Mts

DRN Drainage Pattern :

D	Dendritic	I	Interrupted
H	Herringbone	G	Glacially deranged
R	Rectangular		

TYP Stream Type :

P	Permanent	R	Re-emergent
S	Seasonal		

ODR Stream Order :

1	Primary	3	Tertiary
2	Secondary	4	Quaternary

SRC Stream Source :

U	Unknown	S	Spring Runoff
G	Groundwater	M	Meltwater

DATE Sample Collection Date (day-month)

WT Weight of Sample Analyzed by INAA

TABLE A-2. REFERENCE GUIDE FOR GEOLOGICAL FORMATIONS (modified from Mihalynuk and Smith, 1993)

QUATERNARY DEPOSITS

Qal	Extensive areas of unconsolidated glacial till and poorly sorted alluvium.

INTRUSIVE ROCKS

eTg, eTgd	Coast plutonic complex, dominantly granodiorite and other undifferentiated granitoids.
KTg	Late Cretaceous to Eocene granitoid rocks of the Coast Mountains, undifferentiated.
lKg, lKgd	Late Cretaceous undifferentiated granitoid rocks; granodiorite. Mainly associated with the Coast plutonic complex.
Kg, Kqm	Undifferentiated Cretaceous granitoid rocks. In part equivalent to lKg.
eKg, eKt	Early Cretaceous undifferentiated granitoid rocks; tonalite.
mlJg	Middle or late Jurassic granotoids.
eJgd, eJh	Hale Mountain granodiorite and related(?) hornblendite (184-187 Ma).
lTgd, lTg lThg	Granodiorite, minor leucogranite, quartz diorite, and gabbro of late Triassic age. May be altered or slightly deformed. Includes the Bennett pluton.
PTgd	Permo-Triassic(?) intrusive rocks of unknown affinity.

LATE MESOZOIC/TERTIARY EXTRUSIVE ASSEMBLAGES

Es	Skukum volcanic suite; mainly intra-caldera facies dominated by intermediate to felsic tuffs and flows of Eocene age.
eEs	Sloko Group, undivided, aerially extensive rhyolite to andesite breccia and tuff of Early Eocene age.
Pt	Tagish volcanic suite; dominantly intra-caldera megabreccia and intermediate to felsic tuffs and flows of Paleocene age.
Km	Montana Mountain suite. Mainly intermediate to felsic tuffs and flows.
lKtv	Windy-Table volcanic suite. Quartz-phyric ash flows and intermediate breccia and tuff.
lmJv	Tutshi volcanic suite. Basalt to dacite flows and tuff of interpreted lower to middle Jurassic age.
lJL	Laberge Group undifferentiated. Includes siltstone, arenaceous greywacke, argillite, and conglomerate of Early Jurassic age.
lJLg	Laberge Group; mainly medium to coarse, quartz-bearing wacke.
lJLa	Laberge Group; mainly argillite with subordinate siltstone and wacke.

OLDER VOLCANIC ASSEMBLAGES, SEDIMENTARY, AND METAMORPHIC ROCKS

STIKINE(?) TERRANE

uTs	Stuhini Group, undifferentiated. Includes feldspar-phyric and pyroxene-phyric flows, tuff, tuffite, and breccia; conglomerate, limestone, argillite.
uTss	Stuhini Group; dominated by volcanic derived sediments of coarse conglomerate to silty argillite composition.
uTsv	Stuhini Group; dominated by bladed plagioclase and pyroxene-phyric flows rocks (lower) or intermediate tuffs (higher in section).
PPmb	Boundary Ranges metamorphic suite, undifferentiated: Metamorphosed siltstone, greywacke, tuff, greenstone, and limestone metamorphosed to transitional greenschist-amphibolite facies, regionally retrograded. Current data permits a Permian to Devonian age.

CACHE CREEK TERRANE

MTc	Undifferentiated Cache Creek Complex. Sheared melange consisting of pods of ultramafic rocks, greenstone, marble, chert, and clastics in a sheared matrix of greywacke and argillite. Mississippian to Late Triassic age.
MTCs	Mainly pelagic and hemipelagic sediments
MTCl	Mainly limestone
MTCb	pillow basalt, gabbro and minor ultramafic tectonite.
TP	Undivided Peninsula Mountain volcano-sedimentary suite. Includes basaltic to rhyolitic tuff, breccia and tuff of Middle to Late Triassic age.

NISLING TERRANE?

PPgn	Florence Range Metamorphic Suite. Includes semipelitic, pelitic, carbonate, amphibolite and calcsilicate schist and gneiss. Paleozoic and Late Proterozoic protoliths are most likely.
PMgn	Gneiss and schist; age and affinity uncertain, but possibly Mezozoic or older.

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M15	921002	8	508846	6629595	760		6	lKg	0	2	T	N	P	310	3.0	50	A	N	S	S	M	D	P	3	G	3107
104M15	921003	8	509524	6630663	760		1	lKg			T	N	N	310	3.0	50	A	N	S	S	M	D	S	2	S	3107
104M15	921004	8	511403	6633687	790		1	lTg			T	N	N	310	4.0	60	S	N	B	B	M	D	S	1	S	3107
104M15	921005	8	511731	6634893	790	10	6	lTg	0	3	T	N	N	220	2.5	50	S	N	B	B	M	D	P	2	G	3107
104M15	921006	8	511731	6634893	790	20	6	lTg	0	3	T	N	N	220	2.5	50	S	N	B	B	M	D	P	2	G	3107
104M15	921007	8	511483	6636437	760		6	PPmb	0	2	T	N	N	221	2.0	50	R	N	S	S	M	D	P	1	G	3107
104M11	921008	8	493670	6614400	965		6	eTg	2	3	G	N	N	210	7.0	200	R	N	B	S	M	D	P	3	M	0208
104M11	921009	8	496793	6619668	910		6	eTg	0	1	T	N	P	311	1.0	20	O	N	O	S	M	D	P	2	M	0208
104M11	921010	8	494855	6617410	940		6	eTg	0	2	T	N	N	211	1.0	30	O	N	S	S	M	D	P	1	M	0208
104M11	921011	8	498120	6620538	940		6	eTg	0	2	T	N	N	210	2.0	20	O	N	S	S	M	D	P	1	M	0208
104M15	921013	8	505062	6629336	780		6	lKg	0	2	T	N	N	210	1.0	60	O	N	B	M	H	D	P	1	S	0208
104M15	921014	8	504643	6629230	780		6	lKg	0	2	T	N	N	210	2.0	100	A	N	S	S	H	D	P	2	G	0208
104M15	921015	8	504468	6628771	780		6	lKg	0	1	T	N	N	210	4.0	60	O	N	B	M	H	D	P	3	S	0208
104M15	921016	8	512007	6642111	790		6	lJLg	0	1	T	N	N	211	2.0	50	O	N	S	M	H	D	P	1	G	0208
104M08	921017	8	555400	6577751	720		6	Qal	2	2	G	N	N	210	3.0	100	O	N	S	S	M	D	P	1	G	0608
104M08	921018	8	555733	6570515	675		6	uTsv	0	2	T	N	N	210	2.0	30	O	N	S	S	M	D	P	1	G	0608
104M08	921019	8	553575	6569900	720		6	lTgd	0	2	T	N	N	220	2.0	50	A	N	S	S	M	D	P	1	G	0608
104M08	921020	8	551132	6570809	700		6	lTgd	0	2	T	N	N	110	2.0	40	A	N	S	S	M	D	P	1	M	0608
104M08	921022	8	532728	6578895	1320	10	6	Kg	3	2	G	N	N	210	2.0	50	A	N	S	S	M	D	P	1	M	0608
104M08	921023	8	532728	6578895	1320	20	6	Kg	3	2	G	N	N	210	2.0	50	A	N	S	S	M	D	P	1	M	0608
104M08	921024	8	530940	6578893	1200		6	PPgn	2	2	W	N	N	220	7.0	30	A	N	S	S	M	D	P	1	M	0608
104M08	921025	8	529341	6580506	1000		6	Qal	2	2	G	N	N	220	5.0	50	A	N	S	S	M	D	P	1	M	0608
104M08	921026	8	528681	6585967	720		6	Kg	2	2	G	N	N	120	2.0	30	A	N	S	S	M	D	P	1	M	0608
104M16	921027	8	550750	6630372	1050		6	eTg	0	1	G	N	N	210	2.0	40	O	N	S	M	M	D	P	1	M	1008
104M08	921028	8	529145	6585958	720		6	Kg	2	2	T	N	N	111	2.0	40	A	N	B	S	M	D	P	1	M	0608
104M08	921029	8	532084	6585289	680		6	Kg	2	2	G	N	N	220	4.0	30	A	N	S	S	M	D	P	1	M	0608
104M08	921031	8	532394	6586983	740		6	Kg	0	2	T	N	N	310	2.0	50	A	N	S	S	M	D	P	1	M	0608
104M08	921032	8	533938	6587289	780		6	Kg	0	2	T	N	N	220	2.0	50	A	N	S	S	M	D	P	1	M	0608
104M08	921033	8	536858	6585659	720		6	Kg	0	3	T	N	N	220	2.0	40	A	N	S	S	M	D	P	1	M	0608
104M08	921034	8	538121	6585923	720		6	eJgd	2	3	G	N	N	220	4.0	50	A	N	B	S	M	D	P	1	M	0608
104M08	921035	8	540137	6586780	690		6	Kg	0	2	T	N	N	120	5.0	100	A	N	B	S	M	D	P	1	M	0608
104M08	921036	8	536295	6594081	1180		6	eJgd	0	2	G	N	N	210	2.0	40	A	N	B	S	M	D	P	2	M	0608
104M08	921037	8	534679	6593096	1240		6	eJgd	0	3	G	N	N	210	3.0	60	A	N	B	S	M	D	P	1	M	0608
104M09	921038	8	555796	6606195	755		6	Qal	0	1	G	N	N	120	3.0	50	O	N	F	M	M	D	P	1	M	0608
104M09	921039	8	551226	6604859	980		6	lJLg	0	1	T	N	N	310	2.0	40	O	N	S	M	M	D	P	1	M	0608
104M09	921040	8	547113	6602139	1190		6	lJLg	0	1	T	N	N	121	3.0	50	O	N	S	M	M	D	P	1	M	0608
104M09	921042	8	550655	6598650	1190		6	Qal	0	2	G	N	N	211	2.0	40	O	N	S	M	M	D	P	3	M	0608
104M09	921043	8	549314	6596882	1220		6	lJLg	0	2	G	N	N	211	2.0	50	O	N	S	M	M	D	P	1	M	0608
104M08	921045	8	549316	6594375	1200		6	lJLg	0	2	G	N	N	210	2.0	40	A	N	S	S	M	D	P	1	M	0608
104M08	921046	8	547848	6590379	1000	10	6	lJLg	0	2	T	N	N	210	7.0	50	A	N	S	S	M	D	P	1	M	0608

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Water				Stream Sediment													
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
	SAMPLE	UTM	UTM	UTM			ppb	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	ION	LIF	TURB	GCE	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M15	921002	8	508846	6629595		6	lKg	40	0.37	5.1	7.1	1.0	35.0	0.5	0.2	4	11	330	1.40	11	224	30	1	4	0.2	21	47	1.5	
104M15	921003	8	509524	6630663		1	lKg					1.6	34.0	0.7	0.5	7	13	350	1.90	22	370	30	2	7	0.3	27	65	3.5	
104M15	921004	8	511403	6633687		1	lTg					4.0	140.0	0.5	0.3	21	49	390	5.00	36	1120	40	4	14	0.2	76	116	4.4	
104M15	921005	8	511731	6634893	10	6	lTg	30	0.05	2.0	7.1	4.1	150.0	0.3	0.2	16	28	270	3.20	12	461	30	2	26	0.2	47	64	2.9	
104M15	921006	8	511731	6634893	20	6	lTg	30	0.08	2.0	7.2	3.9	130.0	0.4	0.2	18	31	240	3.40	13	451	30	2	27	0.2	49	66	3.3	
104M15	921007	8	511483	6636437		6	PPmb	40	0.13	7.3	7.5	10.0	170.0	0.6	1.1	16	50	410	4.30	30	780	50	3	25	0.4	65	121	13.9	
104M11	921008	8	493670	6614400		6	eTg	40	0.11	1.2	7.2	0.3	1.9	0.2	0.2	3	4	240	0.60	5	73	30	2	2	0.2	16	17	0.3	
104M11	921009	8	496793	6619668		6	eTg	120	0.83	1.3	7.5	0.2	1.0	0.2	0.3	3	6	350	1.30	14	331	70	3	2	0.2	18	57	15.4	
104M11	921010	8	494855	6617410		6	eTg	60	0.11	1.4	7.3	0.4	1.6	0.2	1.9	7	12	520	3.20	61	538	40	6	3	0.3	64	287	10.2	
104M11	921011	8	498120	6620538		6	eTg	80	2.25	2.4	7.6	0.2	2.7	0.2	0.2	7	6	280	1.60	18	274	40	4	4	0.2	34	64	4.9	
104M15	921013	8	505062	6629336		6	lKg	70	0.80	1.1	7.7	0.3	7.8	0.2	0.2	4	5	160	1.10	7	120	40	1	2	0.2	21	31	2.1	
104M15	921014	8	504643	6629230		6	lKg	40	0.33	0.4	7.4	0.4	3.6	0.5	0.2	6	7	410	1.80	14	331	40	1	3	0.2	29	63	3.1	
104M15	921015	8	504468	6628771		6	lKg	50	0.54	0.4	7.3	0.2	3.2	0.3	0.2	2	4	340	0.80	8	129	30	2	2	0.2	12	41	2.1	
104M15	921016	8	512007	6642111		6	lJLg	220	0.70	86.0	8.1	1.6	43.0	0.2	0.2	6	17	190	1.30	10	243	30	2	7	0.2	28	56	5.6	
104M08	921017	8	555400	6577751		6	Qal	50	0.05	0.6	7.1	0.4	5.8	0.2	0.2	4	9	370	1.20	9	136	20	1	3	0.2	25	37	0.7	
104M08	921018	8	555733	6570515		6	uTsv	40	0.05	3.0	7.8	5.6	21.0	0.2	0.3	18	94	300	3.50	7	810	160	1	17	0.2	72	78	11.7	
104M08	921019	8	553575	6569900		6	lTgd	40	0.05	0.8	7.6	12.0	13.0	0.2	1.0	12	36	300	1.80	18	488	340	1	20	0.2	28	237	3.4	
104M08	921020	8	551132	6570809		6	lTgd	40	0.05	0.5	7.0	6.3	7.9	0.2	0.3	6	17	350	1.50	17	263	50	2	15	0.2	38	59	2.7	
104M08	921022	8	532728	6578895	10	6	Kg	40	0.12	3.2	7.8	0.6	12.0	0.3	0.4	7	27	290	1.40	11	146	30	2	15	0.2	38	54	1.6	
104M08	921023	8	532728	6578895	20	6	Kg	40	0.12	3.2	7.8	0.5	14.0	0.2	0.3	6	19	220	1.20	6	144	30	2	13	0.2	36	40	2.0	
104M08	921024	8	530940	6578893		6	PPgn	60	0.30	1.3	7.0	0.2	2.1	0.4	0.2	2	3	100	0.40	2	43	20	1	2	0.2	5	11	0.1	
104M08	921025	8	529341	6580506		6	Qal	70	0.25	1.6	7.1	0.2	4.0	0.5	0.4	2	11	300	0.70	17	120	20	1	2	0.2	18	51	0.4	
104M08	921026	8	528681	6585967		6	Kg	30	0.10	1.2	6.7	0.2	0.8	0.3	0.2	7	13	250	1.00	5	146	20	1	4	0.2	35	29	1.1	
104M16	921027	8	550750	6630372		6	eTg	60	4.29	5.1	8.3	0.2	1.1	0.2	0.2	5	8	220	0.65	2	141	30	2	8	0.2	28	33	10.2	
104M08	921028	8	529145	6585958		6	Kg	30	0.05	2.0	7.0	0.2	1.3	0.4	0.3	13	30	420	2.20	14	433	40	2	11	0.5	72	72	9.1	
104M08	921029	8	532084	6585289		6	Kg	200	0.08	1.0	7.0	0.3	4.0	0.4	0.2	3	8	280	1.20	15	244	20	1	2	0.2	14	56	1.0	
104M08	921031	8	532394	6586983		6	Kg	80	7.00	7.7	7.5	0.4	1.5	0.2	0.2	9	13	350	1.40	20	320	20	1	4	0.2	36	61	1.8	
104M08	921032	8	533938	6587289		6	Kg	40	25.50	3.0	7.6	0.2	0.7	0.2	0.2	3	4	140	0.20	12	166	20	1	2	0.2	8	15	0.7	
104M08	921033	8	536858	6585659		6	Kg	40	0.11	0.8	7.0	0.3	2.1	0.5	0.7	6	16	330	1.40	64	278	30	3	3	0.2	35	108	3.4	
104M08	921034	8	538121	6585923		6	eJgd	40	0.05	1.1	7.1	0.2	1.4	0.3	0.2	5	12	190	1.00	15	113	20	1	4	0.2	18	38	1.8	
104M08	921035	8	540137	6586780		6	Kg	30	0.05	3.6	7.1	0.2	2.1	0.2	0.2	7	10	270	1.30	7	228	40	1	2	0.2	26	42	1.4	
104M08	921036	8	536295	6594081		6	eJgd	30	0.05	9.0	7.2	0.2	3.8	0.2	0.2	8	20	280	1.60	9	218	20	1	11	0.2	32	41	5.1	
104M08	921037	8	534679	6593096		6	eJgd	30	0.23	1.4	6.9	0.2	1.0	0.5	0.2	2	12	200	0.55	10	219	30	2	2	0.2	12	20	0.5	
104M09	921038	8	555796	6606195		6	Qal	30	0.05	13.0	7.8	0.9	8.0	0.2	0.2	9	21	210	2.40	8	212	30	1	16	0.2	56	68	3.0	
104M09	921039	8	551226	6604859		6	lJLg	50	0.05	6.9	7.8	1.0	4.1	0.2	0.2	6	12	220	1.80	6	336	30	2	11	0.2	44	75	4.4	
104M09	921040	8	547113	6602139		6	lJLg	30	0.05	6.3	7.0	3.4	14.0	0.2	0.4	10	34	270	4.00	13	930	80	5	16	0.3	57	95	25.8	
104M09	921042	8	550655	6598650		6	Qal	30	0.05	4.5	7.4	1.6	23.0	0.2	0.4	10	21	230	2.50	15	588	40	2	13	0.2	62	91	6.8	
104M09	921043	8	549314	6596882		6	lJLg	30	0.05	8.5	7.3	2.2	34.0	0.5	0.6	9	27	180	3.20	27	397	40	2	14	0.2	60	113	7.5	
104M08	921045	8	549316	6594375		6	lJLg	20	0.05	15.0	7.5	4.6	42.0	0.2	0.6	13	38	280	3.30	18	444	50	2	29	0.2	62	137	8.2	
104M08	921046	8	547848	6590379	10	6	lJLg	30	0.38	57.0	8.1	4.5	31.0	0.2	0.6	11	36	320	2.80	16	440	80	3	28	0.2	31	135	3.5	

FIELD OBSERVATIONS AND ANALYTICAL DATA

								Stream Sediment																							
								Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	:D.L.
								2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:Unit
MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g	:Mthd
104M15	921002	8	508846	6629595		6	lKg	9		1.6	36.0	740	0.5	100	4	14	5	13	2.19	58	0.41	1	20	92	5.8	6.4	2.48	1.7	1.0	37.0	3	14.0	3.5	13.47	
104M15	921003	8	509524	6630663		1	lKg	16		3.1	38.0	1100	5.2	120	7	26	8	14	3.59	72	0.42	1	20	120	6.7	7.4	2.10	1.8	0.5	37.0	7	22.0	3.6	11.73	
104M15	921004	8	511403	6633687		1	lTg	363	130	7.5	160.0	1300	5.6	130	9	30	24	10	6.36	75	0.41	1	20	70	7.2	16.0	1.84	0.8	0.9	18.0	1	6.9	3.7	11.73	
104M15	921005	8	511731	6634893	10	6	lTg	30	4	10.0	140.0	980	0.5	81	9	63	16	6	4.01	52	0.34	1	20	83	4.4	13.0	1.87	0.6	0.8	19.0	3	6.6	2.2	26.63	
104M15	921006	8	511731	6634893	20	6	lTg	94	10	10.0	170.0	1100	0.5	110	10	77	19	9	4.34	64	0.36	1	20	89	5.5	15.0	2.03	0.8	0.5	17.0	1	6.6	2.5	13.21	
104M15	921007	8	511483	6636437		6	PPmb	15		22.0	190.0	1000	16.0	66	11	82	17	6	4.67	38	0.35	1	20	84	5.1	16.0	1.45	1.5	0.5	10.0	1	15.0	3.2	10.38	
104M11	921008	8	493670	6614400		6	eTg	12		0.5	3.6	1700	0.5	150	1	11	4	33	3.50	85	0.44	1	20	54	7.9	7.9	2.68	1.3	0.5	28.0	1	8.3	3.7	9.47	
104M11	921009	8	496793	6619668		6	eTg	5		0.2	0.5	1500	8.0	88	3	17	6	7	2.09	92	0.43	1	20	110	9.1	8.0	2.30	0.5	1.4	22.0	1	92.0	2.5	10.80	
104M11	921010	8	494855	6617410		6	eTg	2		0.4	3.4	1100	16.0	74	4	34	12	10	5.44	43	0.27	1	20	76	6.3	17.0	1.83	0.5	0.8	12.0	1	17.0	2.7	10.75	
104M11	921011	8	498120	6620538		6	eTg	2		0.5	3.5	1000	10.0	120	3	50	8	13	4.55	71	0.34	1	20	110	7.5	8.9	2.20	1.6	0.5	26.0	1	84.0	2.9	11.92	
104M15	921013	8	505062	6629336		6	lKg	2		0.6	7.8	1100	0.5	150	3	19	5	27	4.29	99	0.68	1	20	75	9.9	6.9	2.37	3.5	1.2	32.0	1	17.0	5.5	13.88	
104M15	921014	8	504643	6629230		6	lKg	2		0.4	3.4	1200	3.3	110	7	25	7	24	3.76	67	0.66	1	20	140	7.5	8.1	2.69	3.6	0.5	41.0	5	27.0	5.0	11.39	
104M15	921015	8	504468	6628771		6	lKg	2		0.5	3.3	750	2.0	58	6	5	3	6	1.29	36	0.43	1	20	140	4.4	4.1	2.97	1.3	1.0	22.0	1	13.0	2.9	12.86	
104M15	921016	8	512007	6642111		6	lJLg	2		3.8	42.0	970	4.4	100	5	50	7	15	2.86	56	0.64	1	20	87	5.5	7.6	2.14	1.7	1.1	19.0	8	9.3	5.4	11.38	
104M08	921017	8	555400	6577751		6	Qal	2		1.6	6.6	2000	0.5	91	2	15	6	11	3.29	49	0.56	1	20	79	7.1	11.0	3.43	0.5	0.5	11.0	1	5.4	3.8	12.87	
104M08	921018	8	555733	6570515		6	uTsv	2		14.0	25.0	1200	9.2	41	4	180	21	5	6.88	18	0.31	1	20	47	4.3	24.0	1.29	0.9	0.5	3.5	1	1.9	2.2	10.47	
104M08	921019	8	553575	6569900		6	lTgd	5		27.0	28.0	1300	0.5	38	5	160	11	5	3.40	19	0.20	1	20	52	3.3	9.8	1.66	0.8	0.5	3.7	1	1.2	1.3	11.63	
104M08	921020	8	551132	6570809		6	lTgd	2		19.0	17.0	1700	2.4	99	4	110	12	10	4.06	50	0.49	1	170	56	8.0	12.0	1.76	1.9	1.0	12.0	1	4.9	3.6	13.29	
104M08	921022	8	532728	6578895	10	6	Kg	2	4	0.9	12.0	1700	0.5	100	2	99	12	11	3.51	53	0.61	1	20	56	8.2	12.0	1.33	1.8	1.4	16.0	1	5.2	4.3	10.07	
104M08	921023	8	532728	6578895	20	6	Kg	2		0.8	12.0	1500	0.5	99	1	91	11	9	3.29	49	0.53	1	20	34	8.1	11.0	1.31	1.5	1.1	12.0	2	3.6	3.4	10.18	
104M08	921024	8	530940	6578893		6	PPgn	2		0.2	2.3	1200	0.5	200	2	5	1	14	1.30	120	0.43	1	20	110	8.0	1.4	2.73	1.0	0.5	48.0	1	10.0	2.6	13.21	
104M08	921025	8	529341	6580506		6	Qal	2		0.4	5.7	1500	0.5	120	2	17	4	18	3.14	69	0.68	1	20	77	7.6	8.8	2.72	0.5	0.5	28.0	6	12.0	4.7	13.88	
104M08	921026	8	528681	6585967		6	Kg	4		0.2	1.6	1200	0.5	140	2	53	11	17	4.20	85	0.52	1	20	72	7.8	14.0	2.43	1.8	0.5	33.0	3	12.0	3.4	13.05	
104M16	921027	8	550750	6630372		6	eTg	2		1.2	1.6	1300	9.7	60	2	120	6	5	1.48	32	0.21	1	20	77	4.1	8.7	2.38	0.5	0.5	7.7	1	5.0	1.6	10.58	
104M08	921028	8	529145	6585958		6	Kg	2		0.4	0.5	1200	14.0	96	3	43	19	8	4.98	51	0.50	1	150	55	7.5	18.0	1.95	1.6	0.5	16.0	4	27.0	2.9	10.18	
104M08	921029	8	532084	6585289		6	Kg	2		0.9	6.3	2200	0.5	92	2	5	3	9	2.43	46	0.66	1	20	100	7.4	9.7	3.16	1.2	1.0	14.0	1	6.2	4.6	13.50	
104M08	921031	8	532394	6586983		6	Kg	13		1.1	0.5	1200	3.5	180	2	26	12	11	4.95	100	0.75	1	125	95	9.7	12.0	2.49	2.3	0.5	40.0	4	23.0	4.7	13.34	
104M08	921032	8	533938	6587289		6	Kg	2		0.7	0.5	1100	0.5	160	2	8	3	9	1.56	93	0.70	1	20	120	8.3	3.8	2.92	5.0	1.1	70.0	1	17.0	4.7	13.83	
104M08	921033	8	536858	6585659		6	Kg	2		1.4	2.4	1500	0.5	93	3	48	9	11	3.79	49	0.53	1	100	59	6.5	12.0	2.29	0.9	1.0	18.0	1	8.1	3.8	13.01	
104M08	921034	8	538121	6585923		6	eJgd	2		2.3	2.6	1100	0.5	47	1	50	6	4	2.51	24	0.36	1	20	49	4.1	12.0	2.39	0.5	0.7	6.2	1	2.5	2.3	10.55	
104M08	921035	8	540137	6586780		6	Kg	2		2.0	2.8	1100	1.8	60	1	21	7	6	3.10	31	0.37	1	20	49	4.9	11.0	2.48	0.5	0.7	6.8	1	2.1	2.4	10.28	
104M08	921036	8	536295	6594081		6	eJgd	9		0.5	3.5	740	0.5	53	2	52	11	4	2.82	26	0.38	1	110	37	4.5	13.0	2.24	0.5	0.6	8.2	1	2.8	2.7	13.65	
104M08	921037	8	534679	6593096		6	eJgd	5		0.7	1.0	660	0.5	110	2	16	4	10	1.99	59	0.82	1	20	93	6.2	4.6	2.67	3.6	0.5	44.0	8	30.0	5.2	10.53	
104M09	921038	8	555796	6606195		6	Qal	5		1.3	11.0	980	0.5	30	3	57	10	3	2.72	18	0.22	1	20	59	2.7	10.0	2.76	0.5	0.5	4.3	1	2.2	1.4	11.89	
104M09	921039	8	551226	6604859		6	lJLg	2		1.9	6.5	1200	4.3	52	2	170	9	10	2.75	27	0.37	1	20	60	3.8	13.0	2.80	0.7	0.6	6.0	1	2.5	2.2	13.00	
104M09	921040	8	547113	6602139		6	lJLg	2		4.2	18.0	1000	15.0	56	8	74	12	4	3.57	24	0.50	1	120	62	5.7	15.0	1.28	0.5	0.5	6.7	1	3.4	3.0	8.21	
104M09	921042	8	550655	6598650		6	Qal	2		3.0	29.0	1200	12.0	48	3	96	11	6	3.41	25	0.31	1	20	71	3.9	12.0	2.30	0.5	0.6	5.7	1	3.6	2.2	11.13	
104M09	921043	8	549314	6596882		6	lJLg	2		3.9	43.0	1400	9.7	72	4	99	11	8	3.92	39	0.46	1	20	69	6.3	15.0	2.32	1.0	0.9	10.0	3	4.9	3.4	10.50	
104M08	921045	8	549316	6594375		6	lJLg	6		5.4	40.0	1100	27.0	58	10	120	15	7	4.29	30	0.38	1	20	78	5.1	14.0	1.77	0.5	0.7	7.9	1	4.9	2.7	10.93	
104M08	921046	8	547848	6590379	10	6	lJLg	2		4.8	31.0	1700	0.5	55	5	100	12	6	3.59	28	0.40	1	20	71	4.5	12.0	2.42	0.5	0.7	7.7	5	2.8	2.4	12.70	

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M08	921047	8	547848	6590379	1000	20	6	lJLg	0	2	T	N	N	210	7.0	50	A	N	S	S	M	D	P	1	M	0608
104M08	921048	8	546972	6590124	940		6	Qal	0	2	G	N	N	210	4.0	50	A	N	S	S	M	D	P	1	M	0608
104M08	921049	8	545470	6585691	840		6	uTsv	0	2	T	N	N	111	1.0	20	O	N	S	S	M	D	P	1	M	0608
104M08	921050	8	545433	6582478	880		6	uTss	0	3	T	N	N	210	4.0	10	C	N	B	S	M	D	P	1	M	0608
104M08	921051	8	547594	6576371	880		6	lTgd	0	1	G	N	N	111	2.0	30	A	N	B	S	M	D	P	1	M	0608
104M08	921052	8	549154	6582483	800		6	uTsv	0	2	G	N	N	210	1.0	20	O	N	S	S	M	D	P	1	M	0608
104M08	921053	8	549981	6583177	830		6	lKgd	0	1	G	N	N	120	5.0	50	O	N	S	M	M	D	P	1	M	0608
104M08	921054	8	552653	6583161	1040		6	lJLg	0	2	B	N	N	210	1.0	10	A	N	S	S	M	D	P	1	M	0608
104M08	921055	8	555364	6585282	1290		6	lJLg	0	1	B	O	N	211	0.5	10	A	N	S	S	M	D	P	1	M	0608
104M16	921056	8	552818	6634220	1010		6	Qal	0	1	G	N	N	111	10.0	50	O	N	S	M	M	D	P	1	M	1008
104M16	921058	8	547333	6639443	1160		6	MTCl	0	2	T	N	N	210	2.0	30	A	N	B	S	M	D	P	2	M	1008
104M16	921059	8	546326	6649419	700		6	MTCl	0	1	G	N	N	121	0.1	10	O	N	S	S	M	D	P	1	M	1008
104M16	921060	8	536299	6635597	1040		6	lJLg	0	2	G	B	N	210	3.0	50	A	N	S	S	M	D	P	1	M	1008
104M16	921063	8	546831	6623927	880		6	lJLg	0	2	T	N	N	111	0.2	5	A	N	S	S	M	D	P	2	M	1008
104M16	921064	8	551686	6625009	1230		6	MTCb	0	2	T	B	N	310	0.5	10	O	N	B	S	M	D	P	2	M	1008
104M16	921065	8	554520	6624740	920		6	MTCl	0	1	T	N	N	211	0.1	2	O	N	S	S	M	D	P	2	M	1008
104M09	921066	8	548664	6614376	780		6	Qal	0	2	G	N	N	211	1.0	30	O	N	S	M	M	D	P	2	M	1008
104M09	921067	8	551436	6620031	1040		6	lJLg	0	1	T	T	N	112	2.0	20	O	N	S	M	M	D	P	1	M	1008
104M09	921068	8	549488	6622318	1220		6	lJLg	0	2	G	N	N	121	0.4	5	A	N	S	S	M	D	P	1	M	1008
104M12	921069	8	444998	6615183	1000		6	KTg	0	3	T	N	N	310	2.5	70	C	R	B	S	Y	D	P	2	M	1308
104M12	921070	8	456138	6622238	280		6	KTg	0	3	T	N	N	310	3.0	40	A	R	B	S	Y	D	P	3	S	1308
104M13	921071	8	457173	6628572	1180		6	KTg	2	3	G	N	N	220	2.0	20	R	O	B	S	Y	D	P	1	M	1308
104M13	921072	8	456836	6625546	760		6	KTg	0	3	T	N	N	220	3.0	20	R	R	B	S	Y	D	P	3	M	1308
104M12	921073	8	455002	6623367	240		6	KTg	0	1	G	T	N	121	1.5	30	C	N	S	M	Y	D	P	1	G	1308
104M12	921074	8	450571	6618367	280		6	KTg	2	4	T	N	N	220	4.0	150	R	O	B	S	Y	D	P	2	M	1308
104M12	921075	8	450914	6619916	200		6	KTg	0	1	G	N	N	220	1.5	50	C	N	S	M	Y	D	P	2	G	1308
104M12	921076	8	454015	6621966	200		6	KTg	0	2	G	N	N	220	1.5	20	R	R	B	S	Y	D	P	1	G	1308
104M12	921077	8	451287	6620988	240		6	KTg	0	1	G	N	N	022	1.5	40	T	N	S	M	Y	D	P	2	G	1308
104M12	921078	8	450169	6622970	760		6	KTg	3	4	G	N	N	220	6.0	100	A	Y	B	S	Y	D	P	2	M	1308
104M13	921080	8	449462	6626859	1120		6	KTg	0	3	T	N	N	211	2.0	50	C	B	B	S	Y	D	P	1	S	1308
104M13	921082	8	451066	6630659	1480		6	KTg	0	2	G	N	N	310	2.0	30	R	R	B	S	Y	D	P	1	G	1408
104M13	921083	8	446474	6631110	1240		6	KTg	0	2	G	N	N	211	1.5	40	C	N	B	S	Y	D	P	1	G	1408
104M13	921085	8	446453	6632051	1230	10	6	KTg	0	1	T	N	N	310	1.5	30	C	N	S	M	Y	D	P	2	G	1408
104M13	921086	8	446453	6632051	1230	20	6	KTg	0	1	T	N	N	310	1.5	30	C	N	S	M	Y	D	P	2	G	1408
104M13	921087	8	448170	6633759	1300		6	KTg	2	2	G	N	N	220	4.0	100	A	N	B	S	Y	D	P	1	M	1408
104M13	921088	8	452798	6638806	1200		6	KTg	2	2	G	N	N	310	7.0	50	C	N	B	S	Y	D	P	1	M	1408
104M13	921089	8	453721	6642460	1000		6	eTg	0	1	T	N	N	310	1.5	30	A	N	B	S	Y	D	P	1	M	1408
104M13	921090	8	454544	6643790	960		6	KTg	0	1	G	N	N	310	2.0	40	A	N	B	S	Y	D	P	1	G	1408
104M13	921091	8	456020	6646781	920		6	KTg	0	1	T	N	N	220	1.5	30	C	N	B	S	Y	D	P	1	G	1408
104M13	921092	8	470721	6632345	1080		6	KTg	2	3	G	N	N	220	4.0	40	C	R	B	S	Y	D	P	1	M	1508

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Water				Stream Sediment													
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
	SAMPLE	UTM	UTM	UTM				ppb	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	ION	LIF	TURB	GCE	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M08	921047	8	547848	6590379	20	6	lJLg	60	0.33	57.0	8.1	4.1	26.0	0.2	0.7	11	36	270	2.90	16	421	70	1	25	0.2	27	132	3.2	
104M08	921048	8	546972	6590124		6	Qal	40	0.19	56.0	8.0	3.5	18.0	0.2	0.7	12	47	320	4.00	15	503	100	2	32	0.2	45	157	4.3	
104M08	921049	8	545470	6585691		6	uTsv	70	0.09	1.9	7.7	0.4	5.4	0.2	0.2	4	9	240	1.60	4	700	40	2	6	0.2	29	34	3.9	
104M08	921050	8	545433	6582478		6	uTss	30	0.05	5.0	7.5	7.5	27.0	0.2	0.2	15	78	280	4.10	13	554	90	2	41	0.2	83	94	6.4	
104M08	921051	8	547594	6576371		6	lTgd	70	0.35	1.6	7.3	0.5	2.6	0.2	0.3	5	7	480	1.50	21	253	40	2	5	0.2	25	75	3.8	
104M08	921052	8	549154	6582483		6	uTsv	40	0.05	2.3	7.4	5.1	33.0	0.2	0.3	15	58	300	3.50	13	397	70	3	34	0.2	74	104	7.2	
104M08	921053	8	549981	6583177		6	lKgd	50	0.12	5.9	7.6	2.4	18.0	0.2	0.3	8	29	300	2.30	8	218	30	3	23	0.2	48	91	3.7	
104M08	921054	8	552653	6583161		6	lJLg	50	0.25	18.0	7.7	2.1	32.0	0.5	0.3	13	26	260	3.40	14	469	20	2	25	0.2	75	102	3.6	
104M08	921055	8	555364	6585282		6	lJLg	40	0.05	3.8	7.5	4.3	60.0	1.3	0.3	12	40	300	4.20	32	685	50	2	22	0.2	67	87	17.5	
104M16	921056	8	552818	6634220		6	Qal	40	0.08	11.0	8.1	0.3	2.1	0.2	0.2	7	14	280	1.60	3	381	40	2	14	0.2	32	57	8.6	
104M16	921058	8	547333	6639443		6	MTCl	30	0.08	0.7	8.1	4.0	19.0	0.2	1.5	7	22	400	1.40	7	258	210	3	23	0.2	40	78	9.7	
104M16	921059	8	546326	6649419		6	MTCl	110	0.94	16.0	8.3	0.3	1.6	0.2	0.4	3	17	210	0.65	4	144	40	2	8	0.2	22	27	11.8	
104M16	921060	8	536299	6635597		6	lJLg	40	0.05	1.0	7.1	0.8	27.0	0.4	0.6	8	28	280	1.80	13	275	50	2	19	0.3	50	65	9.5	
104M16	921063	8	546831	6623927		6	lJLg	30	0.05	3.4	7.1	1.1	10.0	0.2	0.3	8	27	240	2.00	9	298	40	1	14	0.2	53	59	5.4	
104M16	921064	8	551686	6625009		6	MTCb	30	0.05	8.8	7.7	1.2	13.0	0.2	0.2	14	35	240	3.90	7	543	90	3	64	0.2	71	67	16.5	
104M16	921065	8	554520	6624740		6	MTCl	50	1.88	28.0	8.2	2.0	23.0	0.8	0.8	11	38	530	2.20	15	464	70	4	33	0.2	54	70	16.5	
104M09	921066	8	548664	6614376		6	Qal	60	0.65	9.5	8.2	0.3	2.3	0.2	0.2	4	12	170	1.10	2	217	40	1	9	0.2	29	33	3.6	
104M09	921067	8	551436	6620031		6	lJLg	50	0.45	49.0	8.1	1.5	16.0	0.2	0.4	8	60	230	2.70	6	395	220	2	17	0.2	39	82	18.9	
104M09	921068	8	549488	6622318		6	lJLg	60	0.15	24.0	7.7	0.7	6.8	0.2	0.2	7	21	240	1.40	6	271	50	1	12	0.2	42	53	4.4	
104M12	921069	8	444998	6615183		6	KTg	30	0.05	3.8	6.8	0.2	0.8	0.2	0.2	5	16	350	1.40	2	131	30	2	8	0.2	46	50	1.6	
104M12	921070	8	456138	6622238		6	KTg	30	0.05	0.9	7.5	0.2	1.9	0.2	0.2	4	4	320	1.50	3	319	40	2	2	0.2	24	74	1.4	
104M13	921071	8	457173	6628572		6	KTg	20	0.08	0.4	7.0	0.2	0.9	0.2	0.2	4	8	450	0.95	3	134	20	1	2	0.2	24	37	0.7	
104M13	921072	8	456836	6625546		6	KTg	20	0.05	0.3	6.7	0.2	2.4	0.2	0.2	3	4	330	1.40	4	235	30	2	2	0.2	25	60	4.1	
104M12	921073	8	455002	6623367		6	KTg	40	0.05	0.2	7.0	0.2	1.1	0.2	0.2	2	4	340	1.60	3	310	40	3	2	0.2	26	70	8.7	
104M12	921074	8	450571	6618367		6	KTg	30	0.05	2.9	6.9	0.2	1.2	0.2	0.2	6	23	430	1.50	2	165	30	2	10	0.2	46	57	1.5	
104M12	921075	8	450914	6619916		6	KTg	30	0.09	0.5	7.1	0.2	13.0	0.2	0.2	6	8	410	2.60	3	401	20	4	2	0.2	46	85	4.3	
104M12	921076	8	454015	6621966		6	KTg	40	0.11	0.5	7.3	0.2	2.5	0.2	0.2	2	3	290	1.00	2	177	30	2	2	0.2	17	48	2.5	
104M12	921077	8	451287	6620988		6	KTg	30	0.11	0.5	7.2	0.2	0.8	0.2	0.2	2	3	300	0.60	2	94	20	2	2	0.2	16	24	2.4	
104M12	921078	8	450169	6622970		6	KTg	30	0.05	0.5	6.6	0.2	2.6	0.2	0.2	2	4	260	0.35	2	50	20	1	2	0.2	10	15	0.3	
104M13	921080	8	449462	6626859		6	KTg	30	0.05	0.4	6.4	0.2	1.3	0.2	0.2	4	5	500	1.90	7	389	40	10	3	0.2	30	75	5.4	
104M13	921082	8	451066	6630659		6	KTg	20	0.05	0.1	6.7	0.2	0.6	0.2	0.2	2	2	430	1.40	2	216	20	2	2	0.2	28	53	1.0	
104M13	921083	8	446474	6631110		6	KTg	20	0.05	0.2	6.3	0.2	4.4	0.3	0.2	2	13	360	2.00	12	238	40	11	5	0.3	37	72	7.7	
104M13	921085	8	446453	6632051	10	6	KTg	30	0.16	6.2	7.2	0.2	9.0	0.2	0.2	2	4	200	0.75	3	125	40	5	2	0.2	15	38	5.7	
104M13	921086	8	446453	6632051	20	6	KTg	30	0.09	5.4	7.3	0.5	8.0	0.2	0.2	2	3	240	0.65	3	102	30	5	2	0.2	12	35	4.6	
104M13	921087	8	448170	6633759		6	KTg	30	0.09	1.7	6.9	0.2	0.3	0.2	0.2	2	3	320	0.65	2	77	30	1	2	0.2	16	19	0.4	
104M13	921088	8	452798	6638806		6	KTg	30	0.05	1.6	6.7	0.2	0.7	0.2	0.2	3	7	310	0.60	3	80	30	1	3	0.2	17	26	0.8	
104M13	921089	8	453721	6642460		6	eTg	300	0.05	1.4	7.3	0.2	6.0	0.6	0.2	2	11	410	0.85	8	98	40	2	2	0.2	19	37	0.4	
104M13	921090	8	454544	6643790		6	KTg	30	0.11	2.5	7.1	0.2	0.4	0.2	0.2	5	5	440	1.90	5	276	40	2	2	0.2	42	63	2.1	
104M13	921091	8	456020	6646781		6	KTg	40	0.05	0.7	6.8	0.2	0.8	0.2	0.2	7	14	460	2.80	11	588	40	2	14	0.2	44	79	13.6	
104M13	921092	8	470721	6632345		6	KTg	40	0.05	1.3	7.0	0.2	0.4	0.2	0.2	2	5	350	0.80	3	94	20	1	2	0.2	15	24	0.1	

FIELD OBSERVATIONS AND ANALYTICAL DATA

Stream Sediment

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt
								2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01
								ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	g
								INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	
104M08	921047	8	547848	6590379	20	6	lJLg	2	6	5.2	30.0	1700	1.3	54	5	110	12	7	3.69	29	0.37	1	100	67	4.5	13.0	2.54	0.5	0.6	7.6	1	3.2	2.5	12.97
104M08	921048	8	546972	6590124		6	Qal	2		4.0	25.0	1600	0.5	53	6	130	16	6	4.22	26	0.38	1	20	78	4.5	16.0	2.36	0.5	0.5	6.6	1	3.4	2.5	12.97
104M08	921049	8	545470	6585691		6	uTsv	2		2.6	7.7	1200	3.5	99	1	75	8	20	4.19	55	0.57	1	20	52	5.8	12.0	2.26	0.5	0.8	13.0	1	5.7	3.7	12.52
104M08	921050	8	545433	6582478		6	uTss	8		16.0	30.0	1100	12.0	53	10	300	21	6	5.86	27	0.36	1	20	97	4.9	20.0	1.83	0.5	0.5	5.8	1	3.1	2.5	12.31
104M08	921051	8	547594	6576371		6	lTgd	2		2.1	5.1	1800	12.0	87	6	28	7	6	3.12	45	0.54	1	20	79	7.3	12.0	2.95	0.5	1.0	14.0	1	32.0	3.6	11.41
104M08	921052	8	549154	6582483		6	uTsv	2		7.8	42.0	1400	11.0	48	5	180	17	5	4.99	25	0.35	3	20	73	4.8	21.0	1.90	0.5	0.7	6.0	1	3.4	2.5	11.30
104M08	921053	8	549981	6583177		6	lKgd	2		4.9	24.0	1200	0.5	62	3	250	14	10	4.60	31	0.41	1	20	59	5.0	18.0	2.26	1.0	0.5	6.8	1	4.3	2.8	12.72
104M08	921054	8	552653	6583161		6	lJLg	4		3.4	38.0	1100	3.3	61	4	160	15	6	4.27	31	0.37	1	20	51	5.2	16.0	2.06	0.6	0.7	8.2	1	4.4	2.6	13.51
104M08	921055	8	555364	6585282		6	lJLg	2		7.3	64.0	1000	44.0	47	6	86	14	5	3.96	28	0.38	1	20	47	4.8	13.0	1.55	0.5	0.7	6.9	5	26.0	2.5	8.26
104M16	921056	8	552818	6634220		6	Qal	5		1.0	3.0	1200	6.2	96	2	150	10	10	2.79	55	0.30	1	20	40	6.2	13.0	2.08	0.8	0.9	12.0	1	6.5	2.4	11.62
104M16	921058	8	547333	6639443		6	MTCl	15		5.6	28.0	1500	6.1	62	3	130	11	8	3.00	38	0.41	3	50	39	5.1	11.0	1.09	0.5	0.5	8.5	1	3.2	2.8	11.68
104M16	921059	8	546326	6649419		6	MTCl	2		0.7	2.7	890	9.4	37	1	53	5	3	1.36	19	0.19	1	20	38	2.6	6.0	1.23	0.5	0.5	4.9	1	1.3	1.1	8.50
104M16	921060	8	536299	6635597		6	lJLg	2		1.5	31.0	1200	40.0	63	3	130	10	9	3.17	34	0.40	1	20	77	4.7	11.0	2.10	1.0	1.0	10.0	1	8.7	2.5	10.13
104M16	921063	8	546831	6623927		6	lJLg	2		1.9	10.0	1000	6.6	62	3	76	11	8	3.17	34	0.39	1	20	59	4.7	12.0	1.97	0.6	0.5	9.3	1	3.1	2.5	12.36
104M16	921064	8	551686	6625009		6	MTCb	2		1.8	13.0	900	24.0	49	5	180	17	6	4.06	29	0.42	1	20	45	5.5	17.0	1.38	0.5	0.5	6.7	1	3.8	3.1	9.19
104M16	921065	8	554520	6624740		6	MTCl	6		3.3	28.0	930	16.0	75	14	150	14	6	3.05	42	0.27	3	20	59	5.4	12.0	1.20	0.5	0.8	10.0	1	3.6	1.9	10.07
104M09	921066	8	548664	6614376		6	Qal	6		0.8	2.6	1000	4.3	70	1	65	6	10	2.37	39	0.35	1	20	51	4.3	9.3	2.29	0.8	0.5	9.2	1	3.4	2.4	12.74
104M09	921067	8	551436	6620031		6	lJLg	6		2.9	20.0	890	23.0	45	5	92	10	5	2.93	26	0.37	2	20	56	4.3	14.0	1.79	0.6	0.7	6.0	4	2.7	2.3	9.30
104M09	921068	8	549488	6622318		6	lJLg	2		1.7	10.0	1100	5.5	65	3	67	11	6	2.90	32	0.39	1	20	46	4.9	12.0	2.27	0.5	0.6	8.8	1	4.1	2.6	11.79
104M12	921069	8	444998	6615183		6	KTg	5		0.2	0.5	1600	0.5	170	2	39	8	14	2.57	93	0.34	1	20	54	12.0	7.5	1.98	0.5	1.5	30.0	1	10.0	2.4	12.74
104M12	921070	8	456138	6622238		6	KTg	2		0.3	2.4	1200	0.5	84	1	6	5	7	3.02	42	0.40	1	20	45	6.4	10.0	2.66	0.5	0.7	8.8	1	3.3	2.6	13.05
104M13	921071	8	457173	6628572		6	KTg	3		0.1	2.0	1100	0.5	110	1	19	7	17	2.42	59	0.41	1	20	54	8.1	12.0	2.39	0.8	1.1	21.0	1	8.3	2.6	13.75
104M13	921072	8	456836	6625546		6	KTg	3		0.2	2.2	1100	7.1	93	1	9	4	10	2.93	48	0.41	1	20	45	6.3	9.7	2.51	1.0	0.5	11.0	1	6.6	2.9	11.47
104M12	921073	8	455002	6623367		6	KTg	2		0.3	0.5	1000	8.0	72	1	5	4	10	2.84	34	0.45	1	20	29	6.8	11.0	2.43	0.5	0.6	7.6	1	6.8	3.2	10.14
104M12	921074	8	450571	6618367		6	KTg	3		0.3	1.9	1300	0.5	150	2	54	11	12	3.54	74	0.54	1	20	62	11.0	15.0	1.84	1.1	1.2	24.0	1	8.3	4.1	12.00
104M12	921075	8	450914	6619916		6	KTg	4		0.4	17.0	1400	3.8	85	2	13	13	9	5.67	39	0.50	1	20	48	8.5	22.0	2.19	0.8	1.0	9.7	1	6.8	3.6	11.51
104M12	921076	8	454015	6621966		6	KTg	3		0.2	3.8	1000	0.5	84	2	8	4	11	2.80	42	0.54	1	20	37	7.4	12.0	2.48	0.5	0.8	12.0	1	6.1	3.5	12.18
104M12	921077	8	451287	6620988		6	KTg	2		0.1	1.7	980	0.5	78	1	6	4	12	2.26	41	0.34	1	20	32	5.9	11.0	2.49	0.5	0.6	11.0	1	4.3	2.2	12.25
104M12	921078	8	450169	6622970		6	KTg	17		0.2	3.2	750	0.5	89	1	11	6	20	3.15	45	0.44	1	20	15	7.5	16.0	2.70	0.5	0.9	9.3	1	6.3	3.1	13.54
104M13	921080	8	449462	6626859		6	KTg	6		0.2	0.5	970	6.6	110	1	11	6	21	3.58	51	0.75	1	20	60	8.2	13.0	2.75	0.9	0.9	17.0	1	22.0	4.3	10.76
104M13	921082	8	451066	6630659		6	KTg	3		0.2	0.8	1300	0.5	85	1	9	7	12	3.91	42	0.48	1	20	29	8.1	18.0	2.60	0.5	1.2	8.2	1	2.3	3.3	13.22
104M13	921083	8	446474	6631110		6	KTg	7		0.5	6.6	950	17.0	75	2	20	7	9	3.37	37	0.42	7	20	55	6.0	11.0	2.46	0.5	0.5	9.7	1	5.5	2.9	9.95
104M13	921085	8	446453	6632051	10	6	KTg	2		0.1	7.2	900	6.2	140	1	5	3	12	2.22	89	0.38	6	20	52	6.9	8.8	3.02	0.5	0.5	16.0	1	6.8	2.0	10.99
104M13	921086	8	446453	6632051	20	6	KTg	2		0.1	8.6	940	4.4	150	2	5	2	11	2.15	90	0.39	4	20	45	6.7	8.6	3.01	0.5	0.5	17.0	1	6.4	2.0	11.48
104M13	921087	8	448170	6633759		6	KTg	2	2	0.1	0.5	1300	0.5	120	1	7	5	20	2.24	71	0.46	1	20	15	6.9	11.0	3.20	0.9	0.5	20.0	1	7.1	2.4	10.21
104M13	921088	8	452798	6638806		6	KTg	2		0.1	0.5	1300	0.5	150	1	31	6	15	2.28	91	0.36	3	20	59	8.4	11.0	3.11	0.5	0.5	30.0	1	3.9	2.1	13.94
104M13	921089	8	453721	6642460		6	eTg	6		0.1	5.6	1200	0.5	49	1	12	3	5	1.73	26	0.31	1	20	86	3.8	5.6	3.29	0.7	0.6	5.1	4	1.7	2.0	13.32
104M13	921090	8	454544	6643790		6	KTg	2		0.1	0.5	1200	6.4	77	1	7	7	8	4.24	41	0.43	1	20	45	5.7	12.0	2.78	1.2	0.5	8.8	1	7.3	2.2	12.29
104M13	921091	8	456020	6646781		6	KTg	2		0.2	1.7	1200	24.0	110	2	88	12	9	4.70	65	0.44	1	20	80	7.4	13.0	2.11	0.5	0.5	13.0	1	4.8	2.4	8.69
104M13	921092	8	470721	6632345		6	KTg	4		0.1	0.5	1700	0.5	160	1	22	6	27	2.81	95	0.59	1	20	61	9.4	11.0	3.18	0.5	0.5	29.0	1	5.8	3.2	10.24

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M13	921093	8	470258	6633601	1080		6	KTg	2	2	G	N	N	220	6.0	30	A	N	B	S	Y	D	P	1	M	1508
104M13	921094	8	470041	6634446	1080		6	KTg	0	2	G	N	N	310	1.5	50	C	N	B	S	Y	D	P	1	G	1508
104M13	921095	8	470004	6635062	1040		6	KTg	0	2	T	N	N	310	3.0	30	A	N	S	S	Y	D	P	1	M	1508
104M13	921096	8	469929	6637162	1040		6	eTg	0	2	T	R	N	310	1.5	40	A	R	S	S	Y	D	P	1	G	1508
104M13	921097	8	469308	6638315	1100		6	eTg	0	2	T	R	N	310	1.5	30	A	R	B	S	Y	H	P	1	G	1508
104M13	921098	8	467171	6642713	1060		6	eTg	0	2	T	R	N	310	2.0	40	A	R	B	S	Y	H	P	2	G	1508
104M13	921099	8	466430	6644635	1080		6	eTg	0	2	T	N	N	310	2.0	50	C	R	B	S	Y	H	P	1	G	1508
104M13	921100	8	460566	6635250	1300		6	eTg	0	1	T	N	N	310	1.5	30	A	R	S	S	Y	D	P	1	G	1508
104M13	921102	8	460288	6635012	1300	10	6	eTg	2	2	G	N	N	220	3.0	50	A	O	S	S	Y	D	P	2	M	1508
104M13	921103	8	460288	6635012	1300	20	6	eTg	2	2	G	N	N	220	3.0	50	A	O	S	S	Y	D	P	2	M	1508
104M13	921104	8	459945	6637148	1260		6	eTg	0	2	T	N	N	310	1.5	50	A	R	B	S	Y	D	P	1	G	1508
104M13	921105	8	458524	6639668	1120		6	eTg	0	2	T	N	N	220	1.5	30	A	N	B	S	Y	H	P	2	G	1508
104M13	921106	8	458547	6641431	1120		6	eTg	2	2	T	N	N	220	2.0	40	A	N	S	S	Y	H	P	1	M	1508
104M13	921107	8	463680	6638732	1320		6	eTg	0	2	T	N	N	120	1.5	25	A	N	S	S	Y	H	P	1	M	1508
104M13	921108	8	464048	6642610	1240		6	KTg	0	2	T	N	N	310	2.0	100	C	N	B	S	Y	D	P	1	G	1508
104M13	921110	8	464486	6645783	1040		1	KTg			T	N	N	310	1.5	50	A	R	B	S	Y	H	S	2	S	1508
104M13	921111	8	465448	6647108	1060		6	eTg	0	2	T	N	N	220	2.0	50	A	R	B	S	Y	D	P	1	G	1508
104M13	921112	8	465487	6648553	1060		1	eTg			T	N	N	310	5.0	100	A	R	B	S	Y	D	S	1	S	1508
104M13	921113	8	459111	6644783	1200		6	KTg	0	2	T	N	N	220	2.0	50	C	N	B	S	Y	D	P	1	G	1508
104M13	921114	8	458376	6645929	1240		6	KTg	0	2	T	N	N	310	2.0	50	C	N	B	S	Y	D	P	1	G	1508
104M13	921115	8	456828	6647627	1160		6	KTg	0	3	G	N	N	121	3.0	80	C	N	B	S	Y	D	P	1	M	1508
104M13	921116	8	455378	6648232	820		6	KTg	0	3	G	N	N	320	5.0	70	A	O	B	S	Y	D	P	2	G	1508
104M13	921117	8	454525	6649052	820		6	KTg	0	3	G	N	N	220	6.0	80	A	O	B	S	Y	D	P	1	M	1508
104M13	921118	8	453569	6649986	800		6	KTg	0	2	G	N	N	220	3.5	60	A	R	B	S	Y	D	P	1	G	1508
104M15	923002	8	511011	6640149	815		6	lJLg	0	2	T	N	N	122	1.0	30	O	N	O	S	M	D	P	2	M	0208
104M15	923003	8	512329	6643081	815		6	lKg	0	2	T	N	N	122	2.0	30	O	N	O	S	M	D	P	2	M	0208
104M07	923004	8	528066	6585631	750		6	Kg	0	2	G	N	N	311	4.0	75	O	N	S	S	M	D	P	1	M	0308
104M09	923005	8	533156	6600568	855		6	PPmb	0	1	T	N	N	211	3.0	75	A	N	S	S	M	D	P	1	M	0308
104M09	923006	8	530257	6600277	1430		6	PPmb	0	1	T	N	N	220	3.0	75	G	N	S	S	M	G	P	1	G	0308
104M07	923007	8	520322	6584108	830		6	PPgn	2	2	T	N	N	210	7.0	100	A	N	S	S	M	D	P	1	M	0308
104M08	923009	8	537738	6573733	1000		6	PPmb	0	2	T	N	N	310	4.0	60	A	N	S	S	M	D	P	1	G	0308
104M08	923010	8	540390	6572953	1025		6	PPgn	0	2	T	N	N	122	5.0	100	A	N	S	S	M	D	P	1	G	0308
104M08	923011	8	532006	6569870	1150		6	lKg	3	2	T	N	N	220	8.0	100	G	N	F	S	M	G	P	2	G	0308
104M07	923012	8	522668	6579341	900		6	lKg	2	2	T	N	N	121	2.0	175	C	N	S	S	M	D	P	2	M	0308
104M07	923013	8	519174	6582934	1020		6	PPgn	2	3	G	N	N	320	8.0	125	A	N	S	S	M	D	P	3	M	0308
104M07	923014	8	520890	6578118	1040		6	KTg	0	2	T	N	N	310	7.0	90	O	N	S	S	M	G	P	1	G	0308
104M07	923015	8	524934	6574010	1025	10	6	PPgn	2	2	T	N	N	310	15.0	100	G	N	B	S	M	D	P	1	G	0308
104M07	923016	8	524934	6574010	1025	20	6	PPgn	2	2	T	N	N	310	15.0	100	G	N	B	S	M	D	P	1	G	0308
104M08	923017	8	535974	6576212	1315		6	PPgn	2	2	T	N	N	310	5.0	75	A	N	S	S	M	D	P	1	G	0308
104M07	923018	8	519572	6582454	1000		6	PPgn	2	2	G	N	N	220	10.0	200	G	N	B	S	M	G	P	1	G	0308

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Water			Stream Sediment														
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
	SAMPLE	UTM	UTM	UTM																								
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	ppb	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
								ION	LIF	TURB	GCE	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M13	921093	8	470258	6633601		6	KTg	30	0.05	1.0	6.8	0.2	0.6	0.2	0.2	4	7	560	1.20	3	147	20	1	3	0.2	22	36	0.7	
104M13	921094	8	470041	6634446		6	KTg	30	0.05	1.5	6.9	0.2	0.5	0.3	0.2	7	6	700	2.10	5	342	30	2	5	0.2	41	81	2.5	
104M13	921095	8	470004	6635062		6	KTg	40	0.05	1.2	7.2	0.2	0.6	0.2	0.2	6	8	700	1.90	7	344	20	2	5	0.2	32	72	1.6	
104M13	921096	8	469929	6637162		6	eTg	1170	0.41	1.4	6.8	0.2	0.5	0.2	0.2	2	2	1500	0.95	16	331	20	3	3	0.2	7	107	1.4	
104M13	921097	8	469308	6638315		6	eTg	2020	1.45	2.0	7.0	0.2	1.5	0.8	0.3	2	4	1690	1.50	37	740	40	9	2	0.5	7	810	9.9	
104M13	921098	8	467171	6642713		6	eTg	900	0.23	1.3	6.3	0.2	19.0	0.3	0.8	2	8	520	0.50	83	446	20	3	2	0.6	5	132	1.6	
104M13	921099	8	466430	6644635		6	eTg	530	2.11	176.0	7.7	0.2	5.2	0.4	2.5	7	48	350	2.00	14	364	20	6	37	0.4	132	256	7.0	
104M13	921100	8	460566	6635250		6	eTg	810	0.31	3.1	7.4	0.2	0.7	0.2	0.3	3	10	300	0.85	8	170	10	2	2	0.2	18	66	5.2	
104M13	921102	8	460288	6635012	10	6	eTg	80	0.05	2.2	6.9	0.2	0.9	0.2	0.2	2	9	130	0.40	3	39	10	1	2	0.2	13	24	0.4	
104M13	921103	8	460288	6635012	20	6	eTg	80	0.05	2.1	6.9	0.2	0.8	0.2	0.2	2	9	150	0.40	2	39	30	1	3	0.2	13	22	0.4	
104M13	921104	8	459945	6637148		6	eTg	390	0.05	0.1	6.8	0.2	0.9	0.2	0.3	2	8	500	2.50	12	570	20	3	3	0.2	20	180	2.0	
104M13	921105	8	458524	6639668		6	eTg	860	0.05	0.8	6.9	0.2	3.5	0.5	0.3	2	10	390	1.20	13	278	10	4	2	0.2	12	75	0.4	
104M13	921106	8	458547	6641431		6	eTg	1070	0.05	1.2	7.4	0.2	0.4	0.2	0.2	2	7	440	0.75	4	165	20	2	2	0.2	11	61	0.4	
104M13	921107	8	463680	6638732		6	eTg	890	0.05	0.5	7.0	0.2	1.0	0.6	1.1	2	8	510	1.60	47	367	30	22	2	0.4	14	173	2.1	
104M13	921108	8	464048	6642610		6	KTg	160	0.05	2.0	7.2	0.2	2.0	0.3	1.0	6	15	530	2.30	19	375	40	6	12	0.4	56	148	6.9	
104M13	921110	8	464486	6645783		1	KTg					0.2	0.8	0.8	0.8	10	31	520	2.50	38	383	30	3	24	0.4	64	164	4.0	
104M13	921111	8	465448	6647108		6	eTg	1430	0.05	13.0	7.2	0.2	6.2	0.8	2.2	2	21	930	1.00	69	436	20	3	7	0.4	24	215	1.0	
104M13	921112	8	465487	6648553		1	eTg					0.3	19.0	2.5	2.6	2	18	3000	1.00	120	506	20	13	2	0.8	10	203	1.1	
104M13	921113	8	459111	6644783		6	KTg	70	0.05	2.8	6.9	0.2	18.0	0.5	0.8	11	37	500	2.90	21	410	40	7	27	0.4	105	205	9.5	
104M13	921114	8	458376	6645929		6	KTg	60	0.05	1.0	6.9	0.2	0.5	0.2	0.4	4	23	370	2.00	14	439	30	3	8	0.2	41	101	9.2	
104M13	921115	8	456828	6647627		6	KTg	60	0.05	2.1	7.3	0.2	0.3	0.3	0.7	3	11	450	1.70	20	325	20	1	7	0.2	40	133	3.4	
104M13	921116	8	455378	6648232		6	KTg	60	0.05	0.8	7.1	0.2	0.2	0.2	0.2	2	5	260	1.20	3	177	10	1	2	0.2	29	42	0.8	
104M13	921117	8	454525	6649052		6	KTg	60	0.05	1.0	7.0	0.2	0.7	0.2	0.2	4	6	330	1.50	3	206	20	1	3	0.2	34	50	1.0	
104M13	921118	8	453569	6649986		6	KTg	70	0.05	1.4	7.1	0.2	0.2	0.2	0.2	4	7	320	1.40	2	202	20	1	3	0.2	33	49	1.0	
104M15	923002	8	511011	6640149		6	lJLg	70	0.05	23.0	7.5	6.7	170.0	1.4	0.7	9	36	260	2.40	12	386	30	4	11	0.3	50	71	12.5	
104M15	923003	8	512329	6643081		6	lKg	70	0.05	24.0	8.0	2.0	23.0	0.2	0.2	11	23	230	2.80	11	640	30	3	10	0.2	43	62	11.4	
104M07	923004	8	528066	6585631		6	Kg	30	0.05	1.3	6.8	0.2	0.6	0.3	0.2	6	13	280	1.10	6	202	20	1	7	0.2	38	33	1.7	
104M09	923005	8	533156	6600568		6	PPmb	30	0.05	2.6	7.3	0.3	2.7	0.2	0.2	12	48	290	2.30	4	390	20	1	15	0.2	66	65	1.4	
104M09	923006	8	530257	6600277		6	PPmb	20	0.05	4.5	7.2	0.3	5.1	0.2	0.2	11	51	280	2.10	4	251	20	1	15	0.2	68	44	0.1	
104M07	923007	8	520322	6584108		6	PPgn	20	0.05	7.2	6.5	0.2	0.7	0.2	0.2	8	36	330	1.70	2	236	10	2	8	0.2	54	41	16.6	
104M08	923009	8	537738	6573733		6	PPmb	40	0.21	29.0	7.6	3.7	34.0	0.2	0.5	16	57	280	2.80	17	323	30	2	57	0.2	63	100	4.1	
104M08	923010	8	540390	6572953		6	PPgn	30	0.05	12.0	7.2	1.4	13.0	1.6	1.9	16	78	380	3.50	75	412	40	3	45	0.6	96	234	5.3	
104M08	923011	8	532006	6569870		6	lKg	70	0.18	0.1	6.8	0.2	0.6	0.2	0.2	2	2	150	0.50	4	66	10	1	2	0.2	12	16	0.6	
104M07	923012	8	522668	6579341		6	lKg	60	0.61	0.1	6.5	0.2	0.6	0.3	0.2	2	2	190	0.50	4	132	20	1	2	0.2	6	24	0.5	
104M07	923013	8	519174	6582934		6	PPgn	40	0.05	0.9	6.8	0.2	1.3	0.2	0.2	3	10	160	0.60	2	73	20	1	5	0.2	20	19	8.4	
104M07	923014	8	520890	6578118		6	KTg	30	0.05	1.9	6.8	0.2	1.5	0.2	0.2	8	27	320	1.70	2	203	20	2	21	0.2	44	45	1.4	
104M07	923015	8	524934	6574010	10	6	PPgn	40	0.06	5.6	7.4	0.4	21.0	0.2	0.2	4	24	190	1.00	3	108	20	1	16	0.2	31	27	1.4	
104M07	923016	8	524934	6574010	20	6	PPgn	40	0.05	5.6	7.5	0.4	26.0	0.2	0.2	5	26	200	1.00	4	104	20	2	17	0.2	31	29	1.5	
104M08	923017	8	535974	6576212		6	PPgn	50	0.05	5.2	7.0	0.3	44.0	2.4	0.7	13	70	390	2.20	48	408	30	1	25	0.4	52	120	3.7	
104M07	923018	8	519572	6582454		6	PPgn	30	0.05	1.3	7.1	0.2	0.8	0.2	0.2	4	8	200	0.60	2	70	10	1	5	0.2	20	17	1.1	

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Stream Sediment																								
							Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	:D.L.
							2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:Unit
MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g	:Mthd
104M13	921093	8	470258	6633601		6	KTg	2		0.1	1.9	1500	0.5	300	1	22	7	66	3.90	180	1.07	1	20	78	16.0	15.0	3.15	0.5	1.7	54.0	1	14.0	5.8	12.75	
104M13	921094	8	470041	6634446		6	KTg	5		0.1	0.5	1200	5.1	160	3	29	10	19	4.57	96	0.64	1	20	75	11.0	16.0	3.07	1.3	0.5	29.0	1	7.1	3.3	11.94	
104M13	921095	8	470004	6635062		6	KTg	3		0.3	0.5	1100	1.6	160	3	29	9	19	4.14	90	0.68	1	20	110	11.0	14.0	3.05	0.5	1.6	25.0	1	6.3	3.5	12.51	
104M13	921096	8	469929	6637162		6	eTg	2		0.3	1.5	360	0.5	89	4	13	3	12	1.80	35	1.77	1	20	230	14.0	4.0	2.95	2.7	3.0	32.0	1	14.0	10.9	13.40	
104M13	921097	8	469308	6638315		6	eTg	6		0.4	2.9	610	6.7	130	14	8	1	15	2.48	55	4.30	1	20	270	26.0	3.6	2.37	3.3	8.5	60.0	1	180.0	25.2	10.27	
104M13	921098	8	467171	6642713		6	eTg	2		0.3	15.0	270	1.5	77	4	5	1	16	0.98	32	1.60	1	20	220	8.0	1.2	3.10	1.9	1.9	34.0	1	15.0	9.6	13.82	
104M13	921099	8	466430	6644635		6	eTg	6		0.3	4.3	2800	5.0	52	4	48	9	5	2.99	33	0.83	1	20	100	7.2	8.0	1.02	1.0	1.5	10.0	1	26.0	4.6	11.79	
104M13	921100	8	460566	6635250		6	eTg	2		0.1	1.4	1200	2.4	140	2	28	7	15	3.20	82	0.63	1	20	91	8.6	12.0	3.05	0.5	0.5	22.0	4	4.4	3.6	10.06	
104M13	921102	8	460288	6635012	10	6	eTg	2	2	0.1	0.5	1400	0.5	170	1	45	8	16	3.57	95	0.47	1	20	65	8.6	15.0	3.46	0.5	0.5	29.0	1	2.5	2.3	7.43	
104M13	921103	8	460288	6635012	20	6	eTg	4		0.1	0.5	1100	0.5	120	1	29	7	9	2.56	75	0.29	1	20	46	5.8	11.0	2.79	0.7	0.5	22.0	1	1.3	1.5	10.86	
104M13	921104	8	459945	6637148		6	eTg	4		0.2	2.1	980	0.5	320	5	6	3	38	4.19	180	2.23	1	20	160	22.0	13.0	3.27	2.8	3.2	40.0	1	14.0	12.6	13.13	
104M13	921105	8	458524	6639668		6	eTg	2		0.3	4.9	1200	0.5	230	3	9	2	23	2.25	130	1.31	1	20	100	14.0	6.4	3.61	0.9	2.1	24.0	9	7.8	7.2	12.89	
104M13	921106	8	458547	6641431		6	eTg	2		0.2	0.5	1300	0.5	120	2	5	2	17	1.56	69	0.84	3	20	100	7.9	4.0	3.35	0.5	1.2	13.0	1	4.8	4.8	13.98	
104M13	921107	8	463680	6638732		6	eTg	2		0.1	0.5	1300	3.3	130	4	8	2	15	2.33	65	1.14	20	20	150	9.5	6.2	3.33	1.6	1.6	20.0	3	11.0	6.8	12.29	
104M13	921108	8	464048	6642610		6	KTg	2		0.1	0.5	990	12.0	220	4	38	8	16	3.73	120	0.92	1	20	120	13.0	10.0	2.60	1.2	0.5	31.0	4	20.0	5.0	10.67	
104M13	921110	8	464486	6645783		1	KTg	2		0.2	0.5	1100	5.0	130	4	67	17	9	5.40	70	0.56	1	89	75	9.0	16.0	2.22	1.5	1.2	19.0	1	12.0	2.9	12.96	
104M13	921111	8	465448	6647108		6	eTg	2		0.3	6.4	960	0.5	90	3	10	2	17	1.59	40	1.94	1	20	210	9.7	2.3	2.93	1.8	2.3	43.0	5	19.0	11.4	13.04	
104M13	921112	8	465487	6648553		1	eTg	35	2	0.6	18.0	460	0.5	99	4	5	2	14	1.48	45	2.11	1	30	300	11.0	1.9	2.14	2.2	2.4	44.0	1	19.0	12.8	12.62	
104M13	921113	8	459111	6644783		6	KTg	3		0.2	19.0	1700	16.0	130	6	73	17	10	4.83	76	0.72	1	20	97	9.8	16.0	1.90	1.2	1.2	18.0	1	17.0	4.1	9.99	
104M13	921114	8	458376	6645929		6	KTg	4		0.2	0.5	1200	25.0	160	3	37	8	15	3.66	100	0.79	1	20	120	12.0	11.0	2.42	1.0	1.4	23.0	1	7.9	4.5	9.69	
104M13	921115	8	456828	6647627		6	KTg	2		0.2	0.5	1200	13.0	120	3	30	9	11	4.06	74	0.50	1	20	120	8.3	11.0	2.65	1.4	0.5	28.0	1	28.0	2.4	10.97	
104M13	921116	8	455378	6648232		6	KTg	2		0.1	0.5	1200	0.5	110	1	19	6	11	3.44	52	0.37	3	20	52	5.2	9.0	1.92	0.5	0.9	11.0	1	2.5	1.9	13.16	
104M13	921117	8	454525	6649052		6	KTg	2		0.1	0.5	1300	0.5	86	1	17	7	7	3.20	46	0.30	1	20	49	6.3	11.0	2.23	0.5	0.8	9.2	1	3.3	2.2	13.44	
104M13	921118	8	453569	6649986		6	KTg	3		0.1	0.5	1500	2.4	100	1	25	7	8	3.18	53	0.33	1	20	47	7.0	11.0	2.50	0.5	0.8	11.0	1	4.8	2.1	12.30	
104M15	923002	8	511011	6640149		6	lJLg	9		11.0	200.0	840	14.0	39	11	68	11	2	2.90	20	0.25	1	20	110	3.0	11.0	1.45	0.5	0.5	6.5	8	8.8	1.8	10.51	
104M15	923003	8	512329	6643081		6	lKg	97	6	4.4	31.0	1200	24.0	71	9	31	12	5	3.94	34	0.41	1	20	86	4.9	12.0	1.65	1.1	0.5	10.0	1	4.2	2.6	10.17	
104M07	923004	8	528066	6585631		6	Kg	2		0.1	0.5	1200	0.5	100	2	53	11	13	3.73	60	0.47	1	140	83	6.1	13.0	2.36	1.5	0.5	24.0	1	9.6	2.6	13.39	
104M09	923005	8	533156	6600568		6	PPmb	42	2	0.6	4.4	930	3.0	48	1	79	17	4	4.80	24	0.43	1	20	43	4.5	23.0	2.28	1.4	0.5	7.2	1	2.5	3.1	13.20	
104M09	923006	8	530257	6600277		6	PPmb	4		0.6	8.1	1100	0.5	43	1	84	22	3	5.93	22	0.49	1	20	68	4.6	30.0	3.39	0.5	1.0	4.9	1	0.5	2.9	14.04	
104M07	923007	8	520322	6584108		6	PPgn	5		0.1	0.5	890	0.5	56	1	58	17	4	5.13	30	0.58	1	20	42	5.3	25.0	3.23	0.5	0.8	7.9	1	3.3	3.8	17.98	
104M08	923009	8	537738	6573733		6	PPmb	5		3.7	40.0	1600	0.5	87	3	210	24	7	5.48	45	0.52	1	20	46	7.3	19.0	1.18	2.2	1.1	10.0	6	3.4	3.3	14.86	
104M08	923010	8	540390	6572953		6	PPgn	4		1.7	16.0	2700	7.9	82	5	120	20	6	4.75	45	0.52	1	93	74	6.3	15.0	1.02	0.5	1.1	13.0	2	5.3	3.6	16.26	
104M08	923011	8	532006	6569870		6	lKg	3		0.1	1.4	1400	0.5	120	2	5	2	15	2.24	77	0.54	1	20	120	4.6	3.7	2.60	1.9	0.9	45.0	4	48.0	3.2	19.50	
104M07	923012	8	522668	6579341		6	lKg	2		0.1	1.1	880	0.5	160	2	5	2	18	1.20	93	1.05	1	20	120	8.9	2.8	2.81	1.9	1.3	66.0	1	21.0	6.5	18.02	
104M07	923013	8	519174	6582934		6	PPgn	3		0.2	2.5	1400	0.5	99	1	30	8	13	2.85	56	0.49	1	20	43	5.8	11.0	2.72	0.5	0.5	15.0	1	4.6	3.0	14.57	
104M07	923014	8	520890	6578118		6	KTg	2		0.2	2.2	940	0.5	70	2	120	18	11	4.83	39	0.51	1	20	53	5.6	19.0	2.50	0.5	0.9	12.0	1	4.1	3.3	13.66	
104M07	923015	8	524934	6574010	10	6	PPgn	18	9	0.4	26.0	1200	0.5	76	1	66	12	12	3.57	43	0.51	1	20	32	5.1	13.0	2.05	1.7	0.8	15.0	1	7.0	3.1	17.24	
104M07	923016	8	524934	6574010	20	6	PPgn	8		0.4	32.0	1200	0.5	77	1	64	12	13	3.55	47	0.51	1	20	51	5.3	13.0	1.95	1.0	0.9	16.0	1	7.7	3.2	20.24	
104M08	923017	8	535974	6576212		6	PPgn	179	44	1.3	50.0	890	0.5	78	2	100	17	9	4.39	39	0.47	1	75	54	6.1	15.0	1.80	0.5	0.5	10.0	4	3.8	3.3	13.53	
104M07	923018	8	519572	6582454		6	PPgn	3		0.1	0.5	1100	0.5	80	1	27	9	8	3.11	43	0.37	1	20	28	5.6	12.0	2.53	0.5	0.7	11.0	1	3.7	2.5	10.96	

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M07	923019	8	522788	6583696	760		6	Kg	2	3	T	N	N	311	7.0	200	A	R	B	S	M	D	P	1	G	0308
104M09	923020	8	530228	6600696	1430		6	PPmb	2	2	T	N	N	220	7.0	100	A	N	S	S	M	G	P	1	G	0308
104M09	923022	8	532118	6599096	825		6	PPmb	0	1	T	N	N	212	2.0	50	O	N	S	S	M	D	P	1	M	0308
104M09	923023	8	528710	6593992	1300		6	PPmb	2	3	T	N	N	211	8.0	200	A	N	B	S	M	G	P	1	G	0308
104M10	923024	8	527042	6596892	825		6	PPmb	0	2	T	N	N	311	2.0	75	A	N	S	S	M	D	P	1	G	0308
104M10	923025	8	523981	6600748	1435		6	eKt	2	2	T	N	N	120	15.0	100	A	N	S	S	M	D	P	2	G	0408
104M10	923026	8	518176	6603925	1405		6	eKt	0	2	G	N	N	212	2.0	75	A	N	S	S	M	D	P	1	M	0408
104M10	923027	8	521309	6608177	760		6	eTg	2	2	T	Y	N	121	5.0	75	A	N	S	S	M	D	P	1	M	0408
104M10	923028	8	524916	6603002	1345		6	eKt	0	2	T	N	N	310	7.0	100	A	N	S	M	M	D	P	1	M	0408
104M10	923029	8	525757	6596130	855		6	eKt	0	2	T	N	N	212	2.0	75	A	N	S	S	M	D	P	1	M	0308
104M07	923030	8	520958	6595498	1200		6	eKt	2	3	T	N	N	310	6.0	100	A	N	B	S	M	D	P	1	M	0308
104M09	923031	8	532326	6617290	1250		6	lJLa	0	2	T	N	N	212	4.0	100	A	N	S	S	M	D	P	1	G	0408
104M10	923032	8	520347	6600043	1445		6	eKt	0	2	T	N	N	212	3.0	75	A	N	S	S	M	D	P	1	G	0408
104M10	923033	8	521292	6595838	1200		6	eKt	2	3	T	N	N	212	7.0	100	A	N	B	S	M	D	P	1	M	0308
104M07	923034	8	521744	6595142	1200		6	eKt	2	3	T	N	N	311	5.0	100	A	N	S	S	M	D	P	1	M	0308
104M10	923035	8	512991	6597785	762		6	eKt	0	2	T	N	N	221	5.0	100	O	N	S	S	M	D	P	2	M	0308
104M10	923037	8	519249	6607230	820		6	eTg	1	1	R	N	N	211	2.0	75	O	R	F	S	M	D	P	1	M	0408
104M07	923038	8	522393	6591380	1140	10	6	eKt	2	2	T	N	N	310	6.0	175	A	N	S	S	M	D	P	2	M	0308
104M07	923039	8	522393	6591380	1140	20	6	eKt	2	2	T	N	N	310	6.0	175	A	N	S	S	M	D	P	2	M	0308
104M10	923040	8	510089	6595572	790		6	KTg	2	2	T	N	N	310	10.0	200	A	N	S	S	M	D	P	1	M	0308
104M01	923042	8	540240	6565663	800		6	PPgn	2	2	T	N	N	213	8.0	200	A	N	S	S	M	D	P	1	G	0408
104M01	923043	8	556462	6556814	805		6	lThg	0	1	T	N	N	113	1.0	50	A	N	S	S	M	D	P	1	M	0408
104M01	923044	8	541315	6564845	760		6	PPgn	0	2	T	N	N	212	6.0	75	A	N	S	S	M	D	P	1	M	0408
104M01	923045	8	536643	6565258	1195		6	PPgn	2	3	G	N	N	310	8.0	200	A	N	B	S	M	D	P	1	M	0408
104M01	923046	8	540615	6560240	1120		6	PPgn	2	3	T	N	N	310	8.0	150	A	N	S	S	M	D	P	1	M	0408
104M09	923047	8	529502	6620482	1420		6	lJLa	0	2	T	N	N	212	4.0	100	A	N	S	S	M	D	P	1	M	0508
104M15	923048	8	527980	6628716	1220		6	lJLg	0	2	T	N	N	112	8.0	100	A	N	S	S	M	D	P	1	M	0508
104M10	923049	8	523491	6613059	1370		6	eJh	0	2	T	N	N	211	3.0	75	A	N	S	S	M	D	P	1	G	0408
104M01	923050	8	550162	6565718	800		6	Kg	0	2	T	N	N	311	3.0	75	A	N	S	S	M	D	P	1	G	0408
104M01	923051	8	552231	6562390	1000		6	uTs	0	2	G	N	N	211	5.0	100	A	N	S	S	M	D	P	1	M	0408
104M01	923052	8	548444	6567377	840		6	Kg	0	2	T	N	N	212	3.0	100	A	N	S	S	M	D	P	1	G	0408
104M10	923053	8	522522	6613344	1070		6	eJh	0	2	T	N	N	212	2.0	75	A	N	S	S	M	D	P	1	G	0408
104M10	923055	8	524059	6613668	1035		6	eJh	1	2	T	N	N	212	2.0	75	A	N	S	S	M	D	P	1	G	0408
104M09	923056	8	531857	6619147	1315		6	lKg	1	2	T	N	N	212	4.0	75	A	N	S	S	M	D	P	1	G	0408
104M01	923057	8	546978	6557659	1405	10	6	eJgd	2	2	T	N	N	210	8.0	100	A	N	S	S	M	D	P	2	M	0408
104M01	923058	8	546978	6557659	1405	20	6	eJgd	2	2	T	N	N	210	8.0	100	A	N	S	S	M	D	P	2	M	0408
104M15	923059	8	523029	6638412	1345		6	Qal	0	2	T	N	N	122	10.0	75	A	N	S	S	M	D	P	2	M	0508
104M01	923060	8	556731	6562007	825		6	lTgd	0	2	T	N	N	212	2.0	75	A	N	S	S	M	D	P	1	M	0408
104M15	923062	8	524626	6627162	1365		6	lJLg	0	2	T	N	N	112	0.8	100	A	Y	S	S	M	D	P	1	M	0508
104M15	923063	8	524138	6632561	1420		6	Qal	0	2	T	N	N	212	2.0	75	A	N	S	S	M	D	P	1	M	0508

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Water			Stream Sediment														
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
	SAMPLE	UTM	UTM	UTM			ppb	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	ION	LIF	TURB	GCE	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M07	923019	8	522788	6583696		6	Kg	20	0.05	1.1	6.5	0.2	0.6	1.3	0.2	11	24	460	2.10	6	346	40	4	19	0.2	59	58	7.6	
104M09	923020	8	530228	6600696		6	PPmb	20	0.05	2.6	6.9	0.3	6.2	0.2	0.2	12	45	240	2.30	5	288	10	1	16	0.2	71	48	1.1	
104M09	923022	8	532118	6599096		6	PPmb	40	0.05	7.0	7.5	0.4	2.6	0.2	0.2	11	50	340	1.90	7	460	30	2	11	0.2	54	67	6.4	
104M09	923023	8	528710	6593992		6	PPmb	30	0.05	13.0	7.0	0.2	1.0	0.2	0.2	10	46	400	2.00	14	519	50	3	12	0.2	64	70	6.7	
104M10	923024	8	527042	6596892		6	PPmb	120	1.58	6.4	7.7	0.5	6.0	0.4	0.7	16	103	630	3.90	43	940	40	4	17	0.3	95	105	10.0	
104M10	923025	8	523981	6600748		6	eKt	30	0.13	1.5	7.1	0.2	2.5	0.2	0.2	10	41	410	1.70	9	262	20	1	9	0.2	63	42	1.9	
104M10	923026	8	518176	6603925		6	eKt	30	0.20	0.7	7.0	0.2	2.0	0.6	0.3	8	28	350	2.30	16	602	50	2	6	0.2	50	63	16.0	
104M10	923027	8	521309	6608177		6	eTg	30	0.05	0.5	6.8	0.2	1.2	0.9	0.2	8	62	550	1.80	13	224	30	4	6	0.2	73	40	3.6	
104M10	923028	8	524916	6603002		6	eKt	30	0.05	0.3	6.8	0.2	1.5	0.2	0.2	8	35	390	1.70	9	340	30	2	7	0.2	48	42	2.7	
104M10	923029	8	525757	6596130		6	eKt	80	0.20	15.0	7.1	0.2	2.2	0.2	0.2	10	38	440	1.50	9	237	30	2	14	0.2	49	41	5.0	
104M07	923030	8	520958	6595498		6	eKt	30	0.05	0.8	6.4	0.2	0.3	0.2	0.2	5	9	420	1.10	3	167	20	1	3	0.2	32	40	1.3	
104M09	923031	8	532326	6617290		6	lJLa	30	0.05	15.0	7.6	1.8	30.0	0.4	0.3	18	75	290	4.20	20	600	60	2	43	0.4	87	97	16.9	
104M10	923032	8	520347	6600043		6	eKt	30	0.05	3.2	7.1	0.2	1.1	0.6	0.2	10	51	410	1.90	12	312	30	3	9	0.2	74	54	6.8	
104M10	923033	8	521292	6595838		6	eKt	30	0.05	0.9	6.7	0.2	0.7	0.2	0.2	8	26	470	1.80	11	311	40	3	6	0.2	55	68	4.2	
104M07	923034	8	521744	6595142		6	eKt	30	0.05	0.4	6.6	0.2	0.2	0.2	0.2	6	11	500	1.60	5	306	20	1	3	0.2	45	69	1.4	
104M10	923035	8	512991	6597785		6	eKt	30	0.05	12.0	6.9	0.2	0.7	0.2	0.2	11	15	370	1.90	3	234	40	6	10	0.2	62	47	6.8	
104M10	923037	8	519249	6607230		6	eTg	60	3.75	2.3	7.2	0.2	0.8	0.2	0.2	6	13	260	3.80	17	234	30	14	4	0.4	54	44	4.2	
104M07	923038	8	522393	6591380	10	6	eKt	30	0.05	7.8	6.8	0.2	0.7	0.2	0.2	6	20	260	0.75	3	87	20	1	5	0.2	24	15	1.0	
104M07	923039	8	522393	6591380	20	6	eKt	30	0.05	5.9	6.8	0.2	0.6	0.2	0.2	5	22	310	0.70	4	88	20	1	6	0.2	23	16	2.5	
104M10	923040	8	510089	6595572		6	KTg	30	0.05	1.8	6.8	0.2	0.6	0.2	0.2	4	9	300	0.90	2	93	20	1	3	0.2	28	23	2.1	
104M01	923042	8	540240	6565663		6	PPgn	30	0.16	13.0	7.6	2.0	17.0	0.3	0.7	11	37	430	2.00	25	343	40	2	29	0.4	36	95	5.1	
104M01	923043	8	556462	6556814		6	lThg	20	0.05	0.7	7.4	15.5	27.0	0.2	0.3	18	135	190	4.10	7	1090	600	2	40	0.3	86	68	33.5	
104M01	923044	8	541315	6564845		6	PPgn	50	0.29	67.0	7.5	3.1	31.0	0.6	3.6	11	82	580	2.60	20	341	50	4	60	0.7	75	357	5.5	
104M01	923045	8	536643	6565258		6	PPgn	60	0.15	1.4	7.6	0.5	7.0	0.4	0.2	4	15	280	0.90	27	105	20	1	8	0.2	24	37	1.6	
104M01	923046	8	540615	6560240		6	PPgn	30	0.23	18.0	7.7	1.1	12.0	0.3	0.3	8	27	300	1.30	15	196	60	2	19	0.4	26	60	0.7	
104M09	923047	8	529502	6620482		6	lJLa	30	0.05	12.0	7.2	2.4	46.0	1.6	0.4	18	88	180	4.20	18	551	60	17	36	0.3	120	127	13.8	
104M15	923048	8	527980	6628716		6	lJLg	30	0.05	6.5	7.2	1.6	22.0	0.4	0.3	10	44	300	2.40	12	368	40	3	22	0.2	66	78	9.6	
104M10	923049	8	523491	6613059		6	eJh	30	0.27	30.0	8.0	1.5	16.0	0.3	0.4	24	57	280	4.40	34	1400	50	2	221	0.2	60	126	9.2	
104M01	923050	8	550162	6565718		6	Kg	20	0.05	9.2	7.2	6.0	19.0	0.5	0.2	8	51	460	1.60	6	315	70	2	7	0.2	47	49	4.3	
104M01	923051	8	552231	6562390		6	uTs	20	0.05	5.1	7.5	0.5	17.0	0.3	0.2	41	64	90	3.90	2	543	30	1	136	0.2	64	43	18.2	
104M01	923052	8	548444	6567377		6	Kg	50	0.05	57.0	6.7	4.5	27.0	13.0	1.5	10	82	400	1.70	10	309	100	31	15	0.3	49	90	5.4	
104M10	923053	8	522522	6613344		6	eJh	30	2.05	48.0	8.1	2.1	14.0	0.3	0.4	38	65	220	5.00	26	1000	30	2	408	0.2	61	113	10.6	
104M10	923055	8	524059	6613668		6	eJh	30	0.05	17.0	7.8	6.0	100.0	0.4	0.6	11	64	220	3.50	10	1050	60	2	22	0.3	32	73	41.9	
104M09	923056	8	531857	6619147		6	lKg	30	0.05	14.0	7.1	0.8	12.0	0.4	0.2	10	42	240	2.30	7	309	30	2	18	0.2	74	69	9.9	
104M01	923057	8	546978	6557659	10	6	eJgd	30	0.13	6.2	7.7	1.3	13.0	0.3	0.2	7	21	320	1.20	8	218	40	2	17	0.2	26	32	0.8	
104M01	923058	8	546978	6557659	20	6	eJgd	30	0.13	6.3	7.7	1.2	12.0	0.3	0.2	7	22	360	1.10	3	210	40	2	16	0.2	27	32	0.5	
104M15	923059	8	523029	6638412		6	Qal	20	0.05	0.7	7.0	0.5	4.2	1.3	0.3	6	14	500	2.30	26	790	40	10	12	0.2	34	78	12.7	
104M01	923060	8	556731	6562007		6	lTgd	40	0.08	3.5	7.1	0.7	10.0	0.2	0.2	7	8	690	1.50	8	499	30	2	16	0.2	32	57	7.9	
104M15	923062	8	524626	6627162		6	lJLg	30	0.05	6.6	7.2	2.0	33.0	0.4	0.4	13	56	380	3.60	10	422	40	2	30	0.2	74	98	9.3	
104M15	923063	8	524138	6632561		6	Qal	30	0.05	1.5	6.9	1.1	45.0	0.4	1.0	7	21	330	2.20	14	666	60	6	14	0.5	53	88	25.5	

FIELD OBSERVATIONS AND ANALYTICAL DATA

								Stream Sediment																							
								Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	:D.L.
								2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:Unit
MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g	:Mthd
104M07	923019	8	522788	6583696		6	Kg	2		0.1	0.5	1100	5.0	88	5	180	18	14	5.51	53	0.53	1	20	73	5.9	20.0	2.03	0.5	0.5	18.0	7	11.0	3.3	14.58	
104M09	923020	8	530228	6600696		6	PPmb	11		0.7	9.1	1100	0.5	43	2	74	22	3	5.33	23	0.41	1	20	38	4.2	26.0	3.08	1.1	0.5	6.2	1	2.7	3.0	16.94	
104M09	923022	8	532118	6599096		6	PPmb	11		0.7	3.7	860	4.1	38	2	52	14	3	4.02	23	0.40	1	20	56	3.4	18.0	2.31	0.5	0.9	6.7	2	7.1	2.6	16.65	
104M09	923023	8	528710	6593992		6	PPmb	10		0.3	2.3	1100	23.0	72	2	74	14	4	3.49	38	0.39	1	76	80	4.1	15.0	2.32	0.5	1.0	16.0	1	77.0	2.3	10.22	
104M10	923024	8	527042	6596892		6	PPmb	39	9	1.6	8.1	1100	12.0	140	4	93	24	12	5.91	69	0.61	1	20	110	8.9	20.0	1.91	1.3	0.5	33.0	1	34.0	3.1	10.34	
104M10	923025	8	523981	6600748		6	eKt	3		0.6	2.9	1700	0.5	110	2	54	15	5	4.52	65	0.43	1	20	48	6.5	19.0	2.60	1.2	1.0	23.0	1	9.1	2.9	17.08	
104M10	923026	8	518176	6603925		6	eKt	13		0.3	1.8	1200	21.0	82	4	27	11	6	3.64	70	0.44	1	20	54	3.3	13.0	1.85	1.2	0.5	20.0	1	160.0	2.5	17.33	
104M10	923027	8	521309	6608177		6	eTg	3		0.5	3.5	1500	4.6	140	2	51	16	17	6.85	77	0.65	1	20	66	9.1	18.0	2.58	1.3	1.1	32.0	5	16.0	3.8	16.79	
104M10	923028	8	524916	6603002		6	eKt	6		0.7	2.5	1800	0.5	100	2	52	15	5	4.13	59	0.44	1	46	60	6.3	18.0	2.44	1.0	0.7	23.0	1	11.0	2.7	17.59	
104M10	923029	8	525757	6596130		6	eKt	5		0.8	3.9	1300	3.0	130	3	95	18	8	5.11	82	0.55	1	20	58	6.8	20.0	2.06	0.5	0.5	49.0	1	20.0	2.9	16.98	
104M07	923030	8	520958	6595498		6	eKt	2		0.3	0.5	2000	0.5	110	1	23	7	12	3.70	69	0.35	1	20	31	6.4	11.0	2.80	1.5	0.6	13.0	1	4.2	2.0	18.43	
104M09	923031	8	532326	6617290		6	lJLa	17		2.1	34.0	960	35.0	39	5	180	19	4	4.57	22	0.38	1	46	57	3.9	18.0	1.86	0.9	0.8	5.4	1	3.5	2.4	16.67	
104M10	923032	8	520347	6600043		6	eKt	9		0.5	2.4	1400	7.9	100	1	76	17	12	5.71	58	0.39	1	20	55	6.2	19.0	1.89	0.5	0.5	18.0	1	12.0	3.1	21.59	
104M10	923033	8	521292	6595838		6	eKt	2		0.1	0.5	1700	5.7	78	3	34	12	7	3.63	45	0.35	1	20	83	4.3	11.0	2.20	0.5	0.5	14.0	1	14.0	2.1	18.62	
104M07	923034	8	521744	6595142		6	eKt	8		0.1	0.5	2600	0.5	83	2	33	12	8	4.31	45	0.31	1	20	46	5.2	12.0	2.77	0.5	0.8	13.0	1	4.3	1.9	16.83	
104M10	923035	8	512991	6597785		6	eKt	3		0.3	2.3	1100	5.8	87	1	76	17	11	4.98	47	0.35	1	20	15	6.9	17.0	2.11	0.5	0.5	7.9	5	9.9	2.2	11.88	
104M10	923037	8	519249	6607230		6	eTg	2		0.4	3.7	1500	0.5	76	4	32	9	8	5.45	54	0.35	1	20	87	3.7	10.0	2.80	0.5	0.5	25.0	9	77.0	2.3	17.09	
104M07	923038	8	522393	6591380	10	6	eKt	2	4	0.1	0.5	1100	0.5	71	1	41	16	5	5.28	38	0.63	1	20	35	6.0	26.0	3.35	0.5	0.5	9.9	1	4.7	3.8	16.72	
104M07	923039	8	522393	6591380	20	6	eKt	8		0.1	0.5	930	0.5	74	2	47	17	5	5.74	39	0.69	5	20	49	6.2	26.0	3.38	0.5	0.5	9.7	1	3.0	4.2	19.39	
104M10	923040	8	510089	6595572		6	KTg	7		0.1	3.9	1200	1.4	150	3	20	12	30	6.00	80	0.66	1	20	54	8.9	16.0	2.82	0.5	0.5	24.0	1	13.0	3.8	19.21	
104M01	923042	8	540240	6565663		6	PPgn	9		2.3	20.0	1200	2.0	93	2	120	17	10	4.03	48	0.51	1	20	95	6.8	12.0	0.91	0.5	1.0	15.0	1	5.7	3.5	17.39	
104M01	923043	8	556462	6556814		6	lThg	26	7	18.0	32.0	550	19.0	19	5	220	26	2	4.47	9	0.29	1	20	32	2.0	24.0	0.85	0.5	0.5	2.3	1	1.9	1.7	14.44	
104M01	923044	8	541315	6564845		6	PPgn	22		3.4	42.0	1900	8.5	62	5	100	18	4	4.79	36	0.45	6	20	68	5.0	12.0	0.68	2.0	0.5	10.0	6	9.8	3.1	15.14	
104M01	923045	8	536643	6565258		6	PPgn	6		0.8	7.1	1700	0.5	130	2	60	10	24	5.00	71	0.72	1	20	89	7.6	11.0	2.00	1.7	1.1	20.0	1	5.3	4.3	16.80	
104M01	923046	8	540615	6560240		6	PPgn	7		1.2	11.0	1300	0.5	85	2	96	12	8	2.81	44	0.46	1	20	29	6.0	8.6	0.79	0.5	0.9	14.0	1	3.8	3.0	16.37	
104M09	923047	8	529502	6620482		6	lJLa	2		2.4	60.0	980	9.3	46	5	110	23	4	4.97	23	0.34	7	20	74	3.7	16.0	2.01	0.5	0.5	7.8	6	4.5	2.3	14.64	
104M15	923048	8	527980	6628716		6	lJLg	330	9	2.1	25.0	1200	17.0	62	4	140	15	9	4.21	34	0.43	1	20	54	3.9	14.0	2.14	0.5	1.3	13.0	2	14.0	2.5	14.49	
104M10	923049	8	523491	6613059		6	eJh	2		3.1	22.0	1100	7.9	69	4	890	36	5	7.09	34	0.58	1	370	100	5.4	26.0	1.22	0.5	0.5	9.9	1	6.4	3.9	14.98	
104M01	923050	8	550162	6565718		6	Kg	2		12.0	25.0	1200	4.1	110	4	29	15	11	4.79	65	0.48	1	20	62	6.3	15.0	2.51	2.2	0.5	30.0	1	13.0	3.0	16.62	
104M01	923051	8	552231	6562390		6	uTs	13		0.6	20.0	300	43.0	7	1	690	66	1	6.45	2	0.11	1	270	15	1.1	59.0	0.31	0.5	0.5	0.9	1	6.3	1.0	8.90	
104M01	923052	8	548444	6567377		6	Kg	2		6.1	32.0	1400	3.4	79	3	40	13	10	4.16	48	0.51	17	20	47	5.2	9.9	1.95	0.5	0.5	12.0	14	15.0	3.2	17.34	
104M10	923053	8	522522	6613344		6	eJh	7		2.7	16.0	960	11.0	43	5	1500	46	4	6.08	22	0.43	1	400	57	3.8	22.0	0.78	0.5	0.5	6.2	1	5.3	2.5	19.06	
104M10	923055	8	524059	6613668		6	eJh	8		8.5	130.0	780	110.0	39	9	200	19	2	4.01	20	0.38	1	20	40	3.7	21.0	0.94	0.5	0.5	4.9	1	15.0	2.6	7.78	
104M09	923056	8	531857	6619147		6	lKg	7		1.1	13.0	1100	14.0	88	3	91	11	12	3.64	56	0.47	1	20	78	4.6	12.0	2.41	0.5	0.5	20.0	1	16.0	2.9	16.69	
104M01	923057	8	546978	6557659	10	6	eJgd	62	7	1.4	15.0	950	0.5	140	2	70	11	14	2.80	74	0.71	1	90	60	8.8	8.5	1.32	2.1	1.6	25.0	1	7.3	4.3	17.64	
104M01	923058	8	546978	6557659	20	6	eJgd	7		1.5	14.0	750	0.5	110	1	59	9	10	2.52	58	0.54	1	20	57	7.0	7.9	1.27	1.5	0.5	18.0	1	4.6	3.6	20.08	
104M15	923059	8	523029	6638412		6	Qal	2		1.2	7.9	1100	22.0	85	14	46	10	6	2.90	48	0.43	1	20	120	5.5	9.2	2.07	0.5	0.5	26.0	1	82.0	2.5	8.07	
104M01	923060	8	556731	6562007		6	lTgd	2		2.8	21.0	1700	6.5	67	6	110	11	9	3.70	34	0.28	1	140	57	5.1	9.6	2.42	0.5	0.7	8.1	1	12.0	1.7	11.29	
104M15	923062	8	524626	6627162		6	lJLg	6		1.7	25.0	590	8.3	31	3	130	12	3	3.15	16	0.25	1	20	40	2.6	12.0	1.30	0.5	0.5	4.4	1	2.4	1.6	19.43	
104M15	923063	8	524138	6632561		6	Qal	7		0.8	29.0	560	8.7	29	2	40	6	3	1.70	17	0.17	1	20	29	2.0	5.9	0.80	0.5	0.5	6.2	1	4.8	1.1	21.63	

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M15	923064	8	527408	6633363	1395		6	lJLg	0	2	T	N	N	212	7.0	100	A	N	S	S	M	D	P	1	M	0508
104M15	923065	8	527143	6633106	1400		6	lJLg	0	2	T	N	N	212	7.0	100	A	N	S	S	M	D	P	1	M	0508
104M01	923066	8	551674	6558162	800	10	6	eEs	2	2	T	N	N	210	10.0	200	A	N	B	S	M	D	P	1	M	0408
104M01	923067	8	551674	6558162	800	20	6	eEs	2	2	T	N	N	210	10.0	260	A	N	B	S	M	D	P	1	M	0408
104M15	923068	8	521062	6639230	1425		6	lKg	0	2	T	N	N	112	10.0	75	A	N	S	S	M	D	P	1	M	0508
104M14	923069	8	474762	6643553	1280		6	eTg	2	2	T	Y	N	120	0.6	100	A	N	S	S	M	D	P	1	M	0508
104M14	923070	8	485407	6648944	700		6	Es	0	2	T	N	N	311	5.0	75	A	N	S	S	M	D	P	1	M	0508
104M15	923071	8	516637	6630443	1335		6	uTsv	0	2	G	N	N	131	7.0	100	A	N	S	S	M	D	P	1	M	0508
104M15	923072	8	520264	6639554	1390		6	lKg	0	1	T	N	N	212	1.0	75	A	N	S	S	M	D	P	1	M	0508
104M14	923073	8	481815	6648570	1305		6	Es	2	2	T	N	N	212	5.0	106	A	N	S	S	M	D	P	1	M	0508
104M14	923075	8	480290	6649136	1330		6	Es	0	2	T	R	N	220	3.0	75	A	N	S	S	M	D	P	1	M	0508
104M14	923076	8	483267	6645445	890		6	KTg	0	2	T	N	N	212	4.0	75	A	N	S	S	M	D	P	1	M	0508
104M14	923077	8	474801	6644279	1290		6	KTg	2	2	T	Y	N	220	8.0	100	A	N	S	S	M	D	P	1	M	0508
104M15	923078	8	520658	6630077	1330		6	uTsv	0	2	T	N	N	122	4.0	75	A	N	S	S	M	D	P	1	M	0508
104M15	923079	8	523337	6635577	1215		6	lKg	0	2	T	N	N	212	4.0	100	A	N	S	S	M	D	P	1	M	0508
104M15	923080	8	518819	6629292	1305		6	uTsv	0	2	T	N	N	212	6.0	100	A	N	S	S	M	D	P	1	M	0508
104M14	923082	8	474511	6643965	1290	10	6	eTg	2	2	T	N	N	220	8.0	100	A	N	S	S	M	D	P	1	M	0508
104M14	923083	8	474511	6643965	1290	20	6	eTg	2	2	T	N	N	220	8.0	100	A	N	S	S	M	D	P	1	M	0508
104M14	923084	8	476331	6646907	1390		6	KTg	1	2	T	N	N	212	3.0	75	A	N	S	S	M	D	P	1	M	0508
104M14	923085	8	472554	6648867	1450		6	eTg	2	2	T	R	N	210	10.0	150	A	R	S	S	M	D	P	2	M	0508
104M13	923086	8	471241	6650606	1410		6	eTg	0	2	T	N	N	211	3.0	75	A	N	S	S	M	D	P	1	M	0508
104M13	923087	8	468855	6650630	1365		6	eTg	2	2	Y	N	N	310	1.0	75	A	Y	B	S	M	D	P	1	M	0508
104M14	923088	8	478871	6639261	890		6	KTg	0	2	T	N	N	212	5.0	75	A	N	S	S	M	D	P	1	M	0508
104M14	923089	8	477793	6638081	945		6	KTg	3	2	T	N	N	220	10.0	200	A	N	S	S	M	D	P	1	M	0508
104M14	923090	8	475339	6638537	1200		6	eTg	0	2	T	R	N	122	5.0	75	A	N	S	S	M	D	P	1	M	0508
104M14	923091	8	473337	6638985	1280		6	eTg	3	2	T	N	N	310	8.0	120	A	N	S	S	M	D	P	1	M	0508
104M14	923093	8	473097	6639600	1280		6	eTg	3	2	T	N	N	311	8.0	100	A	N	S	S	M	D	P	1	M	0508
104M14	923094	8	486002	6638086	1295		6	KTg	0	2	T	Y	N	310	3.0	75	A	N	S	S	M	D	P	1	M	0508
104M14	923095	8	489277	6632966	1215		6	eTg	2	2	T	N	N	210	7.0	100	A	N	B	S	M	D	P	1	M	0508
104M14	923096	8	486620	6634146	980		6	eTg	2	2	T	Y	N	311	6.0	100	A	N	S	S	M	D	P	1	M	0508
104M14	923097	8	483394	6634895	890		6	KTg	0	2	T	N	N	210	3.0	72	A	N	S	S	M	D	P	1	M	0508
104M14	923098	8	482809	6631823	895		6	eTg	2	2	T	N	N	310	5.0	100	A	N	S	S	M	D	P	1	M	0508
104M14	923099	8	478409	6626918	1000		6	eTg	2	2	G	N	N	210	12.0	100	A	N	S	S	M	D	P	1	M	0508
104M14	923100	8	478804	6631382	995		6	eTg	2	2	G	N	N	210	12.0	200	A	N	B	S	M	D	P	1	M	0508
104M09	923102	8	535408	6619794	1325		6	lJLg	0	2	T	N	N	212	6.0	100	A	O	B	S	M	D	P	2	G	0708
104M09	923103	8	535917	6619805	1325		6	lJLg	0	2	T	N	N	212	5.0	100	A	Y	B	S	M	D	P	1	G	0708
104M09	923105	8	541610	6621654	820	10	6	lJLg	0	2	T	N	N	210	8.0	100	A	R	S	S	M	D	P	2	G	0708
104M09	923106	8	541610	6621654	820	20	6	lJLg	0	2	T	N	N	210	8.0	100	A	R	S	S	M	D	P	2	G	0708
104M16	923107	8	539195	6624255	1220		6	lKg	0	2	T	Y	N	211	6.0	100	A	N	B	S	M	D	P	1	G	0708
104M16	923108	8	538881	6624507	1220		6	lKg	0	2	T	Y	N	310	8.0	100	A	N	B	S	M	D	P	1	G	0708

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Water				Stream Sediment													
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
	SAMPLE	UTM	UTM	UTM			ppb	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	ION	LIF	TURB	GCE	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M15	923064	8	527408	6633363		6	lJLg	20	0.05	5.8	7.0	2.1	26.0	0.3	0.4	13	47	240	3.00	19	456	40	3	22	0.2	76	107	7.6	
104M15	923065	8	527143	6633106		6	lJLg	30	0.05	3.5	7.1	2.7	45.0	0.5	0.6	17	66	270	4.30	28	805	50	2	29	0.4	78	142	11.4	
104M01	923066	8	551674	6558162	10	6	eEs	30	0.05	3.1	7.7	1.4	16.0	0.2	0.2	10	28	240	1.60	6	391	90	1	16	0.2	33	41	1.1	
104M01	923067	8	551674	6558162	20	6	eEs	30	0.05	3.0	7.6	1.2	12.0	0.2	0.2	8	25	170	1.60	5	394	70	1	15	0.2	32	45	0.9	
104M15	923068	8	521062	6639230		6	lKg	30	0.05	0.4	6.6	0.5	4.3	1.2	0.2	3	8	430	1.90	19	413	50	19	7	0.2	33	51	11.6	
104M14	923069	8	474762	6643553		6	eTg	270	0.41	0.4	6.7	0.2	0.5	0.2	0.2	2	5	450	0.75	19	211	20	1	2	0.2	14	48	1.9	
104M14	923070	8	485407	6648944		6	Es	260	0.27	9.0	7.4	0.6	18.0	0.5	0.2	6	12	550	2.40	28	674	40	3	9	0.2	37	109	7.2	
104M15	923071	8	516637	6630443		6	uTsv	40	0.05	25.0	7.5	5.5	44.0	0.3	0.7	14	49	340	3.60	17	496	30	7	44	0.2	95	143	3.9	
104M15	923072	8	520264	6639554		6	lKg	30	0.05	0.9	7.1	0.2	4.3	0.5	0.2	4	8	340	1.30	15	323	50	12	4	0.3	24	42	15.5	
104M14	923073	8	481815	6648570		6	Es	90	2.05	4.4	7.4	0.2	8.0	0.4	0.2	5	15	450	1.60	11	346	30	3	7	0.2	36	69	3.6	
104M14	923075	8	480290	6649136		6	Es	130	0.05	2.2	6.7	2.9	6.0	0.4	0.3	6	9	590	1.40	23	243	40	5	6	0.4	36	86	2.4	
104M14	923076	8	483267	6645445		6	KTg	130	4.17	7.2	7.6	0.5	14.0	0.7	0.2	4	7	530	1.70	16	421	20	2	3	0.3	30	81	2.7	
104M14	923077	8	474801	6644279		6	KTg	940	0.23	1.2	6.4	0.2	2.4	0.3	0.2	2	2	790	0.30	17	101	20	2	2	0.2	6	58	0.7	
104M15	923078	8	520658	6630077		6	uTsv	30	0.05	0.4	6.8	1.4	14.0	0.2	0.2	24	97	310	3.50	13	675	50	1	177	0.2	105	63	9.9	
104M15	923079	8	523337	6635577		6	lKg	30	0.11	0.7	6.8	0.5	3.7	1.6	0.2	7	15	360	1.60	18	486	40	2	10	0.2	27	48	8.1	
104M15	923080	8	518819	6629292		6	uTsv	30	0.08	11.0	7.7	4.0	21.0	0.3	0.2	20	64	260	3.80	14	554	60	2	38	0.2	65	84	6.2	
104M14	923082	8	474511	6643965	10	6	eTg	560	0.41	0.4	6.5	0.2	1.0	0.2	0.3	2	2	580	0.30	14	116	20	2	3	0.2	8	39	0.6	
104M14	923083	8	474511	6643965	20	6	eTg	560	0.47	0.4	6.5	0.2	1.5	0.3	0.2	2	5	710	0.30	17	124	20	2	2	0.2	6	44	1.1	
104M14	923084	8	476331	6646907		6	KTg	260	0.11	0.3	6.5	0.2	15.0	3.3	0.4	2	6	650	1.30	37	424	30	4	3	0.2	19	125	4.8	
104M14	923085	8	472554	6648867		6	eTg	1040	0.50	0.8	6.2	0.2	3.6	0.4	0.2	2	3	540	0.25	13	118	30	3	2	0.2	5	46	0.8	
104M13	923086	8	471241	6650606		6	eTg	590	0.14	1.0	6.7	0.3	12.0	0.6	3.3	4	27	630	1.60	72	509	40	5	4	1.6	15	252	3.2	
104M13	923087	8	468855	6650630		6	eTg	2410	0.48	7.8	6.5	0.4	24.0	1.8	1.4	2	17	1350	1.40	97	676	30	15	2	0.6	8	187	2.5	
104M14	923088	8	478871	6639261		6	KTg	130	1.36	0.6	7.0	0.2	0.2	0.2	0.5	3	5	320	1.10	16	276	20	1	4	0.2	22	102	2.3	
104M14	923089	8	477793	6638081		6	KTg	1630	0.25	1.0	6.8	0.2	1.3	0.2	0.2	2	6	650	0.45	14	108	30	1	3	0.2	11	54	1.0	
104M14	923090	8	475339	6638537		6	eTg	980	0.20	0.6	6.2	0.2	1.1	0.4	0.2	2	2	180	0.40	20	56	30	5	2	0.2	5	105	1.6	
104M14	923091	8	473337	6638985		6	eTg	1130	0.20	0.4	6.0	0.2	0.4	1.2	0.4	2	3	850	0.30	31	123	30	2	2	0.2	5	139	0.2	
104M14	923093	8	473097	6639600		6	eTg	870	0.11	0.5	6.1	0.2	2.1	0.4	0.3	2	4	200	0.30	36	172	20	3	2	0.2	5	127	0.5	
104M14	923094	8	486002	6638086		6	KTg	40	0.05	0.1	6.3	0.2	0.3	0.8	1.0	5	8	400	2.30	85	714	40	1	2	0.5	16	122	3.2	
104M14	923095	8	489277	6632966		6	eTg	100	0.18	0.2	6.9	0.2	0.3	0.2	0.2	3	3	190	0.60	6	114	20	1	2	0.2	15	38	2.7	
104M14	923096	8	486620	6634146		6	eTg	100	1.32	0.6	7.2	0.2	0.2	0.2	0.2	3	3	450	1.30	7	294	20	1	3	0.2	25	63	2.3	
104M14	923097	8	483394	6634895		6	KTg	180	1.00	1.1	7.1	0.2	0.4	0.2	0.2	3	5	350	1.20	8	241	30	2	5	0.2	26	47	5.0	
104M14	923098	8	482809	6631823		6	eTg	50	0.52	0.3	7.2	0.2	0.3	0.2	0.2	4	4	450	1.50	15	406	30	2	3	0.2	26	62	4.1	
104M14	923099	8	478409	6626918		6	eTg	70	0.05	0.8	6.9	0.2	0.6	0.2	0.3	2	5	300	0.70	11	108	20	1	2	0.2	18	47	0.5	
104M14	923100	8	478804	6631382		6	eTg	620	0.05	1.0	6.9	0.2	0.6	0.4	0.3	2	9	700	0.60	8	106	10	2	2	0.2	20	36	0.7	
104M09	923102	8	535408	6619794		6	lJLg	30	0.05	7.6	7.1	3.2	18.0	0.2	0.3	12	43	320	3.00	11	434	30	1	18	0.2	68	79	5.8	
104M09	923103	8	535917	6619805		6	lJLg	30	0.05	5.6	7.3	1.4	13.0	0.3	0.4	11	40	350	3.80	14	605	50	2	21	0.2	62	93	17.8	
104M09	923105	8	541610	6621654	10	6	lJLg	40	0.05	8.5	7.4	3.3	26.0	0.3	0.3	12	62	260	3.90	10	345	30	3	29	0.2	80	83	4.7	
104M09	923106	8	541610	6621654	20	6	lJLg	40	0.05	8.7	7.4	3.4	25.0	0.3	0.3	11	67	240	4.20	12	369	30	4	31	0.2	88	86	4.8	
104M16	923107	8	539195	6624255		6	lKg	30	0.05	1.7	6.8	3.2	33.0	0.2	0.2	13	59	320	3.30	9	375	30	2	36	0.2	105	70	3.2	
104M16	923108	8	538881	6624507		6	lKg	40	0.08	0.8	6.8	0.6	3.6	0.2	0.2	4	15	300	1.40	8	168	40	2	10	0.2	46	36	5.0	

FIELD OBSERVATIONS AND ANALYTICAL DATA

								Stream Sediment																								
								Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	:D.L.
								2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:Unit
MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g	:Mthd
104M15	923064	8	527408	6633363		6	lJLg	11		1.6	19.0	740	12.0	39	3	63	10	5	2.78	21	0.22	1	20	56	2.4	9.0	1.34	0.5	0.5	7.2	1	7.8	1.6	20.18	
104M15	923065	8	527143	6633106		6	lJLg	13		2.1	30.0	590	19.0	36	5	58	11	4	2.89	20	0.28	1	20	62	2.4	9.2	1.10	0.5	0.5	8.1	1	10.0	1.7	19.67	
104M01	923066	8	551674	6558162	10	6	eEs	2	6	1.7	12.0	740	0.5	31	1	76	11	3	3.06	16	0.28	1	20	15	2.9	12.0	1.34	0.5	0.5	3.8	1	1.4	1.9	21.54	
104M01	923067	8	551674	6558162	20	6	eEs	26	3	1.4	12.0	720	0.5	33	1	77	11	3	3.12	17	0.28	1	20	27	2.9	12.0	1.37	0.5	0.5	3.8	1	1.2	1.9	20.99	
104M15	923068	8	521062	6639230		6	lKg	5		0.5	3.7	700	13.0	81	5	12	4	5	2.04	50	0.29	1	20	67	3.2	4.1	1.31	0.5	0.6	17.0	5	18.0	1.5	21.09	
104M14	923069	8	474762	6643553		6	eTg	2		0.1	1.1	530	0.5	45	2	10	3	5	1.31	21	0.52	1	20	77	3.9	3.8	1.69	0.5	0.8	19.0	1	11.0	3.4	27.18	
104M14	923070	8	485407	6648944		6	Es	5		0.6	15.0	1000	5.0	85	5	16	6	7	2.62	46	0.37	1	20	87	5.9	8.2	1.53	0.5	0.5	14.0	4	16.0	2.4	23.96	
104M15	923071	8	516637	6630443		6	uTsv	17		8.2	51.0	1000	2.0	52	5	110	17	5	4.63	27	0.36	5	98	76	4.3	17.0	1.74	0.5	0.5	6.7	1	4.5	2.4	12.78	
104M15	923072	8	520264	6639554		6	lKg	13		1.0	6.0	850	16.0	59	5	22	5	8	1.90	39	0.34	1	20	85	3.4	6.5	1.83	0.5	0.5	20.0	3	17.0	2.3	17.82	
104M14	923073	8	481815	6648570		6	Es	9		0.4	9.9	1500	2.4	88	6	20	7	13	3.09	51	0.41	1	20	75	5.0	8.1	2.34	1.9	0.5	24.0	8	20.0	2.1	16.48	
104M14	923075	8	480290	6649136		6	Es	3		0.7	7.6	1700	2.4	98	7	12	7	8	2.91	56	0.34	1	20	80	5.9	8.2	2.56	0.5	0.7	18.0	6	18.0	1.9	17.88	
104M14	923076	8	483267	6645445		6	KTg	2		0.3	15.0	1200	3.1	63	5	10	6	9	2.57	37	0.34	1	20	110	4.4	6.8	2.31	0.9	0.7	22.0	4	16.0	1.9	19.03	
104M14	923077	8	474801	6644279		6	KTg	2		0.2	3.2	220	0.5	41	3	5	1	7	0.57	19	0.79	1	20	160	4.4	0.9	2.61	1.9	1.1	20.0	1	9.9	5.4	23.30	
104M15	923078	8	520658	6630077		6	uTsv	33	80	2.4	16.0	690	14.0	32	5	660	34	3	5.70	16	0.31	1	240	47	3.0	24.0	1.17	0.5	0.5	4.5	1	2.4	2.0	16.78	
104M15	923079	8	523337	6635577		6	lKg	8		1.3	4.7	930	19.0	88	10	48	8	10	3.06	59	0.51	1	20	140	3.3	8.2	2.19	1.3	0.5	29.0	5	78.0	2.9	14.67	
104M15	923080	8	518819	6629292		6	uTsv	23	25	6.5	28.0	1000	10.0	50	6	440	26	5	6.55	29	0.37	1	20	60	4.3	26.0	1.51	0.8	0.7	8.5	1	3.4	2.3	19.20	
104M14	923082	8	474511	6643965	10	6	eTg	2	2	0.2	1.8	350	0.5	36	2	5	1	4	0.63	16	0.55	1	20	160	4.2	1.5	2.51	0.5	0.5	13.0	1	6.4	3.8	13.57	
104M14	923083	8	474511	6643965	20	6	eTg	2		0.1	2.0	380	0.5	48	3	5	2	6	0.78	18	0.64	1	20	160	4.9	1.8	2.64	0.5	0.5	16.0	1	7.6	4.4	13.91	
104M14	923084	8	476331	6646907		6	KTg	2		0.4	18.0	740	7.0	120	7	8	4	15	2.39	55	0.98	1	20	120	9.5	5.2	1.97	2.0	1.2	46.0	7	29.0	6.1	10.91	
104M14	923085	8	472554	6648867		6	eTg	2		0.2	4.7	310	0.5	80	2	5	1	16	0.62	35	1.23	1	20	190	7.9	0.9	2.61	1.5	2.0	31.0	3	13.0	8.8	10.13	
104M13	923086	8	471241	6650606		6	eTg	2		0.7	14.0	930	4.7	75	4	15	5	9	2.38	36	0.47	1	20	130	6.5	6.7	1.79	0.5	0.9	16.0	1	13.0	3.3	12.61	
104M13	923087	8	468855	6650630		6	eTg	2		0.6	27.0	440	0.5	130	6	11	3	13	2.02	53	1.78	1	20	230	14.0	4.1	2.12	2.5	2.6	43.0	8	23.0	13.1	11.83	
104M14	923088	8	478871	6639261		6	KTg	2		0.3	0.5	1200	0.5	72	2	15	5	6	2.05	38	0.30	1	20	77	4.9	6.2	2.34	1.6	0.5	16.0	1	13.0	1.6	12.84	
104M14	923089	8	477793	6638081		6	KTg	2		0.2	2.3	530	0.5	65	1	39	4	15	1.44	30	0.77	1	20	110	5.8	4.8	2.02	0.5	1.1	19.0	1	8.6	5.4	10.49	
104M14	923090	8	475339	6638537		6	eTg	2		0.1	0.5	130	0.5	82	2	5	2	31	1.29	32	1.95	1	20	140	11.0	1.7	2.65	2.7	2.4	43.0	4	23.0	13.8	13.24	
104M14	923091	8	473337	6638985		6	eTg	2		0.2	3.5	160	0.5	60	2	5	1	30	1.15	18	1.66	1	20	150	8.2	0.8	2.29	1.4	1.8	38.0	6	20.0	11.6	13.03	
104M14	923093	8	473097	6639600		6	eTg	2		0.1	2.6	130	0.5	38	3	5	1	10	0.62	13	0.86	1	20	190	5.8	0.9	2.69	0.5	1.4	22.0	1	12.0	6.2	13.38	
104M14	923094	8	486002	6638086		6	KTg	2		0.2	0.5	1500	4.3	120	3	7	6	10	4.15	59	0.53	1	70	88	7.2	6.3	2.44	1.7	0.5	24.0	1	8.0	3.4	11.89	
104M14	923095	8	489277	6632966		6	eTg	3		0.1	0.5	1400	4.2	88	3	5	3	9	1.26	47	0.24	1	20	110	5.7	3.2	2.65	1.2	0.5	21.0	1	5.0	1.7	12.39	
104M14	923096	8	486620	6634146		6	eTg	2		0.1	0.5	1600	3.2	120	3	17	6	11	2.67	64	0.32	1	20	88	7.1	6.5	2.70	2.4	0.5	22.0	1	18.0	2.2	12.25	
104M14	923097	8	483394	6634895		6	KTg	5		0.1	0.5	1200	6.5	93	3	27	6	9	2.27	50	0.40	1	20	89	6.5	7.4	2.49	1.2	0.5	17.0	1	34.0	2.6	12.29	
104M14	923098	8	482809	6631823		6	eTg	2		0.1	0.5	1400	2.4	100	3	21	7	12	2.63	53	0.39	1	120	87	6.8	9.5	2.56	0.5	0.9	19.0	1	16.0	2.3	11.84	
104M14	923099	8	478409	6626918		6	eTg	2		0.1	0.5	1400	0.5	120	1	7	4	15	1.74	65	0.31	1	160	79	6.4	5.8	2.57	0.5	0.5	21.0	1	3.8	2.3	13.65	
104M14	923100	8	478804	6631382		6	eTg	6		0.1	0.5	1200	0.5	170	1	16	5	27	2.22	92	0.51	1	20	73	10.0	8.6	2.40	0.5	0.5	38.0	9	9.2	3.0	10.40	
104M09	923102	8	535408	6619794		6	lJLg	8		2.9	20.0	1100	22.0	57	6	97	17	7	4.60	30	0.35	1	20	88	5.0	17.0	2.33	0.5	1.1	9.1	1	5.4	2.5	10.58	
104M09	923103	8	535917	6619805		6	lJLg	2		1.5	15.0	940	33.0	54	6	92	16	5	3.85	28	0.35	1	20	77	4.9	15.0	1.74	0.5	0.7	7.5	1	4.3	2.4	8.31	
104M09	923105	8	541610	6621654	10	6	lJLg	12	18	3.8	28.0	1000	6.3	37	3	150	16	4	4.46	18	0.29	4	90	54	3.4	16.0	2.14	0.5	0.5	4.4	1	2.4	1.9	11.95	
104M09	923106	8	541610	6621654	20	6	lJLg	16		4.2	31.0	1100	7.7	44	4	170	17	4	5.09	20	0.34	5	20	73	3.8	18.0	2.34	0.5	1.0	5.1	1	2.0	2.2	10.93	
104M16	923107	8	539195	6624255		6	lKg	2		3.8	36.0	990	4.1	57	5	290	19	11	5.44	30	0.41	1	160	64	4.7	21.0	2.33	1.0	0.5	13.0	1	5.8	2.6	11.33	
104M16	923108	8	538881	6624507		6	lKg	2		1.4	4.6	1100	5.9	81	3	76	8	15	3.11	43	0.44	1	20	91	5.0	10.0	2.61	1.1	0.5	18.0	1	6.5	2.7	11.48	

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M16	923109	8	537082	6629258	170		6	lJLg	0	1	G	N	N	310	0.3	75	A	N	S	S	M	D	P	1	G	0708
104M16	923110	8	536035	6626195	910		6	lKg	0	2	T	N	N	212	4.0	100	C	N	B	S	M	D	P	1	G	0708
104M16	923111	8	533031	6627728	1060		6	lKg	0	2	T	N	N	311	4.0	75	A	N	B	S	M	D	P	1	G	0708
104M16	923112	8	535439	6630529	1240		6	lJLg	0	2	T	N	N	311	3.0	75	C	N	B	S	M	D	P	1	G	0708
104M10	923113	8	523554	6617953	1390		6	PPmb	0	2	T	Y	N	210	8.0	100	A	N	B	S	M	D	P	1	M	0708
104M16	923114	8	530653	6626824	915		6	lKg	0	2	T	Y	N	212	4.0	100	A	N	B	S	M	D	P	1	G	0708
104M10	923115	8	521349	6619972	1350		6	PPmb	0	2	T	B	N	211	10.0	75	A	N	S	S	M	D	P	1	M	0708
104M15	923116	8	520429	6625226	915		6	uTsv	0	2	T	Y	N	311	5.0	100	A	N	S	S	M	D	P	1	G	0708
104M10	923117	8	521317	6622383	915		6	PPmb	0	2	T	Y	N	211	6.0	75	A	N	S	S	M	D	P	1	G	0708
104M15	923118	8	516931	6625001	1220		6	PPmb	0	2	T	N	N	311	4.0	75	A	N	B	S	M	D	P	1	G	0708
104M15	923119	8	513367	6626691	1380		6	lKg	0	2	T	N	N	212	5.0	75	A	B	S	S	M	D	P	1	G	0708
104M14	923120	8	499319	6624995	920		6	lKg	0	2	T	Y	N	311	4.0	75	A	N	S	S	M	D	P	1	G	0708
104M14	923122	8	496171	6625922	790		6	eTg	0	2	T	N	N	211	4.0	75	A	N	S	S	M	D	P	1	G	0708
104M14	923123	8	494909	6625390	1020	10	6	eTg	0	2	T	R	N	211	5.0	75	A	N	S	S	M	D	P	1	G	0708
104M14	923124	8	494909	6625390	1020	20	6	eTg	0	2	T	R	N	211	5.0	75	A	N	S	S	M	D	P	1	G	0708
104M14	923125	8	493626	6623623	1125		6	eTg	0	2	T	B	N	310	5.0	100	A	N	B	S	M	D	P	1	M	0708
104M14	923126	8	492109	6628465	760		6	eTg	0	2	T	Y	N	410	3.0	100	A	N	B	S	M	D	P	1	G	0708
104M11	923127	8	487747	6622320	880		6	eTg	0	2	T	R	N	212	3.0	75	O	N	S	S	M	D	P	1	M	0708
104M14	923128	8	483033	6624055	1045		6	eTg	2	2	G	N	N	110	15.0	100	G	N	S	S	M	G	P	1	M	0708
104M11	923129	8	486274	6620825	900		6	eTg	0	2	T	N	N	212	3.0	75	A	N	S	S	M	D	P	1	M	0708
104M11	923130	8	485316	6619991	925		6	eTg	2	2	T	N	N	210	10.0	100	G	N	S	S	M	D	P	1	M	0708
104M11	923131	8	485022	6620154	925		6	eTg	2	2	T	N	N	210	12.0	100	G	N	S	S	M	D	P	1	M	0708
104M11	923132	8	489784	6621102	970		6	eTg	0	2	T	N	N	210	3.0	75	A	N	S	S	M	D	P	1	M	0708
104M11	923134	8	491897	6618880	1180		6	eTg	0	2	T	N	N	112	3.0	75	A	B	S	S	M	D	P	1	M	0708
104M11	923135	8	491123	6613896	1120		6	eTg	0	2	T	N	N	212	8.0	75	A	N	S	S	M	D	P	1	M	0708
104M11	923136	8	495145	6607956	1105		6	eTg	0	2	T	N	N	311	3.0	75	A	N	S	S	M	D	P	1	M	0708
104M11	923137	8	495174	6607549	1105		6	eTg	2	2	T	N	N	310	8.0	100	A	N	S	S	M	D	P	1	M	0708
104M11	923138	8	496890	6613838	1070		6	eTg	0	2	T	N	N	212	4.0	75	A	N	S	S	M	D	P	1	M	0708
104M10	923139	8	499988	6616054	1025		6	eTg	0	2	T	N	N	310	5.0	100	A	Y	B	S	M	D	P	1	M	0708
104M10	923140	8	502968	6614143	1140		6	eTg	0	2	G	N	N	510	7.0	75	A	Y	S	S	M	D	P	1	M	0708
104M10	923142	8	511843	6607111	1430		6	KTg	0	2	T	N	N	210	7.0	75	A	N	S	S	M	D	P	1	M	0808
104M10	923143	8	509811	6605768	1315	10	6	KTg	0	2	T	N	N	211	8.0	100	A	N	S	S	M	D	P	1	M	0808
104M10	923144	8	509811	6605768	1315	20	6	KTg	0	2	T	N	N	211	8.0	100	A	N	S	S	M	D	P	1	M	0808
104M10	923145	8	507792	6603068	1140		6	KTg	2	2	T	N	N	310	4.0	75	A	N	S	S	M	D	P	1	M	0808
104M10	923146	8	510063	6606135	1315		6	KTg	0	2	R	R	N	112	3.0	75	A	N	S	S	M	D	P	1	M	0808
104M10	923147	8	504040	6603558	1245		6	KTg	0	2	T	B	N	310	3.0	75	A	N	S	S	M	D	P	1	M	0808
104M10	923148	8	513009	6599465	823		6	eKt	2	2	T	N	N	210	5.0	100	A	N	S	S	M	D	P	1	M	0808
104M10	923149	8	505523	6598212	1050		6	KTg	0	2	T	N	N	310	2.0	75	A	N	S	S	M	D	P	1	M	0808
104M10	923150	8	504265	6597985	1065		6	KTg	2	2	G	Y	N	310	5.0	100	A	N	S	S	M	D	P	1	M	0808
104M10	923151	8	501410	6596981	1070		6	KTg	2	2	T	N	N	310	8.0	100	G	N	S	S	M	D	P	1	M	0808

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Water				Stream Sediment													
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
	SAMPLE	UTM	UTM	UTM			ppb	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	ION	LIF	TURB	GCE	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M16	923109	8	537082	6629258		6	lJLg	40	0.15	0.8	7.4	0.6	4.8	0.2	0.2	4	14	180	1.10	5	129	30	2	15	0.2	40	38	3.2	
104M16	923110	8	536035	6626195		6	lKg	50	6.34	1.6	7.6	3.1	5.2	4.5	0.2	4	96	480	1.60	23	525	70	12	7	0.2	31	53	4.5	
104M16	923111	8	533031	6627728		6	lKg	60	8.58	2.7	7.6	1.1	24.0	0.2	0.3	10	29	490	1.90	10	379	30	2	38	0.2	54	58	6.1	
104M16	923112	8	535439	6630529		6	lJLg	40	0.05	2.8	7.4	2.3	20.0	0.2	0.2	11	45	340	2.80	9	343	50	2	37	0.2	88	70	12.6	
104M10	923113	8	523554	6617953		6	PPmb	40	0.05	14.0	7.4	14.0	140.0	0.4	0.5	12	43	300	3.20	27	642	30	2	29	0.7	37	108	1.9	
104M16	923114	8	530653	6626824		6	lKg	40	0.18	0.4	7.1	0.5	13.0	0.2	0.4	4	15	370	1.70	13	489	40	1	11	0.2	36	53	14.3	
104M10	923115	8	521349	6619972		6	PPmb	40	0.05	3.9	6.9	2.8	310.0	1.8	0.4	10	52	470	2.50	21	314	40	2	18	0.2	71	84	9.0	
104M15	923116	8	520429	6625226		6	uTsv	50	2.16	470.0	7.9	4.8	28.0	0.2	0.9	24	105	370	4.30	15	1060	60	6	55	0.2	83	136	5.9	
104M10	923117	8	521317	6622383		6	PPmb	40	0.05	23.0	7.3	3.8	60.0	0.3	0.7	8	31	240	0.95	14	230	30	2	12	0.2	32	43	0.7	
104M15	923118	8	516931	6625001		6	PPmb	40	0.05	14.0	7.2	3.4	125.0	0.4	0.6	26	58	320	4.20	15	500	20	2	39	0.2	118	94	1.8	
104M15	923119	8	513367	6626691		6	lKg	40	0.13	16.0	7.3	27.0	740.0	1.0	0.9	27	104	520	5.80	35	920	50	4	53	0.7	159	166	8.2	
104M14	923120	8	499319	6624995		6	lKg	50	0.69	0.8	7.3	0.4	2.0	0.2	0.2	6	7	550	1.80	22	509	30	1	4	0.2	30	75	3.7	
104M14	923122	8	496171	6625922		6	eTg	40	0.05	1.3	6.7	0.2	1.0	0.2	0.2	4	6	440	1.20	11	292	40	3	4	0.2	26	53	6.3	
104M14	923123	8	494909	6625390	10	6	eTg	120	0.32	1.0	7.1	0.2	0.7	0.2	0.2	2	4	440	0.75	16	229	20	1	2	0.2	8	48	2.4	
104M14	923124	8	494909	6625390	20	6	eTg	140	0.50	1.0	7.1	0.2	0.5	0.2	0.2	2	3	360	0.70	14	244	20	1	2	0.2	10	47	3.0	
104M14	923125	8	493626	6623623		6	eTg	100	0.13	0.6	6.9	0.2	0.4	0.4	0.6	2	6	320	1.00	32	297	40	2	4	0.2	17	92	2.9	
104M14	923126	8	492109	6628465		6	eTg	170	2.74	2.1	7.6	0.2	0.7	0.2	0.2	5	4	550	2.00	18	573	20	1	5	0.2	22	96	3.8	
104M11	923127	8	487747	6622320		6	eTg	220	0.15	0.5	6.8	0.2	1.9	0.3	0.4	3	8	560	1.70	30	552	50	6	2	0.3	23	88	11.0	
104M14	923128	8	483033	6624055		6	eTg	90	0.05	0.8	6.9	0.2	3.8	0.2	0.2	2	5	370	0.70	13	104	10	1	2	0.2	11	34	0.8	
104M11	923129	8	486274	6620825		6	eTg	70	0.05	0.2	6.5	0.2	1.0	0.2	0.2	2	6	350	1.40	12	172	30	6	3	0.2	27	60	6.0	
104M11	923130	8	485316	6619991		6	eTg	80	0.09	0.4	6.6	0.2	0.4	0.2	0.7	3	5	300	0.70	16	157	20	2	2	0.2	11	79	0.5	
104M11	923131	8	485022	6620154		6	eTg	80	0.05	0.6	6.6	0.2	6.4	0.2	0.5	2	8	380	0.90	21	158	20	2	2	0.2	12	61	0.5	
104M11	923132	8	489784	6621102		6	eTg	80	0.09	0.8	6.9	0.2	0.3	0.2	0.3	2	4	250	0.50	9	205	10	1	2	0.2	12	35	0.9	
104M11	923134	8	491897	6618880		6	eTg	110	0.05	0.9	6.9	0.2	2.3	0.9	1.2	6	12	1680	2.70	61	1000	50	13	7	0.7	31	140	8.1	
104M11	923135	8	491123	6613896		6	eTg	60	0.05	1.0	6.9	0.2	1.0	0.4	0.2	2	5	310	1.20	15	175	30	6	3	0.5	16	40	9.9	
104M11	923136	8	495145	6607956		6	eTg	320	1.05	0.4	7.1	0.3	1.0	0.4	0.4	2	7	700	1.70	25	373	50	4	4	0.2	15	61	9.3	
104M11	923137	8	495174	6607549		6	eTg	290	0.48	1.0	7.1	0.2	0.9	0.3	0.2	2	6	390	0.65	6	122	10	2	3	0.2	10	24	1.4	
104M11	923138	8	496890	6613838		6	eTg	90	2.00	2.4	7.3	0.2	0.8	0.2	0.2	4	7	420	1.60	10	293	30	1	4	0.2	34	60	3.4	
104M10	923139	8	499988	6616054		6	eTg	40	0.22	0.5	6.8	0.2	0.3	0.2	0.2	2	5	330	1.00	15	218	20	1	3	0.2	20	43	3.0	
104M10	923140	8	502968	6614143		6	eTg	30	2.25	0.2	7.1	0.2	0.4	0.2	0.2	4	6	380	1.80	28	341	10	1	6	0.2	23	72	2.8	
104M10	923142	8	511843	6607111		6	KTg	30	0.05	2.3	6.7	0.2	2.1	0.3	0.2	10	92	530	2.50	8	430	40	5	12	0.2	84	58	4.2	
104M10	923143	8	509811	6605768	10	6	KTg	40	0.30	1.6	7.0	0.2	1.5	0.2	0.2	2	6	280	0.70	5	149	20	2	3	0.2	17	24	0.7	
104M10	923144	8	509811	6605768	20	6	KTg	40	0.29	1.6	7.0	0.2	1.2	0.2	0.2	2	5	280	0.55	3	137	10	4	2	0.2	13	23	0.9	
104M10	923145	8	507792	6603068		6	KTg	50	0.13	0.3	6.9	0.2	0.3	0.2	0.2	2	4	210	0.60	2	133	10	2	3	0.2	18	25	0.8	
104M10	923146	8	510063	6606135		6	KTg	30	0.05	0.7	6.6	0.2	2.6	0.2	0.2	24	44	260	9.80	4	1450	50	63	81	0.2	109	40	15.3	
104M10	923147	8	504040	6603558		6	KTg	160	0.20	1.1	6.9	0.2	0.5	0.2	0.2	2	7	260	1.20	6	223	40	6	3	0.2	29	35	7.8	
104M10	923148	8	513009	6599465		6	eKt	40	0.05	1.5	6.6	0.2	0.6	0.3	0.2	5	8	310	1.20	4	229	30	3	4	0.2	45	41	3.8	
104M10	923149	8	505523	6598212		6	KTg	40	0.05	4.6	6.9	0.2	1.9	0.2	0.4	4	18	360	1.20	3	170	20	1	11	0.2	50	57	1.2	
104M10	923150	8	504265	6597985		6	KTg	30	0.05	1.3	6.8	0.2	0.4	0.2	0.2	2	5	300	0.65	4	94	10	1	2	0.2	20	21	0.5	
104M10	923151	8	501410	6596981		6	KTg	20	0.05	0.4	6.8	0.2	0.8	0.2	0.2	2	5	270	0.70	2	92	10	1	2	0.2	17	20	0.6	

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Stream Sediment																							
							Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	:D.L.
							2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:Unit
MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g	:Mthd
104M16	923109	8	537082	6629258		6	lJLg	2		1.3	6.7	1200	2.1	77	2	190	10	10	2.44	44	0.31	1	20	87	4.4	12.0	2.56	1.1	0.5	10.0	1	5.2	2.3	12.53	
104M16	923110	8	536035	6626195		6	lKg	5		4.9	6.4	1300	5.3	85	10	36	7	10	2.58	47	0.41	1	20	150	5.0	8.1	2.49	0.5	1.0	27.0	22	35.0	2.2	10.26	
104M16	923111	8	533031	6627728		6	lKg	6		1.7	20.0	1000	3.7	73	5	200	14	8	3.29	42	0.45	1	20	84	5.4	14.0	2.05	1.0	0.5	15.0	1	40.0	2.7	11.07	
104M16	923112	8	535439	6630529		6	lJLg	12		3.6	21.0	1000	9.7	49	5	240	15	8	4.10	27	0.35	1	20	71	3.8	17.0	2.25	0.9	0.5	11.0	1	7.1	2.3	12.07	
104M10	923113	8	523554	6617953		6	PPmb	25	32	15.0	150.0	1700	2.4	46	3	91	16	4	4.45	22	0.62	1	20	54	5.1	20.0	1.64	0.5	0.9	5.9	1	2.2	4.2	12.92	
104M16	923114	8	530653	6626824		6	lKg	2		1.1	13.0	810	16.0	82	8	110	9	14	3.38	56	0.56	1	20	79	4.8	10.0	2.19	0.5	1.2	35.0	1	68.0	3.2	11.76	
104M10	923115	8	521349	6619972		6	PPmb	5		5.8	310.0	1200	19.0	64	7	83	16	6	4.88	34	0.60	1	20	48	5.3	21.0	2.02	1.2	0.9	11.0	6	10.0	3.8	11.83	
104M15	923116	8	520429	6625226		6	uTsv	2		7.1	28.0	860	7.6	42	8	230	27	4	5.57	20	0.34	7	130	65	4.2	24.0	1.35	0.5	0.5	5.1	1	1.5	2.4	11.22	
104M10	923117	8	521317	6622383		6	PPmb	9		6.3	64.0	1200	0.5	49	2	47	12	5	2.38	26	0.34	1	120	36	4.0	10.0	1.98	0.5	0.5	5.7	1	1.6	2.1	13.94	
104M15	923118	8	516931	6625001		6	PPmb	7		5.7	120.0	1100	3.2	60	5	160	31	4	6.18	29	0.47	1	20	61	5.4	28.0	1.89	0.5	0.8	6.5	1	2.1	3.3	12.24	
104M15	923119	8	513367	6626691		6	lKg	32	28	34.0	740.0	1200	19.0	60	19	140	34	5	7.64	34	0.61	1	85	88	5.4	27.0	1.25	0.5	1.2	11.0	7	17.0	3.9	10.66	
104M14	923120	8	499319	6624995		6	lKg	2		0.1	1.7	1200	2.9	120	4	18	7	11	3.22	68	0.48	1	20	140	8.4	8.1	2.26	1.2	0.8	32.0	1	13.0	3.4	12.36	
104M14	923122	8	496171	6625922		6	eTg	3		0.2	2.3	1100	10.0	70	3	21	7	8	2.21	35	0.30	1	20	78	5.1	8.2	2.19	1.4	1.0	13.0	1	11.0	2.0	10.66	
104M14	923123	8	494909	6625390	10	6	eTg	7	2	0.1	1.4	1400	2.8	100	3	10	3	8	1.49	54	0.37	1	20	150	6.9	4.6	2.17	1.9	0.5	24.0	1	11.0	2.4	11.48	
104M14	923124	8	494909	6625390	20	6	eTg	2		0.2	1.3	1300	2.2	110	3	7	3	8	1.62	57	0.35	1	20	170	7.0	4.6	2.21	0.5	1.0	26.0	1	12.0	2.2	12.03	
104M14	923125	8	493626	6623623		6	eTg	2		0.1	0.5	1200	4.0	130	3	11	4	10	2.24	65	0.46	1	20	120	7.8	6.0	2.30	2.2	0.5	28.0	1	19.0	3.0	12.96	
104M14	923126	8	492109	6628465		6	eTg	2		0.3	1.5	1700	3.1	130	4	17	6	11	3.43	69	0.42	1	20	160	7.5	8.1	2.35	2.0	0.5	33.0	1	14.0	2.2	11.04	
104M11	923127	8	487747	6622320		6	eTg	3		0.1	3.4	1200	22.0	140	3	16	6	12	2.68	83	0.73	1	20	120	14.0	10.0	2.09	0.5	1.4	21.0	1	36.0	4.5	9.42	
104M14	923128	8	483033	6624055		6	eTg	7		0.3	5.5	990	0.5	120	2	15	6	34	2.90	59	0.73	1	20	59	8.3	12.0	2.84	0.5	1.0	17.0	1	6.8	4.7	10.28	
104M11	923129	8	486274	6620825		6	eTg	6		0.3	2.4	1200	13.0	130	2	13	5	17	2.57	65	0.58	1	20	90	8.5	10.0	2.33	0.5	1.2	17.0	1	9.4	4.0	11.36	
104M11	923130	8	485316	6619991		6	eTg	3		0.1	0.5	1100	0.5	120	1	13	3	13	2.12	71	0.43	7	20	95	6.8	6.8	3.16	0.5	0.5	21.0	1	5.6	2.6	12.57	
104M11	923131	8	485022	6620154		6	eTg	2		0.2	6.4	1400	0.5	99	1	14	5	13	2.96	53	0.55	1	20	98	6.7	11.0	2.70	1.3	0.5	12.0	1	2.9	3.0	10.19	
104M11	923132	8	489784	6621102		6	eTg	2		0.1	0.5	1300	0.5	71	1	9	3	5	1.57	36	0.29	1	20	120	3.9	4.7	2.92	1.5	0.5	13.0	1	3.5	1.5	10.01	
104M11	923134	8	491897	6618880		6	eTg	8		0.1	2.6	1200	17.0	120	6	27	8	6	4.11	74	0.80	17	20	170	13.0	12.0	2.01	0.5	2.1	25.0	5	21.0	4.8	9.03	
104M11	923135	8	491123	6613896		6	eTg	2		0.1	2.1	930	17.0	83	2	13	3	8	1.72	49	0.59	1	20	74	6.0	5.2	2.35	0.5	0.5	18.0	1	17.0	2.9	9.81	
104M11	923136	8	495145	6607956		6	eTg	3		0.7	0.5	560	20.0	140	5	22	3	16	2.48	74	0.93	1	20	140	10.0	6.4	2.16	2.3	2.1	37.0	1	37.0	4.8	9.51	
104M11	923137	8	495174	6607549		6	eTg	2		0.1	0.5	580	0.5	150	1	10	2	20	1.69	83	0.74	6	20	120	7.8	3.8	2.73	2.0	0.5	35.0	6	11.0	4.1	13.21	
104M11	923138	8	496890	6613838		6	eTg	2		0.4	0.5	1300	5.9	120	3	17	8	11	3.49	71	0.45	1	20	120	8.1	10.0	2.52	2.1	0.5	25.0	2	25.0	2.5	11.48	
104M10	923139	8	499988	6616054		6	eTg	2		0.1	0.5	1200	2.9	98	3	19	5	6	2.14	55	0.35	1	20	150	6.3	6.7	2.48	1.2	0.5	26.0	1	12.0	1.9	12.81	
104M10	923140	8	502968	6614143		6	eTg	3		0.1	1.2	1000	3.5	120	4	20	7	8	2.63	68	0.37	1	20	200	6.7	6.8	2.71	0.5	0.5	29.0	1	20.0	1.9	12.00	
104M10	923142	8	511843	6607111		6	KTg	2		0.6	2.3	1500	5.1	99	5	44	21	5	5.93	53	0.44	9	20	90	6.2	19.0	2.43	0.5	0.8	14.0	13	9.8	2.4	10.91	
104M10	923143	8	509811	6605768	10	6	KTg	2	2	0.2	2.2	1400	0.5	160	1	15	3	17	2.22	92	0.88	1	20	80	8.0	5.8	3.07	0.5	0.5	23.0	1	7.7	4.7	12.46	
104M10	923144	8	509811	6605768	20	6	KTg	2		0.1	0.5	1400	0.5	160	1	20	5	20	2.33	94	0.94	1	20	89	8.5	6.2	3.31	1.0	0.5	26.0	1	7.6	5.2	12.19	
104M10	923145	8	507792	6603068		6	KTg	2		0.1	0.5	1500	0.5	110	1	15	4	6	2.10	65	0.33	3	20	87	5.4	6.1	3.43	0.8	0.5	14.0	1	3.1	1.8	13.19	
104M10	923146	8	510063	6606135		6	KTg	2		0.1	1.9	840	21.0	69	3	380	44	4	11.80	41	0.36	67	20	15	4.7	16.0	1.49	0.5	0.5	9.4	1	6.5	1.8	8.73	
104M10	923147	8	504040	6603558		6	KTg	5		0.1	0.5	1100	23.0	150	2	27	5	11	2.66	100	0.57	1	20	57	8.5	9.2	2.57	1.7	0.5	17.0	1	20.0	3.0	9.99	
104M10	923148	8	513009	6599465		6	eKt	3		0.3	0.5	1200	0.5	88	2	37	11	9	4.08	51	0.46	8	20	51	5.9	13.0	2.73	0.5	0.5	10.0	1	4.9	2.4	11.85	
104M10	923149	8	505523	6598212		6	KTg	2		0.1	2.6	2000	2.2	69	1	39	7	6	2.46	40	0.30	2	100	71	4.5	7.2	2.00	1.0	0.5	9.1	1	2.8	1.5	12.97	
104M10	923150	8	504265	6597985		6	KTg	2		0.1	0.5	1400	0.5	230	1	33	10	26	5.60	150	0.61	1	20	58	9.9	14.0	2.68	0.5	0.5	25.0	1	4.7	3.2	13.42	
104M10	923151	8	501410	6596981		6	KTg	2		0.1	0.5	1300	0.5	170	1	15	5	14	2.66	100	0.40	1	20	34	7.4	12.0	2.95	0.5	0.8	16.0	1	2.7	2.1	13.59	

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M10	923152	8	502803	6606048	1325		6	KTg	2	2	T	N	N	210	5.0	100	A	N	S	S	M	D	P	1	M	0808
104M10	923153	8	506294	6610448	1095		6	eTg	2	2	G	Y	N	210	8.0	100	A	N	B	S	M	D	P	1	M	0808
104M10	923154	8	505897	6610769	1205		6	eTg	0	2	T	B	N	212	0.3	50	A	N	B	S	M	D	P	1	M	0808
104M10	923155	8	507627	6611629	1220		6	lKg	0	2	T	Y	N	310	2.0	75	A	N	S	S	M	D	P	2	M	0808
104M10	923156	8	509906	6613849	1035		6	lKg	2	2	G	N	N	210	10.0	75	A	N	S	S	M	D	P	1	M	0808
104M10	923157	8	509720	6617270	1285		6	lKg	0	2	T	N	N	311	2.0	75	A	N	S	S	M	D	P	1	G	0808
104M10	923158	8	507821	6618458	1150		6	lKg	0	2	G	Y	N	210	3.0	75	A	N	B	S	M	D	P	1	G	0808
104M10	923160	8	505730	6616551	1200		6	lKg	2	2	G	Y	N	311	8.0	100	A	N	S	S	M	D	P	1	G	0808
104M14	923162	8	496269	6631669	1020		6	eTg	0	2	T	N	N	310	3.0	75	A	N	S	S	M	D	P	1	M	0808
104M14	923163	8	495123	6632449	1035		6	eTg	0	2	T	N	N	210	6.0	100	A	Y	B	S	M	D	P	2	G	0808
104M14	923164	8	494607	6634016	1015	10	6	eTg	0	2	T	N	N	211	3.0	75	A	N	S	S	M	D	P	1	M	0808
104M14	923165	8	494607	6634016	1015	20	6	eTg	0	2	T	N	N	211	3.0	75	A	N	S	S	M	D	P	1	M	0808
104M14	923166	8	493184	6633801	1035		6	eTg	2	2	T	Y	N	210	7.0	100	A	N	B	S	M	D	P	1	M	0808
104M14	923167	8	493045	6635212	735		6	eTg	0	2	T	N	N	310	3.0	75	A	N	S	S	M	D	P	2	M	0808
104M14	923168	8	490259	6639522	890		6	Qal	0	2	T	N	N	311	2.0	50	R	N	B	S	M	D	P	1	M	0808
104M14	923169	8	489297	6640386	890		6	lKg	0	1	T	N	N	410	1.0	50	A	N	S	S	M	D	P	1	G	0808
104M14	923170	8	488843	6641445	975		6	lKg	0	2	G	Y	N	210	3.0	106	A	N	B	S	M	D	P	2	M	0808
104M14	923171	8	487170	6643670	1055		6	Es	2	2	T	Y	N	310	7.0	100	A	N	B	S	M	D	P	1	M	0808
104M14	923172	8	487395	6643335	1055		6	lKg	2	2	T	Y	N	310	4.0	75	A	N	S	S	M	D	P	1	M	0808
104M14	923173	8	493232	6648430	1345		6	lKg	0	2	T	B	N	311	4.0	75	A	N	B	S	M	D	P	1	M	0808
104M09	923174	8	543512	6601262	1220		6	lJLg	0	2	G	N	N	212	3.0	75	A	N	B	S	M	D	P	1	G	0808
104M08	923175	8	556364	6589445	1300		6	lJLg	0	1	T	N	N	311	2.0	50	A	N	S	S	M	D	P	1	G	0808
104M08	923176	8	553510	6594315	1300		6	lJLg	0	2	T	Y	N	311	0.4	75	A	N	S	S	M	D	P	1	G	0808
104M09	923177	8	555133	6598115	1345		6	lJLa	0	2	T	Y	N	311	2.0	75	A	N	S	S	M	D	P	1	G	0808
104M09	923178	8	555158	6601952	1230		6	lJLg	0	2	T	Y	N	211	5.0	100	A	N	S	S	M	D	P	1	M	0808
104M09	923180	8	554007	6615388	1160		6	lKg	0	2	T	N	N	112	2.0	75	A	N	S	S	M	D	P	1	G	0808
104M09	923182	8	554855	6617502	1310		6	TP	0	1	T	Y	N	311	2.0	75	A	N	S	S	M	D	P	1	G	0808
104M10	923183	8	515989	6612294	915	10	6	lKg	0	2	G	Y	N	210	12.0	125	A	N	B	S	M	D	P	1	M	0908
104M10	923184	8	515989	6612294	915	20	6	lKg	0	2	G	Y	N	210	12.0	125	A	N	B	S	M	D	P	1	M	8908
104M10	923185	8	515226	6613019	1270		6	lKg	2	2	G	Y	N	210	9.0	125	A	N	B	S	M	D	P	1	M	0908
104M10	923186	8	514767	6613970	1450		6	lKg	0	2	G	Y	N	212	7.0	100	A	N	B	S	M	D	P	1	M	0908
104M10	923187	8	542814	6596497	660		6	lJLa	0	2	T	Y	P	212	8.0	100	A	N	S	S	M	D	P	1	G	0808
104M10	923188	8	514953	6614570	880		6	PPmb	0	2	T	N	N	212	3.0	75	A	N	B	S	M	D	P	2	M	0908
104M10	923189	8	513673	6614693	1215		6	lKg	0	2	G	Y	N	310	5.0	100	A	N	B	S	M	D	P	1	G	0908
104M10	923190	8	516958	6618410	1410		6	eJh	0	2	T	N	N	111	5.0	75	A	N	S	S	M	D	P	1	G	0908
104M10	923191	8	516445	6620556	1470		6	PPmb	0	2	T	Y	N	212	2.0	75	A	N	S	S	M	D	P	1	G	0908
104M08	923193	8	554998	6589453	1260		6	lKgd	0	2	T	Y	N	111	4.0	75	A	N	S	S	M	D	P	1	M	0808
104M10	923194	8	516848	6620337	1470		6	PPmb	0	2	T	Y	N	211	3.0	75	A	N	S	S	M	D	P	1	G	0908
104M10	923195	8	513390	6623020	1325		6	lKg	0	2	T	Y	N	212	3.0	75	A	N	B	S	M	D	P	1	G	0908
104M15	923196	8	511736	6629401	1015		6	PPmb	0	2	T	N	N	311	3.0	75	A	N	S	S	M	D	P	1	G	0908

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Water				Stream Sediment													
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
	SAMPLE	UTM	UTM	UTM			ppb	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	ION	LIF	TURB	GCE	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M10	923152	8	502803	6606048		6	KTg	150	0.16	0.9	6.9	0.2	2.4	0.2	0.2	2	5	500	1.40	8	232	30	2	2	0.2	18	50	1.9	
104M10	923153	8	506294	6610448		6	eTg	40	0.70	4.9	7.2	0.2	0.4	0.2	0.2	4	11	380	0.80	4	105	10	2	2	0.2	22	27	0.8	
104M10	923154	8	505897	6610769		6	eTg	60	0.48	1.7	7.0	0.2	1.8	0.2	0.3	5	10	490	1.60	21	268	20	2	5	0.2	37	69	3.3	
104M10	923155	8	507627	6611629		6	lKg	60	0.68	13.0	7.3	0.2	2.0	0.2	0.2	8	39	560	2.00	9	388	20	2	10	0.2	50	55	2.4	
104M10	923156	8	509906	6613849		6	lKg	40	0.20	5.8	7.0	0.2	1.3	0.2	0.2	6	38	390	1.30	5	184	20	1	6	0.2	43	32	0.4	
104M10	923157	8	509720	6617270		6	lKg	30	0.28	0.4	7.2	0.2	0.5	0.2	0.2	6	11	370	1.80	7	322	30	2	12	0.2	40	58	9.8	
104M10	923158	8	507821	6618458		6	lKg	30	0.13	0.6	6.9	0.2	0.5	0.2	0.2	5	12	560	1.90	6	341	30	2	4	0.2	49	61	4.9	
104M10	923160	8	505730	6616551		6	lKg	40	0.86	0.7	7.0	0.2	0.9	0.2	0.2	3	7	450	1.20	5	146	10	1	3	0.2	26	30	0.7	
104M14	923162	8	496269	6631669		6	eTg	60	0.15	0.4	6.7	0.2	1.6	0.2	0.2	5	8	570	2.00	16	499	20	4	4	0.2	24	68	3.2	
104M14	923163	8	495123	6632449		6	eTg	50	0.25	0.5	6.6	0.2	0.8	0.3	0.2	3	7	370	1.20	13	308	20	3	3	0.2	23	55	3.9	
104M14	923164	8	494607	6634016	10	6	eTg	50	0.10	0.3	6.5	0.2	0.3	0.2	0.2	2	4	370	1.20	8	193	20	2	2	0.2	25	47	2.0	
104M14	923165	8	494607	6634016	20	6	eTg	50	0.07	0.3	6.6	0.2	0.3	0.4	0.2	2	3	400	1.20	7	206	20	2	2	0.2	24	48	4.2	
104M14	923166	8	493184	6633801		6	eTg	60	0.50	0.5	6.9	0.2	0.2	0.2	0.2	2	5	230	0.50	4	98	10	1	2	0.2	10	23	0.1	
104M14	923167	8	493045	6635212		6	eTg	60	0.08	0.8	7.2	0.2	0.9	0.3	0.2	2	5	370	1.90	10	335	10	1	2	0.2	24	76	2.2	
104M14	923168	8	490259	6639522		6	Qal	110	0.20	0.8	7.2	0.2	0.9	0.2	0.6	5	15	390	2.60	38	695	30	2	3	0.4	21	94	7.0	
104M14	923169	8	489297	6640386		6	lKg	150	0.57	0.1	7.0	0.2	0.4	0.5	0.8	2	8	260	1.80	21	435	40	18	2	0.2	17	47	13.6	
104M14	923170	8	488843	6641445		6	lKg	120	0.21	0.9	6.8	0.2	0.7	0.4	0.4	2	11	270	0.65	13	153	20	1	2	0.2	10	40	1.3	
104M14	923171	8	487170	6643670		6	Es	90	0.16	1.5	7.0	0.2	3.2	0.4	0.3	2	9	300	1.50	12	243	10	1	2	0.2	20	61	1.5	
104M14	923172	8	487395	6643335		6	lKg	80	0.16	1.2	7.2	0.2	3.0	0.3	0.4	2	10	350	2.10	21	396	20	2	2	0.2	31	80	2.6	
104M14	923173	8	493232	6648430		6	lKg	70	0.35	0.9	6.8	0.2	1.4	0.3	0.6	3	11	430	1.70	15	416	40	2	5	0.2	29	73	8.9	
104M09	923174	8	543512	6601262		6	lJLg	50	0.05	11.0	6.9	3.7	73.0	0.4	1.8	7	37	250	4.50	12	1750	120	3	13	0.7	53	173	31.2	
104M08	923175	8	556364	6589445		6	lJLg	40	0.05	5.0	7.1	1.2	13.0	0.2	0.5	8	15	390	3.20	13	990	50	2	11	0.2	59	87	10.5	
104M08	923176	8	553510	6594315		6	lJLg	30	0.05	6.8	7.4	1.3	39.0	0.4	0.3	5	20	300	2.80	14	376	50	2	13	0.2	51	85	8.9	
104M09	923177	8	555133	6598115		6	lJLa	40	0.05	8.5	7.1	1.3	29.0	0.4	0.4	6	25	220	2.20	19	283	30	1	10	0.2	58	69	5.5	
104M09	923178	8	555158	6601952		6	lJLg	40	0.05	6.3	7.1	2.5	44.0	0.7	0.6	9	49	280	3.80	30	560	50	2	23	0.2	75	88	12.8	
104M09	923180	8	554007	6615388		6	lKg	50	0.08	9.0	7.9	0.9	8.0	0.3	0.3	10	31	240	2.70	7	331	100	2	22	0.2	75	69	9.4	
104M09	923182	8	554855	6617502		6	TP	40	0.45	4.8	7.5	1.8	6.8	0.2	0.7	5	34	310	1.60	59	261	70	2	11	0.3	25	112	7.7	
104M10	923183	8	515989	6612294	10	6	lKg	40	0.25	1.0	7.0	0.2	1.4	0.4	0.2	3	24	400	1.30	13	279	20	2	4	0.2	38	36	1.8	
104M10	923184	8	515989	6612294	20	6	lKg	30	0.29	0.9	6.9	0.2	1.8	0.4	0.2	4	23	390	1.30	12	263	20	2	5	0.2	37	34	2.0	
104M10	923185	8	515226	6613019		6	lKg	40	0.34	2.4	6.8	0.2	1.4	0.4	0.2	2	16	210	1.20	10	237	20	1	4	0.2	38	37	1.8	
104M10	923186	8	514767	6613970		6	lKg	30	0.18	0.3	6.6	0.2	1.3	0.9	0.2	2	12	400	1.40	18	334	30	2	6	0.2	33	50	3.4	
104M10	923187	8	542814	6596497		6	lJLa	60	0.05	23.0	7.6	5.8	100.0	0.8	0.4	7	46	270	3.20	15	366	30	5	15	0.2	62	87	6.6	
104M10	923188	8	514953	6614570		6	PPmb	40	0.10	0.3	6.7	0.3	1.9	0.3	0.2	3	13	340	1.20	10	199	20	2	5	0.2	36	36	3.9	
104M10	923189	8	513673	6614693		6	lKg	40	0.27	0.3	6.7	0.2	1.1	0.2	0.2	2	7	220	0.75	9	142	10	1	3	0.2	13	21	1.7	
104M10	923190	8	516958	6618410		6	eJh	80	0.05	2.2	7.1	1.4	45.0	0.4	0.8	24	131	500	4.40	23	690	50	3	97	0.2	123	134	16.7	
104M10	923191	8	516445	6620556		6	PPmb	50	0.25	5.2	7.4	3.4	53.0	0.6	0.6	11	65	260	2.70	20	368	40	2	22	0.3	69	82	7.8	
104M08	923193	8	554998	6589453		6	lKgd	50	0.05	2.7	7.0	4.5	53.0	1.0	0.5	12	30	390	2.70	17	420	40	2	18	0.2	90	77	5.4	
104M10	923194	8	516848	6620337		6	PPmb	40	0.13	9.1	7.3	3.2	51.0	0.4	0.6	11	48	260	2.50	19	361	20	1	16	0.2	74	67	2.1	
104M10	923195	8	513390	6623020		6	lKg	50	0.10	13.0	7.1	2.5	100.0	0.4	0.5	12	38	460	2.80	15	373	40	2	54	0.2	78	79	5.4	
104M15	923196	8	511736	6629401		6	PPmb	40	0.18	11.0	7.5	5.2	240.0	0.7	1.0	13	60	320	4.00	43	685	50	7	25	0.6	93	145	15.7	

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Stream Sediment																							
							Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	
							2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:D.L.
	SAMPLE	UTM	UTM	UTM			ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	g	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA		:Mthd
104M10	923152	8	502803	6606048		6	KTg	2		0.4	1.0	900	2.4	130	3	16	4	18	2.64	70	0.78	1	20	120	8.5	7.2	2.85	2.6	1.2	30.0	1	12.0	4.3	11.93	
104M10	923153	8	506294	6610448		6	eTg	2		0.1	0.5	1200	0.5	110	1	32	8	11	3.10	60	0.41	1	20	70	7.8	12.0	2.90	1.2	0.5	18.0	1	7.2	2.5	13.90	
104M10	923154	8	505897	6610769		6	eTg	8		0.4	0.5	1200	9.8	140	4	29	11	11	3.78	79	0.54	1	130	150	8.8	9.8	2.54	2.0	0.5	29.0	1	38.0	2.2	10.90	
104M10	923155	8	507627	6611629		6	lKg	2		0.4	1.6	1200	0.5	81	4	47	15	9	4.56	44	0.42	5	110	80	5.3	13.0	2.72	0.5	0.5	14.0	27	8.9	2.3	12.96	
104M10	923156	8	509906	6613849		6	lKg	20		0.4	1.3	850	0.5	98	2	34	13	8	4.68	54	0.58	7	20	62	6.5	18.0	3.17	0.5	1.0	18.0	12	6.1	3.5	13.11	
104M10	923157	8	509720	6617270		6	lKg	6		0.3	0.5	1100	9.5	78	4	73	10	11	3.68	44	0.49	1	97	97	5.6	12.0	2.53	1.4	0.5	17.0	1	31.0	2.0	10.76	
104M10	923158	8	507821	6618458		6	lKg	2		0.1	0.5	810	7.2	170	4	29	10	28	5.11	92	0.84	1	20	78	10.0	15.0	2.56	0.5	0.5	36.0	1	21.0	4.4	10.96	
104M10	923160	8	505730	6616551		6	lKg	2		0.1	0.5	1300	0.5	200	2	38	8	31	4.37	120	0.80	1	20	94	11.0	9.9	2.98	2.4	0.5	52.0	1	24.0	4.3	12.60	
104M14	923162	8	496269	6631669		6	eTg	2		0.3	0.5	1400	3.7	140	5	21	9	16	5.06	70	0.66	13	20	140	7.2	9.8	2.98	2.1	0.5	30.0	1	21.0	3.3	11.45	
104M14	923163	8	495123	6632449		6	eTg	2		0.2	0.5	1300	8.4	110	5	13	4	8	2.47	64	0.36	1	20	160	6.2	6.0	2.95	0.9	0.5	27.0	1	20.0	1.9	11.98	
104M14	923164	8	494607	6634016	10	6	eTg	4	2	0.2	0.5	1400	0.5	220	3	15	5	19	2.67	130	0.61	1	20	160	11.0	6.4	3.01	0.5	0.5	48.0	1	12.0	3.2	12.27	
104M14	923165	8	494607	6634016	20	6	eTg	2		0.1	1.3	1400	4.9	230	3	16	5	21	2.96	130	0.63	1	20	120	11.0	6.7	3.06	2.7	0.5	53.0	1	15.0	3.4	11.94	
104M14	923166	8	493184	6633801		6	eTg	2		0.1	0.5	1300	0.5	120	1	5	3	15	2.09	66	0.39	1	20	110	5.9	2.9	3.29	0.5	0.7	27.0	1	12.0	2.2	13.72	
104M14	923167	8	493045	6635212		6	eTg	3		0.2	0.5	1200	1.9	78	4	5	6	8	3.01	43	0.32	1	20	120	5.2	6.5	3.00	1.1	1.0	17.0	1	10.0	1.5	12.49	
104M14	923168	8	490259	6639522		6	Qal	2		0.2	0.5	1400	5.3	150	2	6	4	14	3.63	83	0.72	8	20	100	7.9	6.5	2.68	0.5	1.3	27.0	1	17.0	3.7	10.48	
104M14	923169	8	489297	6640386		6	lKg	4		0.3	0.5	1100	8.8	160	1	5	1	10	2.21	120	0.53	15	20	78	9.3	4.4	2.53	1.7	0.5	23.0	1	25.0	2.8	9.60	
104M14	923170	8	488843	6641445		6	lKg	2		0.1	0.5	1300	0.5	54	1	5	2	5	1.41	30	0.34	1	20	110	3.4	2.5	3.35	0.5	1.2	9.5	3	3.4	1.9	12.56	
104M14	923171	8	487170	6643670		6	Es	5		0.4	5.0	1300	2.3	87	3	10	5	9	2.43	49	0.34	1	20	110	5.0	6.8	2.70	0.5	0.5	18.0	6	6.3	1.8	12.90	
104M14	923172	8	487395	6643335		6	lKg	3		0.3	2.4	1300	6.9	95	4	13	7	9	3.32	57	0.43	1	20	100	6.3	8.6	2.58	0.8	0.9	21.0	1	9.1	2.3	12.11	
104M14	923173	8	493232	6648430		6	lKg	5		0.4	2.3	1000	16.0	78	3	17	7	8	2.62	47	0.63	1	72	92	7.3	7.8	2.67	1.8	0.5	20.0	1	36.0	2.9	9.41	
104M09	923174	8	543512	6601262		6	lJLg	18		4.5	83.0	1000	35.0	38	5	73	15	3	3.55	21	0.40	1	20	43	4.5	14.0	1.13	0.5	0.5	5.4	1	3.0	2.7	10.37	
104M08	923175	8	556364	6589445		6	lJLg	7		2.1	13.0	1200	7.5	46	4	95	12	6	3.69	21	0.32	1	20	58	3.2	12.0	2.38	0.5	0.5	6.7	1	3.9	2.1	11.21	
104M08	923176	8	553510	6594315		6	lJLg	2		2.4	36.0	670	21.0	47	10	70	10	8	3.54	25	0.36	1	53	57	3.7	11.0	2.00	0.5	0.9	7.2	1	4.6	1.9	10.46	
104M09	923177	8	555133	6598115		6	lJLa	2		2.9	28.0	1000	7.1	42	4	83	10	5	3.60	22	0.30	1	20	57	3.2	13.0	2.42	0.7	0.5	6.3	1	3.9	1.7	11.29	
104M09	923178	8	555158	6601952		6	lJLg	2		4.0	49.0	1100	37.0	47	7	130	14	5	4.15	27	0.42	1	20	70	3.8	16.0	1.95	1.2	0.5	9.1	1	12.0	2.6	11.50	
104M09	923180	8	554007	6615388		6	lKg	2		1.2	6.9	850	3.9	47	1	100	15	6	3.91	26	0.40	1	20	53	3.6	16.0	2.56	0.5	0.5	5.5	1	2.4	2.3	10.72	
104M09	923182	8	554855	6617502		6	TP	15		3.5	9.1	1300	6.7	63	6	80	9	9	2.74	39	0.43	1	60	80	4.2	10.0	2.02	0.9	0.6	13.0	3	15.0	2.7	16.67	
104M10	923183	8	515989	6612294	10	6	lKg	2		0.4	1.5	1400	0.5	86	3	39	11	7	3.62	48	0.43	6	20	100	4.8	12.0	2.74	0.8	0.5	20.0	6	11.0	2.1	12.30	
104M10	923184	8	515989	6612294	20	6	lKg	5	3	0.6	3.2	1500	0.5	96	3	46	11	8	3.69	54	0.48	1	20	110	5.0	13.0	2.65	0.5	0.5	24.0	6	15.0	2.6	19.82	
104M10	923185	8	515226	6613019		6	lKg	8		0.5	1.7	1300	0.5	76	4	32	9	9	3.10	48	0.45	1	20	97	4.2	9.9	3.04	0.5	0.8	24.0	5	19.0	2.5	18.30	
104M10	923186	8	514767	6613970		6	lKg	2		0.4	2.0	1100	5.4	71	9	33	8	8	2.77	42	0.40	1	20	140	3.6	8.2	2.55	2.1	0.5	26.0	4	28.0	2.0	17.56	
104M10	923187	8	542814	6596497		6	lJLa	40	35	7.1	89.0	1200	8.9	66	5	79	11	8	4.19	39	0.51	1	20	59	4.9	14.0	2.14	0.6	0.6	9.8	1	3.7	2.9	19.94	
104M10	923188	8	514953	6614570		6	PPmb	2		0.3	0.5	1200	2.7	72	5	47	9	9	3.11	45	0.43	1	20	95	4.4	11.0	2.61	0.9	0.9	20.0	1	15.0	2.7	18.93	
104M10	923189	8	513673	6614693		6	lKg	2		0.3	1.4	1100	0.5	85	4	31	6	10	2.80	52	0.41	1	20	96	4.2	6.9	2.93	1.9	0.7	29.0	1	16.0	2.3	17.18	
104M10	923190	8	516958	6618410		6	eJh	6		2.1	46.0	770	23.0	29	9	280	37	3	6.57	15	0.36	1	130	59	3.0	24.0	1.42	0.5	0.5	4.2	1	7.5	2.5	11.47	
104M10	923191	8	516445	6620556		6	PPmb	31	7	4.4	57.0	1100	13.0	61	4	110	15	5	4.35	36	0.45	1	20	58	3.8	17.0	1.97	0.5	0.9	10.0	1	30.0	2.6	19.35	
104M08	923193	8	554998	6589453		6	lKgd	6		5.2	57.0	1100	11.0	58	4	170	18	10	5.79	30	0.47	1	20	76	4.6	18.0	2.28	2.5	0.5	9.5	1	10.0	3.0	15.26	
104M10	923194	8	516848	6620337		6	PPmb	7		4.4	55.0	1100	4.1	68	3	100	17	6	4.91	38	0.51	1	20	56	4.6	20.0	2.10	0.5	0.5	13.0	1	6.1	3.4	16.52	
104M10	923195	8	513390	6623020		6	lKg	63	70	5.7	95.0	970	5.5	63	5	250	19	7	5.18	37	0.47	1	60	57	4.8	19.0	1.98	0.7	0.9	12.0	1	7.2	3.2	19.45	
104M15	923196	8	511736	6629401		6	PPmb	13		7.2	190.0	870	8.7	40	8	70	14	4	3.91	34	0.39	1	20	51	3.3	14.0	1.16	0.5	0.6	7.2	4	43.0	2.7	20.96	

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M15	923197	8	509785	6629061	770		6	lKg	0	1	T	R	N	310	2.0	75	A	N	S	S	M	D	P	1	G	0908
104M15	923198	8	518001	6633772	1250		6	lKg	0	2	T	Y	N	310	3.0	75	A	N	S	S	M	D	P	1	G	0908
104M15	923199	8	515121	6635040	1050		6	lKg	0	2	T	Y	N	310	4.0	100	A	N	S	S	M	D	P	1	G	0908
104M15	923200	8	508361	6637761	1275		6	lJLa	0	2	T	Y	N	410	5.0	100	R	N	B	S	M	D	P	1	M	0908
104M10	923202	8	500274	6604951	1275	10	6	KTg	0	2	T	Y	N	210	6.0	100	A	N	S	S	M	D	P	2	M	1008
104M10	923203	8	500274	6604951	1275	20	6	KTg	0	2	T	Y	N	216	6.0	100	A	N	S	S	M	D	P	2	M	1008
104M11	923204	8	498844	6600296	980		6	KTg	2	2	G	Y	N	212	10.0	75	A	N	B	S	M	D	P	1	M	1008
104M15	923205	8	508569	6643081	1200		6	lmJv	0	2	T	Y	N	210	8.0	150	A	N	B	S	M	D	P	2	G	1008
104M15	923206	8	510882	6647179	1380		6	Kqm	0	2	T	N	N	212	2.0	50	A	N	S	S	M	D	P	1	G	1008
104M15	923207	8	522730	6643531	1045		6	lJLa	0	2	G	Y	N	210	3.0	75	A	N	B	S	M	D	P	1	G	1008
104M15	923208	8	527255	6648736	1245		6	TP	0	2	T	N	N	212	2.0	75	A	N	S	S	M	D	P	1	G	1008
104M15	923210	8	527181	6649136	1245		6	TP	0	2	T	N	N	212	2.0	75	A	N	S	S	M	D	P	1	G	1008
104M16	923211	8	531987	6648922	1060		6	MTCl	0	2	T	Y	N	212	2.0	75	A	N	S	S	M	D	P	1	G	1008
104M16	923212	8	539408	6649589	1075		6	Qal	0	1	T	N	N	112	2.0	50	O	N	S	S	M	D	P	1	G	1008
104M16	923213	8	531005	6639452	1060		6	eTg	0	2	T	N	N	112	2.0	75	A	N	S	S	M	D	P	1	G	1008
104M16	923214	8	528591	6639029	1325		6	eTg	0	2	T	N	N	311	2.0	50	O	N	S	S	M	D	P	1	G	1008
104M16	923215	8	527950	6638897	1330		6	eTg	0	2	T	N	N	311	2.0	75	O	N	S	M	M	D	P	1	G	1008
104M11	923216	8	491049	6611173	920		6	eTg	0	2	T	N	N	220	15.0	150	A	N	S	S	M	D	P	2	M	1308
104M11	923217	8	496839	6619166	900		6	eTg	0	2	T	N	N	210	3.0	75	O	N	S	S	M	D	P	2	M	1308
104M16	923218	8	538408	6634367	800		6	Qal	0	3	T	N	N	220	3.0	75	A	N	S	S	H	D	P	2	G	1008
104M16	923219	8	531666	6631942	1525		6	lJLg	0	1	T	N	N	012	1.0	10	O	N	S	M	H	D	S	1	G	1008
104M16	923220	8	531733	6631529	1525		6	lJLg	0	1	T	N	N	012	1.0	10	O	N	S	M	H	D	S	1	G	1008
104M15	923222	8	501160	6631894	1245		6	lKg	0	2	T	B	N	310	3.0	75	A	N	B	S	M	D	P	1	G	0908
104M15	923223	8	500246	6637283	960		6	lKg	0	2	T	Y	N	311	3.0	75	A	N	B	S	M	D	P	1	M	0908
104M15	923224	8	500319	6637684	965		6	lKg	0	2	T	Y	N	311	3.0	75	A	N	B	S	M	D	P	1	M	0908
104M15	923225	8	500849	6639839	1060		6	lKg	2	2	T	N	N	310	6.0	100	A	N	S	S	M	D	P	1	G	0908
104M15	923226	8	501727	6641655	950		6	lKg	0	2	T	Y	N	310	6.0	75	A	N	B	S	M	D	P	1	G	0908
104M15	923227	8	502410	6642972	1105		6	lKg	0	2	G	Y	N	310	3.0	75	R	N	B	S	M	D	P	1	G	0908
104M15	923228	8	503789	6645376	630	10	6	PPmb	0	2	T	N	N	310	10.0	75	A	N	B	S	M	D	P	1	M	0908
104M15	923229	8	503789	6645376	630	20	6	PPmb	0	2	T	N	N	310	10.0	75	A	N	B	S	M	D	P	1	M	0908
104M15	923230	8	504772	6644251	915		6	PPmb	0	2	T	N	N	113	2.0	50	A	N	S	S	M	D	P	1	G	0908
104M15	923231	8	503980	6646205	640		6	PPmb	0	2	T	Y	N	211	4.0	75	R	N	B	S	M	D	P	1	G	0908
104M15	923232	8	503910	6648488	730		6	PPmb	0	2	T	Y	N	310	6.0	100	A	N	B	S	M	D	P	1	G	0908
104M15	923233	8	506366	6649260	925		6	eTg	0	2	T	Y	N	310	4.0	75	A	N	B	S	M	D	P	1	G	0908
104M15	923234	8	508427	6650054	1550		6	lJLa	0	2	T	N	N	310	6.0	75	A	N	S	S	M	D	P	1	G	0908
104M09	923235	8	536967	6597324	1430		6	eJgd	0	2	T	N	N	310	2.0	75	A	N	S	S	M	D	P	1	G	1008
104M15	923236	8	514127	6649542	1340		6	Qal	0	2	T	Y	N	311	3.0	75	A	N	S	S	M	D	P	1	G	0908
104M10	923238	8	502212	6602187	1365		6	KTg	2	2	G	N	N	120	5.0	75	G	N	B	S	M	D	P	1	M	1008
104M10	923239	8	499823	6604884	1280		6	KTg	0	2	T	Y	N	210	5.0	100	A	N	S	S	M	D	P	1	M	1008
104M15	923240	8	512116	6650276	1475		6	uTsv	0	2	T	N	N	311	2.0	50	A	N	S	S	M	D	P	1	G	0908

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Water				Stream Sediment													
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	ppb ION	ppb LIF	ppm TURB	GCE	ppm AAS	ppm AAS-H	ppm AAS-H	ppm AAS	ppm AAS	ppm AAS	ppm ION	% AAS	ppm AAS	ppm AAS	ppb AAS-F	ppm AAS	ppm AAS	ppm AAS	ppm AAS	ppm AAS	% GRAV	:Unit :Mthd
104M15	923197	8	509785	6629061		6	lKg	40	0.52	1.3	7.3	0.5	29.0	0.2	0.2	3	7	210	2.00	3	160	40	9	5	0.2	33	32	8.4	
104M15	923198	8	518001	6633772		6	lKg	40	0.19	0.4	7.0	0.7	4.1	0.3	0.3	4	8	300	2.00	14	311	30	2	9	0.2	28	44	8.5	
104M15	923199	8	515121	6635040		6	lKg	20	0.07	0.6	6.9	0.4	2.0	0.2	0.2	4	6	260	1.10	13	233	20	1	10	0.2	22	31	2.0	
104M15	923200	8	508361	6637761		6	lJLa	40	0.05	17.0	7.4	52.0	4000.0	7.0	5.3	36	140	520	9.00	74	1440	80	29	127	0.8	86	498	10.0	
104M10	923202	8	500274	6604951	10	6	KTg	180	0.42	0.5	6.8	0.4	1.4	0.2	0.2	3	2	540	1.20	12	307	20	2	3	0.2	10	46	1.5	
104M10	923203	8	500274	6604951	20	6	KTg	190	0.47	0.5	6.9	0.2	1.0	0.2	0.2	2	3	530	1.20	13	284	10	3	3	0.2	12	45	1.9	
104M11	923204	8	498844	6600296		6	KTg	50	0.05	0.4	6.9	0.2	0.4	0.2	0.2	5	5	580	2.10	7	261	50	1	4	0.2	46	63	4.0	
104M15	923205	8	508569	6643081		6	lmJv	50	0.05	6.4	7.1	25.0	350.0	2.3	0.9	17	83	500	4.40	30	590	40	4	39	0.5	100	95	6.0	
104M15	923206	8	510882	6647179		6	Kqm	80	0.05	6.8	7.5	3.4	26.0	0.4	0.5	9	24	330	2.40	16	488	50	2	15	0.2	49	69	7.0	
104M15	923207	8	522730	6643531		6	lJLa	80	0.05	22.0	7.7	1.2	9.5	0.2	0.5	14	73	350	3.80	9	399	30	1	54	0.2	112	98	4.2	
104M15	923208	8	527255	6648736		6	TP	90	0.16	6.1	7.9	2.0	14.0	0.2	1.3	11	47	440	3.30	8	630	110	4	35	0.2	55	113	17.1	
104M15	923210	8	527181	6649136		6	TP	90	0.30	8.0	7.7	0.8	13.0	0.4	0.3	9	23	500	3.00	11	498	330	2	22	0.2	41	78	12.9	
104M16	923211	8	531987	6648922		6	MTCl	60	0.05	4.5	7.7	0.7	8.0	0.3	0.4	9	14	370	3.10	9	413	130	2	16	0.2	41	87	11.8	
104M16	923212	8	539408	6649589		6	Qal	50	0.27	0.4	8.1	0.4	12.0	0.2	0.2	8	23	270	2.40	3	225	50	1	37	0.2	40	50	11.5	
104M16	923213	8	531005	6639452		6	eTg	90	0.35	0.3	6.9	0.4	5.6	0.2	0.3	2	5	360	1.20	8	576	60	2	5	0.2	14	41	13.9	
104M16	923214	8	528591	6639029		6	eTg	90	0.05	0.2	6.7	0.4	14.0	0.4	0.5	2	4	320	1.10	21	232	40	3	4	0.2	12	55	6.0	
104M16	923215	8	527950	6638897		6	eTg	100	0.05	0.2	6.7	0.2	16.0	0.4	0.3	3	4	350	1.40	13	266	30	2	5	0.2	14	52	4.8	
104M11	923216	8	491049	6611173		6	eTg	70	0.10	0.8	7.1	0.2	1.8	0.3	0.2	4	3	600	1.70	13	310	30	2	3	0.2	30	77	3.0	
104M11	923217	8	496839	6619166		6	eTg	100	1.19	2.5	7.5	0.2	0.9	0.2	0.2	2	2	390	0.85	11	149	30	2	4	0.2	15	51	4.5	
104M16	923218	8	538408	6634367		6	Qal	80	0.09	2.0	7.7	0.7	24.0	0.2	0.6	7	21	350	2.00	11	375	30	1	17	0.2	53	92	5.4	
104M16	923219	8	531666	6631942		6	lJLg	40	0.05	2.3	7.4	0.9	14.0	0.2	0.2	9	28	370	2.50	7	239	40	1	30	0.2	81	68	9.8	
104M16	923220	8	531733	6631529		6	lJLg	50	0.05	8.1	7.6	1.1	10.0	0.2	0.2	9	33	420	2.60	9	368	40	2	26	0.2	64	68	13.0	
104M15	923222	8	501160	6631894		6	lKg	50	0.40	0.2	6.6	0.2	1.6	0.2	0.2	2	2	240	0.60	8	201	20	1	2	0.2	8	31	2.2	
104M15	923223	8	500246	6637283		6	lKg	110	5.67	1.0	7.2	0.2	1.3	0.3	0.2	3	3	440	1.10	11	244	20	1	3	0.2	25	43	2.5	
104M15	923224	8	500319	6637684		6	lKg	90	2.15	0.9	7.2	0.2	1.6	0.3	0.2	4	4	450	1.70	12	337	30	2	3	0.2	30	45	6.3	
104M15	923225	8	500849	6639839		6	lKg	80	2.00	1.0	7.0	0.8	36.0	1.4	0.4	4	4	320	1.40	33	422	20	6	2	0.8	22	75	3.7	
104M15	923226	8	501727	6641655		6	lKg	270	1.93	0.8	7.2	1.0	120.0	6.5	1.8	3	9	630	1.30	127	755	50	9	2	5.0	19	133	3.2	
104M15	923227	8	502410	6642972		6	lKg	310	20.00	2.4	7.6	0.6	47.0	3.0	0.3	4	15	660	2.00	20	830	50	12	3	1.0	25	87	12.1	
104M15	923228	8	503789	6645376	10	6	PPmb	70	0.25	4.7	7.4	1.8	29.0	2.0	0.6	9	43	290	2.10	15	367	20	2	13	0.5	60	63	2.0	
104M15	923229	8	503789	6645376	20	6	PPmb	60	0.17	4.7	7.4	2.1	33.0	9.7	0.9	9	48	340	2.10	16	364	30	3	14	0.4	58	70	2.0	
104M15	923230	8	504772	6644251		6	PPmb	50	2.50	109.0	8.2	5.2	80.0	0.3	2.2	7	53	230	2.10	27	1260	80	5	12	0.4	20	134	49.6	
104M15	923231	8	503980	6646205		6	PPmb	80	4.46	230.0	8.0	2.5	27.0	1.5	0.6	24	74	400	3.70	26	553	30	4	48	0.4	85	77	5.5	
104M15	923232	8	503910	6648488		6	PPmb	60	0.05	12.0	7.6	2.0	22.0	0.8	0.2	15	37	180	2.40	17	325	40	2	29	0.2	62	36	5.4	
104M15	923233	8	506366	6649260		6	eTg	80	20.00	42.0	7.9	1.6	30.0	2.7	1.0	7	19	450	3.00	36	574	30	3	8	0.5	36	128	11.5	
104M15	923234	8	508427	6650054		6	lJLa	40	0.05	13.0	7.5	7.0	115.0	0.9	1.8	10	38	460	3.00	25	476	210	5	26	0.2	57	154	3.5	
104M09	923235	8	536967	6597324		6	eJgd	40	0.05	2.5	7.1	0.5	4.6	0.2	0.3	6	17	310	1.50	7	270	30	2	7	0.2	39	45	4.2	
104M15	923236	8	514127	6649542		6	Qal	50	0.05	1.9	7.5	3.4	62.0	0.5	0.5	11	46	400	2.50	23	506	30	2	16	0.2	55	79	5.6	
104M10	923238	8	502212	6602187		6	KTg	60	0.05	0.4	7.2	0.2	0.4	0.2	0.2	7	4	710	2.40	3	349	10	1	2	0.2	58	66	1.0	
104M10	923239	8	499823	6604884		6	KTg	270	0.68	0.4	7.1	0.2	0.8	0.2	0.2	3	6	440	0.70	7	105	10	2	2	0.2	12	22	0.9	
104M15	923240	8	512116	6650276		6	uTsv	70	0.80	100.0	8.2	7.9	230.0	1.3	0.6	18	99	600	5.20	16	940	70	3	27	0.4	56	152	11.7	

FIELD OBSERVATIONS AND ANALYTICAL DATA

								Stream Sediment																							
								Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	:D.L.
								2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:Unit
MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g	:Mthd
104M15	923197	8	509785	6629061		6	lKg	125	2	1.3	25.0	1000	4.3	99	2	34	5	10	2.46	80	0.41	1	20	58	5.9	6.8	2.12	1.1	0.7	18.0	1	44.0	2.5	16.07	
104M15	923198	8	518001	6633772		6	lKg	2		1.7	6.1	870	21.0	130	6	66	8	21	3.89	90	0.75	1	20	120	5.4	8.3	2.45	0.5	1.2	60.0	1	89.0	4.0	12.06	
104M15	923199	8	515121	6635040		6	lKg	2		1.4	3.3	1000	3.0	86	4	70	6	11	2.63	54	0.41	1	20	130	3.7	6.4	2.60	1.7	0.5	29.0	1	12.0	2.2	16.70	
104M15	923200	8	508361	6637761		6	lJLa	81	40	71.0	3200.0	790	0.5	66	21	47	46	4	10.30	36	0.46	9	240	82	5.2	14.0	0.63	1.2	0.5	8.7	12	7.5	2.5	11.35	
104M10	923202	8	500274	6604951	10	6	KTg	2	2	0.7	3.1	850	0.5	150	4	19	5	39	2.53	74	1.37	1	20	150	10.0	7.0	2.65	2.2	1.7	55.0	1	29.0	9.4	17.16	
104M10	923203	8	500274	6604951	20	6	KTg	2		0.6	2.2	800	0.9	130	3	16	4	33	2.28	66	1.25	1	20	150	9.0	6.4	2.53	2.5	1.5	47.0	1	25.0	8.4	19.98	
104M11	923204	8	498844	6600296		6	KTg	2		0.1	0.5	1300	0.5	130	1	24	10	18	4.74	60	0.62	1	20	80	8.5	19.0	2.75	0.5	0.5	15.0	1	7.4	3.4	18.22	
104M15	923205	8	508569	6643081		6	lmJv	34	64	35.0	510.0	1100	5.8	85	13	140	27	5	7.05	40	0.64	1	20	54	6.6	26.0	1.75	0.5	0.5	9.7	1	6.4	3.7	18.74	
104M15	923206	8	510882	6647179		6	Kqm	2		1.2	18.0	1000	6.8	60	1	200	15	8	3.46	32	0.43	4	20	52	4.2	14.0	2.23	0.5	0.5	7.0	1	0.5	2.6	19.18	
104M15	923207	8	522730	6643531		6	lJLa	2		14.0	53.0	1500	11.0	100	6	67	17	9	5.51	50	0.67	1	20	110	6.6	17.0	2.35	0.5	0.5	14.0	1	11.0	4.0	15.22	
104M15	923208	8	527255	6648736		6	TP	2		3.0	18.0	1500	5.2	54	6	280	26	7	6.58	28	0.48	1	20	120	4.9	27.0	3.83	0.5	0.5	6.4	1	4.6	3.0	12.39	
104M15	923210	8	527181	6649136		6	TP	2		3.9	23.0	2000	33.0	71	4	130	15	6	4.59	45	0.69	1	20	78	7.0	17.0	1.08	0.5	0.5	9.5	1	5.3	4.1	11.80	
104M16	923211	8	531987	6648922		6	MTCl	6		2.1	11.0	1100	13.0	59	3	78	13	6	4.57	32	0.43	2	20	67	4.5	14.0	1.56	0.5	0.8	8.2	1	2.8	2.5	10.39	
104M16	923212	8	539408	6649589		6	Qal	8		1.1	12.0	730	6.4	44	3	40	7	4	2.61	27	0.36	3	20	52	4.7	9.4	0.92	0.5	0.8	6.3	1	5.0	2.2	16.50	
104M16	923213	8	531005	6639452		6	eTg	2		0.8	5.5	600	45.0	150	2	38	5	20	2.22	80	1.58	1	20	80	10.0	6.2	2.61	0.5	2.0	32.0	1	61.0	8.0	12.14	
104M16	923214	8	528591	6639029		6	eTg	2		1.2	14.0	850	21.0	160	3	20	3	45	2.40	94	1.69	1	63	150	8.3	4.8	2.76	0.5	0.5	42.0	1	29.0	9.4	18.78	
104M16	923215	8	527950	6638897		6	eTg	2		0.8	18.0	890	5.3	160	3	21	5	43	2.54	89	1.57	1	20	110	7.6	6.0	3.10	0.5	0.5	38.0	1	16.0	8.6	18.00	
104M11	923216	8	491049	6611173		6	eTg	2		0.1	1.5	1400	4.5	67	2	16	7	6	2.88	38	0.27	1	20	98	4.5	7.3	2.75	0.5	0.5	11.0	1	8.9	1.5	11.98	
104M11	923217	8	496839	6619166		6	eTg	2		0.1	0.5	1900	8.4	89	2	18	5	8	1.95	46	0.45	1	20	140	6.2	6.1	3.08	1.5	0.5	16.0	1	25.0	2.0	14.70	
104M16	923218	8	538408	6634367		6	Qal	2		1.4	23.0	970	4.6	61	3	150	10	9	3.74	38	0.37	1	20	85	3.9	11.0	2.73	0.5	0.5	8.6	1	3.6	2.0	11.65	
104M16	923219	8	531666	6631942		6	lJLg	7		2.2	16.0	860	6.9	49	3	190	13	5	3.56	25	0.35	1	20	62	3.9	17.0	2.30	1.3	0.5	6.5	1	4.5	2.1	13.42	
104M16	923220	8	531733	6631529		6	lJLg	2		0.4	0.5	720	5.3	127	5	5	3	13	1.27	65	0.84	1	20	182	7.7	3.3	3.94	2.2	0.5	48.0	1	28.0	5.2	14.71	
104M15	923222	8	501160	6631894		6	lKg	4		0.4	1.5	740	4.1	110	4	5	1	10	1.07	56	0.81	1	20	130	6.8	2.8	3.40	0.5	1.1	42.0	1	24.0	4.7	17.99	
104M15	923223	8	500246	6637283		6	lKg	2		0.1	0.5	740	11.0	130	5	10	5	14	2.15	63	0.85	1	20	110	6.9	5.9	2.76	3.5	0.5	45.0	1	93.0	3.7	15.96	
104M15	923224	8	500319	6637684		6	lKg	8		0.1	0.5	880	9.0	120	5	19	5	18	2.93	69	0.86	1	20	110	8.0	6.2	2.41	5.3	0.5	37.0	1	200.0	3.8	13.88	
104M15	923225	8	500849	6639839		6	lKg	8		0.4	26.0	740	6.9	120	10	5	3	8	2.33	63	0.60	1	20	160	7.6	4.5	2.67	3.6	1.1	49.0	1	87.0	3.2	11.96	
104M15	923226	8	501727	6641655		6	lKg	17		1.3	96.0	640	3.6	110	14	12	3	10	2.09	61	0.90	1	20	240	7.0	5.3	2.63	5.7	0.5	45.0	13	160.0	3.7	14.47	
104M15	923227	8	502410	6642972		6	lKg	16		1.2	48.0	870	21.0	120	19	14	5	6	2.32	86	0.47	1	20	230	9.2	5.5	2.16	4.1	0.5	36.0	39	470.0	2.5	14.76	
104M15	923228	8	503789	6645376	10	6	PPmb	12	6	3.8	28.0	650	0.5	41	4	60	15	4	4.54	22	0.30	1	20	52	3.3	14.0	1.62	0.5	0.6	5.4	9	3.1	1.8	12.89	
104M15	923229	8	503789	6645376	20	6	PPmb	13		5.0	36.0	880	0.5	50	5	68	17	5	4.83	25	0.43	4	20	41	4.2	16.0	1.62	0.5	0.5	7.8	10	2.9	2.4	14.95	
104M15	923230	8	504772	6644251		6	PPmb	53	37	6.9	69.0	570	100.0	32	7	33	8	2	1.97	16	0.30	1	20	45	2.6	6.8	0.62	0.5	0.5	4.9	1	9.3	1.8	11.43	
104M15	923231	8	503980	6646205		6	PPmb	37	40	5.4	25.0	840	1.9	29	8	330	38	2	6.04	14	0.32	1	20	70	2.8	31.0	1.06	1.2	0.5	3.5	1	2.4	2.2	14.89	
104M15	923232	8	503910	6648488		6	PPmb	9		4.2	21.0	550	0.5	24	2	440	41	3	7.68	11	0.24	1	20	45	2.6	56.0	1.05	0.5	0.5	3.1	1	0.5	1.8	16.08	
104M15	923233	8	506366	6649260		6	eTg	8		4.6	30.0	1300	0.5	90	5	14	8	10	3.80	45	0.61	4	20	86	5.4	8.3	1.99	0.5	0.5	17.0	1	6.1	3.7	17.33	
104M15	923234	8	508427	6650054		6	lJLa	6		19.0	110.0	1100	2.7	65	5	57	12	7	4.01	34	0.52	1	20	88	4.5	12.0	1.50	0.5	0.5	9.4	1	4.7	3.0	19.93	
104M09	923235	8	536967	6597324		6	eJgd	5		0.9	0.5	850	7.9	53	1	62	12	7	4.15	29	0.49	1	20	47	4.3	18.0	2.48	0.5	0.5	9.0	3	3.4	2.6	11.40	
104M15	923236	8	514127	6649542		6	Qal	19		6.6	60.0	1000	6.1	52	4	170	15	8	4.43	27	0.41	1	20	85	3.9	13.0	1.94	0.5	0.5	8.2	1	3.1	2.6	14.62	
104M10	923238	8	502212	6602187		6	KTg	2		0.3	0.5	1400	0.5	61	1	17	8	4	3.51	33	0.33	1	20	58	4.8	13.0	2.09	1.6	0.6	9.0	1	2.4	2.0	13.85	
104M10	923239	8	499823	6604884		6	KTg	2		0.4	0.5	830	0.5	220	2	11	3	48	2.00	110	1.49	1	20	130	12.0	4.1	2.61	2.8	0.5	74.0	1	29.0	9.1	17.52	
104M15	923240	8	512116	6650276		6	uTsv	67	46	12.0	220.0	900	18.0	54	15	79	20	5	5.88	30	0.49	4	20	130	5.0	20.0	1.33	0.5	0.5	8.4	1	3.4	2.6	9.86	

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M15	923242	8	513388	6644267	835		6	lKg	0	2	T	N	N	211	4.0	100	O	N	S	S	M	D	P	2	G	1308
104M15	923243	8	514025	6644927	840		6	lKg	0	2	T	N	N	210	4.0	75	O	N	S	S	M	D	P	2	G	1308
104M15	923244	8	514859	6645666	895		6	lKg	0	2	T	N	N	121	1.0	50	O	N	S	S	M	D	P	2	G	1308
104M15	923245	8	516956	6647587	840		6	lJLg	0	2	T	N	N	310	5.0	100	A	N	B	S	M	D	P	3	G	1308
104M15	923246	8	518241	6649144	790		6	lJLg	0	2	T	G	N	122	2.0	50	A	N	S	S	M	D	P	1	G	1308
104M15	923247	8	523721	6646664	800	10	6	Qal	0	2	T	N	N	211	4.0	100	O	N	S	S	M	D	P	2	G	1408
104M15	923248	8	523721	6646664	800	20	6	Qal	0	2	T	N	N	211	4.0	100	O	N	S	S	M	D	P	2	G	1408
104M15	923249	8	519269	6643413	810		6	lKg	0	2	T	N	N	210	8.0	100	O	N	B	S	M	D	P	2	G	1408
104M15	923250	8	516577	6642741	920		6	lKg	0	2	T	N	N	212	3.0	75	A	N	S	S	M	D	P	1	G	1408
104M15	923251	8	523245	6646558	800		6	Qal	0	2	T	N	N	210	2.0	50	A	N	S	S	M	D	P	1	G	1408
104M15	923252	8	525276	6647892	1200		6	TP	0	2	T	N	N	221	2.0	50	A	N	S	S	M	D	P	1	G	1408
104M15	923253	8	526159	6646671	800		6	TP	0	2	G	N	N	210	4.0	100	O	N	S	S	M	D	P	2	G	1408
104M16	923254	8	534466	6646341	800		6	TP	0	2	G	N	N	110	8.0	100	O	N	S	S	M	D	P	3	G	1408
104M16	923255	8	530353	6646567	800		6	TP	0	2	T	N	N	211	2.0	75	A	N	S	S	M	D	P	3	G	1408
104M15	923256	8	523820	6644794	865		6	lJLa	0	2	G	N	N	211	6.0	100	A	N	B	S	M	D	P	1	G	1408
104M15	923257	8	520945	6643821	800		6	lJLa	0	3	T	N	N	221	2.0	45	A	N	S	S	M	D	P	2	G	1408
104M16	923258	8	530777	6643790	800		6	eTg	0	2	T	N	N	211	3.0	75	A	N	S	M	M	D	P	2	G	1408
104M15	923259	8	525456	6644680	800		6	lJLa	0	2	T	N	N	121	2.0	50	O	N	S	M	M	D	P	2	G	1408
104M15	923262	8	514635	6640504	950		6	uTsv	0	2	T	N	N	220	5.0	15	R	N	S	S	M	D	P	2	G	1408
104M15	923263	8	513997	6637901	900		6	lJLg	0	3	T	N	N	221	5.0	50	A	N	S	S	M	D	P	2	G	1408
104M15	923265	8	512380	6631634	810		6	PPmb	0	2	T	N	N	211	4.0	75	O	N	S	S	M	D	P	1	G	1408
104M15	923267	8	512607	6632736	800		6	lJLa	0	2	G	N	N	211	3.0	75	O	N	S	S	M	D	P	2	G	1408
104M15	923268	8	514185	6636681	810		1	lmJv			T	N	N	121	3.0	75	O	N	S	S	M	D	S	1	G	1408
104M15	923269	8	513876	6639548	900		6	uTsv	0	2	T	N	N	311	7.0	100	O	N	B	S	M	D	P	2	G	1408
104M15	923270	8	513026	6633662	800	10	6	lJLa	0	1	T	N	N	220	1.0	15	A	N	S	S	M	D	S	1	G	1408
104M15	923271	8	513026	6633662	800	20	6	lJLa	0	1	T	N	N	220	1.0	15	A	N	S	S	M	D	S	1	G	1408
104M15	923273	8	519721	6643410	800		6	lJLg	0	3	T	N	N	221	4.0	50	A	N	S	S	M	D	P	2	G	1408
104M15	925002	8	510917	6638010	800		6	Qal	0	3	T	N	N	221	2.0	50	A	N	S	S	M	D	P	2	G	0208
104M08	925003	8	546281	6572792	1100		6	PPgn	0	3	T	N	N	212	2.0	75	A	N	S	S	M	D	P	1	M	0308
104M08	925004	8	544652	6572937	1080		6	PPgn	0	3	T	N	N	031	6.0	100	R	N	B	S	M	D	P	1	M	0308
104M08	925006	8	542627	6573471	985		6	PPgn	0	2	T	N	N	131	2.0	30	O	N	S	S	M	D	P	1	M	0308
104M08	925007	8	542471	6573139	980		6	PPgn	0	1	G	N	N	121	2.0	26	O	N	S	S	M	D	P	2	M	0308
104M08	925008	8	541639	6573049	1000		6	PPgn	0	2	G	N	N	111	7.0	100	A	N	S	S	M	D	P	2	M	0308
104M08	925009	8	539293	6573339	1000		6	PPgn	0	3	T	N	N	211	1.0	100	A	N	S	S	M	D	P	2	M	0308
104M08	925010	8	538744	6574352	1100	10	6	eJgd	0	3	T	N	N	212	5.0	125	A	N	S	S	M	D	P	2	M	0308
104M08	925011	8	538744	6574352	1100	20	6	eJgd	0	3	T	N	N	212	5.0	125	A	N	S	S	M	D	P	2	M	0308
104M08	925012	8	535563	6576012	1200		6	PPgn	2	3	G	N	N	131	9.0	100	A	N	S	S	M	D	P	3	G	0308
104M08	925013	8	535793	6571994	1200		6	PPgn	2	3	G	N	N	130	20.0	100	A	N	S	S	M	D	P	2	M	0308
104M08	925014	8	531757	6570033	1150		6	lKg	2	3	T	N	N	221	9.0	75	C	N	B	S	M	D	P	2	M	0308
104M07	925015	8	527953	6569226	1350		6	lKg	0	2	T	N	N	310	15.0	100	C	N	B	S	M	D	P	2	M	0308

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Water				Stream Sediment													
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
	SAMPLE	UTM	UTM	UTM				ppb	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	ION	LIF	TURB	GCE	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M15	923242	8	513388	6644267		6	lKg	140	1.50	26.0	7.9	4.9	220.0	1.7	0.5	12	37	430	3.20	39	530	30	5	15	0.5	57	107	5.8	
104M15	923243	8	514025	6644927		6	lKg	140	1.30	38.0	8.0	1.5	40.0	0.3	0.2	6	18	300	1.40	10	315	20	4	9	0.2	35	43	4.4	
104M15	923244	8	514859	6645666		6	lKg	80	0.50	32.0	8.3	2.0	31.0	0.5	0.8	14	63	360	4.20	30	546	40	3	32	0.2	53	112	13.9	
104M15	923245	8	516956	6647587		6	lJLg	70	0.05	15.0	7.9	1.9	26.0	0.3	0.2	9	36	290	2.40	15	319	30	2	17	0.2	44	67	3.5	
104M15	923246	8	518241	6649144		6	lJLg	80	1.20	210.0	8.2	0.6	3.1	0.2	0.5	2	14	310	0.15	11	62	30	4	5	12.0	22	54	8.0	
104M15	923247	8	523721	6646664	10	6	Qal	40	0.30	10.0	7.9	1.6	24.0	0.3	0.2	8	29	270	2.40	10	350	40	1	17	0.2	49	63	7.6	
104M15	923248	8	523721	6646664	20	6	Qal	50	0.27	10.0	7.9	1.6	23.0	0.2	0.2	9	28	280	2.30	11	340	50	2	18	0.2	50	62	6.5	
104M15	923249	8	519269	6643413		6	lKg	40	0.86	4.0	7.2	0.5	5.0	0.5	0.2	4	10	280	1.00	9	182	30	2	4	0.2	23	23	1.7	
104M15	923250	8	516577	6642741		6	lKg	50	6.60	6.2	7.7	0.4	4.3	1.8	0.2	6	26	380	1.90	17	552	50	11	7	0.2	30	79	13.3	
104M15	923251	8	523245	6646558		6	Qal	50	0.22	16.0	8.2	2.4	20.0	0.8	0.3	10	49	300	2.80	11	346	50	2	23	0.2	60	70	7.2	
104M15	923252	8	525276	6647892		6	TP	50	0.40	7.2	7.8	2.5	36.0	0.5	0.2	14	45	360	3.70	18	565	50	3	24	0.3	65	67	14.7	
104M15	923253	8	526159	6646671		6	TP	60	0.30	6.6	7.8	1.1	14.0	0.2	0.3	8	22	300	2.40	10	341	50	2	12	0.2	45	69	4.3	
104M16	923254	8	534466	6646341		6	TP	70	0.55	3.4	8.3	0.4	7.6	0.2	0.2	5	10	210	1.10	4	271	40	2	7	0.2	23	28	2.8	
104M16	923255	8	530353	6646567		6	TP	1050	0.09	98.0	7.9	1.2	29.0	2.2	0.6	15	15	1440	3.30	15	1180	150	3	8	0.2	40	94	7.3	
104M15	923256	8	523820	6644794		6	lJLa	50	0.05	47.0	7.4	2.6	45.0	0.4	0.5	20	117	400	5.10	20	441	50	3	59	0.4	185	129	6.4	
104M15	923257	8	520945	6643821		6	lJLa	40	0.22	24.0	7.8	3.7	79.0	0.7	0.9	12	51	360	2.80	42	394	40	3	24	0.3	68	115	6.9	
104M16	923258	8	530777	6643790		6	eTg	130	0.13	0.4	7.2	0.7	14.0	0.4	0.2	5	22	350	1.70	8	174	30	2	9	0.2	47	52	5.9	
104M15	923259	8	525456	6644680		6	lJLa	160	0.27	5.3	7.3	1.4	58.0	0.9	0.9	10	38	520	2.40	38	340	30	2	11	0.2	72	123	3.9	
104M15	923262	8	514635	6640504		6	uTsv	70	23.60	16.0	8.1	2.6	48.0	0.4	0.3	13	39	380	2.40	26	418	30	3	16	0.2	39	71	2.6	
104M15	923263	8	513997	6637901		6	lJLg	40	11.70	67.0	7.9	2.5	60.0	0.9	1.1	13	48	410	2.90	88	950	40	7	17	0.5	38	140	7.9	
104M15	923265	8	512380	6631634		6	PPmb	60	0.36	27.0	7.8	4.2	230.0	0.7	0.3	12	54	360	3.80	16	620	50	5	23	0.2	78	133	15.7	
104M15	923267	8	512607	6632736		6	lJLa	60	0.15	21.0	7.7	4.9	140.0	0.5	0.8	9	32	280	2.30	15	311	50	4	22	0.2	52	141	7.1	
104M15	923268	8	514185	6636681		1	lmJv					0.8	10.0	0.4	0.4	10	33	300	2.10	34	305	30	2	43	0.2	43	65	5.8	
104M15	923269	8	513876	6639548		6	uTsv	40	0.39	3.6	7.4	1.5	14.0	0.9	0.7	13	87	460	3.70	60	820	40	18	12	0.3	28	101	6.1	
104M15	923270	8	513026	6633662	10	6	lJLa	150	3.00	8.4	7.9	0.4	14.0	0.2	0.2	2	5	150	0.45	3	46	30	2	2	0.2	13	14	1.1	
104M15	923271	8	513026	6633662	20	6	lJLa	160	1.90	8.4	7.9	0.4	17.0	0.2	0.2	2	5	110	0.50	3	51	20	2	2	0.2	14	16	1.7	
104M15	923273	8	519721	6643410		6	lJLg	50	1.38	13.0	7.8	2.1	34.0	3.8	1.0	8	47	330	2.50	51	790	50	4	15	0.7	46	113	8.2	
104M15	925002	8	510917	6638010		6	Qal	60	0.19	7.8	7.9	1.4	62.0	0.7	0.4	4	14	360	1.10	10	222	10	3	4	0.2	19	48	2.4	
104M08	925003	8	546281	6572792		6	PPgn	60	1.05	37.0	7.8	1.7	45.0	0.2	2.0	12	100	1020	3.30	11	587	90	6	45	0.4	97	256	11.4	
104M08	925004	8	544652	6572937		6	PPgn	60	0.33	18.0	7.6	1.0	16.0	0.2	3.2	17	80	1960	2.90	9	340	100	6	84	0.6	74	349	3.8	
104M08	925006	8	542627	6573471		6	PPgn	80	0.10	2.4	7.5	0.6	24.0	0.3	0.7	11	49	650	2.60	14	400	20	4	20	0.3	66	107	8.0	
104M08	925007	8	542471	6573139		6	PPgn	70	0.30	25.0	7.7	2.0	28.0	0.2	0.7	13	36	510	2.60	9	261	10	4	29	0.3	38	116	3.5	
104M08	925008	8	541639	6573049		6	PPgn	50	0.05	21.0	7.2	1.4	43.0	0.5	0.3	9	26	380	1.80	13	148	10	2	20	0.2	49	55	1.1	
104M08	925009	8	539293	6573339		6	PPgn	30	0.18	17.0	7.7	0.8	4.9	0.2	0.2	9	28	530	1.50	7	295	10	2	22	0.2	30	44	3.8	
104M08	925010	8	538744	6574352	10	6	eJgd	30	0.05	3.3	7.1	0.3	4.5	0.4	0.3	11	32	590	2.00	21	342	10	2	14	0.2	47	80	3.0	
104M08	925011	8	538744	6574352	20	6	eJgd	30	0.05	3.3	7.1	0.3	4.7	0.4	0.3	11	31	550	2.00	20	337	10	1	13	0.2	46	79	3.0	
104M08	925012	8	535563	6576012		6	PPgn	40	0.30	4.9	7.7	0.2	16.0	0.4	0.4	9	32	560	1.80	13	249	10	2	24	0.2	50	83	6.5	
104M08	925013	8	535793	6571994		6	PPgn	50	0.05	4.7	7.6	0.5	26.0	0.2	0.3	8	26	320	1.10	10	222	10	3	20	0.2	31	51	2.0	
104M08	925014	8	531757	6570033		6	lKg	80	0.05	0.8	6.6	0.2	7.4	2.8	0.2	2	3	370	0.55	5	106	10	4	2	0.2	7	18	0.7	
104M07	925015	8	527953	6569226		6	lKg	90	0.21	0.3	6.5	0.2	1.2	0.3	0.2	2	4	290	0.60	6	164	10	3	2	0.2	8	27	1.2	

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Stream Sediment																							
							Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	
							2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:D.L.
	SAMPLE	UTM	UTM	UTM			ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	g	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA		:Mthd
104M15	923242	8	513388	6644267		6	lKg	208	77	9.6	200.0	870	4.7	68	7	53	14	7	4.15	36	0.44	1	20	88	4.3	11.0	1.23	1.5	0.5	12.0	5	5.8	2.4	13.41	
104M15	923243	8	514025	6644927		6	lKg	10		4.0	38.0	890	7.1	50	4	37	7	6	2.36	28	0.31	4	20	90	3.4	8.3	2.33	0.5	0.5	8.6	1	4.7	1.8	11.72	
104M15	923244	8	514859	6645666		6	lKg	14		3.8	32.0	700	5.8	48	6	120	14	5	3.65	25	0.36	1	20	79	3.6	13.0	1.51	0.5	0.5	6.8	1	2.8	2.3	16.42	
104M15	923245	8	516956	6647587		6	lJLg	2		3.9	29.0	940	2.7	51	3	95	11	7	3.40	27	0.37	1	160	58	3.6	11.0	2.18	0.5	0.5	8.0	1	2.9	2.3	13.33	
104M15	923246	8	518241	6649144		6	lJLg	2		0.9	3.0	120	15.0	4	1	11	1	1	0.39	2	0.06	1	20	15	0.4	1.5	0.22	0.5	0.5	0.6	1	0.5	0.2	13.92	
104M15	923247	8	523721	6646664	10	6	Qal	6	6	2.8	24.0	970	20.0	51	5	79	11	5	3.52	28	0.32	1	20	83	3.7	12.0	2.42	0.5	0.5	8.5	1	3.6	1.8	10.87	
104M15	923248	8	523721	6646664	20	6	Qal	2		2.9	26.0	1000	20.0	58	5	78	11	6	3.71	32	0.36	4	20	82	4.1	12.0	2.57	0.5	0.5	8.8	1	3.3	1.9	9.62	
104M15	923249	8	519269	6643413		6	lKg	2		1.8	5.6	880	5.0	90	4	34	5	12	2.45	53	0.40	1	20	120	4.0	5.5	2.51	0.5	0.5	18.0	8	17.0	2.3	16.33	
104M15	923250	8	516577	6642741		6	lKg	2		1.8	5.8	900	5.6	74	7	33	6	9	2.53	46	0.43	1	20	140	3.9	6.8	2.15	0.5	0.5	23.0	1	21.0	2.3	12.55	
104M15	923251	8	523245	6646558		6	Qal	116	17	3.8	22.0	970	7.1	60	4	130	11	9	3.64	30	0.44	1	70	86	4.3	14.0	2.35	0.5	0.5	7.9	9	2.3	2.6	19.29	
104M15	923252	8	525276	6647892		6	TP	11		4.0	38.0	880	13.0	55	8	86	15	6	3.47	30	0.40	1	20	68	4.1	12.0	1.63	0.5	0.5	9.3	4	7.6	2.4	18.52	
104M15	923253	8	526159	6646671		6	TP	10		2.4	16.0	1400	7.7	70	4	63	11	7	4.16	37	0.54	1	20	85	5.3	14.0	2.11	0.5	0.5	11.0	1	4.8	3.1	17.09	
104M16	923254	8	534466	6646341		6	TP	12		1.2	9.8	1100	2.2	45	2	44	5	5	1.66	24	0.28	1	20	70	3.0	6.5	2.22	0.5	0.5	6.7	1	1.8	1.7	18.07	
104M16	923255	8	530353	6646567		6	TP	2		2.3	35.0	1600	3.5	93	4	49	18	7	4.80	43	0.63	1	20	94	7.2	15.0	1.65	0.5	1.1	12.0	1	4.0	4.0	15.01	
104M15	923256	8	523820	6644794		6	lJLa	7		3.7	44.0	680	7.8	34	7	150	24	3	5.40	16	0.33	1	20	72	3.4	19.0	2.31	0.5	0.5	4.1	1	2.2	2.3	16.90	
104M15	923257	8	520945	6643821		6	lJLa	18		6.3	90.0	1000	23.0	77	5	93	14	10	4.30	42	0.42	1	20	110	4.4	11.0	2.13	0.5	0.5	12.0	1	5.2	2.5	16.19	
104M16	923258	8	530777	6643790		6	eTg	2		1.7	14.0	770	4.9	96	4	72	8	12	2.97	59	0.71	1	20	100	6.2	11.0	2.58	0.5	0.5	17.0	1	22.0	3.9	14.32	
104M15	923259	8	525456	6644680		6	lJLa	2		2.5	68.0	930	5.8	130	8	63	15	22	5.43	62	1.17	1	20	110	9.2	16.0	2.82	0.5	0.5	35.0	1	25.0	7.1	12.63	
104M15	923262	8	514635	6640504		6	uTsv	13		5.8	60.0	1500	0.5	83	7	57	18	6	3.69	42	0.46	1	20	110	5.3	12.0	2.15	0.5	0.5	14.0	1	3.9	2.6	14.26	
104M15	923263	8	513997	6637901		6	lJLg	11		6.5	71.0	1200	5.8	87	14	69	15	8	4.13	47	0.41	1	20	120	4.6	13.0	1.42	1.3	0.5	16.0	1	12.0	2.7	16.36	
104M15	923265	8	512380	6631634		6	PPmb	11		6.3	240.0	810	8.2	65	5	69	12	7	3.56	36	0.30	1	20	62	3.8	11.0	1.65	0.8	0.5	11.0	1	13.0	2.2	17.29	
104M15	923267	8	512607	6632736		6	lJLa	2		9.2	160.0	1100	10.0	93	5	85	12	9	4.10	50	0.50	1	20	90	4.7	11.0	2.23	0.5	0.9	15.0	1	8.9	2.7	13.89	
104M15	923268	8	514185	6636681		1	lmJv	2		3.0	11.0	1100	15.0	64	5	300	15	8	3.73	35	0.31	1	20	79	3.5	14.0	1.95	0.7	0.5	13.0	1	12.0	2.2	17.76	
104M15	923269	8	513876	6639548		6	uTsv	28	33	4.1	22.0	1300	6.6	95	8	52	15	12	4.63	52	0.49	1	20	120	4.3	9.8	1.75	0.5	0.5	21.0	8	31.0	2.7	17.41	
104M15	923270	8	513026	6633662	10	6	lJLa	4		0.7	17.0	1000	0.5	120	1	22	3	20	2.34	68	0.45	1	20	80	5.3	4.1	2.72	1.8	0.5	22.0	1	10.0	2.6	16.57	
104M15	923271	8	513026	6633662	20	6	lJLa	6	2	0.8	19.0	1200	0.5	87	1	12	2	12	1.35	49	0.29	1	20	77	3.9	3.7	2.54	1.0	0.6	16.0	1	13.0	1.8	18.14	
104M15	923273	8	519721	6643410		6	lJLg	11		4.3	45.0	980	34.0	83	7	71	11	12	4.11	46	0.37	1	20	110	4.0	9.7	1.98	1.4	0.5	22.0	12	16.0	2.5	16.77	
104M15	925002	8	510917	6638010		6	Qal	2		2.7	80.0	660	3.4	82	6	14	4	11	1.74	42	0.73	1	20	150	5.1	5.2	2.97	2.6	0.9	28.0	5	12.0	4.5	18.81	
104M08	925003	8	546281	6572792		6	PPgn	2		3.8	62.0	3500	11.0	82	6	99	15	7	4.46	43	0.55	1	54	85	6.1	12.0	0.58	0.5	1.0	11.0	1	12.0	4.1	13.68	
104M08	925004	8	544652	6572937		6	PPgn	4		2.1	18.0	6000	0.5	90	4	120	20	7	4.48	45	0.47	1	130	80	6.2	13.0	0.76	1.3	1.0	12.0	1	8.4	3.6	17.36	
104M08	925006	8	542627	6573471		6	PPgn	7		2.0	32.0	1100	7.5	64	2	73	12	7	4.19	34	0.39	1	20	54	4.4	14.0	2.05	1.2	0.8	9.5	1	20.0	3.0	15.77	
104M08	925007	8	542471	6573139		6	PPgn	8		4.0	31.0	1500	3.3	97	3	84	13	7	3.62	47	0.45	1	20	93	6.2	12.0	0.68	0.9	0.5	13.0	1	5.6	3.3	16.40	
104M08	925008	8	541639	6573049		6	PPgn	11		3.4	54.0	880	0.5	96	2	110	16	9	5.99	44	0.33	1	20	40	7.2	18.0	1.56	1.7	1.2	9.8	1	3.6	3.6	18.68	
104M08	925009	8	539293	6573339		6	PPgn	2		1.6	5.4	840	0.5	97	2	99	12	8	3.12	43	0.23	1	20	77	6.5	12.0	1.06	1.0	1.0	11.0	1	3.5	3.4	14.86	
104M08	925010	8	538744	6574352	10	6	eJgd	8	25	1.4	9.4	1100	3.4	69	2	140	18	8	5.75	32	0.49	1	20	78	6.4	22.0	2.53	0.5	1.5	5.5	1	1.7	3.4	11.77	
104M08	925011	8	538744	6574352	20	6	eJgd	22		1.3	7.9	960	2.1	62	2	110	15	7	5.16	28	0.35	1	20	46	5.1	19.0	2.54	0.5	0.5	5.3	3	1.5	3.2	18.37	
104M08	925012	8	535563	6576012		6	PPgn	9		0.5	17.0	1500	0.5	140	3	66	10	17	3.27	73	0.88	1	20	86	7.5	9.4	1.67	1.4	0.5	37.0	1	32.0	4.6	19.05	
104M08	925013	8	535793	6571994		6	PPgn	9		1.4	34.0	2000	0.5	100	1	80	10	12	2.68	45	0.37	1	42	49	6.5	8.9	0.97	1.1	1.0	13.0	1	3.7	3.7	16.39	
104M08	925014	8	531757	6570033		6	lKg	2		0.1	11.0	1700	0.5	160	2	5	2	22	1.60	93	0.98	1	20	140	6.8	2.6	3.47	1.8	0.9	60.0	8	22.0	5.1	13.48	
104M07	925015	8	527953	6569226		6	lKg	4		0.2	1.8	1200	0.5	140	3	5	2	12	1.91	78	0.69	1	20	120	5.5	2.9	3.25	1.4	0.5	51.0	4	23.0	3.9	18.91	

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M07	925016	8	526111	6572112	900		6	PPgn	0	2	G	N	N	120	12.0	75	A	N	S	S	M	D	P	2	M	0308
104M07	925017	8	526311	6573271	1000		6	lKg	2	3	G	N	N	220	7.0	200	A	N	S	S	M	D	P	2	M	0308
104M07	925018	8	525111	6574559	1000		6	lKg	2	3	G	N	N	320	10.0	125	A	N	S	S	M	D	P	2	M	0308
104M07	925019	8	523320	6575021	1000		6	PPgn	2	3	G	N	N	221	4.0	125	A	N	S	S	M	D	P	2	M	0308
104M07	925020	8	522153	6576144	1000		6	PPgn	2	3	G	N	N	221	15.0	125	A	N	S	B	M	G	P	1	M	0308
104M07	925022	8	520342	6582486	1000		6	PPgn	2	3	T	N	N	113	5.0	100	A	N	S	S	M	D	P	2	M	0308
104M07	925023	8	519760	6583639	900		6	PPgn	2	3	G	N	N	220	16.0	250	C	N	B	S	M	D	P	3	M	0308
104M07	925024	8	521782	6584534	800		6	Kg	0	3	T	N	N	212	7.0	200	A	N	S	S	M	D	P	1	M	0308
104M07	925025	8	523622	6583678	720	10	6	Kg	2	3	G	N	N	220	5.0	100	A	N	S	S	M	D	P	2	M	0308
104M07	925026	8	523622	6583678	720	20	6	Kg	2	3	G	N	N	220	5.0	100	A	N	S	S	M	D	P	2	M	0308
104M07	925027	8	525838	6582717	800		6	Qal	0	3	G	N	N	210	4.6	175	O	N	S	S	M	D	P	2	M	0308
104M08	925028	8	527592	6582305	850		6	Kg	2	3	G	N	N	220	17.0	125	C	N	B	S	M	D	P	2	M	0308
104M09	925029	8	535310	6604549	700		6	PPmb	0	2	T	N	N	212	4.0	75	O	N	S	B	M	D	P	2	G	0308
104M09	925030	8	533507	6601073	900		6	PPmb	0	1	G	N	N	221	5.0	75	O	N	S	S	M	D	P	2	G	0308
104M09	925031	8	531894	6600787	800		6	PPmb	0	2	T	N	N	221	10.0	55	A	N	S	S	M	D	P	2	M	0308
104M09	925032	8	531578	6598316	900		6	PPmb	0	2	T	N	N	131	2.0	40	O	N	S	S	M	D	P	1	G	0308
104M08	925033	8	529652	6595266	1200		6	PPmb	0	3	G	N	N	212	3.0	100	A	N	S	S	M	D	P	1	G	0308
104M08	925034	8	528960	6593593	1200		6	PPmb	2	3	G	N	N	320	16.0	200	C	N	S	B	M	D	P	3	G	0308
104M09	925035	8	528982	6597799	800		6	PPmb	2	3	G	N	N	220	9.0	125	A	N	S	S	M	D	P	2	G	0308
104M10	925037	8	527904	6597313	920		6	PPmb	0	1	G	N	N	131	0.5	25	O	N	S	M	M	D	S	1	G	0308
104M10	925038	8	527536	6596419	920		6	PPmb	0	1	G	N	N	310	2.0	75	O	N	S	M	M	D	P	1	G	0308
104M10	925039	8	526567	6596627	940		6	PPmb	0	3	G	N	N	310	15.0	300	T	N	B	S	M	D	P	1	G	0308
104M07	925040	8	524026	6594652	1000		6	eKt	2	3	G	N	N	310	18.0	200	C	N	B	B	M	D	P	3	M	0308
104M10	925042	8	522050	6595736	1100		6	eKt	0	2	T	N	N	410	2.0	50	A	N	S	S	M	D	P	1	G	0308
104M07	925043	8	524648	6592538	1100	10	6	Kg	2	3	G	N	N	130	14.0	200	C	N	B	B	M	D	P	3	M	0308
104M07	925044	8	524648	6592538	1100	20	6	Kg	2	3	G	N	N	130	14.0	200	C	N	B	B	M	D	P	3	M	0308
104M07	925045	8	521704	6591489	1200		6	eKt	2	3	G	N	N	221	9.0	200	O	N	S	S	M	D	P	2	M	0308
104M07	925046	8	517277	6589091	1300		6	eKt	0	2	G	N	N	120	4.0	75	T	N	B	S	M	D	P	2	M	0308
104M07	925047	8	513355	6594537	1100		6	eKt	0	3	G	N	N	221	10.0	200	R	N	B	S	M	D	P	2	M	0308
104M10	925048	8	510021	6596106	800		6	KTg	2	3	G	N	N	120	15.0	200	C	N	S	S	M	D	P	3	M	0308
104M09	925049	8	554136	6610731	750		6	MTCs	0	2	T	N	N	310	6.0	100	A	N	S	S	H	D	P	2	G	0408
104M09	925050	8	531846	6606619	700		6	PPmb	0	2	T	N	N	320	9.0	100	A	N	S	S	M	D	P	2	G	0408
104M10	925051	8	528218	6607700	700		6	PPmb	2	2	G	N	N	022	4.0	100	A	N	S	S	M	D	P	2	G	0408
104M10	925052	8	525482	6608377	815		6	PPmb	2	3	G	N	N	221	4.0	125	A	N	S	S	M	D	P	3	G	0408
104M10	925054	8	525670	6604943	1100		6	eKt	2	3	G	N	N	032	2.0	100	A	N	S	S	M	D	P	1	M	0408
104M10	925055	8	524603	6602426	1300		6	eKt	2	3	G	N	N	122	1.0	75	O	N	S	S	M	D	P	1	G	0408
104M10	925056	8	523812	6601115	1340		6	eKt	0	3	G	N	N	131	2.0	80	O	N	S	S	M	D	P	2	G	0408
104M10	925057	8	523592	6608444	780		6	PPmb	2	3	G	N	N	320	16.0	200	A	N	S	S	M	D	P	3	M	0408
104M10	925058	8	521896	6608042	775		6	eTg	0	3	T	N	N	131	10.0	150	A	N	S	S	M	D	P	2	G	0408
104M10	925059	8	520491	6607845	735		6	eTg	0	3	T	N	N	221	5.0	270	C	N	S	S	M	D	P	1	G	0408

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Water				Stream Sediment													
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
	SAMPLE	UTM	UTM	UTM			ppb	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	ION	LIF	TURB	GCE	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M07	925016	8	526111	6572112		6	PPgn	130	0.25	1.7	7.4	0.2	0.6	0.2	0.2	2	4	280	0.35	3	77	10	2	2	0.2	8	21	0.2	
104M07	925017	8	526311	6573271		6	lKg	60	0.23	0.1	6.7	0.2	0.8	0.2	0.2	2	2	200	0.50	3	75	10	2	2	0.2	9	16	0.4	
104M07	925018	8	525111	6574559		6	lKg	80	1.43	0.2	7.1	0.2	0.5	0.2	0.2	3	4	480	1.10	13	259	10	2	2	0.2	12	49	2.1	
104M07	925019	8	523320	6575021		6	PPgn	30	0.05	0.5	7.0	0.2	2.7	0.2	0.2	10	26	560	1.90	3	223	10	2	14	0.2	53	45	1.3	
104M07	925020	8	522153	6576144		6	PPgn	30	0.05	1.7	6.9	0.2	2.0	0.2	0.2	10	43	480	1.90	4	196	10	2	27	0.2	67	54	1.3	
104M07	925022	8	520342	6582486		6	PPgn	50	0.11	0.6	6.3	0.2	2.8	0.2	0.2	4	7	310	1.30	9	515	60	28	2	0.2	26	31	18.9	
104M07	925023	8	519760	6583639		6	PPgn	30	0.05	1.6	6.4	0.2	4.5	0.2	0.2	9	32	290	1.10	2	63	10	1	4	0.2	23	16	0.4	
104M07	925024	8	521782	6584534		6	Kg	30	0.05	5.1	6.5	0.2	1.1	0.5	0.2	16	55	700	4.00	6	741	20	4	16	0.2	98	92	7.3	
104M07	925025	8	523622	6583678	10	6	Kg	30	0.05	1.5	6.5	0.2	0.7	0.5	0.2	6	11	490	1.40	6	205	10	4	4	0.2	37	39	3.3	
104M07	925026	8	523622	6583678	20	6	Kg	30	0.10	2.3	6.5	0.2	0.9	0.3	0.2	5	9	400	1.30	5	186	10	4	4	0.2	36	37	2.9	
104M07	925027	8	525838	6582717		6	Qal	90	0.27	0.3	6.5	0.2	0.7	0.3	0.2	2	3	250	0.55	4	90	10	3	2	0.2	5	24	1.2	
104M08	925028	8	527592	6582305		6	Kg	70	0.17	0.7	6.5	0.2	0.7	0.2	0.2	2	4	270	0.50	4	89	10	1	2	0.2	12	24	0.8	
104M09	925029	8	535310	6604549		6	PPmb	50	0.05	8.4	7.6	0.2	2.6	0.2	0.2	7	22	290	1.50	3	224	20	2	6	0.2	39	40	3.6	
104M09	925030	8	533507	6601073		6	PPmb	40	0.05	2.5	7.2	0.2	3.0	0.2	0.2	10	34	330	1.80	9	308	10	1	12	0.2	48	50	3.7	
104M09	925031	8	531894	6600787		6	PPmb	40	0.05	0.7	6.6	0.2	2.5	0.2	0.2	8	23	430	1.90	7	314	20	2	9	0.2	51	43	6.0	
104M09	925032	8	531578	6598316		6	PPmb	40	0.05	8.8	7.3	0.3	6.0	0.2	0.2	15	59	340	2.80	10	403	20	3	15	0.2	83	88	5.2	
104M08	925033	8	529652	6595266		6	PPmb	40	0.05	6.3	6.9	0.2	2.9	0.2	0.2	12	43	470	2.30	9	472	10	3	14	0.2	61	61	2.6	
104M08	925034	8	528960	6593593		6	PPmb	40	0.63	1.8	7.1	0.2	0.2	0.2	0.2	4	8	290	0.55	3	89	10	1	2	0.2	17	16	0.7	
104M09	925035	8	528982	6597799		6	PPmb	40	0.05	4.2	7.3	0.2	6.2	0.2	0.2	8	34	430	1.50	10	220	10	2	9	0.2	39	38	1.3	
104M10	925037	8	527904	6597313		6	PPmb	60	1.05	28.0	8.0	0.2	1.0	0.2	0.2	6	19	360	1.20	6	154	10	2	6	0.2	34	30	1.2	
104M10	925038	8	527536	6596419		6	PPmb	50	0.05	20.0	7.7	0.2	1.1	0.2	0.2	5	17	270	1.70	5	137	10	3	4	0.2	30	26	1.5	
104M10	925039	8	526567	6596627		6	PPmb	140	0.64	6.4	7.3	0.2	2.8	0.4	0.7	12	60	380	1.40	45	266	10	3	10	0.5	48	65	1.8	
104M07	925040	8	524026	6594652		6	eKt	40	0.18	1.1	6.8	0.2	0.4	0.2	0.2	4	12	360	0.85	4	105	10	2	3	0.2	35	28	0.9	
104M10	925042	8	522050	6595736		6	eKt	40	0.13	0.4	6.6	0.2	0.8	0.2	0.3	8	26	500	2.00	16	462	30	5	3	0.2	45	64	13.4	
104M07	925043	8	524648	6592538	10	6	Kg	40	0.22	2.6	7.0	0.2	0.2	0.3	0.2	3	7	200	0.40	6	60	10	2	2	0.2	13	14	0.9	
104M07	925044	8	524648	6592538	20	6	Kg	40	0.27	2.6	7.0	0.2	0.2	0.2	0.2	3	7	280	0.50	6	63	10	2	2	0.2	14	14	0.7	
104M07	925045	8	521704	6591489		6	eKt	40	0.05	4.8	6.7	0.2	0.4	0.2	0.2	9	31	390	1.10	3	188	10	4	7	0.2	44	33	2.2	
104M07	925046	8	517277	6589091		6	eKt	30	0.05	0.6	6.4	0.2	0.4	0.2	0.2	7	12	380	1.20	3	270	10	2	5	0.2	32	37	1.8	
104M07	925047	8	513355	6594537		6	eKt	30	0.05	0.9	6.5	0.2	0.2	0.2	0.2	6	11	400	1.30	4	192	10	4	4	0.2	36	36	2.5	
104M10	925048	8	510021	6596106		6	KTg	30	0.05	1.1	6.9	0.2	0.7	0.2	0.2	5	10	350	0.95	3	117	10	2	3	0.2	32	35	1.1	
104M09	925049	8	554136	6610731		6	MTCs	60	0.39	21.0	8.0	1.1	16.0	0.2	0.2	11	26	300	2.00	13	282	60	2	19	0.2	40	64	3.3	
104M09	925050	8	531846	6606619		6	PPmb	40	0.05	8.5	7.3	0.3	1.7	0.2	0.2	6	26	260	0.90	4	168	10	2	3	0.2	17	20	1.4	
104M10	925051	8	528218	6607700		6	PPmb	40	3.17	6.1	7.5	0.2	1.9	0.2	0.2	7	23	300	1.20	10	227	10	6	3	0.2	33	30	2.9	
104M10	925052	8	525482	6608377		6	PPmb	40	0.08	1.1	7.1	0.2	1.6	0.2	0.2	7	30	330	1.10	6	194	20	2	5	0.2	41	31	2.2	
104M10	925054	8	525670	6604943		6	eKt	30	1.52	1.3	7.3	0.7	2.9	0.2	0.8	8	49	390	1.10	27	244	160	2	4	0.2	28	64	1.7	
104M10	925055	8	524603	6602426		6	eKt	50	0.05	0.7	7.5	0.2	2.0	0.2	0.2	15	102	850	2.50	11	405	10	2	8	0.2	90	57	3.8	
104M10	925056	8	523812	6601115		6	eKt	30	0.05	1.1	7.1	0.2	1.9	0.2	0.5	19	131	370	2.50	18	496	10	2	15	0.2	110	72	3.4	
104M10	925057	8	523592	6608444		6	PPmb	30	0.05	0.4	7.0	0.2	1.2	0.3	0.2	9	49	380	1.30	5	162	10	1	5	0.2	64	29	0.9	
104M10	925058	8	521896	6608042		6	eTg	40	0.17	0.7	7.1	0.2	1.2	0.7	0.2	8	50	470	1.50	11	235	20	16	6	0.2	56	41	6.0	
104M10	925059	8	520491	6607845		6	eTg	50	1.24	0.8	7.6	0.2	0.8	0.6	0.5	12	29	470	2.10	51	768	20	2	13	0.2	42	100	5.2	

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Stream Sediment																							
							Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	:D.L.
							2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:Unit
MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g	:Mthd
104M07	925016	8	526111	6572112		6	PPgn	2		0.1	1.6	1300	0.5	110	3	9	4	12	1.52	60	0.41	1	20	98	5.4	3.7	3.07	0.5	0.5	29.0	3	7.0	3.1	10.02	
104M07	925017	8	526311	6573271		6	lKg	2		0.1	0.6	980	0.5	130	1	5	1	14	1.41	81	0.54	1	20	100	5.0	1.8	3.00	0.5	0.6	51.0	1	16.0	3.1	21.92	
104M07	925018	8	525111	6574559		6	lKg	2		0.1	2.5	1300	0.5	250	5	5	4	26	3.66	160	1.01	1	20	140	9.5	5.4	3.06	0.5	1.8	170.0	1	43.0	5.0	14.21	
104M07	925019	8	523320	6575021		6	PPgn	2		0.3	3.7	1200	0.5	100	2	65	16	13	5.19	58	0.59	1	20	55	6.8	18.0	2.36	0.5	0.5	23.0	1	7.3	3.7	18.24	
104M07	925020	8	522153	6576144		6	PPgn	2		0.3	2.9	1500	0.5	73	2	130	21	9	5.41	39	0.61	1	20	61	6.1	21.0	2.22	0.5	1.2	11.0	1	4.0	3.8	17.32	
104M07	925022	8	520342	6582486		6	PPgn	2		0.3	3.6	980	17.0	66	2	17	7	12	2.53	38	0.54	17	20	52	3.8	8.0	2.13	0.5	0.5	16.0	1	22.0	2.6	16.09	
104M07	925023	8	519760	6583639		6	PPgn	2		0.1	0.5	750	0.5	64	1	30	14	7	5.01	36	0.49	1	20	15	4.9	13.0	3.00	0.5	0.5	8.1	1	3.5	3.0	5.54	
104M07	925024	8	521782	6584534		6	Kg	2		0.3	2.6	1100	5.0	68	6	100	22	6	6.55	39	0.57	1	20	65	5.4	26.0	2.21	0.5	1.3	10.0	1	14.0	3.7	16.63	
104M07	925025	8	523622	6583678	10	6	Kg	2	2	0.3	0.5	1500	2.5	120	3	61	10	41	3.96	73	0.73	1	20	91	6.1	12.0	2.45	3.7	0.5	33.0	6	18.0	4.5	15.56	
104M07	925026	8	523622	6583678	20	6	Kg	5		0.2	0.5	1400	0.5	110	3	56	9	39	3.66	70	0.67	1	20	85	5.5	11.0	2.37	2.2	0.5	33.0	5	16.0	4.2	17.07	
104M07	925027	8	525838	6582717		6	Qal	2		0.1	0.5	1100	0.5	120	2	6	4	10	1.45	67	0.48	1	150	88	5.5	5.0	2.79	0.5	0.5	24.0	1	6.9	2.8	10.30	
104M08	925028	8	527592	6582305		6	Kg	7		0.4	1.9	1500	0.5	150	2	5	4	15	2.47	93	0.70	1	20	90	6.8	6.4	3.11	0.5	1.2	54.0	1	23.0	3.8	18.00	
104M09	925029	8	535310	6604549		6	PPmb	17		0.6	3.7	1100	2.6	56	2	58	11	5	3.95	34	0.46	1	20	51	4.1	18.0	2.58	0.5	0.5	11.0	1	4.7	2.9	18.76	
104M09	925030	8	533507	6601073		6	PPmb	16		0.9	3.3	910	2.5	43	2	70	13	4	4.07	26	0.44	1	20	42	3.5	17.0	2.32	0.5	0.7	9.5	1	4.6	2.5	20.05	
104M09	925031	8	531894	6600787		6	PPmb	10		0.6	3.9	1800	7.1	92	2	60	14	8	4.72	58	0.70	1	20	61	7.0	16.0	2.47	0.5	1.1	22.0	1	8.7	4.5	12.63	
104M09	925032	8	531578	6598316		6	PPmb	12		0.6	8.3	1100	4.9	49	3	65	19	4	5.09	28	0.45	1	20	79	4.0	20.0	2.25	0.5	0.5	9.7	1	4.4	2.9	16.92	
104M08	925033	8	529652	6595266		6	PPmb	2		0.4	2.6	790	2.9	38	2	76	15	3	3.86	22	0.44	1	20	89	3.1	17.0	2.53	1.9	0.5	13.0	1	12.0	3.1	19.78	
104M08	925034	8	528960	6593593		6	PPmb	7		0.2	0.5	1200	0.5	130	2	16	8	10	3.09	79	0.55	1	20	67	6.1	8.9	3.09	1.4	0.5	30.0	1	12.0	3.1	15.48	
104M09	925035	8	528982	6597799		6	PPmb	31	9	0.7	7.6	1400	0.5	68	2	59	14	6	3.91	38	0.44	1	20	69	5.2	16.0	2.95	0.5	0.5	12.0	1	3.3	2.8	15.63	
104M10	925037	8	527904	6597313		6	PPmb	6		0.3	0.5	1200	0.5	88	2	52	12	9	4.10	53	0.51	1	20	32	5.8	17.0	3.13	1.8	0.5	18.0	1	6.8	3.3	15.51	
104M10	925038	8	527536	6596419		6	PPmb	2		0.3	2.8	1200	0.5	130	2	49	10	11	5.15	87	0.50	1	20	39	7.0	15.0	2.83	0.5	0.7	24.0	5	6.2	3.1	14.04	
104M10	925039	8	526567	6596627		6	PPmb	40	50	1.2	5.0	1300	2.9	140	2	98	19	16	5.90	85	0.59	1	20	46	8.1	19.0	2.42	2.0	0.9	40.0	1	16.0	3.3	18.61	
104M07	925040	8	524026	6594652		6	eKt	4		0.3	0.5	1800	0.5	160	1	41	9	25	6.34	100	0.51	1	20	32	8.8	13.0	2.82	0.5	1.2	27.0	1	7.7	3.2	18.91	
104M10	925042	8	522050	6595736		6	eKt	3		0.1	1.4	1300	24.0	100	3	26	10	13	4.31	59	0.48	1	20	64	6.2	10.0	2.45	0.5	0.8	28.0	1	34.0	2.6	12.59	
104M07	925043	8	524648	6592538	10	6	Kg	8	2	0.3	1.0	1200	0.5	97	2	26	6	11	2.52	62	0.36	1	20	55	4.5	7.3	2.81	1.9	0.5	29.0	7	8.7	2.4	18.60	
104M07	925044	8	524648	6592538	20	6	Kg	2		0.2	0.5	1300	0.5	90	2	30	6	9	2.34	61	0.34	1	20	65	4.4	7.7	2.86	2.6	0.5	22.0	3	6.5	2.1	16.51	
104M07	925045	8	521704	6591489		6	eKt	3		0.2	0.5	920	1.6	63	1	59	17	5	5.52	36	0.59	1	20	15	5.4	26.0	3.04	0.5	0.8	10.0	1	5.8	3.8	19.84	
104M07	925046	8	517277	6589091		6	eKt	4		0.2	0.5	1500	0.5	94	1	50	12	9	4.45	59	0.41	1	20	48	6.0	15.0	2.82	0.5	0.8	16.0	1	6.8	2.4	19.41	
104M07	925047	8	513355	6594537		6	eKt	4		0.1	0.5	1300	0.5	100	1	26	9	14	4.37	63	0.46	1	20	41	7.0	14.0	2.69	0.5	1.0	16.0	1	5.1	2.8	18.71	
104M10	925048	8	510021	6596106		6	KTg	2		0.1	0.5	1100	2.5	77	1	37	12	7	4.78	47	0.36	1	20	40	5.5	14.0	2.65	0.5	0.5	12.0	4	6.0	2.5	18.16	
104M09	925049	8	554136	6610731		6	MTCs	2		3.4	19.0	1500	0.5	57	4	110	11	7	3.55	29	0.34	3	20	93	3.9	14.0	2.29	0.5	0.5	8.3	1	3.3	2.5	13.80	
104M09	925050	8	531846	6606619		6	PPmb	11		2.0	3.4	1300	0.5	85	2	27	10	8	3.80	50	0.65	1	20	58	5.2	8.8	2.59	1.4	0.8	15.0	6	6.4	4.3	17.70	
104M10	925051	8	528218	6607700		6	PPmb	14		1.7	3.3	1500	1.8	74	2	26	10	6	3.56	49	0.38	1	20	63	4.0	11.0	2.18	1.5	0.5	14.0	5	13.0	2.2	22.04	
104M10	925052	8	525482	6608377		6	PPmb	2		1.2	3.6	1700	0.5	110	2	46	13	6	4.64	66	0.44	1	20	48	6.5	17.0	2.86	0.5	0.8	19.0	1	9.2	2.8	18.02	
104M10	925054	8	525670	6604943		6	eKt	5		5.1	4.6	1700	0.5	94	2	31	12	3	3.26	60	0.34	1	20	55	5.1	14.0	2.50	0.5	0.5	19.0	4	8.7	2.4	19.12	
104M10	925055	8	524603	6602426		6	eKt	9		1.0	5.7	2000	3.9	200	4	68	25	16	7.58	97	0.62	1	20	81	13.0	24.0	3.01	0.5	0.5	25.0	1	12.0	4.4	10.47	
104M10	925056	8	523812	6601115		6	eKt	6		0.6	2.6	1100	6.1	97	2	80	28	3	7.38	56	0.45	1	20	23	7.7	25.0	2.41	0.5	0.9	7.2	2	5.1	2.8	16.60	
104M10	925057	8	523592	6608444		6	PPmb	4		0.5	1.7	1200	0.5	95	1	56	19	7	9.99	60	0.41	1	20	44	7.2	21.0	2.79	0.5	1.0	9.7	1	3.6	2.7	20.33	
104M10	925058	8	521896	6608042		6	eTg	2		0.3	2.3	1500	7.0	83	3	29	12	6	3.71	55	0.37	1	20	79	5.2	13.0	2.78	1.5	0.5	15.0	7	39.0	2.4	18.36	
104M10	925059	8	520491	6607845		6	eTg	2		1.6	2.2	1400	3.7	88	8	82	13	8	4.44	55	0.47	1	20	130	5.6	14.0	2.34	1.1	0.5	33.0	1	22.0	2.9	17.90	

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M10	925060	8	518687	6606761	740		6	eTg	0	2	G	N	N	221	10.0	175	C	N	S	S	M	D	P	2	G	0408
104M10	925062	8	519006	6605141	1150		6	eTg	2	3	G	N	N	120	30.0	250	T	N	B	B	M	D	P	2	M	0408
104M10	925063	8	518941	6602977	1325		6	eKt	0	3	T	N	N	221	2.0	100	T	N	S	S	M	D	P	1	G	0408
104M10	925064	8	518406	6600809	1370		6	eKt	1	3	T	N	N	131	2.0	75	O	N	S	S	M	D	P	2	M	0408
104M10	925065	8	520542	6599554	1450	10	6	eKt	2	2	G	N	N	130	10.0	50	O	N	S	M	M	D	P	2	M	0408
104M10	925066	8	520542	6599554	1450	20	6	eKt	2	2	G	N	N	130	10.0	50	O	N	S	M	M	D	P	2	M	0408
104M10	925067	8	519030	6613896	1210		6	PPmb	0	3	T	N	N	212	9.0	250	C	N	S	S	M	D	P	1	G	0408
104M10	925068	8	526259	6614653	900		6	PPmb	0	3	G	N	N	032	2.0	90	O	N	S	S	M	D	P	2	G	0408
104M10	925069	8	524964	6614274	1100		6	eJh	0	3	T	N	N	311	5.0	150	C	N	S	S	M	D	P	2	G	0408
104M09	925070	8	531911	6618753	1310		6	lJLg	0	3	T	T	N	212	3.0	125	C	N	S	S	M	D	P	2	G	0408
104M09	925071	8	532556	6616938	1370		6	lJLa	0	3	T	T	N	212	3.0	150	A	N	S	S	M	D	P	2	G	0408
104M09	925072	8	535310	6615581	1250		6	lJLa	0	3	T	N	N	221	1.0	50	O	N	S	S	M	D	P	1	G	0408
104M01	925074	8	551409	6566505	810		6	lTgd	0	3	T	N	N	230	15.0	100	O	N	S	B	M	D	P	2	G	0408
104M01	925075	8	550385	6564136	830		6	Kg	2	3	G	N	N	230	3.0	150	O	N	S	S	M	D	P	3	M	0408
104M01	925076	8	550766	6561850	850		6	Kg	2	3	G	N	N	130	9.0	110	A	N	S	B	M	D	P	3	M	0408
104M01	925077	8	547757	6559618	1400		6	eJgd	2	3	T	N	N	221	5.0	125	C	N	S	S	M	D	P	2	M	0408
104M01	925078	8	547750	6555763	1200		6	PPmb	0	2	T	N	N	230	10.0	100	T	N	S	M	M	D	P	2	M	0408
104M01	925079	8	547127	6555682	1175		6	PPmb	0	3	T	N	N	230	30.0	100	A	N	S	S	M	D	P	3	G	0408
104M01	925080	8	544988	6555881	1400		6	PPgn	2	3	T	N	N	320	10.0	50	T	N	S	S	M	D	P	1	M	0408
104M01	925082	8	550706	6555940	1000		6	eEs	2	3	T	N	N	221	5.0	100	A	N	S	S	M	D	P	2	M	0408
104M01	925083	8	551932	6558501	845		6	uTs	0	4	O	N	N	310	2.0	150	C	N	B	S	M	D	P	2	M	0408
104M01	925084	8	555808	6552801	900		6	lThg	0	4	T	N	N	311	3.0	125	T	N	S	S	M	D	P	1	M	0408
104M01	925085	8	556757	6555735	700	10	6	lThg	0	3	G	N	N	320	10.0	150	T	N	S	S	M	D	P	2	M	0408
104M01	925086	8	556757	6555735	700	20	6	lThg	0	3	G	N	N	320	10.0	150	T	N	S	S	M	D	P	2	M	0408
104M01	925087	8	556219	6558466	700		6	lThg	0	3	T	N	N	311	4.0	100	A	N	S	S	M	D	P	2	M	0408
104M01	925088	8	556895	6565260	810		6	lTgd	0	3	T	N	N	320	4.0	100	A	N	B	S	M	D	P	3	M	0408
104M01	925090	8	543919	6566119	1000		6	PPgn	2	3	T	N	N	230	15.0	150	A	N	B	S	M	D	P	2	M	0408
104M01	925091	8	541394	6563681	900		6	PPgn	2	3	T	N	N	230	10.0	130	T	N	S	B	M	D	P	2	M	0408
104M01	925092	8	539470	6564168	975		6	PPgn	2	4	G	N	N	220	20.0	300	T	N	S	S	M	D	P	3	M	0408
104M01	925093	8	536371	6564995	1310		6	PPgn	2	4	T	N	N	230	15.0	350	T	N	B	B	M	D	P	3	M	0408
104M01	925094	8	540894	6560281	1130		6	PPgn	2	4	G	N	N	320	12.0	250	R	R	B	S	M	D	P	2	M	0408
104M01	925095	8	547306	6567247	900		6	Kg	0	3	T	N	N	310	12.0	200	C	N	S	S	M	D	P	1	M	0408
104M10	925096	8	526792	6618087	970		6	uTs	0	3	T	T	N	013	2.0	150	O	N	S	S	M	D	P	1	G	0508
104M09	925097	8	528754	6621710	1270		6	lJLa	0	3	T	N	N	014	2.0	150	R	N	S	S	M	D	P	1	G	0508
104M15	925098	8	526326	6624643	1250		6	lJLg	0	3	T	N	N	113	2.0	100	O	N	S	S	M	D	P	1	G	0508
104M15	925099	8	527501	6628846	1220		6	lJLg	0	3	T	N	N	013	9.0	110	R	N	B	B	M	D	P	1	G	0508
104M15	925100	8	525371	6626297	1325		6	lJLg	0	2	T	N	N	211	6.0	50	C	N	S	S	M	D	P	1	G	0508
104M15	925102	8	522979	6628581	1425		6	uTss	0	2	T	N	N	113	10.0	75	R	N	B	B	M	D	P	1	G	0508
104M15	925103	8	525228	6630718	1200		6	Qal	0	2	T	N	N	212	5.0	75	A	N	S	S	M	D	P	2	G	0508
104M15	925104	8	524772	6631261	1250		1	lJLg			T	N	N	220	6.0	200	T	N	S	S	M	D	S	1	G	0508

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Water				Stream Sediment													
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
	SAMPLE	UTM	UTM	UTM			ppb	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	ION	LIF	TURB	GCE	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M10	925060	8	518687	6606761		6	eTg	30	0.16	1.4	7.1	0.2	1.0	0.2	0.3	10	65	500	1.80	13	211	10	1	5	0.2	88	45	1.9	
104M10	925062	8	519006	6605141		6	eTg	30	0.20	0.9	7.1	0.2	1.0	0.2	0.2	9	69	470	1.60	14	188	10	1	5	0.2	75	41	1.5	
104M10	925063	8	518941	6602977		6	eKt	50	0.45	5.2	7.5	0.2	1.0	0.2	0.2	12	62	490	2.20	9	393	20	1	9	0.3	73	58	10.9	
104M10	925064	8	518406	6600809		6	eKt	30	0.88	0.7	7.2	0.2	0.2	0.3	0.2	6	22	390	1.20	6	285	10	3	2	0.2	33	41	2.9	
104M10	925065	8	520542	6599554	10	6	eKt	30	0.15	1.0	7.1	0.2	1.0	0.2	0.2	8	23	460	1.40	5	233	10	2	6	0.2	48	43	1.8	
104M10	925066	8	520542	6599554	20	6	eKt	30	0.15	1.0	7.1	0.2	0.9	0.2	0.2	7	23	370	1.30	4	212	10	1	5	0.2	45	39	1.9	
104M10	925067	8	519030	6613896		6	PPmb	40	0.08	3.3	7.7	0.7	16.0	0.2	0.7	15	39	460	3.00	20	760	20	2	39	0.2	77	103	8.7	
104M10	925068	8	526259	6614653		6	PPmb	30	0.05	3.5	7.4	4.0	200.0	0.4	0.4	19	58	480	6.50	19	940	40	2	49	0.4	55	113	10.5	
104M10	925069	8	524964	6614274		6	eJh	30	0.05	4.1	7.5	2.7	40.0	0.2	0.7	22	59	310	4.00	12	900	20	2	50	0.2	65	105	7.1	
104M09	925070	8	531911	6618753		6	lJLg	40	0.05	21.0	7.5	1.1	78.0	0.5	0.2	22	116	500	4.20	10	461	30	3	46	0.2	141	90	8.2	
104M09	925071	8	532556	6616938		6	lJLa	40	0.05	14.0	7.8	1.0	16.0	0.2	0.4	17	64	320	3.20	15	363	30	2	42	0.2	72	94	9.5	
104M09	925072	8	535310	6615581		6	lJLa	40	0.05	9.1	7.9	0.7	7.2	0.2	0.4	13	43	380	2.50	9	327	30	2	31	0.2	53	89	10.2	
104M01	925074	8	551409	6566505		6	lTgd	80	0.15	2.4	6.9	0.2	4.3	0.2	0.2	9	12	480	1.40	5	233	10	2	31	0.2	40	39	3.9	
104M01	925075	8	550385	6564136		6	Kg	30	0.05	0.1	6.9	0.2	0.6	0.2	0.2	2	6	250	0.45	2	36	10	1	2	0.2	24	7	0.6	
104M01	925076	8	550766	6561850		6	Kg	30	0.05	0.6	7.1	0.2	1.5	0.2	0.2	4	23	410	0.80	6	147	20	2	4	0.2	34	24	0.8	
104M01	925077	8	547757	6559618		6	eJgd	30	0.05	0.9	7.0	1.1	2.8	0.2	0.2	9	38	410	1.70	11	365	40	1	10	0.2	43	53	2.2	
104M01	925078	8	547750	6555763		6	PPmb	30	0.05	5.1	7.2	3.8	50.0	0.3	0.6	12	55	430	2.50	21	326	40	4	27	0.6	60	98	2.7	
104M01	925079	8	547127	6555682		6	PPmb	30	0.17	16.0	7.8	1.6	22.0	0.3	0.5	9	25	320	1.30	9	188	20	2	21	0.6	26	52	1.0	
104M01	925080	8	544988	6555881		6	PPgn	90	0.23	12.0	7.6	1.7	38.0	0.2	0.3	13	28	580	1.40	11	287	120	3	26	0.3	52	45	1.9	
104M01	925082	8	550706	6555940		6	eEs	40	0.05	3.9	7.2	0.8	12.0	0.2	0.3	15	32	390	2.80	10	560	40	2	18	0.2	44	72	6.1	
104M01	925083	8	551932	6558501		6	uTs	40	0.05	3.9	7.4	0.5	4.0	0.2	0.2	32	118	320	3.30	2	521	30	1	177	0.2	64	41	4.7	
104M01	925084	8	555808	6552801		6	lThg	30	0.05	1.2	7.5	4.0	17.0	0.2	0.2	25	113	250	4.00	2	736	130	2	48	0.3	77	58	5.9	
104M01	925085	8	556757	6555735	10	6	lThg	30	0.05	3.4	7.4	1.5	11.0	0.2	0.2	12	43	240	1.70	3	245	100	2	21	0.2	58	33	1.9	
104M01	925086	8	556757	6555735	20	6	lThg	30	0.05	3.7	7.4	1.4	11.0	0.2	0.2	11	40	200	1.70	3	241	80	1	20	0.2	53	30	1.7	
104M01	925087	8	556219	6558466		6	lThg	30	0.05	1.8	7.1	1.7	18.0	0.2	0.2	22	79	200	2.90	2	527	100	2	47	0.2	99	44	9.3	
104M01	925088	8	556895	6565260		6	lTgd	30	0.05	3.5	7.2	1.7	26.0	0.4	0.2	19	278	340	2.70	9	428	40	4	63	5.2	52	59	2.7	
104M01	925090	8	543919	6566119		6	PPgn	40	0.08	11.0	7.1	1.2	33.0	0.7	0.2	9	50	480	1.40	4	178	170	6	16	1.4	44	38	0.8	
104M01	925091	8	541394	6563681		6	PPgn	80	0.35	19.0	7.7	0.7	7.4	0.2	0.4	5	19	330	0.55	7	201	10	3	11	0.2	38	38	3.1	
104M01	925092	8	539470	6564168		6	PPgn	190	0.10	1.3	7.2	0.2	2.7	0.3	0.2	2	16	400	0.50	7	55	10	2	3	0.2	18	21	0.1	
104M01	925093	8	536371	6564995		6	PPgn	190	0.08	1.0	7.0	0.2	4.2	0.4	0.2	3	20	500	0.90	10	107	10	1	4	0.2	28	32	0.5	
104M01	925094	8	540894	6560281		6	PPgn	50	0.16	9.6	7.7	0.5	5.6	0.2	0.2	12	29	430	1.70	6	303	10	2	26	0.2	33	43	1.3	
104M01	925095	8	547306	6567247		6	Kg	50	0.05	22.0	7.1	17.0	130.0	6.4	2.0	12	118	370	2.80	28	507	170	30	9	0.5	56	134	2.3	
104M10	925096	8	526792	6618087		6	uTs	70	1.02	66.0	8.2	2.1	62.0	0.3	2.0	15	55	440	4.30	10	1100	40	3	43	0.2	75	160	29.9	
104M09	925097	8	528754	6621710		6	lJLa	50	0.05	7.2	7.1	1.8	190.0	0.7	0.3	20	93	360	4.10	11	429	40	3	49	0.5	128	95	15.7	
104M15	925098	8	526326	6624643		6	lJLg	40	0.05	6.8	7.7	1.7	60.0	0.2	0.4	14	60	410	4.00	10	414	20	2	36	0.3	104	107	17.0	
104M15	925099	8	527501	6628846		6	lJLg	30	0.05	12.0	7.4	1.0	30.0	1.2	1.0	19	50	320	3.90	25	604	30	2	25	0.4	86	122	15.4	
104M15	925100	8	525371	6626297		6	lJLg	30	0.05	11.0	7.6	2.4	38.0	0.3	0.4	18	73	370	3.90	10	492	10	2	36	0.3	103	95	4.8	
104M15	925102	8	522979	6628581		6	uTss	30	0.05	0.5	6.5	0.9	32.0	0.3	0.2	17	75	360	4.30	13	890	50	3	55	0.2	88	65	26.3	
104M15	925103	8	525228	6630718		6	Qal	30	0.05	12.0	7.3	2.7	66.0	0.5	1.1	24	92	500	4.20	30	686	30	2	40	0.6	135	167	10.6	
104M15	925104	8	524772	6631261		1	lJLg					2.8	70.0	1.6	1.4	21	108	350	5.00	25	731	10	15	53	0.5	133	260	9.1	

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Stream Sediment																							
							Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	:D.L.
							2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:Unit
MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g	:Mthd
104M10	925060	8	518687	6606761		6	eTg	2		0.4	1.4	1200	0.5	89	2	41	17	5	6.40	57	0.38	1	20	15	6.5	19.0	2.60	0.5	0.7	11.0	6	7.9	2.4	21.16	
104M10	925062	8	519006	6605141		6	eTg	3		0.4	1.9	1300	0.5	89	2	32	16	3	5.34	57	0.35	1	20	30	6.5	20.0	2.97	0.5	0.8	7.9	2	3.6	2.5	20.04	
104M10	925063	8	518941	6602977		6	eKt	2		0.6	1.5	1400	30.0	94	2	52	16	9	5.60	56	0.45	1	20	51	6.0	18.0	2.06	0.5	0.9	19.0	1	14.0	2.7	17.34	
104M10	925064	8	518406	6600809		6	eKt	2		0.2	0.5	1600	0.5	52	4	13	8	4	2.32	30	0.22	1	20	93	3.0	7.5	2.61	0.5	0.5	17.0	1	16.0	1.2	13.91	
104M10	925065	8	520542	6599554	10	6	eKt	2		0.4	1.9	1800	0.5	100	2	43	13	8	4.46	65	0.44	1	20	63	6.1	17.0	2.83	0.5	0.8	19.0	1	8.8	2.9	17.73	
104M10	925066	8	520542	6599554	20	6	eKt	2	3	0.3	1.8	1700	0.5	95	2	41	12	9	4.30	63	0.42	1	20	58	5.7	16.0	2.65	0.5	0.7	20.0	1	9.0	2.5	18.94	
104M10	925067	8	519030	6613896		6	PPmb	9		2.4	20.0	1100	16.0	62	4	220	20	5	5.66	33	0.50	1	20	52	5.8	22.0	2.11	1.1	1.1	7.9	1	4.4	3.2	17.42	
104M10	925068	8	526259	6614653		6	PPmb	14		8.5	220.0	2100	8.5	53	5	200	24	5	8.78	29	0.58	1	20	66	5.1	26.0	1.56	0.5	1.0	8.0	1	3.6	3.9	13.72	
104M10	925069	8	524964	6614274		6	eJh	8		6.3	38.0	930	5.4	48	5	370	29	4	6.74	27	0.48	1	130	54	4.2	30.0	1.71	0.7	0.8	7.4	1	4.3	3.1	19.60	
104M09	925070	8	531911	6618753		6	lJLg	28	165	1.7	85.0	1100	15.0	45	5	200	25	4	6.18	24	0.41	1	20	55	4.3	23.0	2.36	0.5	0.7	6.0	1	3.8	2.6	14.77	
104M09	925071	8	532556	6616938		6	lJLa	11		2.0	15.0	990	14.0	39	4	180	16	4	4.38	23	0.34	1	140	65	3.7	18.0	2.24	0.5	0.7	5.2	1	2.7	2.2	19.31	
104M09	925072	8	535310	6615581		6	lJLa	4		1.4	8.4	970	15.0	42	3	160	13	5	3.67	26	0.34	1	20	62	3.6	15.0	1.99	0.7	0.6	7.2	1	3.0	2.0	18.26	
104M01	925074	8	551409	6566505		6	lTgd	4		0.9	6.2	1600	5.4	56	3	220	15	5	3.63	34	0.25	1	20	60	4.1	13.0	3.28	1.6	0.5	6.9	1	23.0	1.5	17.56	
104M01	925075	8	550385	6564136		6	Kg	5		0.4	1.3	1300	0.5	120	1	35	7	17	4.93	77	0.53	1	20	57	6.5	7.8	3.10	0.5	0.5	23.0	1	8.2	3.2	15.39	
104M01	925076	8	550766	6561850		6	Kg	2		1.3	2.8	1500	0.5	73	2	27	8	12	3.91	45	0.38	1	20	67	4.4	8.0	3.16	0.5	1.0	13.0	1	4.8	2.2	16.62	
104M01	925077	8	547757	6559618		6	eJgd	2		6.9	5.1	1800	3.7	75	5	46	12	9	4.41	42	0.38	1	20	110	4.6	10.0	2.78	0.5	0.7	14.0	1	8.6	2.5	15.10	
104M01	925078	8	547750	6555763		6	PPmb	4		7.4	58.0	3100	2.3	120	4	110	18	11	5.53	66	0.70	1	83	74	8.8	15.0	1.10	1.3	1.2	19.0	1	6.0	4.6	16.68	
104M01	925079	8	547127	6555682		6	PPmb	5		2.7	22.0	3700	0.5	43	1	52	10	4	2.54	23	0.35	1	20	32	3.4	5.9	0.66	0.5	0.6	7.0	2	2.9	2.3	19.10	
104M01	925080	8	544988	6555881		6	PPgn	4		2.5	45.0	530	2.3	65	4	91	16	4	3.60	35	0.37	1	66	67	5.0	11.0	0.48	1.0	0.7	9.4	1	3.4	2.5	14.62	
104M01	925082	8	550706	6555940		6	eEs	2		1.9	15.0	1100	2.5	63	4	120	19	6	5.54	34	0.58	1	20	55	5.6	23.0	1.34	0.5	1.1	11.0	1	4.2	3.8	15.17	
104M01	925083	8	551932	6558501		6	uTs	2		1.4	5.7	170	3.1	16	1	1100	60	1	8.40	7	0.32	1	195	29	2.6	45.0	1.15	0.5	0.5	1.1	1	0.5	2.0	16.14	
104M01	925084	8	555808	6552801		6	lThg	36	22	11.0	20.0	540	4.9	36	2	370	30	4	6.62	17	0.41	3	20	37	3.7	31.0	1.81	0.5	0.8	4.1	1	0.5	2.7	18.81	
104M01	925085	8	556757	6555735	10	6	lThg	13	3	3.7	19.0	980	1.9	54	2	160	18	5	4.78	33	0.36	1	20	48	3.5	21.0	2.23	0.5	0.5	7.5	1	2.4	2.3	19.64	
104M01	925086	8	556757	6555735	20	6	lThg	6		3.8	19.0	1100	2.1	54	2	150	18	5	4.64	31	0.34	1	20	48	3.5	20.0	2.21	0.5	0.5	7.9	1	2.2	2.2	17.25	
104M01	925087	8	556219	6558466		6	lThg	6		4.1	22.0	270	12.0	17	3	540	41	2	6.90	7	0.29	3	20	24	2.1	50.0	1.11	0.5	0.5	1.8	1	0.5	1.9	14.52	
104M01	925088	8	556895	6565260		6	lTgd	18		4.8	31.0	1800	2.7	40	4	450	23	5	5.55	21	0.25	1	65	67	3.2	18.0	2.55	0.9	0.5	5.1	7	4.5	1.6	16.31	
104M01	925090	8	543919	6566119		6	PPgn	4		4.3	34.0	1200	0.5	87	1	55	12	12	5.03	52	0.46	1	20	51	5.5	11.0	2.40	1.6	0.7	13.0	1	5.7	2.9	17.30	
104M01	925091	8	541394	6563681		6	PPgn	2		1.4	8.1	1100	0.5	58	1	35	7	4	1.78	28	0.26	4	20	45	4.0	6.4	1.03	0.5	0.5	6.6	1	1.5	1.6	13.99	
104M01	925092	8	539470	6564168		6	PPgn	3		0.4	4.4	1400	0.5	240	2	15	4	28	2.67	150	0.88	1	20	130	11.0	8.3	2.32	2.1	1.1	53.0	1	13.0	5.2	18.16	
104M01	925093	8	536371	6564995		6	PPgn	8		0.3	3.5	1600	0.5	190	2	24	7	22	3.05	110	0.77	1	20	140	9.7	9.2	2.45	0.5	1.7	44.0	1	12.0	4.9	16.93	
104M01	925094	8	540894	6560281		6	PPgn	2		0.8	5.0	980	0.5	190	2	94	16	19	3.81	100	0.89	1	20	72	13.0	11.0	1.23	0.5	1.9	35.0	1	7.3	6.4	18.05	
104M01	925095	8	547306	6567247		6	Kg	2		31.0	150.0	1400	0.5	85	4	26	18	12	5.29	46	0.51	25	20	87	5.1	10.0	2.41	0.5	0.5	15.0	29	9.3	3.1	18.12	
104M10	925096	8	526792	6618087		6	uTs	2		3.9	54.0	750	84.0	27	3	140	16	3	3.79	16	0.24	3	20	62	2.6	13.0	1.06	1.5	0.9	4.2	2	3.8	1.7	17.38	
104M09	925097	8	528754	6621710		6	lJLa	82	52	2.6	210.0	1100	25.0	44	5	170	24	4	5.14	21	0.37	4	20	53	3.7	19.0	2.19	0.5	0.5	6.0	1	3.6	2.4	13.71	
104M15	925098	8	526326	6624643		6	lJLg	23	8	3.2	60.0	860	28.0	36	3	210	15	4	4.37	21	0.27	1	20	86	3.6	19.0	2.01	0.5	0.5	6.0	1	4.7	2.1	16.44	
104M15	925099	8	527501	6628846		6	lJLg	11		2.1	28.0	920	33.0	48	5	120	22	5	4.38	25	0.40	1	20	80	3.7	15.0	1.64	0.5	0.5	8.2	1	11.0	2.3	14.97	
104M15	925100	8	525371	6626297		6	lJLg	11		4.9	48.0	1300	9.3	51	5	180	22	5	5.55	28	0.39	1	20	48	4.6	21.0	2.46	0.5	0.5	7.5	1	5.1	2.6	18.21	
104M15	925102	8	522979	6628581		6	uTss	13		2.3	40.0	840	47.0	50	10	270	23	4	5.47	22	0.34	1	240	76	3.8	20.0	1.44	0.5	1.1	8.0	1	4.4	2.2	11.43	
104M15	925103	8	525228	6630718		6	Qal	27	16	5.3	81.0	1100	26.0	55	11	160	30	4	6.25	26	0.44	1	20	140	5.0	22.0	2.11	0.5	0.5	6.4	1	10.0	2.9	9.25	
104M15	925104	8	524772	6631261		1	lJLg	2		6.0	99.0	1100	3.6	85	14	140	30	6	7.82	38	0.48	13	20	140	6.3	21.0	1.64	0.5	1.0	9.9	1	5.5	3.4	11.38	

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M15	925105	8	525594	6632604	1300		6	Qal	0	3	T	N	N	221	5.0	150	C	N	B	B	M	D	P	1	G	0508
104M15	925106	8	527037	6635294	1300		6	lKg	0	3	T	N	N	211	5.0	75	C	N	S	S	M	D	P	1	G	0508
104M15	925108	8	526489	6635392	1300		6	lKg	0	3	T	N	N	211	1.0	100	A	N	B	S	M	D	P	1	G	0508
104M15	925109	8	525955	6637634	1190		6	eTg	0	3	T	N	N	212	2.0	100	A	N	S	S	M	D	P	2	G	0508
104M15	925110	8	523311	6639649	1430		6	eTg	0	2	T	N	N	310	3.0	75	C	N	S	S	M	D	P	2	G	0508
104M15	925111	8	521873	6639695	1375		6	lJLg	0	2	T	N	N	311	2.0	100	C	N	S	S	M	D	P	1	G	0508
104M15	925112	8	518988	6638444	1435		6	lKg	0	2	T	N	N	310	9.0	75	T	N	S	S	M	D	P	1	G	0508
104M15	925113	8	518732	6638613	1435		6	lKg	0	2	T	N	N	310	7.0	90	T	N	B	B	M	D	P	2	G	0508
104M15	925114	8	523613	6636113	1180		6	lKg	0	3	T	N	N	113	1.0	70	C	N	B	S	M	D	P	1	G	0508
104M15	925115	8	522717	6635158	1350	10	6	lKg	0	2	T	N	N	120	4.0	100	R	N	S	S	M	D	P	2	G	0508
104M15	925116	8	522717	6635158	1350	20	6	lKg	0	2	T	N	N	120	4.0	100	R	N	S	S	M	D	P	2	G	0508
104M15	925117	8	522236	6633322	1280		6	lKg	0	3	T	N	N	320	2.0	50	C	N	S	S	M	D	S	1	G	0508
104M15	925118	8	518392	6629384	1310		6	uTsv	0	2	T	N	N	220	1.0	50	O	N	S	M	M	D	P	1	G	0508
104M15	925119	8	518172	6630649	1370		6	uTsv	0	3	T	N	N	221	15.0	50	C	N	S	B	M	D	P	1	G	0508
104M15	925120	8	516992	6630188	1400		6	uTsv	0	3	T	N	N	310	3.0	110	C	N	S	S	M	D	P	1	G	0508
104M15	925122	8	516051	6631720	1340		6	uTsv	0	2	G	N	N	230	10.0	150	A	N	S	S	M	D	P	1	G	0508
104M14	925123	8	484107	6642423	1000	10	6	KTg	0	3	T	N	N	220	10.0	55	A	N	S	S	M	D	P	2	G	0508
104M14	925124	8	484107	6642423	1000	20	6	KTg	0	3	T	N	N	220	10.0	55	A	N	S	S	M	D	P	2	G	0508
104M14	925125	8	485794	6646153	760		1	Es			T	N	N	320	25.0	50	A	N	S	S	M	D	P	2	G	0508
104M14	925126	8	486365	6647781	900		6	Es	0	3	T	N	N	220	15.0	50	A	N	S	S	M	D	P	2	G	0508
104M14	925127	8	488617	6650860	1120		6	Es	0	3	T	N	N	310	15.0	150	C	N	S	S	M	D	P	2	G	0508
104M14	925128	8	483753	6648141	1120		6	Es	0	3	T	N	N	032	4.0	50	O	N	S	B	M	D	P	1	G	0508
104M14	925129	8	481701	6649262	1230		6	Es	0	3	T	N	N	311	4.0	150	A	N	S	S	M	D	P	2	G	0508
104M14	925130	8	480165	6649529	1310		6	Es	0	2	T	N	N	320	9.0	125	C	N	S	S	M	D	P	3	M	0508
104M14	925131	8	479034	6643309	1020		6	KTg	2	3	G	N	N	311	10.0	125	A	N	S	S	M	D	P	2	M	0508
104M14	925132	8	479808	6645931	1510		6	KTg	0	3	T	N	N	311	5.0	100	A	N	S	S	M	D	P	2	M	0508
104M14	925133	8	475650	6647678	1360		6	eTg	0	3	T	N	N	310	10.0	100	A	N	S	S	M	D	P	1	G	0508
104M14	925134	8	476520	6647971	1400		6	eTg	0	3	T	N	N	212	6.0	100	A	N	S	S	M	D	P	1	G	0508
104M14	925135	8	475228	6649430	1370		6	eTg	0	2	T	N	N	320	2.0	50	C	N	S	M	M	D	P	1	G	0508
104M14	925136	8	474372	6649805	1370		6	eTg	0	2	T	N	N	220	15.0	75	A	N	S	B	M	D	P	1	G	0508
104M13	925137	8	471053	6648753	1360		6	eTg	2	3	T	N	N	230	15.0	100	A	N	S	S	M	D	P	2	M	0508
104M13	925138	8	469455	6650381	1360		6	eTg	2	3	T	T	N	130	25.0	25	C	N	S	B	M	D	P	1	M	0508
104M14	925140	8	480880	6641034	920		6	KTg	0	3	T	N	N	220	3.0	50	A	N	S	B	M	D	P	1	M	0508
104M14	925143	8	480431	6639942	1020		6	KTg	0	3	T	N	N	310	2.0	75	A	N	S	S	M	D	P	1	M	0508
104M14	925144	8	479944	6639505	890	10	6	KTg	0	2	T	N	N	130	4.0	150	A	N	S	M	M	D	P	3	M	0508
104M14	925145	8	479944	6639505	890	20	6	KTg	0	2	T	N	N	130	4.0	150	A	N	S	M	M	D	P	3	M	0508
104M14	925146	8	478910	6638440	920		6	KTg	2	3	T	N	N	220	2.0	150	A	N	S	S	M	D	P	2	M	0508
104M14	925147	8	477194	6638107	1040		6	KTg	0	3	T	N	N	220	9.0	152	C	N	B	S	M	D	P	2	M	0508
104M14	925148	8	474811	6639316	1200		6	eTg	0	3	T	N	N	221	10.0	100	C	N	B	S	M	D	P	2	G	0508
104M14	925149	8	488620	6637682	940		6	KTg	2	3	T	N	N	310	7.0	75	A	N	S	S	M	D	P	3	G	0508

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Water				Stream Sediment													
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
	SAMPLE	UTM	UTM	UTM			ppb	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	ION	LIF	TURB	GCE	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M15	925105	8	525594	6632604		6	Qal	30	0.36	4.9	7.4	1.2	100.0	0.3	0.4	15	51	460	3.60	17	495	20	4	27	0.4	96	90	8.9	
104M15	925106	8	527037	6635294		6	lKg	30	0.06	0.2	6.6	0.4	10.0	0.2	0.2	6	15	370	1.90	10	374	10	2	11	0.3	40	43	7.4	
104M15	925108	8	526489	6635392		6	lKg	40	0.09	0.5	6.9	0.3	6.1	0.4	0.2	7	13	380	2.20	12	465	40	2	11	0.3	34	50	12.6	
104M15	925109	8	525955	6637634		6	eTg	50	0.21	0.3	6.7	0.4	11.0	0.8	0.7	2	13	340	1.20	16	374	40	2	4	0.4	16	70	15.8	
104M15	925110	8	523311	6639649		6	eTg	40	0.05	3.6	6.8	0.5	17.0	0.4	1.2	9	36	360	2.40	75	539	20	2	15	0.3	51	152	5.3	
104M15	925111	8	521873	6639695		6	lJLg	40	0.18	38.0	7.5	1.9	88.0	0.5	1.2	20	132	400	4.30	51	566	50	2	50	0.9	126	160	14.3	
104M15	925112	8	518988	6638444		6	lKg	30	0.35	0.5	7.1	0.2	2.9	0.3	0.2	4	6	320	0.90	11	259	10	1	4	0.2	20	32	2.3	
104M15	925113	8	518732	6638613		6	lKg	30	0.16	0.2	6.8	0.2	1.7	0.2	0.2	4	5	290	1.00	10	233	10	1	3	0.2	15	28	2.0	
104M15	925114	8	523613	6636113		6	lKg	30	0.71	0.9	6.5	0.2	2.5	0.2	0.2	4	8	360	1.50	10	456	20	2	6	0.2	26	37	12.3	
104M15	925115	8	522717	6635158	10	6	lKg	40	0.27	1.5	6.9	0.6	18.0	1.6	0.2	7	22	440	2.50	20	360	40	8	12	0.6	42	57	13.2	
104M15	925116	8	522717	6635158	20	6	lKg	40	0.27	1.5	6.9	0.6	18.0	1.8	0.2	7	24	510	2.80	21	372	50	9	12	0.8	43	55	13.9	
104M15	925117	8	522236	6633322		6	lKg	30	3.49	4.9	7.2	0.4	8.8	0.6	0.2	5	12	300	1.40	12	319	10	1	9	0.2	26	36	3.9	
104M15	925118	8	518392	6629384		6	uTsv	30	0.25	15.0	7.9	3.4	35.0	0.5	0.4	19	68	370	4.20	35	503	50	2	25	0.3	51	92	12.6	
104M15	925119	8	518172	6630649		6	uTsv	30	0.09	8.9	7.5	2.5	18.0	0.2	0.3	11	37	360	2.80	14	618	50	2	16	0.3	38	66	20.8	
104M15	925120	8	516992	6630188		6	uTsv	30	0.10	16.0	7.9	3.2	32.0	0.7	0.5	25	187	270	5.20	19	1310	40	3	36	0.5	56	89	5.1	
104M15	925122	8	516051	6631720		6	uTsv	30	0.05	12.0	7.3	6.3	150.0	0.6	1.9	25	100	430	5.50	46	777	30	18	68	0.7	146	301	8.8	
104M14	925123	8	484107	6642423	10	6	KTg	70	0.15	2.6	7.1	0.2	2.3	0.2	0.2	3	5	280	0.50	6	140	10	1	2	0.2	10	35	1.0	
104M14	925124	8	484107	6642423	20	6	KTg	70	0.20	2.7	7.1	0.2	1.2	0.2	0.2	3	2	240	0.60	7	158	10	1	2	0.2	7	33	0.7	
104M14	925125	8	485794	6646153		1	Es					0.2	3.9	0.8	0.3	5	16	410	1.90	12	349	10	2	5	0.3	21	74	1.6	
104M14	925126	8	486365	6647781		6	Es	130	0.37	1.9	7.5	0.2	4.0	0.8	0.3	5	10	410	2.50	17	703	10	2	3	0.2	19	93	3.4	
104M14	925127	8	488617	6650860		6	Es	200	0.19	1.4	7.5	0.5	28.0	0.4	0.7	8	18	400	2.30	33	522	10	1	5	0.3	28	106	1.6	
104M14	925128	8	483753	6648141		6	Es	80	0.29	0.9	7.2	0.2	5.8	1.0	0.2	9	16	710	2.60	32	348	20	6	7	0.2	43	84	10.5	
104M14	925129	8	481701	6649262		6	Es	80	0.06	1.6	7.3	0.2	7.5	0.4	0.3	5	9	550	3.10	22	698	20	2	3	0.2	18	109	4.7	
104M14	925130	8	480165	6649529		6	Es	110	0.06	0.9	7.0	0.2	6.2	0.2	0.3	4	5	400	1.30	17	202	10	1	2	0.2	21	60	1.0	
104M14	925131	8	479034	6643309		6	KTg	80	0.23	0.3	6.9	0.2	0.3	1.7	0.2	3	4	380	1.10	11	177	10	1	2	0.2	18	63	0.5	
104M14	925132	8	479808	6645931		6	KTg	140	0.12	1.0	7.1	0.2	9.0	0.5	0.5	4	12	560	1.50	24	311	20	2	2	0.4	22	110	2.6	
104M14	925133	8	475650	6647678		6	eTg	510	0.23	0.3	6.7	0.2	0.6	0.2	0.2	2	2	400	0.55	18	210	10	1	2	0.2	5	37	0.2	
104M14	925134	8	476520	6647971		6	eTg	110	0.09	0.7	6.9	0.2	3.2	0.3	1.0	2	8	350	1.10	21	253	10	2	2	0.2	10	89	4.3	
104M14	925135	8	475228	6649430		6	eTg	90	0.11	0.5	6.8	0.2	8.0	0.5	0.6	4	9	620	1.90	48	271	20	6	2	0.5	24	143	6.6	
104M14	925136	8	474372	6649805		6	eTg	150	0.05	1.2	6.8	0.2	16.0	0.5	0.8	3	12	390	1.50	41	342	20	2	2	0.2	18	136	4.9	
104M13	925137	8	471053	6648753		6	eTg	1010	0.41	1.9	6.4	0.2	14.0	0.4	0.4	2	7	1500	0.35	19	110	10	2	2	0.2	5	38	0.1	
104M13	925138	8	469455	6650381		6	eTg	1410	0.50	4.8	6.4	0.2	10.0	4.4	2.8	2	33	900	1.00	175	652	10	32	2	1.2	6	199	0.5	
104M14	925140	8	480880	6641034		6	KTg	110	0.16	1.4	7.2	0.2	3.2	0.2	0.3	5	5	580	2.30	23	632	10	3	2	0.2	24	117	3.4	
104M14	925143	8	480431	6639942		6	KTg	110	0.36	2.3	7.3	0.2	0.6	0.2	0.2	3	6	310	1.20	10	239	10	1	2	0.2	21	59	1.8	
104M14	925144	8	479944	6639505	10	6	KTg	80	0.50	1.0	7.2	0.2	0.5	0.2	0.2	3	8	280	0.80	6	148	10	1	3	0.2	20	38	1.2	
104M14	925145	8	479944	6639505	20	6	KTg	80	0.54	1.0	7.1	0.2	0.3	0.2	0.2	3	5	370	0.70	5	151	10	2	3	0.2	20	37	1.3	
104M14	925146	8	478910	6638440		6	KTg	80	0.70	0.9	7.1	0.2	0.3	0.2	0.3	2	6	270	0.65	11	133	10	4	2	0.2	17	31	2.5	
104M14	925147	8	477194	6638107		6	KTg	1040	0.14	0.8	6.5	0.2	1.0	0.3	0.7	4	9	340	1.30	26	330	10	2	4	0.2	21	164	2.2	
104M14	925148	8	474811	6639316		6	eTg	160	0.05	0.6	6.6	0.2	4.0	1.7	0.6	5	12	600	2.00	45	642	10	5	4	0.9	32	186	3.0	
104M14	925149	8	488620	6637682		6	KTg	160	0.43	0.6	7.1	0.2	0.5	0.2	0.2	2	3	300	0.80	8	133	10	2	2	0.2	17	39	1.0	

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Stream Sediment																							
							Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	:D.L.
							2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:Unit
MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g	:Mthd
104M15	925105	8	525594	6632604		6	Qal	11		3.3	130.0	1100	16.0	88	6	150	20	8	5.21	47	0.57	1	20	100	6.5	21.0	2.66	0.5	1.0	18.0	1	40.0	3.0	9.66	
104M15	925106	8	527037	6635294		6	lKg	19		2.0	12.0	1000	7.2	100	5	82	9	14	3.51	55	0.55	1	20	98	6.7	11.0	2.59	0.5	0.5	27.0	1	13.0	3.7	10.96	
104M15	925108	8	526489	6635392		6	lKg	2		1.7	10.0	880	13.0	98	6	76	12	15	3.80	63	0.61	1	20	100	5.5	11.0	2.62	0.5	0.5	29.0	1	33.0	3.6	10.52	
104M15	925109	8	525955	6637634		6	eTg	13		1.1	15.0	770	36.0	110	5	19	6	17	2.34	75	0.92	1	20	120	6.5	5.5	1.80	0.5	1.4	29.0	5	96.0	6.2	10.89	
104M15	925110	8	523311	6639649		6	eTg	8		1.8	21.0	1200	5.4	100	8	70	12	13	4.60	53	0.72	1	20	110	7.4	14.0	2.35	0.5	1.1	16.0	1	18.0	4.2	11.46	
104M15	925111	8	521873	6639695		6	lJLg	25	7	3.7	92.0	990	29.0	42	13	150	24	4	5.69	24	0.41	1	20	85	4.0	20.0	2.03	0.5	0.5	7.4	1	10.0	2.6	10.85	
104M15	925112	8	518988	6638444		6	lKg	25	2	0.5	0.5	1400	5.4	140	7	20	5	11	2.79	84	0.45	1	190	150	5.7	5.6	2.81	0.5	0.5	21.0	5	37.0	2.2	11.85	
104M15	925113	8	518732	6638613		6	lKg	2		1.1	4.9	1600	0.5	140	4	14	5	13	2.70	73	0.46	5	20	160	6.3	5.4	3.24	0.5	0.5	22.0	1	6.7	2.9	11.89	
104M15	925114	8	523613	6636113		6	lKg	4		0.5	2.1	450	18.0	61	5	20	4	6	1.47	41	0.31	1	20	37	0.1	4.1	1.35	1.6	0.5	16.0	1	240.0	1.6	18.50	
104M15	925115	8	522717	6635158	10	6	lKg	31	8	2.6	27.0	1200	23.0	120	27	79	13	10	4.05	59	0.40	1	20	150	6.5	14.0	1.98	0.5	0.5	30.0	1	260.0	2.8	9.99	
104M15	925116	8	522717	6635158	20	6	lKg	21	34	2.0	19.0	900	22.0	64	28	78	9	9	3.70	47	0.57	1	20	170	8.0	12.0	1.68	0.5	0.5	28.0	1	310.0	2.8	11.40	
104M15	925117	8	522236	6633322		6	lKg	2		2.8	16.0	1300	11.0	180	11	79	14	22	4.85	94	0.77	1	20	160	8.2	13.0	3.70	4.3	0.5	60.0	15	96.0	4.1	8.35	
104M15	925118	8	518392	6629384		6	uTsv	15		11.0	41.0	850	16.0	54	12	200	20	5	5.50	29	0.44	1	20	86	4.4	22.0	1.18	1.4	0.5	9.1	1	3.6	2.6	10.52	
104M15	925119	8	518172	6630649		6	uTsv	2		7.5	23.0	1400	41.0	59	10	120	15	5	4.18	33	0.32	1	20	73	4.4	18.0	1.28	0.5	0.5	10.0	1	15.0	2.5	10.34	
104M15	925120	8	516992	6630188		6	uTsv	191	169	12.0	45.0	1300	6.1	57	9	280	34	6	8.28	27	0.39	3	20	85	4.7	25.0	1.41	0.5	0.5	6.5	4	2.6	2.8	11.76	
104M15	925122	8	516051	6631720		6	uTsv	25	32	16.0	200.0	1400	16.0	86	12	140	37	5	8.21	44	0.56	18	125	110	7.3	25.0	1.12	0.5	0.5	12.0	1	13.0	4.0	9.59	
104M14	925123	8	484107	6642423	10	6	KTg	2	2	0.1	0.5	1700	0.5	100	2	8	4	11	1.59	56	0.28	1	20	100	5.8	3.1	3.11	0.5	0.8	16.0	1	5.5	2.0	13.32	
104M14	925124	8	484107	6642423	20	6	KTg	2		0.1	2.5	1600	0.5	120	2	5	4	13	1.75	65	0.31	1	20	120	6.3	3.2	3.06	2.3	0.5	17.0	4	6.5	2.1	10.12	
104M14	925125	8	485794	6646153		1	Es	2		0.3	4.1	1200	0.5	66	3	12	5	6	2.20	39	0.19	1	20	71	4.4	6.5	2.28	0.5	0.5	18.0	1	5.7	1.2	5.47	
104M14	925126	8	486365	6647781		6	Es	2		1.0	4.9	2600	0.5	120	5	18	8	10	3.92	58	0.51	1	20	150	8.0	15.0	2.64	0.5	0.5	21.0	1	12.0	3.3	11.81	
104M14	925127	8	488617	6650860		6	Es	170	2	2.2	36.0	1800	0.5	110	3	25	12	12	4.22	60	0.53	1	128	82	7.3	13.0	2.90	0.5	0.5	18.0	1	5.7	3.5	12.91	
104M14	925128	8	483753	6648141		6	Es	8		0.9	12.0	1400	13.0	170	16	36	14	8	3.81	110	0.52	1	20	120	19.0	13.0	2.16	0.5	2.2	23.0	11	140.0	3.3	8.38	
104M14	925129	8	481701	6649262		6	Es	2		1.0	9.4	2000	5.9	110	7	21	8	12	4.51	51	0.54	1	20	140	7.6	15.0	2.15	0.5	0.5	22.0	6	12.0	3.5	11.84	
104M14	925130	8	480165	6649529		6	Es	2		0.5	6.8	1200	3.4	110	4	5	4	13	2.06	61	0.40	1	20	120	6.5	6.9	2.39	0.9	0.5	27.0	1	15.0	2.1	12.66	
104M14	925131	8	479034	6643309		6	KTg	2		0.1	1.7	1200	0.5	160	2	18	5	25	4.13	88	0.64	1	20	63	10.0	8.4	2.44	2.4	0.5	48.0	1	38.0	3.8	12.50	
104M14	925132	8	479808	6645931		6	KTg	2		0.6	11.0	1200	6.8	130	6	10	6	14	3.04	62	0.48	1	20	130	11.0	8.5	2.38	0.5	0.5	25.0	1	25.0	3.4	11.62	
104M14	925133	8	475650	6647678		6	eTg	2		0.3	0.5	430	0.6	89	4	5	2	14	1.05	40	1.29	1	20	170	8.6	2.0	3.00	1.6	1.7	36.0	1	14.0	8.9	11.88	
104M14	925134	8	476520	6647971		6	eTg	2		0.3	0.5	620	10.0	180	5	12	3	51	1.70	88	2.46	1	20	140	17.0	3.5	2.35	2.7	2.9	70.0	16	45.0	16.1	10.30	
104M14	925135	8	475228	6649430		6	eTg	2		0.4	12.0	900	8.2	72	7	14	4	11	2.65	49	0.48	1	120	84	8.8	8.1	1.86	0.5	1.6	21.0	1	32.0	2.6	9.97	
104M14	925136	8	474372	6649805		6	eTg	2		0.4	19.0	730	7.4	72	6	9	5	11	2.02	32	0.50	1	20	150	5.7	5.5	2.13	1.7	0.5	22.0	9	17.0	3.2	11.09	
104M13	925137	8	471053	6648753		6	eTg	2		0.3	12.0	320	0.5	74	2	5	1	18	0.69	32	1.23	1	20	200	7.1	0.7	2.57	1.4	1.4	53.0	10	20.0	8.6	13.73	
104M13	925138	8	469455	6650381		6	eTg	2		0.5	12.0	470	0.5	120	3	6	2	13	1.37	49	1.60	23	20	260	12.0	2.5	3.03	0.5	2.2	50.0	11	21.0	11.4	11.93	
104M14	925140	8	480880	6641034		6	KTg	5		0.4	4.5	1100	4.2	110	6	11	7	11	3.16	56	0.46	1	20	120	8.2	8.6	2.04	2.2	0.5	27.0	3	30.0	2.8	9.90	
104M14	925143	8	480431	6639942		6	KTg	2		0.1	0.5	1500	2.9	140	2	5	5	11	2.34	74	0.41	1	20	92	9.1	7.2	2.58	1.5	1.2	27.0	1	12.0	2.8	11.87	
104M14	925144	8	479944	6639505	10	6	KTg	2	2	0.1	0.5	1300	0.5	110	2	34	6	12	2.07	56	0.42	1	20	50	6.8	7.8	2.72	1.4	0.5	19.0	1	13.0	2.6	13.18	
104M14	925145	8	479944	6639505	20	6	KTg	2		0.1	0.5	1300	0.5	110	2	28	5	11	2.06	58	0.41	1	20	62	7.2	8.0	2.74	1.3	0.5	19.0	1	13.0	2.7	12.98	
104M14	925146	8	478910	6638440		6	KTg	2		0.1	0.5	1000	1.3	66	2	29	3	7	1.41	34	0.37	1	20	110	4.7	5.8	2.56	0.5	0.5	15.0	1	11.0	2.3	12.99	
104M14	925147	8	477194	6638107		6	KTg	2		0.1	0.5	530	0.5	78	3	26	4	15	2.32	35	0.93	1	65	130	8.0	5.9	2.12	1.0	0.5	23.0	5	14.0	6.4	12.85	
104M14	925148	8	474811	6639316		6	eTg	2		0.3	4.8	740	5.1	110	5	17	9	16	3.37	48	1.20	1	20	130	11.0	8.0	2.14	2.3	1.7	28.0	5	18.0	8.7	11.77	
104M14	925149	8	488620	6637682		6	KTg	2		0.1	0.5	1400	0.5	210	3	16	3	17	4.04	120	0.42	1	20	110	11.0	4.0	2.50	1.2	0.5	46.0	1	14.0	2.8	13.57	

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M14	925150	8	484793	6638776	1280		6	KTg	2	3	T	N	N	220	7.0	125	A	N	S	S	M	D	P	1	M	0508
104M14	925151	8	485300	6639028	1280		6	KTg	0	3	T	N	N	220	5.0	100	A	N	S	S	M	D	P	2	M	0508
104M14	925152	8	490009	6633742	1120		6	eTg	2	3	T	N	N	220	5.0	75	C	N	S	S	M	D	P	1	M	0508
104M14	925153	8	487455	6632473	1300		6	eTg	0	3	T	N	N	311	10.0	200	A	N	S	S	M	D	P	1	M	0508
104M14	925154	8	485886	6634464	820		6	eTg	0	3	T	N	N	121	4.0	125	A	N	S	S	M	D	P	1	M	0508
104M14	925155	8	483938	6632978	900		6	eTg	0	2	T	N	N	221	2.0	100	A	N	S	M	M	D	P	1	G	0508
104M14	925156	8	482357	6631037	940		6	eTg	0	4	T	N	N	220	3.0	100	A	N	S	S	M	D	P	1	M	0508
104M14	925157	8	481883	6632554	850		6	Qal	0	2	T	R	N	220	3.0	100	A	N	S	S	M	D	P	2	M	0508
104M14	925158	8	479449	6632552	950		6	KTg	0	3	T	N	N	121	4.0	100	A	N	S	S	M	D	P	3	G	0508
104M14	925159	8	478545	6631838	940		6	KTg	2	3	G	N	N	230	9.0	150	A	N	B	S	M	D	P	3	M	0508
104M14	925160	8	481423	6629444	940		6	eTg	2	2	G	R	N	120	3.0	150	O	N	S	S	M	D	P	2	M	0508
104M14	925162	8	478836	6626826	940		6	eTg	0	2	G	N	N	120	35.0	50	A	N	S	B	M	D	P	1	M	0508
104M14	925163	8	480282	6628073	950		6	eTg	0	2	G	N	N	220	4.5	90	O	N	S	M	M	D	P	1	M	0508
104M14	925164	8	486240	6629383	1060		6	eTg	2	3	G	N	N	230	10.0	100	A	N	S	S	M	D	P	1	M	0508
104M14	925165	8	486752	6629127	1030		6	eTg	2	3	G	N	N	220	2.0	100	A	N	S	M	M	D	P	1	M	0508
104M14	925166	8	488257	6629406	1000		6	eTg	0	2	T	N	N	311	2.0	75	A	N	B	S	M	D	P	1	M	0508
104M14	925167	8	487362	6629889	1050		6	eTg	0	3	T	N	N	311	10.0	200	C	N	B	S	M	D	P	1	M	0508
104M14	925168	8	488928	6628305	1000		6	eTg	0	2	G	N	N	310	3.0	75	A	B	S	S	M	D	P	1	M	0508
104M14	925169	8	489172	6628835	1000		6	eTg	0	3	T	N	N	310	10.0	100	C	N	B	S	M	D	P	2	M	0508
104M14	925170	8	488014	6624708	840		6	eTg	2	2	G	N	N	210	10.0	100	A	N	S	S	M	D	P	1	M	0508
104M14	925171	8	491340	6626073	920		6	eTg	0	3	T	N	N	113	5.0	100	A	N	S	S	M	D	P	1	G	0508
104M14	925172	8	489263	6626380	800		6	eTg	0	3	T	N	N	221	2.0	100	O	N	S	S	M	D	P	1	G	0508
104M08	925173	8	554814	6577060	700		6	lJLg	0	3	O	N	N	320	4.0	150	A	N	S	M	M	D	P	3	G	0608
104M08	925175	8	556404	6570139	670		6	uTsv	0	1	G	N	N	311	2.0	100	A	N	S	S	M	D	P	1	G	0608
104M08	925176	8	553698	6568960	980		6	lTgd	0	3	T	N	N	221	4.0	100	A	N	S	S	M	D	P	3	G	0608
104M08	925177	8	548426	6570360	680		6	Kg	0	3	G	N	N	311	4.0	100	A	N	S	S	M	D	P	3	M	0608
104M08	925178	8	542852	6568209	880	10	6	PPgn	0	2	T	T	N	031	2.0	50	A	N	S	S	M	D	P	2	M	0608
104M08	925179	8	542852	6568209	880	20	6	PPgn	0	2	T	T	N	031	2.0	50	A	N	S	S	M	D	P	2	M	0608
104M08	925180	8	532730	6579391	1400		6	Kg	2	3	T	N	N	310	7.0	110	A	N	S	S	M	D	P	3	M	0608
104M08	925182	8	530733	6586410	990	10	6	Kg	0	2	G	N	N	221	3.0	50	O	N	S	S	M	D	P	2	M	0608
104M08	925183	8	530733	6586410	990	20	6	Kg	0	2	G	N	N	221	3.0	50	O	N	S	S	M	D	P	2	M	0608
104M08	925184	8	530429	6584588	700		6	Kg	0	3	G	N	N	320	4.0	250	A	N	S	S	M	D	P	2	M	0608
104M08	925185	8	529688	6584213	725		6	Kg	0	4	T	N	N	310	9.0	300	C	N	B	S	M	D	P	2	M	0608
104M08	925186	8	532751	6584607	1030		6	Kg	0	4	T	N	N	221	5.0	200	R	R	B	S	M	D	P	1	M	0608
104M08	925187	8	535211	6585531	900		6	Kg	0	2	G	N	N	131	4.0	100	A	N	S	B	M	D	P	2	M	0608
104M08	925188	8	536051	6588578	1050		6	Kg	0	3	T	N	N	311	4.0	200	C	N	S	S	M	D	P	1	G	0608
104M08	925189	8	533946	6585470	920		6	Kg	0	3	G	N	N	221	5.0	100	A	N	S	S	M	D	P	2	M	0608
104M08	925190	8	537210	6588524	1125		6	Kg	0	3	T	N	N	130	1.0	150	A	N	B	S	M	D	P	1	G	0608
104M08	925191	8	539096	6590409	1090		6	eJgd	0	3	T	N	N	131	9.0	200	C	N	B	D	M	D	P	1	M	0608
104M08	925192	8	534275	6593421	1460		6	eJgd	2	3	T	N	N	220	10.0	100	A	N	S	S	M	D	P	2	M	0608

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Water				Stream Sediment													
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
	SAMPLE	UTM	UTM	UTM			ppb	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	ION	LIF	TURB	GCE	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M14	925150	8	484793	6638776		6	KTg	220	0.12	0.5	7.0	0.2	0.3	0.2	0.2	2	3	310	0.70	7	131	10	2	2	0.2	12	35	0.9	
104M14	925151	8	485300	6639028		6	KTg	160	0.30	1.0	7.2	0.2	2.6	0.2	0.3	4	5	540	1.60	20	494	10	2	2	0.2	23	82	4.5	
104M14	925152	8	490009	6633742		6	eTg	150	0.71	0.8	7.4	0.2	0.3	0.2	0.2	2	2	160	0.55	4	121	10	1	2	0.2	5	24	0.5	
104M14	925153	8	487455	6632473		6	eTg	110	0.31	0.3	7.1	0.2	0.3	0.2	0.2	2	2	270	0.85	6	111	10	1	2	0.2	20	29	1.0	
104M14	925154	8	485886	6634464		6	eTg	80	0.52	0.5	7.2	0.2	0.5	0.2	0.2	5	5	430	1.60	11	312	10	4	3	0.2	29	62	4.9	
104M14	925155	8	483938	6632978		6	eTg	70	0.35	0.3	7.4	0.2	0.4	0.2	0.2	4	4	370	1.40	10	238	10	2	3	0.2	22	56	2.5	
104M14	925156	8	482357	6631037		6	eTg	50	0.57	0.3	7.2	0.2	0.8	0.2	0.2	7	6	560	2.20	16	353	10	2	5	0.2	42	81	3.8	
104M14	925157	8	481883	6632554		6	Qal	50	0.16	0.2	6.7	0.2	0.6	0.2	0.3	6	6	430	2.20	18	466	10	5	3	0.2	26	55	5.6	
104M14	925158	8	479449	6632552		6	KTg	360	0.68	0.8	6.9	0.2	0.5	0.2	0.3	3	7	340	0.70	15	128	10	2	2	0.2	21	63	1.1	
104M14	925159	8	478545	6631838		6	KTg	110	0.05	0.4	6.4	0.2	0.5	0.2	0.4	2	6	510	0.60	9	105	10	1	2	0.4	17	45	0.4	
104M14	925160	8	481423	6629444		6	eTg	50	0.23	0.3	6.7	0.2	0.5	0.2	0.2	3	5	310	0.95	9	136	10	2	3	0.2	22	43	0.4	
104M14	925162	8	478836	6626826		6	eTg	130	0.05	2.2	6.7	0.2	4.9	0.3	2.8	3	52	450	1.70	107	280	10	5	2	1.0	10	386	1.0	
104M14	925163	8	480282	6628073		6	eTg	210	0.05	1.1	7.0	0.2	1.3	0.3	1.1	5	13	480	1.50	32	215	10	7	2	0.3	32	152	2.3	
104M14	925164	8	486240	6629383		6	eTg	80	0.14	0.6	7.0	0.2	0.6	0.2	0.2	3	6	330	0.80	3	88	10	1	2	0.3	20	28	0.6	
104M14	925165	8	486752	6629127		6	eTg	40	0.17	0.3	6.8	0.2	0.2	0.2	0.2	2	5	170	0.75	3	112	10	1	2	0.2	11	18	0.5	
104M14	925166	8	488257	6629406		6	eTg	70	0.16	0.3	6.9	0.2	0.6	0.2	0.2	4	4	460	2.50	9	250	10	6	2	0.3	39	62	9.1	
104M14	925167	8	487362	6629889		6	eTg	60	0.15	0.3	6.9	0.2	0.6	0.2	0.2	5	4	460	2.00	10	385	10	2	2	0.2	28	94	3.5	
104M14	925168	8	488928	6628305		6	eTg	50	0.27	0.8	7.0	0.2	0.3	0.2	0.2	4	5	390	1.30	6	202	10	2	2	0.2	23	48	1.3	
104M14	925169	8	489172	6628835		6	eTg	70	0.05	0.3	6.8	0.2	2.6	0.2	0.2	6	7	560	1.40	9	330	10	2	4	0.2	19	66	2.2	
104M14	925170	8	488014	6624708		6	eTg	50	0.13	0.8	6.9	0.2	1.4	0.2	0.2	5	5	470	1.40	2	132	10	1	3	0.2	37	34	0.9	
104M14	925171	8	491340	6626073		6	eTg	80	0.27	0.3	6.5	0.2	2.0	0.2	0.8	2	8	340	0.85	20	400	40	9	2	0.2	14	75	14.2	
104M14	925172	8	489263	6626380		6	eTg	50	0.50	0.6	6.8	0.2	0.2	0.2	0.2	2	4	270	0.90	10	135	20	4	3	0.2	21	34	11.9	
104M08	925173	8	554814	6577060		6	lJLg	60	0.19	0.6	7.0	1.0	5.2	0.2	0.2	5	13	310	1.50	7	134	10	3	6	0.2	31	41	2.4	
104M08	925175	8	556404	6570139		6	uTsv	90	0.39	5.9	7.6	1.8	5.4	0.2	0.2	17	89	240	3.20	4	707	50	2	30	0.2	84	66	13.9	
104M08	925176	8	553698	6568960		6	lTgd	70	0.29	3.4	7.2	1.9	5.8	0.2	0.2	7	12	470	1.10	4	163	80	2	15	0.2	25	36	2.5	
104M08	925177	8	548426	6570360		6	Kg	80	0.17	2.9	7.6	0.6	11.0	0.2	0.5	7	21	380	1.60	11	312	10	3	17	0.3	38	63	4.0	
104M08	925178	8	542852	6568209	10	6	PPgn	110	0.63	19.0	8.1	0.6	4.9	0.2	0.2	20	36	650	4.00	10	464	10	4	34	0.3	90	110	3.7	
104M08	925179	8	542852	6568209	20	6	PPgn	140	0.73	19.0	8.1	0.7	4.0	0.2	0.2	22	40	590	4.60	11	493	10	4	36	0.2	100	115	2.9	
104M08	925180	8	532730	6579391		6	Kg	140	0.31	0.9	7.1	0.2	4.6	0.4	0.5	4	10	430	1.30	20	288	10	4	3	0.2	12	60	1.5	
104M08	925182	8	530733	6586410	10	6	Kg	50	0.85	9.5	7.0	0.2	0.4	0.2	0.3	6	16	510	1.40	18	196	10	3	8	0.3	43	49	4.3	
104M08	925183	8	530733	6586410	20	6	Kg	40	0.69	9.4	7.0	0.2	0.5	0.2	0.3	7	18	520	1.40	19	222	10	4	9	0.2	42	53	4.8	
104M08	925184	8	530429	6584588		6	Kg	60	0.13	0.1	6.6	0.2	4.0	0.4	1.3	2	16	320	1.30	44	312	10	2	2	0.2	15	124	2.3	
104M08	925185	8	529688	6584213		6	Kg	140	0.33	0.5	6.7	0.2	16.0	1.9	0.4	2	26	530	1.60	17	303	10	3	2	0.2	16	65	1.6	
104M08	925186	8	532751	6584607		6	Kg	170	0.45	0.1	6.7	0.2	7.2	1.0	0.2	2	3	420	1.60	15	314	10	3	2	0.2	16	57	2.2	
104M08	925187	8	535211	6585531		6	Kg	280	0.82	0.3	6.8	0.2	7.5	1.2	0.4	2	4	490	1.50	20	363	10	4	2	0.2	15	62	2.8	
104M08	925188	8	536051	6588578		6	Kg	130	19.40	3.6	7.6	0.2	3.8	0.2	0.2	2	3	340	0.95	14	441	10	4	3	0.2	20	39	2.1	
104M08	925189	8	533946	6585470		6	Kg	300	2.50	2.9	7.2	0.2	3.4	0.4	0.3	2	6	310	0.85	12	202	10	2	3	0.2	14	43	0.8	
104M08	925190	8	537210	6588524		6	Kg	70	0.05	0.5	7.0	1.9	3.7	5.7	0.4	9	62	710	2.00	24	1100	40	45	9	0.2	36	95	2.9	
104M08	925191	8	539096	6590409		6	eJgd	90	1.00	92.0	7.8	10.5	200.0	3.6	2.5	43	114	550	7.20	65	1650	70	7	62	0.7	96	268	16.5	
104M08	925192	8	534275	6593421		6	eJgd	50	1.00	1.0	7.0	0.2	1.5	0.5	0.2	2	4	180	0.35	7	165	10	1	2	0.2	7	13	0.6	

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Stream Sediment																							
							Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	:D.L.
							2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:Unit
MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g	:Mthd
104M14	925150	8	484793	6638776		6	KTg	2		0.1	0.5	1400	0.5	110	2	5	1	11	1.91	60	0.30	1	20	110	6.2	2.8	2.89	1.2	0.5	27.0	1	9.9	1.9	13.77	
104M14	925151	8	485300	6639028		6	KTg	2		0.5	3.4	1500	5.8	130	5	8	5	8	2.51	68	0.44	1	20	140	8.6	6.4	2.60	0.5	0.5	28.0	1	22.0	2.6	11.04	
104M14	925152	8	490009	6633742		6	eTg	2		0.1	0.5	1400	0.5	83	2	11	1	9	1.31	44	0.24	1	20	110	4.3	2.0	2.75	0.9	0.5	20.0	1	23.0	1.5	13.82	
104M14	925153	8	487455	6632473		6	eTg	2		0.1	1.4	1400	2.0	240	1	25	5	22	6.08	140	0.51	1	20	100	12.0	4.8	2.57	3.4	0.5	50.0	1	20.0	3.3	10.04	
104M14	925154	8	485886	6634464		6	eTg	2		0.3	2.0	1400	3.5	91	3	15	5	7	2.38	48	0.33	1	20	77	5.9	6.8	2.58	0.5	0.5	16.0	1	19.0	1.5	11.75	
104M14	925155	8	483938	6632978		6	eTg	2		0.1	0.5	1200	0.5	88	2	15	4	14	2.25	43	0.31	1	20	86	5.8	6.9	2.67	1.4	0.5	16.0	1	10.0	2.2	12.64	
104M14	925156	8	482357	6631037		6	eTg	6		0.3	0.5	1400	3.4	89	5	20	8	11	3.48	45	0.44	1	20	81	6.5	12.0	2.36	0.5	0.5	19.0	1	27.0	2.2	11.63	
104M14	925157	8	481883	6632554		6	Qal	2		0.1	0.5	1100	5.2	83	4	21	7	14	2.92	40	0.58	1	20	78	6.6	8.3	2.41	1.6	0.5	20.0	1	22.0	3.9	11.03	
104M14	925158	8	479449	6632552		6	KTg	2		0.1	0.5	970	0.5	120	2	18	6	23	2.28	60	0.61	1	20	77	8.2	8.1	2.62	1.5	0.5	27.0	8	19.0	3.6	12.77	
104M14	925159	8	478545	6631838		6	KTg	2		0.3	0.5	1100	0.5	150	1	21	5	14	2.27	85	0.39	1	20	92	9.5	9.2	2.62	0.6	1.6	36.0	1	4.9	2.5	10.64	
104M14	925160	8	481423	6629444		6	eTg	2		0.1	0.5	1200	0.5	85	3	13	4	8	2.00	44	0.38	1	20	85	6.2	8.1	2.86	0.5	0.5	19.0	1	10.0	2.6	12.84	
104M14	925162	8	478836	6626826		6	eTg	7		0.3	3.6	1100	0.5	88	3	5	2	10	2.66	46	0.45	4	20	110	5.3	7.7	2.91	0.5	0.5	12.0	1	3.3	2.5	13.78	
104M14	925163	8	480282	6628073		6	eTg	2		0.1	1.8	1200	0.5	96	2	13	7	10	3.44	54	0.39	6	20	71	6.6	12.0	2.68	1.4	0.5	15.0	1	3.1	2.3	12.66	
104M14	925164	8	486240	6629383		6	eTg	2		0.2	1.5	1200	0.5	72	2	9	6	8	2.80	41	0.37	1	20	71	4.9	10.0	2.95	0.5	0.5	12.0	1	2.3	2.1	12.63	
104M14	925165	8	486752	6629127		6	eTg	2		0.1	0.5	1100	0.5	200	1	22	4	25	4.00	120	0.73	1	20	97	9.5	6.2	3.01	3.2	0.5	40.0	1	10.0	3.8	11.17	
104M14	925166	8	488257	6629406		6	eTg	2		0.2	0.5	1100	5.5	94	4	13	6	14	3.68	61	0.34	7	20	130	6.1	7.6	2.66	0.5	0.5	22.0	1	11.0	1.8	9.91	
104M14	925167	8	487362	6629889		6	eTg	2		0.2	0.5	1200	16.0	98	5	16	6	8	3.49	52	0.15	1	20	82	7.2	9.9	2.62	1.5	0.5	22.0	1	34.0	1.6	10.49	
104M14	925168	8	488928	6628305		6	eTg	2		0.1	0.5	1200	3.5	77	2	12	6	10	2.56	46	0.36	1	20	83	5.3	8.4	2.79	0.9	0.5	17.0	1	12.0	1.9	12.46	
104M14	925169	8	489172	6628835		6	eTg	2		0.3	3.1	1100	2.8	120	3	19	5	11	3.33	70	0.33	1	20	110	6.0	5.4	2.56	1.3	0.5	29.0	1	9.4	1.9	12.43	
104M14	925170	8	488014	6624708		6	eTg	11		0.3	0.5	1100	0.5	120	1	29	10	23	5.83	69	0.88	6	20	66	7.9	18.0	2.77	1.6	1.7	22.0	1	8.7	4.7	13.55	
104M14	925171	8	491340	6626073		6	eTg	2		0.4	2.8	950	46.0	97	3	8	4	7	1.69	74	0.68	19	20	72	11.0	4.5	2.13	0.5	0.5	15.0	1	37.0	3.1	9.18	
104M14	925172	8	489263	6626380		6	eTg	2		0.1	0.5	1100	11.0	72	2	9	3	8	1.48	44	0.15	1	20	91	5.0	4.6	2.48	0.5	0.5	10.0	1	23.0	1.4	9.65	
104M08	925173	8	554814	6577060		6	lJLg	13		2.2	6.6	1400	0.5	58	3	41	8	9	4.72	31	0.46	1	20	92	4.2	12.0	2.89	1.1	0.5	7.8	1	5.0	2.4	13.11	
104M08	925175	8	556404	6570139		6	uTsv	30	9	5.1	12.0	1000	8.3	33	4	220	18	3	6.08	18	0.28	1	20	59	3.3	21.0	1.98	0.5	0.5	2.2	1	1.1	1.3	9.87	
104M08	925176	8	553698	6568960		6	lTgd	6		6.3	12.0	1400	0.5	55	4	210	10	7	4.18	29	0.25	3	20	89	4.1	9.6	3.42	0.5	0.5	5.3	1	4.7	1.4	12.41	
104M08	925177	8	548426	6570360		6	Kg	2		0.9	12.0	1600	7.1	67	2	61	10	7	3.21	37	0.44	3	20	33	5.0	8.6	1.03	0.7	0.5	8.4	1	3.5	2.6	11.82	
104M08	925178	8	542852	6568209	10	6	PPgn	4	2	0.9	4.9	540	0.5	110	3	83	21	7	5.79	55	0.48	2	20	100	7.1	16.0	0.60	0.5	0.5	13.0	1	2.3	2.9	11.14	
104M08	925179	8	542852	6568209	20	6	PPgn	9		0.7	4.6	530	0.5	100	2	93	22	7	5.95	56	0.56	1	20	130	7.3	17.0	0.60	1.6	0.5	13.0	1	3.3	3.0	10.83	
104M08	925180	8	532730	6579391		6	Kg	5		0.3	5.0	1400	0.5	98	2	7	3	11	2.25	54	0.64	7	20	90	5.3	6.1	3.00	1.2	1.1	17.0	1	8.3	3.4	12.98	
104M08	925182	8	530733	6586410	10	6	Kg	5	2	0.1	2.1	1000	0.5	97	2	22	10	7	3.52	57	0.56	1	20	63	5.9	13.0	2.77	1.2	0.5	16.0	1	28.0	2.2	11.48	
104M08	925183	8	530733	6586410	20	6	Kg	3		0.4	2.1	1000	3.8	100	1	16	13	8	3.61	58	0.51	1	20	56	6.2	13.0	2.82	1.7	0.5	16.0	1	31.0	2.7	11.22	
104M08	925184	8	530429	6584588		6	Kg	2		0.1	3.5	1200	0.5	160	4	5	2	16	2.77	91	0.89	1	20	130	7.4	4.5	2.86	0.5	0.5	31.0	1	12.0	4.6	12.67	
104M08	925185	8	529688	6584213		6	Kg	2		0.4	12.0	1200	0.5	150	4	5	4	15	2.80	84	0.97	1	20	120	8.1	6.4	3.15	0.5	1.3	33.0	1	11.0	5.3	12.03	
104M08	925186	8	532751	6584607		6	Kg	2		0.1	6.1	890	0.5	140	4	5	2	12	2.07	81	0.99	1	20	160	7.1	2.9	3.22	1.8	0.5	38.0	7	23.0	5.3	11.56	
104M08	925187	8	535211	6585531		6	Kg	2		0.5	7.3	820	3.1	91	4	10	3	8	1.90	52	0.65	1	20	130	5.0	3.5	3.04	0.5	0.5	27.0	1	19.0	3.6	11.48	
104M08	925188	8	536051	6588578		6	Kg	2		1.1	2.9	730	0.5	91	4	8	3	8	1.74	54	0.63	1	20	120	4.6	4.4	2.94	2.3	0.5	46.0	1	23.0	3.1	12.09	
104M08	925189	8	533946	6585470		6	Kg	2		0.7	3.1	1300	0.5	92	2	14	3	12	1.97	51	0.61	1	20	90	5.0	5.7	2.97	1.0	0.5	18.0	1	7.1	3.3	13.36	
104M08	925190	8	537210	6588524		6	Kg	2		2.7	3.9	670	0.5	62	5	38	13	4	3.60	32	0.55	43	20	180	4.2	14.0	2.81	1.4	1.0	26.0	20	9.6	3.1	9.60	
104M08	925191	8	539096	6590409		6	eJgd	30	12	11.0	190.0	940	64.0	110	16	140	45	4	7.90	55	0.62	11	20	120	8.0	21.0	0.94	0.5	1.2	14.0	1	15.0	3.5	7.89	
104M08	925192	8	534275	6593421		6	eJgd	4		0.6	0.5	720	0.5	98	1	14	2	6	1.12	56	0.63	1	20	140	5.0	3.0	3.20	4.1	0.5	40.0	5	14.0	3.5	10.02	

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M08	925193	8	534247	6593035	1430		6	eJgd	2	3	T	G	N	120	15.0	150	A	N	S	S	M	D	P	3	M	0608
104M09	925194	8	554830	6606117	760		6	Qal	0	2	G	N	N	131	2.0	100	O	N	S	M	M	D	P	2	G	0608
104M09	925195	8	546631	6604190	1000		6	lJLg	0	2	T	N	N	014	1.0	75	O	N	O	M	M	D	P	2	G	0608
104M09	925197	8	550738	6600139	1200		6	Qal	0	3	T	N	N	023	2.0	100	O	N	S	M	M	D	P	3	G	0608
104M09	925198	8	550131	6601172	1150		6	Qal	0	2	T	N	N	122	2.0	150	O	N	S	S	M	D	P	2	G	0608
104M09	925199	8	549348	6597462	1290		6	lJLg	0	2	T	N	N	032	2.0	25	O	N	S	M	M	D	P	2	G	0608
104M08	925200	8	549853	6594080	1410		6	lKgd	0	3	T	N	N	122	3.0	101	A	N	S	S	M	D	P	2	G	0608
104M08	925202	8	549998	6591975	1450		6	lJLg	0	4	T	N	N	221	2.0	125	A	N	S	S	M	D	P	3	G	0608
104M08	925203	8	549785	6591585	1450		6	lJLg	0	3	T	N	N	221	7.0	125	A	N	S	S	M	D	P	3	G	0608
104M08	925204	8	546538	6590298	1010		6	Qal	0	3	T	N	N	122	2.0	150	A	N	S	S	M	D	P	2	G	0608
104M08	925205	8	544178	6581908	1050		6	eJgd	2	3	G	N	N	310	15.0	100	A	N	S	S	M	D	P	3	M	0608
104M08	925206	8	541268	6581433	1375	10	6	eJgd	2	3	G	N	N	210	11.0	100	A	N	S	S	M	D	P	2	M	0608
104M08	925207	8	541268	6581433	1375	20	6	eJgd	2	3	G	N	N	210	11.0	100	A	N	S	S	M	D	P	2	M	0608
104M08	925208	8	543716	6580060	1400		6	eJh	0	4	T	N	N	311	7.0	150	A	N	B	S	M	D	P	3	M	0608
104M08	925210	8	543328	6580095	1390		6	eJh	2	4	T	N	N	220	10.0	200	A	N	B	B	M	D	P	3	M	0608
104M08	925211	8	545687	6576190	1300		6	PPmb	0	3	T	N	N	310	3.0	150	C	N	S	S	M	D	P	2	M	0608
104M08	925212	8	550097	6580710	1250		6	uTsv	0	3	G	N	N	122	7.0	150	A	N	S	S	M	D	P	2	M	0608
104M08	925213	8	550858	6580157	1190		6	lKgd	0	3	G	N	N	212	9.0	50	A	N	S	S	M	D	P	2	M	0608
104M08	925214	8	553079	6583209	1030		6	lJLg	0	3	T	N	N	122	12.0	75	A	N	S	S	M	D	P	2	G	0608
104M08	925215	8	554923	6584795	1300		6	lKgd	0	3	T	N	N	310	10.0	75	A	N	S	B	M	D	P	2	M	0608
104M09	925216	8	535721	6617468	1350		6	lJLg	0	2	T	N	N	122	7.0	100	A	N	S	S	M	D	P	2	G	0708
104M09	925217	8	541726	6616137	1000		6	lJLg	0	3	G	N	N	221	7.0	100	A	N	S	S	M	D	P	3	G	0708
104M09	925218	8	541922	6620797	675		6	lJLg	0	3	G	N	N	212	7.0	100	A	N	S	S	M	D	P	3	G	0708
104M09	925219	8	541359	6623478	700		6	lJLg	0	3	G	N	N	131	1.0	100	A	N	S	S	M	D	P	2	G	0708
104M16	925220	8	539735	6627409	700		6	lJLg	0	3	G	N	N	022	1.0	50	O	N	S	M	M	D	P	2	G	0708
104M16	925222	8	534822	6626725	730	10	6	lKg	0	2	T	N	N	221	1.0	100	A	N	S	M	M	D	P	2	G	0708
104M16	925223	8	534822	6626725	730	20	6	lKg	0	2	T	N	N	221	1.0	100	A	N	S	M	M	D	P	2	G	0708
104M16	925224	8	533632	6625958	760		6	lKg	0	3	T	N	N	221	2.0	100	A	N	S	S	M	D	P	2	G	0708
104M16	925225	8	531460	6624686	765		6	lKg	0	3	G	N	N	311	2.0	100	A	N	S	S	M	D	P	2	G	0708
104M16	925226	8	529926	6624049	775		6	lJLa	0	3	G	N	N	221	9.0	150	C	N	S	S	M	D	P	2	G	0708
104M10	925227	8	525161	6619054	1060		6	uTs	0	3	G	N	N	131	2.0	100	O	N	S	S	M	D	P	2	G	0708
104M10	925228	8	522489	6619039	1200		6	PPmb	2	3	G	N	N	022	12.0	100	O	N	B	B	M	D	P	3	G	0708
104M10	925229	8	522464	6622220	860		6	uTsv	0	2	T	N	N	311	11.0	150	R	N	S	S	M	D	P	2	G	0708
104M10	925230	8	520608	6623504	875		6	PPmb	0	3	T	N	N	221	4.0	100	S	N	B	S	M	D	P	2	G	0708
104M15	925231	8	518542	6624143	1400		6	PPmb	0	2	T	N	N	131	15.0	100	T	N	B	B	M	D	P	2	G	0708
104M15	925232	8	517954	6627574	1210		6	uTsv	0	3	T	N	N	311	9.0	125	C	N	S	S	M	D	P	1	G	0708
104M15	925233	8	516057	6626102	920		6	PPmb	0	3	T	N	N	212	3.0	150	R	N	B	S	M	D	P	1	G	0708
104M15	925234	8	500845	6625128	1100		6	lKg	0	2	G	R	N	221	1.0	75	O	N	S	M	M	D	P	1	G	0708
104M14	925235	8	498469	6625472	880		6	eTg	0	3	T	N	N	212	13.0	100	C	N	S	S	M	D	P	2	G	0708
104M14	925237	8	495668	6628992	680		6	eTg	0	2	T	N	N	221	1.0	75	O	N	S	S	M	D	P	2	G	0708

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Water				Stream Sediment													
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
	SAMPLE	UTM	UTM	UTM			ppb	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	ION	LIF	TURB	GCE	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M08	925193	8	534247	6593035		6	eJgd	40	2.70	1.0	7.1	0.2	0.3	0.2	0.2	2	3	130	0.45	6	83	10	2	2	0.2	11	10	0.3	
104M09	925194	8	554830	6606117		6	Qal	50	0.41	28.0	7.9	0.8	9.0	0.2	0.2	8	19	300	2.30	5	216	20	2	15	0.2	54	61	3.6	
104M09	925195	8	546631	6604190		6	lJLg	40	0.05	10.0	7.3	3.1	75.0	0.3	1.1	9	34	270	4.00	9	1340	100	3	18	0.7	48	118	32.7	
104M09	925197	8	550738	6600139		6	Qal	40	0.05	6.5	7.3	1.6	31.0	0.2	0.3	8	19	250	2.70	15	508	30	3	13	0.2	57	82	9.8	
104M09	925198	8	550131	6601172		6	Qal	50	0.05	3.4	7.3	1.9	15.0	0.2	0.3	7	16	350	2.20	13	396	30	3	11	0.2	58	67	8.5	
104M09	925199	8	549348	6597462		6	lJLg	40	0.05	9.6	7.2	2.3	74.0	0.7	0.4	11	31	310	3.20	34	436	20	3	15	0.3	59	105	6.8	
104M08	925200	8	549853	6594080		6	lKgd	30	0.05	23.0	7.5	2.6	73.0	0.2	0.5	13	33	340	4.30	36	675	80	2	17	0.4	66	112	15.5	
104M08	925202	8	549998	6591975		6	lJLg	40	0.05	12.0	7.3	4.2	81.0	0.4	0.7	15	43	320	3.80	26	569	40	3	27	0.2	88	159	7.2	
104M08	925203	8	549785	6591585		6	lJLg	40	0.05	15.0	7.4	3.2	33.0	0.2	0.6	12	38	290	3.20	14	452	20	3	26	0.2	43	113	3.3	
104M08	925204	8	546538	6590298		6	Qal	100	0.05	3.2	7.3	1.4	26.0	0.2	0.5	9	20	370	3.70	40	870	30	2	8	0.3	40	107	6.7	
104M08	925205	8	544178	6581908		6	eJgd	50	0.05	4.1	7.1	0.9	6.7	0.2	0.2	8	15	270	1.80	11	194	10	2	6	0.2	41	48	1.1	
104M08	925206	8	541268	6581433	10	6	eJgd	40	0.05	6.6	7.4	0.9	7.1	0.3	0.3	7	17	210	2.10	12	193	10	1	5	0.2	43	46	1.1	
104M08	925207	8	541268	6581433	20	6	eJgd	40	0.05	6.7	7.4	1.1	7.0	0.4	0.2	8	19	260	1.90	12	169	10	2	6	0.2	41	47	1.1	
104M08	925208	8	543716	6580060		6	eJh	40	0.05	2.4	7.1	1.0	5.6	0.2	0.2	11	18	480	2.40	6	347	10	1	7	0.2	57	59	3.0	
104M08	925210	8	543328	6580095		6	eJh	100	0.13	4.5	7.2	0.5	11.0	0.2	0.4	2	17	340	1.10	14	118	10	1	3	0.2	19	38	60.6	
104M08	925211	8	545687	6576190		6	PPmb	30	0.08	6.8	7.4	1.1	16.0	0.2	0.4	13	32	460	3.10	23	633	40	1	22	0.2	60	95	4.3	
104M08	925212	8	550097	6580710		6	uTsv	60	0.21	0.5	7.1	4.2	54.0	0.3	0.3	11	30	660	2.40	18	310	30	3	16	0.3	58	67	6.3	
104M08	925213	8	550858	6580157		6	lKgd	50	0.06	3.3	7.0	3.2	34.0	0.2	1.0	21	73	450	4.40	11	480	20	6	54	0.2	54	152	6.5	
104M08	925214	8	553079	6583209		6	lJLg	40	0.05	4.9	7.2	1.0	12.0	0.2	0.2	16	32	420	3.30	7	333	10	1	22	0.2	72	65	5.1	
104M08	925215	8	554923	6584795		6	lKgd	40	0.05	3.3	7.1	1.5	15.0	0.3	0.2	10	21	390	2.40	12	296	20	1	16	0.2	47	49	5.3	
104M09	925216	8	535721	6617468		6	lJLg	40	0.05	12.0	7.6	1.4	50.0	0.4	0.4	22	108	300	5.00	8	665	30	5	31	0.2	117	102	19.0	
104M09	925217	8	541726	6616137		6	lJLg	30	0.05	12.0	7.6	1.7	22.0	0.2	0.2	12	38	270	2.90	9	319	20	4	27	0.2	65	70	9.4	
104M09	925218	8	541922	6620797		6	lJLg	40	0.05	7.8	7.8	1.3	28.0	0.5	0.2	12	42	290	3.10	7	270	20	3	22	0.2	76	63	5.7	
104M09	925219	8	541359	6623478		6	lJLg	50	0.97	17.0	8.0	1.5	7.8	0.2	0.2	11	29	270	2.40	6	298	10	1	25	0.2	57	54	6.4	
104M16	925220	8	539735	6627409		6	lJLg	50	2.38	5.3	7.8	1.7	39.0	0.2	0.2	11	52	320	2.00	9	220	20	3	33	0.2	53	66	11.8	
104M16	925222	8	534822	6626725	10	6	lKg	30	0.60	0.6	7.1	0.2	4.4	0.4	0.2	4	12	340	1.10	6	153	10	6	7	0.2	35	30	3.1	
104M16	925223	8	534822	6626725	20	6	lKg	30	0.60	0.6	7.1	0.2	4.3	0.3	0.2	4	11	290	1.20	7	144	10	5	7	0.2	31	29	2.9	
104M16	925224	8	533632	6625958		6	lKg	30	3.20	0.8	7.3	0.2	4.5	0.2	0.2	6	14	450	1.50	9	287	20	4	9	0.2	40	46	7.5	
104M16	925225	8	531460	6624686		6	lKg	30	0.29	2.6	7.1	0.7	29.0	0.2	0.2	9	23	370	2.00	10	274	10	2	10	0.2	56	63	5.6	
104M16	925226	8	529926	6624049		6	lJLa	30	0.05	34.0	7.6	5.0	90.0	0.5	0.8	29	130	350	5.70	13	619	20	5	54	0.4	125	177	6.8	
104M10	925227	8	525161	6619054		6	uTs	30	0.05	7.1	7.5	7.0	88.0	0.3	0.5	14	36	360	3.00	11	685	40	3	31	0.3	41	94	5.6	
104M10	925228	8	522489	6619039		6	PPmb	70	0.05	2.9	7.0	3.2	140.0	1.4	1.8	12	29	760	3.20	27	1270	30	12	12	0.4	68	151	20.8	
104M10	925229	8	522464	6622220		6	uTsv	50	1.36	73.0	8.1	3.1	32.0	0.2	0.5	16	66	320	3.30	16	488	30	3	33	0.3	52	95	7.9	
104M10	925230	8	520608	6623504		6	PPmb	40	0.09	21.0	7.3	4.2	210.0	1.3	2.4	14	76	360	2.30	40	417	40	6	29	0.8	59	152	8.1	
104M15	925231	8	518542	6624143		6	PPmb	40	0.05	12.0	6.9	4.1	190.0	0.8	1.6	18	183	450	4.10	19	509	50	14	30	0.6	75	116	16.0	
104M15	925232	8	517954	6627574		6	uTsv	30	0.05	11.0	7.4	4.9	110.0	0.3	0.5	20	65	390	3.60	10	483	30	3	43	0.2	105	191	8.0	
104M15	925233	8	516057	6626102		6	PPmb	40	0.33	50.0	7.6	20.0	1000.0	1.3	1.2	26	82	510	5.80	22	485	50	11	51	0.6	94	197	11.1	
104M15	925234	8	500845	6625128		6	lKg	30	0.28	0.2	7.7	0.3	19.0	0.2	0.2	7	7	500	3.40	8	250	20	4	4	0.2	48	56	2.3	
104M14	925235	8	498469	6625472		6	eTg	30	0.34	1.2	7.3	0.2	3.2	0.2	0.2	10	12	720	1.90	19	376	30	3	5	0.2	42	66	4.4	
104M14	925237	8	495668	6628992		6	eTg	860	6.78	4.7	7.4	0.2	2.3	0.2	0.2	2	5	300	0.55	5	198	10	4	2	0.2	17	21	7.1	

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Stream Sediment																							
							Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	:D.L.
							2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:Unit
MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g	:Mthd
104M08	925193	8	534247	6593035		6	eJgd	17		0.3	0.5	1100	0.5	110	1	6	3	6	1.77	72	0.56	1	20	90	4.9	3.1	3.06	2.5	0.5	28.0	1	16.0	2.9	10.10	
104M09	925194	8	554830	6606117		6	Qal	8		1.5	6.8	1300	4.8	40	3	75	10	4	3.48	21	0.27	2	20	85	2.9	12.0	3.22	0.5	0.5	5.0	1	3.0	1.6	12.25	
104M09	925195	8	546631	6604190		6	lJLg	20		3.8	70.0	790	28.0	26	5	66	12	2	3.22	16	0.28	1	20	65	3.1	14.0	0.86	1.0	0.5	6.0	1	3.2	2.1	10.78	
104M09	925197	8	550738	6600139		6	Qal	9		2.4	29.0	1100	10.0	46	3	76	10	5	3.40	23	0.31	1	20	48	3.5	12.0	2.77	0.5	0.9	6.4	1	3.9	1.9	9.87	
104M09	925198	8	550131	6601172		6	Qal	2		2.7	15.0	1300	9.0	51	3	90	9	6	3.34	27	0.36	2	20	83	4.0	13.0	2.96	0.5	0.5	5.9	1	2.7	2.0	10.21	
104M09	925199	8	549348	6597462		6	lJLg	7		3.1	75.0	1400	7.8	64	4	70	14	6	4.62	38	0.50	2	20	83	5.8	15.0	2.80	0.5	0.8	7.5	1	2.6	2.7	10.50	
104M08	925200	8	549853	6594080		6	lKgd	19		4.0	75.0	1200	53.0	47	11	72	15	4	4.56	29	0.42	1	20	63	4.8	15.0	1.63	0.5	1.3	7.2	1	12.0	2.7	11.46	
104M08	925202	8	549998	6591975		6	lJLg	18		6.3	85.0	1200	16.0	56	12	110	17	5	4.72	30	0.38	1	20	85	4.3	15.0	1.92	0.5	0.5	9.2	1	7.1	2.6	17.07	
104M08	925203	8	549785	6591585		6	lJLg	13		3.9	31.0	1300	3.0	50	6	120	14	6	4.25	26	0.38	4	20	80	4.0	14.0	2.33	0.5	0.5	6.9	1	2.9	2.7	22.86	
104M08	925204	8	546538	6590298		6	Qal	7		3.0	26.0	1600	5.7	97	8	32	9	6	4.28	55	0.59	1	20	65	8.3	17.0	2.18	0.5	1.4	13.0	1	7.7	4.1	20.84	
104M08	925205	8	544178	6581908		6	eJgd	9		3.6	9.3	1200	0.5	60	1	49	12	7	4.91	31	0.49	1	20	68	5.1	16.0	2.49	0.5	0.6	7.9	3	3.5	3.3	16.37	
104M08	925206	8	541268	6581433	10	6	eJgd	14	5	2.7	7.7	1100	0.5	50	1	46	12	5	4.26	27	0.41	1	20	44	4.3	15.0	2.23	0.5	0.8	6.5	1	2.8	2.7	19.70	
104M08	925207	8	541268	6581433	20	6	eJgd	9		2.5	10.0	1000	0.5	55	2	45	13	6	4.90	28	0.46	1	20	43	4.6	16.0	2.60	0.5	0.8	6.0	1	1.8	2.5	13.80	
104M08	925208	8	543716	6580060		6	eJh	3		1.4	5.8	690	3.6	40	1	32	12	6	4.11	19	0.32	2	20	37	3.3	15.0	1.52	0.8	0.6	4.3	1	1.4	2.2	23.11	
104M08	925210	8	543328	6580095		6	eJh	14		1.1	12.0	1100	0.9	56	1	21	5	7	2.09	31	0.34	1	20	56	3.4	6.7	2.33	0.5	0.5	7.9	1	2.8	2.2	22.55	
104M08	925211	8	545687	6576190		6	PPmb	6		1.6	18.0	1700	2.5	83	3	77	16	7	4.40	48	0.46	1	20	62	5.3	14.0	1.74	0.5	0.9	15.0	1	4.8	2.9	17.31	
104M08	925212	8	550097	6580710		6	uTsv	9		7.8	58.0	1300	6.9	130	7	130	20	13	6.42	69	0.73	1	20	77	9.4	21.0	2.18	0.5	1.2	21.0	1	34.0	4.5	16.43	
104M08	925213	8	550858	6580157		6	lKgd	4		4.5	35.0	1600	2.1	48	3	200	24	6	6.03	25	0.41	1	20	79	4.1	19.0	2.05	0.5	0.7	6.4	1	7.1	2.7	19.25	
104M08	925214	8	553079	6583209		6	lJLg	6		2.2	13.0	1000	4.2	64	5	160	22	10	5.58	32	0.47	1	20	82	5.2	19.0	2.04	0.5	0.5	10.0	1	6.4	3.0	16.66	
104M08	925215	8	554923	6584795		6	lKgd	2		3.5	16.0	1100	4.4	48	3	89	12	7	3.49	26	0.37	1	20	69	3.4	11.0	2.06	0.5	0.5	9.5	1	8.1	2.2	18.86	
104M09	925216	8	535721	6617468		6	lJLg	21		1.6	39.0	720	18.0	31	4	140	19	3	4.55	17	0.29	2	20	50	2.8	16.0	1.96	0.5	0.5	4.1	1	2.7	1.8	18.30	
104M09	925217	8	541726	6616137		6	lJLg	25	16	2.3	22.0	1100	8.7	35	3	240	13	4	4.11	21	0.32	1	88	67	3.2	17.0	2.46	0.5	0.8	5.1	1	2.4	2.1	18.43	
104M09	925218	8	541922	6620797		6	lJLg	12		1.7	27.0	1300	5.7	37	3	190	15	5	4.62	21	0.34	1	65	49	3.3	18.0	2.64	0.5	0.6	6.0	1	2.8	2.1	18.64	
104M09	925219	8	541359	6623478		6	lJLg	17		2.2	10.0	1100	2.4	34	2	320	15	5	3.93	20	0.31	1	20	63	3.0	17.0	2.65	0.5	0.7	5.3	2	2.5	1.8	17.42	
104M16	925220	8	539735	6627409		6	lJLg	2		2.9	40.0	1100	3.9	34	6	160	13	4	3.36	22	0.31	1	20	54	2.5	15.0	2.43	0.5	0.5	5.9	1	27.0	1.9	17.46	
104M16	925222	8	534822	6626725	10	6	lKg	2	2	1.3	5.4	1300	3.1	110	4	82	7	17	3.84	69	0.49	1	20	94	4.6	9.0	2.86	1.3	0.5	32.0	11	22.0	2.9	17.38	
104M16	925223	8	534822	6626725	20	6	lKg	2		1.2	5.2	1300	2.7	110	4	77	6	17	3.70	70	0.49	1	20	110	4.6	9.3	2.95	2.3	0.5	34.0	9	21.0	2.7	18.36	
104M16	925224	8	533632	6625958		6	lKg	2		1.2	5.7	1300	21.0	76	7	61	9	11	3.31	50	0.42	1	20	92	0.1	9.7	2.49	1.6	1.1	26.0	3	180.0	2.4	18.99	
104M16	925225	8	531460	6624686		6	lKg	2		1.3	26.0	1300	12.0	70	4	59	11	12	3.62	42	0.43	1	20	69	3.8	12.0	2.43	0.5	0.5	17.0	1	25.0	2.5	18.50	
104M16	925226	8	529926	6624049		6	lJLa	18		5.5	78.0	950	4.8	28	5	120	28	3	6.72	16	0.32	2	20	69	3.1	18.0	2.20	0.5	0.5	4.4	1	2.0	2.2	18.79	
104M10	925227	8	525161	6619054		6	uTs	12		8.3	79.0	1400	3.4	44	3	160	16	4	4.57	23	0.64	1	20	46	4.5	21.0	1.64	0.5	0.9	5.9	1	2.1	4.1	16.70	
104M10	925228	8	522489	6619039		6	PPmb	2		5.0	130.0	1700	8.7	90	5	46	14	7	4.59	49	0.70	1	20	76	7.1	17.0	2.23	1.3	1.2	14.0	6	15.0	4.6	16.19	
104M10	925229	8	522464	6622220		6	uTsv	15		5.0	32.0	1100	9.4	50	5	160	18	5	4.74	27	0.38	1	20	69	4.3	18.0	2.17	0.5	0.6	7.9	1	3.1	2.5	18.77	
104M10	925230	8	520608	6623504		6	PPmb	23	17	5.8	210.0	1300	21.0	54	4	120	18	6	4.35	31	0.47	1	20	57	4.4	17.0	1.89	0.5	0.5	8.2	4	13.0	3.1	17.01	
104M15	925231	8	518542	6624143		6	PPmb	5		5.7	180.0	1200	25.0	48	6	120	17	5	4.66	29	0.44	7	20	56	5.1	17.0	1.67	0.5	0.9	7.8	5	6.6	3.0	14.16	
104M15	925232	8	517954	6627574		6	uTsv	7		6.7	95.0	990	24.0	40	5	190	22	4	5.37	22	0.44	1	20	52	3.9	23.0	1.80	0.5	0.5	6.1	1	5.0	3.0	16.15	
104M15	925233	8	516057	6626102		6	PPmb	33	30	19.0	770.0	770	17.0	40	12	75	25	3	6.75	31	0.49	1	20	63	4.0	15.0	0.68	1.0	0.9	7.2	1	17.0	3.0	20.24	
104M15	925234	8	500845	6625128		6	lKg	8		0.2	3.7	1300	5.7	110	3	24	8	10	4.50	67	0.44	1	20	100	7.3	9.7	2.25	0.5	0.8	24.0	1	24.0	2.7	16.85	
104M14	925235	8	498469	6625472		6	eTg	2		0.5	3.6	1100	13.0	88	4	79	14	8	4.08	48	0.42	1	20	130	5.6	18.0	2.08	1.1	0.9	23.0	1	34.0	2.9	14.79	
104M14	925237	8	495668	6628992		6	eTg	2		0.1	0.5	1200	48.0	54	3	19	4	7	1.67	34	0.25	1	20	110	4.5	5.4	2.59	0.5	0.5	6.9	1	62.0	1.7	10.97	

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M14	925238	8	495053	6628681	680		6	eTg	0	2	T	N	N	221	2.0	75	O	N	S	M	M	D	P	1	G	0708
104M14	925239	8	492820	6627122	700		6	eTg	0	2	G	N	N	311	1.0	50	A	N	S	M	M	D	P	1	G	0708
104M14	925240	8	491507	6628180	760		6	eTg	0	3	T	N	N	022	2.0	100	A	N	S	S	M	D	P	1	G	0708
104M14	925242	8	490724	6625953	730		6	eTg	0	2	T	N	N	111	1.0	50	A	N	S	S	M	D	P	1	G	0708
104M14	925243	8	488572	6623771	760	10	6	eTg	0	3	T	N	N	131	5.0	50	A	N	S	S	M	D	P	2	G	0708
104M14	925244	8	488572	6623771	760	20	6	eTg	0	3	T	N	N	131	5.0	50	A	N	S	S	M	D	P	2	G	0708
104M11	925245	8	487065	6622906	875		6	eTg	0	2	T	N	N	112	0.5	50	O	N	S	M	M	D	P	2	G	0708
104M14	925246	8	483088	6623655	1040		6	eTg	2	3	G	N	N	230	9.0	25	A	N	S	S	M	D	P	1	M	0708
104M11	925247	8	487073	6621124	850		6	eTg	0	2	T	N	N	122	1.0	50	O	N	S	M	M	D	P	2	G	0708
104M11	925248	8	485676	6620286	1050		6	eTg	0	3	T	N	N	212	3.0	25	C	N	B	B	M	D	P	1	G	0708
104M11	925249	8	489381	6621443	950		6	eTg	0	2	T	N	N	221	2.0	10	R	N	S	B	M	D	P	1	G	0708
104M11	925250	8	491478	6614835	1100		6	eTg	0	3	T	N	N	220	2.0	50	C	N	S	S	M	D	P	1	G	0708
104M11	925251	8	492520	6619630	1150		6	eTg	0	2	G	N	N	221	2.0	15	A	N	S	S	M	D	P	1	G	0708
104M11	925252	8	490703	6622402	950		6	eTg	0	3	T	N	N	220	2.0	15	A	N	S	S	M	D	P	1	G	0708
104M11	925253	8	491353	6618507	1160		6	eTg	0	2	T	N	N	212	1.0	50	A	N	S	M	M	D	P	2	M	0708
104M11	925254	8	491046	6618657	1160		6	TP	2	2	T	N	N	221	5.0	75	A	N	S	M	M	D	P	3	M	0708
104M11	925255	8	491208	6614381	1100		6	TP	2	3	G	N	N	230	9.0	75	A	N	S	B	M	D	P	3	G	0708
104M11	925256	8	493941	6614772	950		6	eTg	0	3	T	N	N	320	7.0	75	A	N	S	S	M	D	P	2	G	0708
104M11	925257	8	494989	6608318	1150		6	PMgn	0	4	T	N	N	212	9.0	150	A	N	B	B	M	D	P	2	G	0708
104M11	925258	8	494629	6612553	1100		6	eTg	2	3	T	N	N	220	14.0	75	O	N	S	B	M	D	P	3	G	0708
104M11	925259	8	499193	6616180	1100		6	eTg	2	3	G	N	N	221	12.0	150	A	N	S	S	M	D	P	2	M	0708
104M10	925262	8	502457	6617690	950		6	lKg	0	2	G	N	N	310	3.0	125	O	N	S	M	M	D	P	2	M	0708
104M10	925263	8	502257	6611612	1100		6	eTg	2	2	G	N	N	230	15.0	100	A	N	S	S	M	D	P	3	M	0708
104M10	925264	8	502134	6611859	1100		6	eTg	0	3	G	N	N	220	4.0	100	A	N	S	S	M	D	P	2	M	0708
104M14	925265	8	498155	6642713	850		6	lKg	0	3	T	N	N	310	5.0	175	A	N	S	S	M	D	P	1	G	0708
104M14	925266	8	496512	6643571	900		6	lKg	0	3	G	N	N	221	6.0	100	A	N	S	M	M	D	P	1	G	0708
104M14	925267	8	496026	6643879	950		6	lKg	0	4	T	N	N	221	6.0	125	C	N	B	S	M	D	P	2	G	0708
104M14	925269	8	497085	6646541	800		6	lKg	0	3	T	N	N	310	3.0	100	A	N	S	S	M	D	P	2	G	0708
104M14	925270	8	498839	6648331	800		6	Qal	0	3	G	N	N	320	7.0	100	A	N	S	S	M	D	P	2	G	0708
104M15	925271	8	500361	6649782	1050		6	Kg	0	3	T	N	N	310	2.0	100	C	N	B	D	M	D	P	1	G	0708
104M10	925272	8	516788	6607025	950		6	eTg	0	3	T	N	N	311	9.0	200	C	N	B	S	M	D	P	2	G	0808
104M10	925273	8	514643	6604869	1900		6	eTg	0	3	G	N	N	131	15.0	50	C	N	B	B	M	D	P	1	G	0808
104M10	925274	8	502979	6612018	1100		6	eTg	0	2	T	N	N	310	0.5	75	S	Y	S	S	M	D	P	1	M	0708
104M10	925275	8	510609	6602493	950		6	KTg	2	3	T	N	N	220	13.0	125	A	N	B	S	M	D	P	3	G	0808
104M10	925276	8	505563	6603991	1220		6	KTg	0	2	T	N	N	311	1.6	75	A	N	S	S	M	D	P	1	G	0808
104M10	925277	8	504391	6603370	1250	10	6	KTg	2	2	G	N	N	220	10.0	75	A	N	S	S	M	D	P	2	M	0808
104M10	925278	8	504391	6603370	1250	20	6	KTg	2	2	G	N	N	220	10.0	75	A	N	S	S	M	D	P	2	M	0808
104M10	925279	8	512663	6600430	750		6	eKt	0	2	G	R	N	121	1.0	75	O	N	S	M	M	D	P	2	G	0808
104M07	925280	8	506239	6594025	1400		6	KTg	2	3	G	N	N	220	5.0	50	A	N	S	S	M	D	P	1	M	0808
104M14	925282	8	499432	6642164	1345		6	lKg	0	2	T	N	N	212	3.0	75	A	B	S	S	M	D	P	1	M	0708

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Water				Stream Sediment													
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
	SAMPLE	UTM	UTM	UTM			ppb	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	ION	LIF	TURB	GCE	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M14	925238	8	495053	6628681		6	eTg	960	17.40	3.3	7.7	0.2	1.5	0.2	0.2	2	6	480	1.80	6	570	30	15	2	0.2	32	43	16.5	
104M14	925239	8	492820	6627122		6	eTg	130	0.21	0.6	7.1	0.2	0.8	0.2	0.2	2	4	330	0.95	5	435	10	2	2	0.2	25	30	1.9	
104M14	925240	8	491507	6628180		6	eTg	160	0.54	0.6	7.2	0.2	1.8	0.2	0.3	4	6	590	1.80	18	720	30	1	2	0.2	33	84	13.4	
104M14	925242	8	490724	6625953		6	eTg	90	0.20	0.4	6.6	0.2	3.1	0.4	2.3	5	18	580	4.10	92	1460	150	28	3	1.0	46	165	33.1	
104M14	925243	8	488572	6623771	10	6	eTg	40	0.10	0.7	6.5	0.2	1.1	0.2	0.5	4	8	500	2.00	28	441	40	6	2	0.3	40	70	12.2	
104M14	925244	8	488572	6623771	20	6	eTg	30	0.08	0.7	6.5	0.2	0.8	0.2	0.4	4	8	540	1.80	26	333	30	6	3	0.3	35	64	11.3	
104M11	925245	8	487065	6622906		6	eTg	60	0.37	0.9	7.2	0.2	0.5	0.2	0.2	2	5	410	0.70	10	76	40	5	2	0.3	33	23	15.5	
104M14	925246	8	483088	6623655		6	eTg	100	0.05	1.8	6.8	0.2	7.7	0.2	0.4	2	8	350	0.85	30	182	10	2	2	0.4	5	68	0.9	
104M11	925247	8	487073	6621124		6	eTg	100	0.05	0.3	6.6	0.2	1.5	0.2	0.2	2	7	500	0.85	12	160	40	5	3	0.3	24	52	16.1	
104M11	925248	8	485676	6620286		6	eTg	50	0.05	0.3	6.5	0.2	1.2	0.2	0.8	5	8	440	1.90	14	589	40	5	2	0.2	34	64	15.6	
104M11	925249	8	489381	6621443		6	eTg	40	0.05	0.7	6.5	0.2	0.8	0.3	0.3	5	8	650	2.00	15	297	10	4	4	0.3	40	83	5.2	
104M11	925250	8	491478	6614835		6	eTg	50	0.23	1.3	7.1	0.2	1.3	0.4	0.3	3	8	460	1.20	12	314	10	7	2	0.3	24	44	1.8	
104M11	925251	8	492520	6619630		6	eTg	40	0.63	1.0	7.2	0.2	1.7	0.2	0.9	6	9	740	1.90	23	492	10	3	4	0.3	39	97	4.7	
104M11	925252	8	490703	6622402		6	eTg	60	0.10	1.0	6.9	0.2	0.7	0.2	0.3	5	7	550	1.80	15	277	10	4	3	0.4	31	82	7.4	
104M11	925253	8	491353	6618507		6	eTg	50	0.06	1.1	7.0	0.2	0.5	0.2	0.6	5	8	500	1.70	16	280	20	19	4	0.2	27	81	8.5	
104M11	925254	8	491046	6618657		6	TP	50	0.18	0.9	7.0	0.2	0.7	0.3	0.2	3	8	430	1.10	5	173	10	3	2	0.2	23	36	1.1	
104M11	925255	8	491208	6614381		6	TP	50	0.11	0.9	7.1	0.2	0.7	0.2	0.2	2	5	270	0.45	2	60	10	1	2	0.2	15	15	0.4	
104M11	925256	8	493941	6614772		6	eTg	210	0.25	2.9	7.2	0.2	1.1	0.2	1.1	3	7	500	1.20	52	605	40	12	3	0.4	14	114	4.7	
104M11	925257	8	494989	6608318		6	PMgn	220	0.58	1.1	7.0	0.2	1.1	0.3	0.3	4	8	880	2.00	18	621	40	6	4	0.2	19	75	7.0	
104M11	925258	8	494629	6612553		6	eTg	130	0.43	3.6	7.1	0.2	0.3	0.2	0.2	2	4	410	0.75	4	148	10	2	2	0.2	16	32	1.5	
104M11	925259	8	499193	6616180		6	eTg	30	1.30	0.9	7.1	0.2	0.2	0.2	0.2	5	7	410	1.40	7	223	10	1	4	0.2	46	52	2.6	
104M10	925262	8	502457	6617690		6	lKg	50	0.71	0.5	6.7	0.2	0.2	0.2	0.2	2	3	230	0.35	4	64	10	1	2	0.2	14	17	1.3	
104M10	925263	8	502257	6611612		6	eTg	70	1.94	1.9	7.2	0.2	0.2	0.2	0.2	2	5	360	0.70	3	108	10	1	3	0.2	16	31	0.6	
104M10	925264	8	502134	6611859		6	eTg	50	1.03	1.0	7.1	0.2	0.3	0.2	0.2	3	5	360	1.10	9	225	10	2	2	0.2	21	43	1.8	
104M14	925265	8	498155	6642713		6	lKg	60	4.25	1.2	7.3	0.2	4.1	1.3	0.4	4	5	550	1.90	26	455	10	3	3	0.5	26	77	1.1	
104M14	925266	8	496512	6643571		6	lKg	50	1.04	1.0	7.0	0.2	0.4	0.8	0.2	4	8	350	1.20	8	264	20	11	2	0.6	26	40	4.1	
104M14	925267	8	496026	6643879		6	lKg	50	0.62	0.8	7.0	0.2	0.5	0.2	0.2	3	7	460	1.20	8	253	30	3	2	0.2	25	44	6.7	
104M14	925269	8	497085	6646541		6	lKg	40	0.05	0.3	6.8	0.2	1.0	0.2	0.6	4	6	460	1.80	13	870	30	4	2	0.2	27	56	9.4	
104M14	925270	8	498839	6648331		6	Qal	60	0.19	4.2	6.0	0.4	9.0	7.0	0.3	8	55	460	1.50	10	212	10	16	8	0.2	39	41	1.2	
104M14	925271	8	500361	6649782		6	Kg	70	25.30	150.0	7.8	13.5	160.0	4.3	3.1	14	83	600	2.60	165	642	20	6	19	3.0	44	129	2.9	
104M10	925272	8	516788	6607025		6	eTg	40	0.33	0.8	7.0	2.8	1.7	0.3	0.2	12	17	650	2.10	14	753	80	2	8	0.2	58	83	8.0	
104M10	925273	8	514643	6604869		6	eTg	30	0.21	1.8	7.1	0.2	0.6	1.1	0.2	6	19	560	1.40	2	250	10	2	5	0.2	47	31	2.9	
104M10	925274	8	502979	6612018		6	eTg	30	0.83	1.4	7.1	0.2	0.4	0.2	0.5	3	5	500	0.90	37	242	10	2	2	0.2	12	79	1.4	
104M10	925275	8	510609	6602493		6	KTg	60	0.12	0.6	7.1	0.2	0.2	0.2	0.2	2	3	300	0.45	2	112	10	1	2	0.2	10	20	9.7	
104M10	925276	8	505563	6603991		6	KTg	60	0.06	0.6	6.9	0.2	0.6	0.2	0.2	3	5	700	1.50	8	412	240	2	2	0.2	19	45	4.5	
104M10	925277	8	504391	6603370	10	6	KTg	40	0.16	0.5	7.2	0.3	0.2	0.2	0.2	2	3	330	0.55	2	127	10	1	2	0.2	14	18	1.1	
104M10	925278	8	504391	6603370	20	6	KTg	50	0.15	0.5	7.2	0.3	0.2	0.2	0.2	2	2	380	0.55	3	126	10	2	2	0.2	15	20	0.7	
104M10	925279	8	512663	6600430		6	eKt	40	0.15	8.6	6.6	0.2	0.4	0.2	0.2	8	18	500	2.00	2	334	10	16	6	0.2	69	37	6.9	
104M07	925280	8	506239	6594025		6	KTg	30	0.11	5.4	7.1	0.2	2.3	0.2	0.2	4	12	350	0.90	2	77	10	2	5	0.2	28	24	1.1	
104M14	925282	8	499432	6642164		6	lKg	30	0.35	0.3	6.6	0.2	12.0	0.2	0.2	2	4	300	1.10	8	194	10	3	2	0.3	18	37	3.1	

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Stream Sediment																							
							Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	:D.L.
							2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:Unit
MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g	:Mthd
104M14	925238	8	495053	6628681		6	eTg	5		0.1	2.2	1200	22.0	76	3	12	4	8	2.28	55	0.33	1	20	91	0.1	4.6	2.01	1.8	0.5	17.0	3	190.0	2.2	15.44	
104M14	925239	8	492820	6627122		6	eTg	2		0.1	0.5	1200	0.5	150	1	17	6	23	5.36	85	0.68	5	20	71	8.0	10.0	2.98	1.7	0.5	26.0	1	8.6	3.5	12.94	
104M14	925240	8	491507	6628180		6	eTg	3		0.3	1.9	1200	86.0	92	6	9	6	7	2.26	76	0.36	1	20	120	5.0	6.3	1.81	1.6	0.5	28.0	1	140.0	1.6	15.78	
104M14	925242	8	490724	6625953		6	eTg	7		0.3	3.3	810	35.0	72	4	15	8	5	4.17	84	0.57	1	20	76	13.0	6.8	1.08	1.5	2.1	29.0	1	83.0	4.0	17.31	
104M14	925243	8	488572	6623771	10	6	eTg	2	2	0.2	1.5	1100	16.0	75	4	11	5	11	2.63	51	0.47	1	20	99	4.8	7.9	2.04	2.0	0.5	25.0	1	35.0	2.6	19.35	
104M14	925244	8	488572	6623771	20	6	eTg	2		0.2	0.5	1100	15.0	73	5	13	4	11	2.42	52	0.49	1	20	110	4.7	7.9	2.04	2.5	0.7	24.0	1	35.0	2.8	19.79	
104M11	925245	8	487065	6622906		6	eTg	9		0.2	1.4	1100	13.0	69	2	16	4	15	2.10	44	0.52	1	20	49	5.5	9.9	1.97	1.5	1.0	13.0	1	22.0	3.1	19.86	
104M14	925246	8	483088	6623655		6	eTg	4		0.3	9.0	2100	0.5	97	2	5	3	11	2.31	53	0.56	1	20	150	6.4	7.9	2.02	0.5	0.8	19.0	2	6.1	3.5	18.60	
104M11	925247	8	487073	6621124		6	eTg	10		0.2	2.4	860	49.0	62	2	23	5	10	2.02	49	0.52	1	20	63	7.5	8.5	1.61	0.5	1.0	13.0	1	36.0	3.3	15.95	
104M11	925248	8	485676	6620286		6	eTg	6		0.1	0.5	1200	39.0	100	2	17	7	13	3.32	56	0.59	1	20	63	8.2	12.0	1.84	0.5	0.5	15.0	1	10.0	4.2	16.17	
104M11	925249	8	489381	6621443		6	eTg	5		0.1	1.7	1500	4.6	100	4	16	7	10	3.72	55	0.57	1	20	130	6.6	12.0	2.35	0.5	0.9	31.0	1	27.0	3.3	16.80	
104M11	925250	8	491478	6614835		6	eTg	15		0.3	1.4	1800	1.8	69	2	9	5	8	2.67	40	0.42	1	20	77	4.7	8.9	2.72	0.5	0.5	13.0	4	9.9	2.6	19.43	
104M11	925251	8	492520	6619630		6	eTg	2		0.2	2.2	1700	6.6	120	4	24	9	10	4.15	66	0.65	1	20	110	7.3	14.0	2.38	1.2	1.1	26.0	1	44.0	4.1	15.65	
104M11	925252	8	490703	6622402		6	eTg	2		0.1	0.6	1300	13.0	110	4	17	6	11	3.04	71	0.53	1	20	100	6.9	11.0	2.39	1.7	0.5	30.0	1	26.0	3.0	18.51	
104M11	925253	8	491353	6618507		6	eTg	2		0.3	0.5	1600	8.2	79	4	14	6	8	2.48	57	0.42	12	20	140	6.7	7.8	2.18	1.7	0.5	23.0	1	17.0	2.5	17.48	
104M11	925254	8	491046	6618657		6	TP	2		0.1	1.8	1800	0.5	96	1	11	6	11	2.59	56	0.41	1	20	74	5.3	7.8	2.69	0.5	0.8	20.0	3	8.8	2.4	16.95	
104M11	925255	8	491208	6614381		6	TP	2		0.1	2.4	1400	0.5	110	1	22	6	23	3.36	69	0.48	1	20	70	6.2	7.1	2.61	1.9	0.5	24.0	5	7.3	2.9	16.37	
104M11	925256	8	493941	6614772		6	eTg	6		0.4	2.4	1100	15.0	120	3	5	5	9	2.23	81	0.82	1	20	81	8.2	6.2	2.55	0.5	0.5	38.0	1	56.0	4.2	16.58	
104M11	925257	8	494989	6608318		6	PMgn	2		0.7	2.5	1100	5.6	180	6	18	6	29	3.48	93	1.29	1	20	120	11.0	9.2	1.96	2.8	2.0	88.0	1	62.0	7.1	19.78	
104M11	925258	8	494629	6612553		6	eTg	2		1.0	0.5	920	0.5	170	3	15	4	32	2.46	92	0.86	1	20	92	8.9	7.0	2.55	0.5	1.3	34.0	1	18.0	5.1	19.12	
104M11	925259	8	499193	6616180		6	eTg	2		0.1	0.5	1500	2.9	95	2	25	12	8	3.63	50	0.35	1	20	100	5.7	13.0	2.64	0.5	0.5	21.0	1	28.0	2.3	16.43	
104M10	925262	8	502457	6617690		6	lKg	2		0.1	1.8	1400	0.5	72	3	31	8	8	1.89	43	0.29	1	20	130	4.4	6.4	3.16	2.1	0.5	20.0	1	11.0	1.8	14.68	
104M10	925263	8	502257	6611612		6	eTg	2		0.3	0.5	1500	0.5	84	2	21	6	9	1.90	45	0.34	1	210	110	5.2	6.1	2.80	3.0	0.9	20.0	1	5.7	2.1	18.48	
104M10	925264	8	502134	6611859		6	eTg	2		0.1	0.5	1400	0.5	180	2	23	7	14	3.39	110	0.54	1	20	110	9.4	8.6	2.38	2.4	0.5	50.0	1	35.0	2.7	17.98	
104M14	925265	8	498155	6642713		6	lKg	18		0.3	4.5	1000	0.5	90	9	12	6	10	2.76	51	0.65	1	20	170	5.9	7.0	2.42	1.9	0.5	42.0	5	26.0	3.8	19.09	
104M14	925266	8	496512	6643571		6	lKg	2		0.1	0.5	950	2.4	82	5	12	6	11	2.45	52	0.52	1	20	160	4.3	7.1	2.52	3.1	0.5	29.0	3	74.0	2.9	14.39	
104M14	925267	8	496026	6643879		6	lKg	2		0.1	1.6	980	10.0	72	5	8	5	8	2.06	44	0.40	1	20	95	3.3	6.0	2.34	1.9	0.5	23.0	1	56.0	2.0	17.69	
104M14	925269	8	497085	6646541		6	lKg	2		0.1	0.5	930	17.0	100	4	10	5	14	3.04	57	0.72	1	20	97	5.6	5.5	2.08	3.3	0.9	47.0	1	62.0	4.3	18.03	
104M14	925270	8	498839	6648331		6	Qal	2		0.7	9.9	1300	0.5	66	8	35	14	8	3.85	36	0.51	1	20	110	4.5	13.0	2.34	0.5	0.5	19.0	67	15.0	3.1	15.09	
104M14	925271	8	500361	6649782		6	Kg	217	189	15.0	160.0	1200	1.8	80	8	110	17	7	4.16	44	0.55	1	20	130	5.3	14.0	1.72	1.0	1.1	24.0	5	9.4	3.5	24.22	
104M10	925272	8	516788	6607025		6	eTg	2		5.6	3.6	1100	7.6	73	10	58	15	8	4.50	44	0.45	1	20	60	4.4	16.0	2.01	0.5	0.5	21.0	1	30.0	2.6	19.72	
104M10	925273	8	514643	6604869		6	eTg	6		0.3	0.5	1600	0.5	100	3	33	12	10	4.20	57	0.42	1	20	62	6.1	13.0	2.73	3.3	0.5	24.0	1	15.0	2.2	14.67	
104M10	925274	8	502979	6612018		6	eTg	2		0.1	0.5	1300	0.5	150	3	5	4	9	1.99	81	0.45	1	20	190	8.5	5.2	2.51	2.5	0.5	68.0	1	23.0	2.4	17.55	
104M10	925275	8	510609	6602493		6	KTg	2		1.0	0.5	1600	0.5	79	1	9	4	9	1.80	46	0.41	1	20	77	4.1	5.9	2.38	2.1	1.0	13.0	1	5.0	2.4	19.64	
104M10	925276	8	505563	6603991		6	KTg	3		0.3	1.6	1200	4.0	160	3	16	5	14	2.99	97	0.81	1	20	120	8.5	7.0	2.24	2.3	1.0	42.0	1	14.0	5.2	19.18	
104M10	925277	8	504391	6603370	10	6	KTg	2	2	1.6	1.5	1700	0.5	180	1	16	4	42	4.05	110	0.99	1	20	54	8.2	6.9	2.17	2.1	1.1	28.0	1	9.2	6.0	19.76	
104M10	925278	8	504391	6603370	20	6	KTg	2		1.6	0.5	1700	0.5	220	2	17	4	48	4.65	130	1.22	1	20	67	9.7	7.6	2.26	0.5	2.0	33.0	1	12.0	7.1	14.80	
104M10	925279	8	512663	6600430		6	eKt	2		0.1	0.5	1400	4.6	86	3	36	12	11	4.17	54	0.44	1	20	51	5.0	12.0	2.75	0.5	0.5	16.0	3	15.0	2.8	17.86	
104M07	925280	8	506239	6594025		6	KTg	2		0.1	2.0	1400	0.5	100	1	46	11	13	4.32	60	0.49	1	20	46	6.6	16.0	2.54	0.5	0.9	14.0	1	4.1	3.0	17.31	
104M14	925282	8	499432	6642164		6	lKg	5		0.2	11.0	870	7.7	110	5	11	4	19	2.50	64	0.92	1	20	140	7.3	5.5	2.94	4.1	1.6	47.0	4	48.0	5.6	18.09	

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M14	925283	8	497043	6645497	920		6	lKg	0	2	T	N	N	212	3.0	75	A	N	S	S	M	D	P	2	M	0708
104M14	925284	8	497516	6647544	885		6	lKg	0	2	T	N	N	311	3.0	75	A	Y	S	S	M	D	P	2	M	0708
104M10	925287	8	507100	6598334	1000		6	KTg	0	2	T	N	N	221	2.0	50	O	N	S	M	M	D	P	1	G	0808
104M10	925288	8	504947	6598557	1000		6	KTg	0	2	T	N	N	311	1.0	75	A	N	S	M	M	D	P	1	G	0808
104M10	925289	8	501894	6596909	1050		6	KTg	2	3	G	N	N	220	9.0	75	A	N	S	S	M	D	P	2	M	0808
104M10	925290	8	501209	6597463	1100	10	6	KTg	0	2	T	N	N	121	3.0	100	A	N	S	S	M	D	P	1	G	0808
104M10	925291	8	501209	6597463	1100	20	6	KTg	0	2	T	N	N	121	3.0	100	A	N	S	S	M	D	P	1	G	0808
104M10	925292	8	503306	6606033	1400		6	KTg	2	3	G	N	N	220	7.0	75	A	N	B	S	M	D	P	2	M	0808
104M10	925293	8	504232	6609439	1100		6	eTg	2	3	T	N	N	220	2.0	100	A	N	S	S	M	D	P	2	M	0808
104M10	925294	8	504389	6608995	1100		6	eTg	0	3	G	N	N	120	15.0	150	C	N	B	S	M	D	P	3	M	0808
104M10	925295	8	507145	6610575	1200		6	lKg	2	4	G	N	N	120	7.0	150	R	N	B	S	M	D	P	2	M	0808
104M10	925296	8	508372	6612354	1060		6	lKg	2	4	G	N	N	220	9.0	150	R	N	B	S	M	D	P	2	M	0808
104M10	925297	8	507714	6612648	1350		6	lKg	0	3	T	N	N	112	1.0	50	O	N	S	S	M	D	P	1	G	0808
104M10	925298	8	508380	6618564	1000		6	lKg	0	3	T	N	N	311	9.0	100	A	N	S	S	M	D	P	2	G	0808
104M10	925299	8	506622	6618035	950		6	lKg	0	4	T	N	N	210	10.0	125	R	N	B	S	M	D	P	2	G	0808
104M14	925300	8	499585	6633040	680		6	TP	0	2	T	N	P	121	9.0	75	A	N	S	S	M	D	P	2	G	0808
104M14	925302	8	496567	6634771	750	10	6	lKg	0	2	T	N	N	211	3.0	75	O	N	S	M	M	D	P	1	G	0808
104M14	925303	8	496567	6634771	750	20	6	lKg	0	2	T	N	N	211	3.0	75	O	N	S	M	M	D	P	1	G	0808
104M14	925304	8	494927	6635330	800		6	Qal	0	2	T	N	N	212	1.5	100	A	N	S	M	M	D	P	2	G	0808
104M14	925305	8	494624	6638808	1100		6	lKg	0	3	T	N	N	311	5.0	75	C	N	B	B	M	D	P	1	G	0808
104M14	925306	8	493793	6638502	950		6	lKg	0	3	G	N	N	120	5.0	100	C	N	S	S	M	D	P	1	G	0808
104M14	925307	8	493004	6638572	850		6	Qal	0	3	T	N	N	220	2.0	75	C	N	S	S	M	D	P	1	G	0808
104M14	925308	8	491714	6639006	850		6	Qal	0	2	T	N	N	221	4.0	75	A	N	S	S	M	D	P	3	G	0808
104M14	925309	8	488690	6639948	950		6	KTg	0	2	T	N	N	131	7.0	50	O	N	S	B	M	D	P	2	G	0808
104M14	925310	8	487223	6641151	950		6	KTg	0	3	T	N	N	221	5.0	50	A	N	S	S	M	D	P	2	G	0808
104M14	925311	8	487349	6642043	920		6	lKg	0	2	T	N	N	121	1.0	45	O	N	S	M	M	D	P	1	G	0808
104M14	925312	8	491007	6645994	1340		6	lKg	2	3	T	N	N	220	7.0	50	A	N	S	S	M	D	P	3	M	0808
104M14	925313	8	490546	6646276	1340		6	Es	0	3	T	N	N	311	6.0	75	A	N	S	S	M	D	P	2	M	0808
104M14	925314	8	494801	6649519	1250		6	PMgn	0	2	T	N	N	211	5.0	50	A	N	S	M	M	D	P	2	G	0808
104M14	925315	8	495026	6649992	1250		6	PMgn	0	3	T	N	N	221	1.0	100	A	N	S	S	M	D	P	1	G	0808
104M09	925317	8	535880	6609833	700		6	lJLa	0	2	G	N	N	121	2.0	75	O	N	S	M	M	D	P	2	G	0808
104M09	925318	8	539137	6600294	650		6	PPmb	0	4	T	N	N	112	1.0	75	A	N	S	S	M	D	P	1	G	0808
104M09	925319	8	542817	6599990	850		6	lJLa	0	3	T	N	N	121	3.0	100	A	N	B	S	M	D	P	2	G	0808
104M08	925320	8	543226	6595145	750		6	lJLa	0	3	G	N	M	121	4.0	100	A	N	S	S	M	D	P	2	G	0808
104M08	925322	8	554363	6590223	1300		6	lJLg	0	3	T	N	N	111	3.0	50	A	N	S	S	M	D	P	2	G	0808
104M08	925323	8	554691	6590550	1300		6	lJLg	0	3	T	N	N	111	3.0	50	A	N	S	S	M	D	P	2	G	0808
104M08	925324	8	556419	6588573	1350		6	lJLg	0	3	T	N	N	111	2.0	75	A	N	S	S	M	D	P	1	G	0808
104M08	925325	8	553874	6594216	1300		6	lJLg	0	2	T	N	N	211	3.0	10	A	N	S	B	M	D	P	1	G	0808
104M08	925326	8	556338	6595560	1200		6	lJLg	0	3	T	N	N	220	6.0	50	A	N	S	S	M	D	P	2	G	0808
104M09	925327	8	554843	6598577	1230		6	lJLa	0	3	T	N	N	111	3.0	75	A	N	S	S	M	D	P	1	G	0808

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Water				Stream Sediment												
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
	SAMPLE	UTM	UTM	UTM			ppb	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	ION	LIF	TURB	GCE	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M14	925283	8	497043	6645497		6	lKg	20	0.55	0.3	6.7	0.2	0.7	0.3	0.2	2	4	500	1.20	11	349	30	2	2	0.3	18	43	9.1	
104M14	925284	8	497516	6647544		6	lKg	30	0.42	4.4	6.7	0.6	12.0	0.2	0.7	5	23	480	1.30	31	336	10	4	4	0.5	31	75	2.9	
104M10	925287	8	507100	6598334		6	KTg	40	0.05	1.0	6.8	0.2	0.5	0.2	0.2	6	10	320	2.40	3	256	20	5	4	0.2	64	53	10.0	
104M10	925288	8	504947	6598557		6	KTg	40	0.05	0.4	7.4	0.2	0.7	0.2	0.3	14	7	970	3.80	5	770	10	3	6	0.2	82	98	7.0	
104M10	925289	8	501894	6596909		6	KTg	30	0.05	0.8	7.1	0.2	0.5	0.2	0.2	4	6	270	0.70	2	96	10	1	3	0.2	26	24	0.4	
104M10	925290	8	501209	6597463	10	6	KTg	50	0.05	0.6	6.9	0.2	0.2	0.2	0.2	3	5	260	0.80	2	68	10	5	2	0.2	20	26	3.7	
104M10	925291	8	501209	6597463	20	6	KTg	50	0.05	0.6	6.9	0.2	0.2	0.2	0.2	3	4	300	0.70	3	66	10	5	2	0.2	19	25	3.4	
104M10	925292	8	503306	6606033		6	KTg	40	0.32	1.4	7.1	0.2	0.2	0.2	0.2	3	3	260	0.75	2	83	10	2	3	0.2	21	21	0.2	
104M10	925293	8	504232	6609439		6	eTg	60	1.42	0.7	7.1	0.2	0.2	0.2	0.2	4	7	410	1.10	9	210	10	4	3	0.2	20	47	2.9	
104M10	925294	8	504389	6608995		6	eTg	110	0.63	1.5	7.1	0.2	0.2	0.2	0.2	5	6	510	1.20	5	164	10	2	4	0.2	30	40	1.2	
104M10	925295	8	507145	6610575		6	lKg	30	0.38	3.0	7.2	0.2	1.1	0.2	0.2	8	31	490	1.40	4	271	20	4	15	0.2	41	38	1.2	
104M10	925296	8	508372	6612354		6	lKg	40	0.40	4.7	7.2	0.2	1.0	0.2	0.2	11	65	510	1.80	5	278	20	5	14	0.2	59	46	1.9	
104M10	925297	8	507714	6612648		6	lKg	30	0.10	0.3	7.1	0.2	0.5	0.2	0.2	7	25	590	2.00	6	336	40	3	12	0.3	38	56	14.2	
104M10	925298	8	508380	6618564		6	lKg	30	0.06	0.4	6.8	0.2	0.3	0.2	0.2	6	10	480	1.60	5	283	30	2	7	0.2	36	47	6.0	
104M10	925299	8	506622	6618035		6	lKg	30	0.05	0.4	6.9	0.2	0.3	0.2	0.2	6	10	360	1.20	4	194	10	2	6	0.2	32	39	1.7	
104M14	925300	8	499585	6633040		6	TP	80	0.40	0.7	7.2	0.2	0.8	0.2	0.2	3	4	330	1.10	6	200	10	3	2	0.2	22	44	3.1	
104M14	925302	8	496567	6634771	10	6	lKg	70	0.92	0.5	7.2	0.2	0.2	0.2	0.2	2	2	320	0.85	5	164	10	2	2	0.2	17	39	2.8	
104M14	925303	8	496567	6634771	20	6	lKg	70	0.58	0.5	7.1	0.2	0.2	0.2	0.2	3	3	260	0.80	4	153	10	3	2	0.2	16	40	2.8	
104M14	925304	8	494927	6635330		6	Qal	60	0.65	0.4	7.4	0.2	0.3	0.2	0.3	4	6	330	1.40	7	299	20	7	3	0.2	27	45	16.7	
104M14	925305	8	494624	6638808		6	lKg	40	0.36	1.4	7.2	0.2	0.7	0.2	0.2	7	28	400	1.90	10	292	20	2	3	0.2	41	58	5.7	
104M14	925306	8	493793	6638502		6	lKg	40	0.18	1.8	7.0	0.2	1.3	0.2	0.2	6	14	350	1.40	6	215	10	1	4	0.2	37	42	1.2	
104M14	925307	8	493004	6638572		6	Qal	40	2.28	7.0	7.6	0.2	0.8	0.7	0.3	7	31	410	2.10	12	329	20	2	3	0.4	34	62	8.5	
104M14	925308	8	491714	6639006		6	Qal	50	0.05	1.5	7.1	0.2	0.9	0.6	0.3	5	19	320	1.40	11	248	20	5	4	0.2	33	60	4.2	
104M14	925309	8	488690	6639948		6	KTg	60	0.34	0.9	7.0	0.2	0.5	0.2	0.3	2	6	220	0.40	10	404	30	5	2	0.3	15	28	16.3	
104M14	925310	8	487223	6641151		6	KTg	160	0.40	0.6	7.0	0.2	0.6	0.2	0.3	3	4	200	0.75	15	211	10	2	2	0.2	14	59	2.2	
104M14	925311	8	487349	6642043		6	lKg	150	1.57	2.9	7.7	0.3	4.5	1.3	1.1	6	15	320	2.10	11	388	10	8	3	0.5	26	76	9.3	
104M14	925312	8	491007	6645994		6	lKg	120	0.30	1.0	7.1	0.2	0.8	0.4	0.3	3	7	220	1.10	10	254	10	5	2	0.2	14	43	1.6	
104M14	925313	8	490546	6646276		6	Es	120	0.05	0.9	7.0	0.2	4.8	0.6	0.3	5	11	400	1.80	23	434	20	2	3	0.3	23	77	6.0	
104M14	925314	8	494801	6649519		6	PMgn	50	0.05	2.7	7.1	0.2	6.0	0.4	0.8	12	37	410	2.10	16	406	20	3	13	0.2	73	89	7.9	
104M14	925315	8	495026	6649992		6	PMgn	50	0.05	3.5	7.2	0.2	15.0	0.4	1.5	15	50	640	2.90	16	386	20	3	22	0.4	108	147	6.9	
104M09	925317	8	535880	6609833		6	lJLa	80	0.55	16.0	8.0	0.3	5.1	0.2	0.2	9	27	230	1.60	4	206	20	1	19	0.2	34	52	5.1	
104M09	925318	8	539137	6600294		6	PPmb	60	0.05	7.0	7.4	6.2	48.0	0.2	0.2	20	48	330	4.20	9	770	70	3	26	0.2	68	81	15.3	
104M09	925319	8	542817	6599990		6	lJLa	60	0.11	50.0	7.8	12.5	50.0	0.2	0.4	18	71	280	3.90	9	525	40	2	38	0.2	55	114	8.1	
104M08	925320	8	543226	6595145		6	lJLa	80	0.05	2.0	7.3	4.8	180.0	1.2	0.4	11	41	520	4.20	45	764	80	3	12	0.6	47	178	13.9	
104M08	925322	8	554363	6590223		6	lJLg	50	0.05	5.6	7.1	0.2	48.0	0.5	0.6	13	42	380	3.10	27	429	20	2	24	0.2	79	119	4.5	
104M08	925323	8	554691	6590550		6	lJLg	50	0.05	6.4	7.1	0.2	17.0	0.4	0.3	12	30	380	2.50	17	340	10	2	16	0.2	68	73	3.1	
104M08	925324	8	556419	6588573		6	lJLg	50	0.45	3.4	7.4	0.2	24.0	0.8	0.4	12	49	520	2.30	40	649	50	3	15	0.2	40	98	6.0	
104M08	925325	8	553874	6594216		6	lJLg	40	0.05	4.9	7.2	1.6	38.0	0.2	0.3	11	32	300	3.00	15	513	40	3	21	0.2	70	86	11.2	
104M08	925326	8	556338	6595560		6	lJLg	40	0.05	5.6	7.2	1.8	12.0	0.2	0.2	9	23	280	2.10	10	362	20	2	16	0.2	54	73	4.1	
104M09	925327	8	554843	6598577		6	lJLa	40	0.05	9.1	7.2	0.8	8.7	0.2	0.3	4	22	200	1.70	11	153	20	2	11	0.3	44	58	13.3	

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Stream Sediment																							
							Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	:D.L.
							2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:Unit
MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g	:Mthd
104M14	925283	8	497043	6645497		6	lKg	2		0.4	0.5	680	15.0	110	9	10	4	15	2.60	66	0.76	1	20	110	4.0	5.6	2.34	5.3	0.5	54.0	1	170.0	4.6	17.01	
104M14	925284	8	497516	6647544		6	lKg	44	132	0.9	14.0	530	2.6	120	4	21	10	13	4.77	57	1.45	1	20	140	9.4	12.0	2.72	2.0	1.6	46.0	7	50.0	9.4	17.41	
104M10	925287	8	507100	6598334		6	KTg	3		0.1	1.0	1400	6.4	65	1	31	10	6	4.02	38	0.27	1	20	37	4.6	13.0	2.38	0.5	0.5	9.4	1	5.2	1.7	18.55	
104M10	925288	8	504947	6598557		6	KTg	5		0.3	1.1	1400	4.5	91	5	32	16	10	5.80	48	0.40	1	20	100	6.7	19.0	1.57	1.2	1.0	13.0	1	6.3	2.5	16.44	
104M10	925289	8	501894	6596909		6	KTg	2		0.2	1.2	1700	0.5	100	1	21	7	9	2.79	66	0.33	1	20	15	5.9	11.0	2.71	0.5	0.6	13.0	1	2.6	2.0	19.19	
104M10	925290	8	501209	6597463	10	6	KTg	2		0.1	1.2	1400	6.0	140	1	5	4	15	2.14	86	0.43	1	20	15	6.3	11.0	2.58	0.5	0.8	17.0	1	20.0	2.4	16.11	
104M10	925291	8	501209	6597463	20	6	KTg	2	3	0.1	0.5	1400	4.8	120	1	11	4	12	1.90	75	0.36	1	20	15	5.5	9.7	2.45	0.5	0.9	13.0	1	16.0	2.0	16.21	
104M10	925292	8	503306	6606033		6	KTg	2		0.1	0.5	1500	0.5	100	1	21	6	12	2.85	64	0.38	1	20	59	6.2	9.8	2.95	1.7	0.5	18.0	1	5.8	2.3	17.93	
104M10	925293	8	504232	6609439		6	eTg	3		0.1	0.5	1200	2.1	86	3	19	5	11	2.00	56	0.36	1	20	130	4.9	5.8	2.61	2.6	0.5	28.0	1	38.0	2.1	18.29	
104M10	925294	8	504389	6608995		6	eTg	3		0.1	0.5	1500	1.0	88	2	25	7	9	2.81	50	0.39	1	20	73	6.1	11.0	2.85	0.5	0.7	18.0	1	9.7	2.6	17.06	
104M10	925295	8	507145	6610575		6	lKg	3		0.1	1.5	1600	0.5	82	3	67	15	6	4.19	50	0.50	1	20	84	5.4	16.0	2.65	0.5	0.8	17.0	4	14.0	3.0	19.26	
104M10	925296	8	508372	6612354		6	lKg	3		0.3	1.8	1500	0.5	96	3	99	19	7	5.17	57	0.47	1	20	61	6.0	19.0	2.50	0.5	1.4	18.0	15	16.0	2.8	17.90	
104M10	925297	8	507714	6612648		6	lKg	2		0.3	1.2	1200	12.0	72	3	65	9	9	3.30	49	0.42	1	20	64	6.0	11.0	2.02	0.5	0.7	16.0	10	21.0	2.5	18.78	
104M10	925298	8	508380	6618564		6	lKg	3		0.2	1.2	1200	7.5	110	2	45	9	19	3.55	62	0.62	1	20	76	6.8	12.0	2.47	0.5	0.9	27.0	1	22.0	4.0	18.10	
104M10	925299	8	506622	6618035		6	lKg	2		0.2	0.5	1200	0.5	120	2	45	10	18	4.12	65	0.60	6	20	93	7.8	13.0	2.89	2.3	0.5	23.0	1	9.8	3.3	11.54	
104M14	925300	8	499585	6633040		6	TP	5		0.3	0.5	1100	3.0	110	7	9	4	14	2.23	62	0.68	1	20	130	6.5	6.9	2.99	2.7	1.0	38.0	1	28.0	4.0	14.33	
104M14	925302	8	496567	6634771	10	6	lKg	2	6	0.1	0.5	1400	2.4	70	2	5	3	7	1.54	52	0.30	1	20	100	4.8	4.4	2.85	0.5	0.5	19.0	1	21.0	1.7	14.54	
104M14	925303	8	496567	6634771	20	6	lKg	2		0.1	0.9	1300	1.8	69	2	5	3	7	1.46	50	0.30	1	20	110	4.6	4.2	2.73	2.0	0.5	17.0	1	19.0	1.4	17.41	
104M14	925304	8	494927	6635330		6	Qal	2		0.1	1.3	980	11.0	76	2	9	5	7	2.21	53	0.34	1	20	40	4.7	6.8	1.71	1.0	0.6	16.0	1	65.0	2.2	14.05	
104M14	925305	8	494624	6638808		6	lKg	4		0.1	1.3	1200	2.9	61	5	12	7	8	3.17	35	0.37	1	20	72	4.5	11.0	1.77	0.8	0.6	13.0	2	16.0	2.2	19.90	
104M14	925306	8	493793	6638502		6	lKg	4		0.4	2.3	1600	0.5	74	3	24	7	10	3.14	43	0.36	1	20	72	5.6	9.1	2.60	1.2	0.9	16.0	1	7.4	2.4	18.01	
104M14	925307	8	493004	6638572		6	Qal	5		0.2	1.5	1700	4.2	73	7	10	8	8	3.94	38	0.41	1	20	90	5.8	13.0	1.73	1.6	0.7	15.0	3	20.0	2.5	14.76	
104M14	925308	8	491714	6639006		6	Qal	2		0.2	1.1	1200	4.2	92	3	14	6	11	2.85	55	0.47	1	20	85	5.2	8.1	2.45	1.8	0.9	19.0	4	15.0	2.6	15.89	
104M14	925309	8	488690	6639948		6	KTg	3		0.1	1.7	970	8.1	73	2	5	3	5	1.07	68	0.36	1	57	65	7.5	4.3	1.92	0.5	1.0	17.0	2	41.0	2.6	15.43	
104M14	925310	8	487223	6641151		6	KTg	2		0.2	1.6	1500	2.6	120	2	6	3	12	2.44	74	0.51	1	20	93	6.5	4.4	2.76	1.7	0.9	24.0	1	18.0	2.8	17.35	
104M14	925311	8	487349	6642043		6	lKg	2		0.6	6.6	1300	8.3	79	4	11	7	7	3.01	79	0.37	1	20	100	9.6	8.9	2.58	0.5	1.3	13.0	1	52.0	2.4	10.24	
104M14	925312	8	491007	6645994		6	lKg	2		0.3	0.5	1400	0.5	72	3	5	3	7	2.07	38	0.45	1	20	120	4.3	4.6	3.15	0.5	0.5	12.0	1	5.8	2.3	13.30	
104M14	925313	8	490546	6646276		6	Es	5		0.9	8.5	2000	6.6	89	6	11	6	11	3.07	51	0.56	1	20	110	6.2	11.0	2.32	0.5	0.5	17.0	1	12.0	3.5	14.71	
104M14	925314	8	494801	6649519		6	PMgn	10		0.4	7.1	870	11.0	69	3	50	13	15	4.82	40	0.62	1	20	65	5.9	16.0	2.13	1.2	1.0	16.0	1	9.1	4.1	16.80	
104M14	925315	8	495026	6649992		6	PMgn	10		0.5	16.0	880	12.0	67	3	67	16	16	5.51	38	0.60	1	20	49	6.0	16.0	1.85	0.8	0.9	7.7	1	18.0	3.7	19.44	
104M09	925317	8	535880	6609833		6	lJLa	92	24	1.3	6.8	1100	5.0	45	2	130	12	5	3.28	25	0.32	1	76	41	3.3	16.0	2.60	0.9	0.6	5.6	3	2.5	2.1	14.27	
104M09	925318	8	539137	6600294		6	PPmb	39	18	11.0	45.0	1100	11.0	33	7	100	18	3	4.65	19	0.33	1	20	32	3.1	19.0	1.44	0.5	0.5	4.4	3	4.5	2.2	17.52	
104M09	925319	8	542817	6599990		6	lJLa	13		11.0	43.0	890	14.0	35	6	110	15	5	4.45	21	0.35	1	50	65	3.1	17.0	1.93	0.6	0.5	5.9	1	2.7	2.3	18.32	
104M08	925320	8	543226	6595145		6	lJLa	19		5.3	150.0	1500	24.0	93	10	31	10	7	4.62	68	0.68	1	20	78	8.7	18.0	1.95	1.0	1.3	17.0	2	17.0	4.5	16.16	
104M08	925322	8	554363	6590223		6	lJLg	18		4.3	50.0	1100	6.1	54	7	130	17	7	4.93	31	0.43	1	20	80	4.2	15.0	2.24	0.5	0.6	9.8	3	12.0	2.6	19.04	
104M08	925323	8	554691	6590550		6	lJLg	2		3.0	20.0	1200	0.5	55	4	100	16	7	4.71	29	0.37	2	20	68	4.0	15.0	2.55	0.8	0.8	7.0	1	3.0	2.0	13.13	
104M08	925324	8	556419	6588573		6	lJLg	3		6.1	25.0	930	4.5	64	11	62	12	10	3.21	36	0.44	1	20	94	3.9	10.0	1.12	1.0	0.5	22.0	4	22.0	2.7	16.20	
104M08	925325	8	553874	6594216		6	lJLg	7		2.5	40.0	880	12.0	57	7	91	12	6	3.72	32	0.40	1	20	68	4.4	13.0	1.85	1.1	0.6	10.0	1	4.5	2.7	17.66	
104M08	925326	8	556338	6595560		6	lJLg	6		2.5	14.0	1300	2.2	44	3	86	10	6	3.19	25	0.31	1	40	62	3.4	11.0	2.60	0.5	0.5	6.4	1	2.7	2.1	17.99	
104M09	925327	8	554843	6598577		6	lJLa	2		2.6	11.0	980	6.6	42	3	88	5	5	2.25	25	0.33	1	20	46	3.7	11.0	1.94	0.7	0.5	6.0	1	3.3	2.1	17.77	

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M09	925328	8	555135	6602327	1200		6	lJLg	0	3	T	N	N	221	4.0	30	A	N	S	S	M	D	P	2	G	0808
104M09	925330	8	554847	6615395	1120		6	TP	0	2	T	N	N	221	2.0	75	A	N	S	S	M	D	P	2	G	0808
104M09	925331	8	554087	6617285	1200		6	TP	0	2	T	N	N	221	2.0	50	A	N	S	S	M	D	P	1	G	0808
104M09	925332	8	554902	6617960	1250		6	lKtv	0	2	T	N	N	212	2.0	15	A	N	S	S	M	D	P	2	G	0808
104M10	925333	8	518351	6613719	1000		6	PPmb	0	3	T	N	N	221	2.0	100	R	N	S	S	M	D	P	2	G	0908
104M10	925334	8	517389	6613838	900		6	PPmb	0	3	T	N	N	211	1.0	50	A	N	S	S	M	D	P	1	G	0908
104M10	925335	8	516533	6615855	950		6	PPmb	0	3	G	N	N	022	14.0	75	R	N	B	B	M	D	P	2	G	0908
104M10	925336	8	516402	6616395	1000		6	PPmb	0	3	T	N	N	221	7.0	75	C	N	B	S	M	D	P	1	G	0908
104M10	925337	8	515718	6617478	1050		6	PPmb	0	3	G	N	N	210	15.0	15	C	N	S	B	M	D	P	1	G	0908
104M10	925338	8	515703	6617095	1000		6	PPmb	0	3	G	N	N	211	11.0	15	C	N	S	B	M	D	P	1	G	0908
104M15	925339	8	508915	6628145	730	10	6	lKg	0	2	T	N	N	220	3.0	100	A	N	S	M	M	D	P	2	G	0908
104M15	925340	8	508915	6628145	730	20	6	lKg	0	2	T	N	N	220	3.0	100	A	N	S	M	M	D	P	2	G	0908
104M10	925342	8	515671	6619462	1000		6	PPmb	0	2	G	N	N	121	8.0	75	A	N	S	S	M	D	P	2	G	0908
104M10	925343	8	514413	6621634	1050	10	6	PPmb	0	3	T	N	N	221	2.0	50	O	N	S	S	M	D	P	1	G	0908
104M10	925344	8	514413	6621634	1050	20	6	PPmb	0	3	T	N	N	221	2.0	50	O	N	S	S	M	D	P	1	G	0908
104M15	925345	8	512187	6627891	1100		6	lKg	0	3	G	N	N	221	6.0	75	A	N	S	S	M	D	P	2	G	0908
104M15	925346	8	516560	6634155	1120		6	lKg	0	3	T	N	N	211	5.0	75	A	N	S	S	M	D	P	1	G	0908
104M15	925347	8	519103	6632826	1150		6	lKg	0	3	T	N	N	211	3.0	50	A	N	S	S	M	D	P	2	G	0908
104M15	925348	8	509354	6637724	920		6	Qal	0	3	T	N	N	220	2.0	15	C	N	S	S	M	D	P	1	G	0908
104M15	925349	8	508160	6638211	920		6	Qal	0	3	T	N	N	211	3.0	15	C	N	B	D	M	D	P	1	G	0908
104M15	925350	8	507065	6638298	920		6	Qal	0	3	T	N	N	211	3.0	15	C	N	B	D	M	D	P	1	G	0908
104M15	925351	8	503562	6631500	1300		6	lKg	0	2	T	N	N	311	9.0	100	A	N	S	S	M	D	P	1	G	0908
104M15	925352	8	507389	6635202	1400		6	lJLa	0	3	T	N	N	220	2.0	30	C	N	S	S	M	D	P	1	G	0908
104M15	925354	8	507058	6635129	1400		6	lKg	0	3	T	N	N	120	3.0	50	C	N	S	S	M	D	P	1	G	0908
104M15	925355	8	501656	6636772	730		6	lKg	0	3	T	N	P	120	2.0	25	C	N	S	S	M	D	P	1	G	0908
104M15	925356	8	505011	6637276	950		6	lKg	0	2	T	N	N	221	5.0	100	A	N	S	M	M	D	P	2	G	0908
104M15	925357	8	505466	6636981	950		6	lKg	0	2	T	N	N	220	7.0	100	A	N	S	S	M	D	P	2	G	0908
104M15	925358	8	505558	6638108	940		6	Qal	0	2	T	N	N	311	3.0	15	A	N	S	M	M	D	P	2	G	0908
104M15	925359	8	505229	6637959	990		6	Qal	0	2	T	N	N	210	3.0	25	A	N	S	S	M	D	P	1	G	0908
104M15	925360	8	502716	6639447	760		6	lKg	0	3	T	N	N	220	6.0	15	C	N	B	S	M	D	P	1	G	0908
104M15	925362	8	503408	6641593	730		6	lKg	0	3	T	N	N	211	2.0	50	A	N	S	S	M	D	P	1	G	0908
104M15	925363	8	503216	6640917	800		6	lKg	0	3	G	N	N	121	6.0	75	A	N	B	S	M	D	P	2	G	0908
104M15	925364	8	504205	6642828	800		6	lmJv	0	3	T	N	N	013	0.3	10	O	N	S	S	M	D	P	1	G	0908
104M15	925365	8	504494	6643345	730		6	lmJv	0	3	T	N	P	221	5.0	50	A	N	S	S	M	D	P	2	G	0908
104M15	925366	8	505209	6645254	730		6	PTgd	0	2	T	N	N	212	2.0	25	A	N	S	S	M	D	P	1	G	0908
104M15	925367	8	506732	6645108	950	10	6	lJLa	0	3	T	N	N	121	7.0	25	A	N	S	S	M	D	P	2	G	0908
104M15	925368	8	506732	6645108	950	20	6	lJLa	0	3	T	N	N	121	7.0	75	A	N	S	S	M	D	P	2	G	0908
104M15	925369	8	505685	6646995	730		6	lJLa	0	2	G	N	N	121	3.0	35	A	N	S	S	M	D	P	2	G	0908
104M15	925370	8	505573	6647478	700		6	lJLa	0	3	T	N	N	211	2.0	75	R	N	S	S	M	D	P	1	G	0908
104M15	925371	8	504323	6650045	700		6	lJLa	0	3	G	N	N	220	6.0	100	C	N	S	S	M	D	P	1	G	0908

FIELD OBSERVATIONS AND ANALYTICAL DATA

								Water				Stream Sediment													
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
	SAMPLE	UTM	UTM	UTM			ppb	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	ION	LIF	TURB	GCE	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M09	925328	8	555135	6602327		6	lJLg	50	0.33	8.4	7.6	1.6	9.5	0.2	0.4	9	31	250	2.60	9	359	50	2	16	0.3	55	90	14.2	
104M09	925330	8	554847	6615395		6	TP	90	0.05	38.0	7.7	1.3	12.0	0.5	0.5	9	21	290	2.50	15	300	100	2	22	0.2	26	90	14.3	
104M09	925331	8	554087	6617285		6	TP	50	0.19	8.0	7.9	0.9	6.4	0.2	0.2	7	15	300	1.60	9	196	50	2	14	0.2	21	49	11.7	
104M09	925332	8	554902	6617960		6	lKtv	50	0.12	3.7	7.8	1.3	34.0	0.2	0.3	8	18	310	2.30	11	295	70	2	19	0.3	29	67	13.6	
104M10	925333	8	518351	6613719		6	PPmb	60	0.05	1.6	7.3	1.0	34.0	0.2	0.3	17	35	430	2.90	15	445	40	2	47	0.3	72	89	11.2	
104M10	925334	8	517389	6613838		6	PPmb	50	0.05	1.2	7.0	1.4	19.0	0.3	1.1	16	42	700	4.20	32	790	50	3	39	0.3	88	149	18.0	
104M10	925335	8	516533	6615855		6	PPmb	50	0.05	2.7	7.1	2.5	130.0	1.2	0.9	19	74	600	3.40	36	484	30	1	44	0.6	89	167	8.6	
104M10	925336	8	516402	6616395		6	PPmb	50	0.05	1.4	6.8	1.2	60.0	1.1	0.3	25	99	350	3.00	21	414	30	2	29	0.3	91	112	10.1	
104M10	925337	8	515718	6617478		6	PPmb	30	0.05	0.8	6.7	0.7	11.0	0.2	0.3	20	101	330	2.40	10	265	20	2	13	0.2	68	67	5.0	
104M10	925338	8	515703	6617095		6	PPmb	30	0.05	0.5	6.2	1.4	23.0	0.6	0.4	19	73	320	2.50	16	353	30	2	21	0.2	79	81	5.9	
104M15	925339	8	508915	6628145	10	6	lKg	130	0.66	0.6	7.3	0.2	3.0	0.2	0.2	5	7	310	1.80	5	319	30	4	4	0.2	33	50	10.5	
104M15	925340	8	508915	6628145	20	6	lKg	140	0.61	0.6	7.4	0.2	2.8	0.2	0.2	4	9	250	1.40	4	232	20	3	3	0.2	26	41	7.0	
104M10	925342	8	515671	6619462		6	PPmb	40	0.11	14.0	7.5	3.1	145.0	0.3	0.8	13	51	320	2.40	34	440	20	2	23	0.6	61	99	6.2	
104M10	925343	8	514413	6621634	10	6	PPmb	40	0.54	28.0	7.7	2.1	125.0	0.3	0.6	15	68	290	3.00	12	456	40	3	39	0.4	98	87	13.0	
104M10	925344	8	514413	6621634	20	6	PPmb	40	0.54	28.0	7.7	2.0	85.0	0.2	0.6	15	65	350	2.90	11	444	30	3	38	0.3	102	81	11.7	
104M15	925345	8	512187	6627891		6	lKg	40	0.36	16.0	7.4	5.1	265.0	1.0	1.1	15	56	220	2.90	26	405	20	3	27	0.6	81	102	6.1	
104M15	925346	8	516560	6634155		6	lKg	30	0.05	0.3	6.8	0.4	4.8	0.2	0.2	5	15	290	1.70	15	241	30	7	21	0.2	42	41	16.0	
104M15	925347	8	519103	6632826		6	lKg	40	0.05	0.9	7.0	0.6	5.8	0.3	0.2	6	11	210	2.00	6	223	30	8	18	0.2	44	30	12.9	
104M15	925348	8	509354	6637724		6	Qal	70	0.05	24.0	7.2	18.0	1000.0	13.5	3.0	20	180	700	4.00	62	1400	960	14	21	1.2	54	178	4.4	
104M15	925349	8	508160	6638211		6	Qal	140	0.75	51.0	7.7	20.0	425.0	13.0	2.7	24	230	640	4.10	39	960	40	15	45	1.2	91	227	11.0	
104M15	925350	8	507065	6638298		6	Qal	160	2.71	85.0	7.7	24.0	1000.0	2.8	3.4	25	130	520	5.00	76	980	30	22	42	1.3	68	286	16.9	
104M15	925351	8	503562	6631500		6	lKg	50	0.45	0.3	6.6	0.2	4.0	0.3	0.2	2	3	140	0.50	10	210	10	2	2	0.2	6	36	4.1	
104M15	925352	8	507389	6635202		6	lJLa	40	0.05	27.0	7.0	5.2	300.0	2.5	1.2	14	44	620	3.60	29	571	20	10	21	0.7	73	169	5.1	
104M15	925354	8	507058	6635129		6	lKg	50	0.05	9.1	6.4	3.2	160.0	1.4	1.2	12	33	420	3.10	28	542	20	8	14	0.3	69	154	5.9	
104M15	925355	8	501656	6636772		6	lKg	110	1.63	1.7	7.1	0.2	1.8	0.4	0.3	2	5	260	1.10	15	329	20	3	2	0.2	15	55	4.9	
104M15	925356	8	505011	6637276		6	lKg	40	1.50	0.2	6.7	0.2	0.8	0.3	0.2	2	3	310	0.40	10	132	10	3	2	0.2	14	45	3.6	
104M15	925357	8	505466	6636981		6	lKg	40	0.52	0.4	6.9	0.2	0.7	0.3	0.2	2	2	220	0.55	8	113	10	3	2	0.2	15	37	1.6	
104M15	925358	8	505558	6638108		6	Qal	60	0.05	43.0	7.4	28.0	1250.0	0.9	0.4	15	71	700	4.90	29	512	20	42	22	0.5	76	129	8.8	
104M15	925359	8	505229	6637959		6	Qal	60	5.36	31.0	7.8	1.4	60.0	1.6	0.3	6	23	570	1.70	22	430	10	7	6	0.4	38	84	5.2	
104M15	925360	8	502716	6639447		6	lKg	100	3.46	1.0	7.3	0.2	9.0	1.4	0.2	3	10	450	1.30	15	326	10	2	3	0.2	26	54	1.9	
104M15	925362	8	503408	6641593		6	lKg	70	0.05	45.0	6.9	20.0	1300.0	1.1	2.1	25	43	510	4.10	18	722	50	20	31	0.7	70	158	25.0	
104M15	925363	8	503216	6640917		6	lKg	50	0.05	25.0	7.1	63.0	1250.0	1.9	1.0	18	94	580	4.00	65	418	50	6	40	1.4	82	135	9.9	
104M15	925364	8	504205	6642828		6	lmJv	60	0.19	32.0	7.6	10.5	1300.0	0.6	0.4	12	65	260	4.20	14	565	40	7	17	0.5	84	92	24.5	
104M15	925365	8	504494	6643345		6	lmJv	40	0.47	16.0	7.7	125.0	470.0	0.5	2.8	11	29	460	2.30	115	870	20	2	16	2.3	33	136	5.8	
104M15	925366	8	505209	6645254		6	PTgd	50	2.03	68.0	8.1	4.8	54.0	0.2	0.4	6	22	2220	1.50	11	216	20	2	11	0.2	26	57	7.4	
104M15	925367	8	506732	6645108	10	6	lJLa	50	4.23	213.0	8.2	14.5	160.0	0.4	1.8	12	44	430	2.80	20	480	110	9	45	0.2	27	204	3.3	
104M15	925368	8	506732	6645108	20	6	lJLa	60	4.29	213.0	8.2	14.0	165.0	0.4	1.8	13	46	460	3.10	19	481	100	8	45	0.2	26	199	3.4	
104M15	925369	8	505685	6646995		6	lJLa	60	1.57	123.0	8.2	14.0	160.0	0.2	1.8	14	50	450	3.00	15	577	100	9	47	0.2	34	195	3.7	
104M15	925370	8	505573	6647478		6	lJLa	50	0.05	77.0	7.6	4.5	160.0	0.3	0.5	20	59	300	4.20	21	391	30	8	35	0.2	84	142	16.7	
104M15	925371	8	504323	6650045		6	lJLa	30	0.08	7.8	7.7	5.2	42.0	0.3	0.3	26	110	250	3.70	19	435	10	2	42	0.3	108	66	4.1	

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Stream Sediment																								
							Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	:D.L.
							2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:Unit
MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g	:Mthd
104M09	925328	8	555135	6602327		6	lJLg	2		2.2	13.0	1200	18.0	45	6	110	11	6	3.07	26	0.43	1	20	67	4.0	14.0	2.17	0.5	0.7	6.6	1	18.0	2.7	16.65	
104M09	925330	8	554847	6615395		6	TP	8		2.8	17.0	1300	11.0	55	7	98	10	8	3.02	37	0.38	1	20	78	4.8	12.0	1.66	0.5	0.5	11.0	1	7.0	2.7	17.05	
104M09	925331	8	554087	6617285		6	TP	15		2.7	9.8	1100	15.0	56	9	78	9	8	2.50	34	0.38	1	20	54	4.1	10.0	1.62	0.5	0.5	11.0	2	5.0	2.0	19.82	
104M09	925332	8	554902	6617960		6	lKtv	12		2.7	36.0	1200	19.0	50	9	80	9	7	2.78	36	0.38	1	20	47	4.5	11.0	1.52	0.5	0.5	11.0	1	7.0	2.2	16.26	
104M10	925333	8	518351	6613719		6	PPmb	12		2.1	34.0	940	20.0	57	4	270	20	4	4.44	29	0.41	1	20	48	4.9	18.0	1.76	0.6	0.5	7.3	1	7.4	2.8	19.43	
104M10	925334	8	517389	6613838		6	PPmb	6		3.1	24.0	890	11.0	52	8	160	16	4	4.91	28	0.44	1	84	66	4.8	19.0	1.73	0.5	0.8	7.4	1	4.1	2.8	17.44	
104M10	925335	8	516533	6615855		6	PPmb	13		4.1	93.0	910	14.0	50	9	180	22	4	5.48	25	0.40	1	180	67	4.4	19.0	1.85	0.5	0.5	8.5	1	7.7	3.0	17.61	
104M10	925336	8	516402	6616395		6	PPmb	2		2.6	62.0	790	9.6	40	7	130	37	4	7.67	19	0.45	1	20	35	4.2	28.0	1.87	0.5	0.5	5.5	1	2.9	3.0	17.39	
104M10	925337	8	515718	6617478		6	PPmb	8		2.0	13.0	770	0.5	35	3	71	32	3	7.31	18	0.36	1	20	15	3.7	28.0	2.20	0.5	0.5	3.9	1	2.8	2.5	19.93	
104M10	925338	8	515703	6617095		6	PPmb	2		3.4	28.0	850	4.5	42	5	120	31	4	7.13	21	0.44	1	20	36	4.3	26.0	2.10	0.5	0.8	5.2	1	2.3	3.0	17.73	
104M15	925339	8	508915	6628145	10	6	lKg	7		0.4	5.2	1200	8.9	130	3	21	7	15	3.37	92	0.65	1	93	88	8.3	8.5	2.12	2.8	1.2	34.0	1	36.0	3.4	18.03	
104M15	925340	8	508915	6628145	20	6	lKg	12	4	0.7	5.8	1200	7.9	160	3	29	6	17	3.82	100	0.70	1	90	90	9.1	8.5	2.42	3.0	0.5	37.0	1	28.0	4.3	15.27	
104M10	925342	8	515671	6619462		6	PPmb	16		4.6	110.0	1300	9.8	49	3	81	15	4	4.10	27	0.57	1	80	69	4.3	17.0	1.87	0.5	0.5	7.5	1	7.4	3.3	17.62	
104M10	925343	8	514413	6621634	10	6	PPmb	17	2	3.5	84.0	770	30.0	48	5	180	20	4	4.83	27	0.38	1	20	48	3.4	20.0	1.69	0.5	0.7	7.3	1	17.0	2.4	16.73	
104M10	925344	8	514413	6621634	20	6	PPmb	13		3.4	84.0	850	26.0	47	4	180	21	4	4.88	29	0.38	1	20	66	3.5	20.0	1.74	0.5	0.5	6.5	1	16.0	2.4	18.61	
104M15	925345	8	512187	6627891		6	lKg	44	29	8.3	260.0	850	16.0	75	6	120	22	7	5.20	47	0.52	1	20	68	5.0	20.0	1.67	0.5	0.5	16.0	1	15.0	2.8	16.68	
104M15	925346	8	516560	6634155		6	lKg	10		1.1	5.1	810	32.0	62	5	130	10	10	2.42	38	0.40	1	20	77	2.9	9.7	1.86	0.5	0.5	16.0	1	39.0	2.3	15.58	
104M15	925347	8	519103	6632826		6	lKg	2		1.5	7.9	800	5.6	78	4	230	9	16	3.80	48	0.49	1	20	82	3.5	10.0	1.96	1.2	0.5	25.0	6	18.0	2.6	19.74	
104M15	925348	8	509354	6637724		6	Qal	72	76	18.0	1000.0	970	0.5	220	25	22	24	7	5.28	110	0.71	1	20	190	9.4	11.0	1.92	0.5	0.5	45.0	20	21.0	3.8	16.05	
104M15	925349	8	508160	6638211		6	Qal	27	44	24.0	320.0	840	4.0	77	30	140	28	5	6.76	52	0.50	1	20	140	6.3	18.0	1.23	0.5	1.2	18.0	65	10.0	3.7	16.59	
104M15	925350	8	507065	6638298		6	Qal	61	63	27.0	670.0	810	4.6	72	17	45	27	4	7.05	41	0.39	1	73	78	4.7	14.0	0.70	0.5	0.5	15.0	11	11.0	2.5	19.88	
104M15	925351	8	503562	6631500		6	lKg	5		0.4	1.6	400	9.2	120	8	5	2	10	1.39	65	1.04	1	20	160	7.8	3.8	3.25	1.3	1.3	64.0	1	62.0	6.2	16.75	
104M15	925352	8	507389	6635202		6	lJLa	46	50	6.2	260.0	1000	8.3	86	16	25	15	10	4.67	67	0.63	1	20	110	6.3	11.0	1.75	1.1	1.0	36.0	8	25.0	3.2	19.58	
104M15	925354	8	507058	6635129		6	lKg	37	46	4.7	150.0	1100	7.3	99	13	28	13	14	4.30	55	0.68	1	20	140	5.9	11.0	1.98	1.7	0.5	47.0	1	20.0	3.7	18.98	
104M15	925355	8	501656	6636772		6	lKg	2		0.6	4.2	710	6.2	130	11	5	3	11	1.66	75	1.01	1	20	170	8.3	4.1	2.59	3.0	1.4	68.0	1	57.0	6.1	18.28	
104M15	925356	8	505011	6637276		6	lKg	2		0.5	2.9	590	0.5	67	7	5	2	8	0.97	37	0.65	1	20	170	4.3	4.2	2.71	2.1	0.9	33.0	1	31.0	4.4	17.46	
104M15	925357	8	505466	6636981		6	lKg	2		0.5	3.3	650	1.6	120	5	6	2	14	1.53	67	1.10	1	20	180	8.0	3.7	3.03	3.7	1.5	54.0	4	34.0	6.8	17.80	
104M15	925358	8	505558	6638108		6	Qal	16		28.0	1100.0	910	4.9	60	12	41	16	4	6.16	34	0.41	26	20	90	4.3	14.0	1.20	1.4	0.6	14.0	6	11.0	2.6	19.66	
104M15	925359	8	505229	6637959		6	Qal	25	17	2.1	53.0	950	10.0	84	10	19	7	10	2.90	50	0.68	1	20	170	4.9	7.1	2.19	1.5	1.1	36.0	12	48.0	4.4	17.74	
104M15	925360	8	502716	6639447		6	lKg	2		0.6	8.1	840	0.5	89	12	9	5	9	2.24	49	0.60	1	20	180	4.8	5.1	2.68	3.2	0.5	41.0	9	34.0	3.6	20.00	
104M15	925362	8	503408	6641593		6	lKg	41	47	22.0	1100.0	740	18.0	39	8	35	24	3	3.72	28	0.30	1	20	59	2.4	7.7	0.87	0.5	0.5	8.5	6	46.0	1.8	19.80	
104M15	925363	8	503216	6640917		6	lKg	41	52	69.0	910.0	760	30.0	48	16	110	20	4	5.11	28	0.38	1	20	120	3.1	14.0	0.90	1.2	0.7	13.0	1	36.0	2.4	19.72	
104M15	925364	8	504205	6642828		6	lmJv	41	31	13.0	1100.0	770	41.0	57	7	32	13	5	4.38	32	0.40	1	20	54	3.7	12.0	1.20	0.5	0.8	9.3	1	44.0	2.5	18.55	
104M15	925365	8	504494	6643345		6	lmJv	287	157	140.0	390.0	1300	6.0	61	11	64	14	7	4.13	34	0.35	1	20	110	3.9	11.0	2.03	0.5	0.6	11.0	1	7.9	2.4	16.49	
104M15	925366	8	505209	6645254		6	PTgd	317	110	4.3	48.0	950	4.2	60	6	42	6	7	2.46	34	0.39	1	20	91	3.8	7.4	2.01	1.3	0.5	12.0	1	6.3	2.6	18.01	
104M15	925367	8	506732	6645108	10	6	lJLa	16	15	17.0	170.0	1100	0.5	52	10	60	13	7	3.68	28	0.48	6	20	120	4.0	13.0	1.47	1.1	0.5	9.8	1	4.6	3.0	16.27	
104M15	925368	8	506732	6645108	20	6	lJLa	9		17.0	170.0	1200	0.5	51	10	65	14	7	3.83	29	0.50	4	20	110	4.2	13.0	1.45	0.5	0.7	11.0	1	4.7	3.2	16.18	
104M15	925369	8	505685	6646995		6	lJLa	8		16.0	160.0	1400	0.7	52	9	69	15	6	4.06	30	0.47	6	100	80	4.3	14.0	1.23	1.1	0.8	9.6	1	4.3	3.0	16.60	
104M15	925370	8	505573	6647478		6	lJLa	18		6.2	160.0	980	16.0	58	9	64	21	4	5.04	32	0.35	1	61	47	4.1	13.0	1.15	0.5	0.7	9.4	1	6.2	2.0	16.29	
104M15	925371	8	504323	6650045		6	lJLa	16		9.8	49.0	230	7.6	17	6	590	56	2	10.80	8	0.26	1	20	50	2.6	71.0	0.70	0.5	0.5	1.9	1	0.5	1.7	18.76	

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M15	925372	8	508726	6650126	1350		6	lJLa	0	2	T	N	N	221	9.0	25	C	N	S	S	M	D	P	2	G	0908
104M15	925374	8	511855	6649523	1300		6	Kqm	0	2	T	N	N	211	3.0	75	A	N	S	S	M	D	P	2	G	0908
104M15	925375	8	512620	6648619	1300		6	Qal	0	2	T	N	N	112	2.0	25	A	N	S	M	M	D	P	1	G	0908
104M15	925376	8	515190	6649462	1130		6	lJLg	0	2	G	N	N	113	0.5	75	O	N	S	S	M	D	P	1	G	0908
104M09	925377	8	536619	6596380	1400		6	eJgd	0	3	T	N	N	130	3.0	50	A	N	S	S	M	D	P	2	G	1008
104M10	925378	8	503121	6603155	1350		6	KTg	0	2	T	N	N	220	1.0	30	A	N	S	M	M	D	P	1	G	1008
104M10	925379	8	500801	6603492	1220		6	KTg	0	2	T	N	N	220	2.0	15	A	N	S	S	M	D	P	1	G	1008
104M10	925380	8	500544	6602319	1060		6	KTg	2	3	T	N	N	120	5.0	125	R	N	B	S	M	D	P	3	G	1008
104M11	925382	8	499827	6601301	1000	10	6	KTg	2	3	G	N	N	120	5.0	100	A	N	S	S	M	D	P	2	G	1008
104M11	925383	8	499827	6601301	1000	20	6	KTg	2	3	G	N	N	120	5.0	110	A	N	S	S	M	D	P	2	G	1008
104M15	925384	8	510664	6641317	950		6	lJLg	0	3	T	N	N	221	7.0	50	C	N	S	S	M	D	P	1	G	1008
104M15	925385	8	509372	6645168	1200		6	Qal	0	3	T	N	N	211	2.0	75	A	N	S	S	M	D	P	1	G	1008
104M15	925386	8	509739	6645375	1200		6	Qal	0	2	T	N	N	220	1.0	50	A	N	S	S	M	D	P	1	G	1008
104M15	925387	8	512220	6647712	1250		6	Kqm	3	2	T	N	N	130	2.0	50	O	N	S	S	M	D	P	2	G	1008
104M15	925388	8	520535	6648769	920		6	lJLa	0	2	G	N	N	211	3.0	25	O	N	S	M	M	D	P	1	G	1008
104M15	925390	8	527157	6648277	1200		6	TP	0	2	T	N	N	221	3.0	25	A	N	S	M	M	D	P	1	G	1008
104M15	925391	8	527323	6643678	1060		6	eTg	0	3	T	N	N	211	3.0	75	A	N	S	S	M	D	P	2	G	1008
104M15	925392	8	527029	6643809	1060		6	eTg	0	3	T	N	N	310	5.0	100	A	N	S	S	M	D	P	2	G	1008
104M15	925393	8	523074	6643451	1000		6	lJLa	0	3	T	N	N	220	4.0	75	A	N	S	S	M	D	P	2	G	1008
104M16	925394	8	531299	6648287	1200		6	MTCl	0	2	T	W	N	220	3.0	50	C	N	S	S	M	D	P	2	G	1008
104M16	925395	8	535037	6646473	750		6	Qal	0	1	G	N	N	111	15.0	10	O	N	S	D	M	D	P	1	G	1008
104M16	925396	8	540732	6647009	800		6	Qal	0	1	G	N	N	112	4.0	10	O	N	S	M	M	D	P	1	G	1008
104M16	925397	8	533424	6638537	1160		6	lJLg	0	2	T	N	N	013	2.0	75	O	N	S	M	M	D	P	1	G	1008
104M16	925398	8	531119	6636468	1280		6	lJLg	0	3	T	N	N	221	3.0	75	A	N	S	S	M	D	P	2	G	1008
104M16	925399	8	530829	6636179	1280		6	lJLg	0	3	T	N	N	212	5.0	75	A	N	S	S	H	D	P	2	G	1008
104M16	925400	8	530253	6637212	1200		6	Qal	0	2	T	N	N	120	7.0	50	C	N	S	S	H	D	P	2	G	1008
104M16	925402	8	551501	6631874	1040		6	eTg	0	2	T	N	N	112	2.0	10	O	N	S	M	H	D	P	1	G	1008
104M16	925403	8	550506	6642040	700		1	Qal			T	N	N	210	10.0	75	A	N	S	S	M	D	P	1	G	1008
104M16	925404	8	548654	6643013	725		1	Qal			G	N	N	210	10.0	50	A	N	S	S	M	D	P	2	G	1008
104M16	925405	8	547447	6637261	1000		1	MTCl			T	N	N	121	2.0	15	A	N	S	S	M	D	P	1	G	1008
104M16	925406	8	543656	6649905	660		6	Qal	0	3	G	N	N	221	4.0	75	A	N	S	S	M	D	P	1	G	1008
104M16	925407	8	536293	6636335	1040		1	lJLg			T	N	N	221	15.0	50	O	N	S	B	M	D	P	1	G	1008
104M16	925408	8	545209	6630962	730	10	6	MTCl	0	1	G	N	N	131	2.0	100	A	N	S	M	M	D	P	2	G	1008
104M16	925409	8	545209	6630962	730	20	6	MTCl	0	1	G	N	N	131	2.0	100	A	N	S	M	M	D	P	2	G	1008
104M16	925410	8	549550	6627097	1000		6	TP	0	2	T	N	N	013	1.0	10	O	N	S	M	M	D	P	1	G	1008
104M16	925411	8	553845	6628553	1100		6	eTg	2	3	G	N	N	130	3.0	50	A	N	S	S	M	D	P	1	G	1008
104M09	925413	8	552470	6617392	800		6	lJLg	0	2	T	N	N	013	2.0	50	O	N	S	M	M	D	P	1	G	1008
104M09	925414	8	547717	6618746	730		6	Qal	0	2	T	N	N	112	1.0	50	C	N	S	M	M	D	P	1	G	1008
104M09	925415	8	551834	6620314	1000		6	Qal	0	2	T	N	N	112	1.0	50	C	N	S	S	M	D	P	1	G	1008
104M12	925416	8	445058	6615565	1020		6	KTg	0	3	T	N	N	220	5.0	120	T	N	S	S	Y	D	P	2	G	1308

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Water				Stream Sediment													
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
	SAMPLE	UTM	UTM	UTM			ppb	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	ION	LIF	TURB	GCE	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M15	925372	8	508726	6650126		6	lJLa	40	0.13	18.0	7.7	6.5	69.0	0.3	0.9	11	29	330	2.20	18	483	130	3	21	0.3	44	101	3.0	
104M15	925374	8	511855	6649523		6	Kqm	40	0.22	5.3	7.5	4.4	58.0	0.5	1.0	11	28	320	2.50	47	462	40	2	15	0.3	45	112	5.9	
104M15	925375	8	512620	6648619		6	Qal	40	0.05	17.0	7.7	1.5	22.0	0.3	1.0	9	30	330	3.20	14	599	40	3	12	0.3	49	126	18.1	
104M15	925376	8	515190	6649462		6	lJLg	40	0.05	3.6	7.6	2.0	24.0	0.2	0.7	16	44	330	4.40	17	980	110	7	21	0.6	60	122	16.1	
104M09	925377	8	536619	6596380		6	eJgd	40	0.05	0.7	6.8	0.2	1.1	0.2	0.2	7	10	390	1.60	3	250	10	1	4	0.2	39	48	1.2	
104M10	925378	8	503121	6603155		6	KTg	190	0.09	0.4	6.9	0.2	0.8	0.2	0.2	5	6	870	2.30	15	533	10	7	4	0.2	27	78	5.8	
104M10	925379	8	500801	6603492		6	KTg	470	3.95	1.2	7.5	0.2	0.3	0.2	0.2	6	6	910	1.60	10	402	10	2	4	0.2	15	61	2.2	
104M10	925380	8	500544	6602319		6	KTg	130	0.21	0.8	7.1	0.2	0.2	0.2	0.2	5	4	550	1.40	2	243	10	1	3	0.2	40	46	1.2	
104M11	925382	8	499827	6601301	10	6	KTg	50	0.06	0.4	7.2	0.2	1.2	0.2	0.2	3	4	350	0.80	2	125	10	2	2	0.2	22	26	0.4	
104M11	925383	8	499827	6601301	20	6	KTg	50	0.07	0.4	7.2	0.2	0.9	0.2	0.2	3	4	360	0.70	2	125	10	1	2	0.2	23	29	0.6	
104M15	925384	8	510664	6641317		6	lJLg	70	0.08	34.0	7.6	12.5	165.0	6.4	1.0	15	116	410	3.60	21	628	30	9	17	0.6	68	91	11.3	
104M15	925385	8	509372	6645168		6	Qal	60	0.05	11.0	7.5	3.1	48.0	0.4	1.4	13	38	390	3.30	20	523	30	4	22	0.4	60	124	9.5	
104M15	925386	8	509739	6645375		6	Qal	50	0.05	27.0	7.8	2.1	34.0	0.4	0.3	8	24	360	2.00	11	310	20	2	12	0.2	48	60	4.3	
104M15	925387	8	512220	6647712		6	Kqm	70	0.05	4.0	7.6	6.8	75.0	1.4	0.7	18	43	310	2.20	34	810	20	2	20	0.2	51	89	3.1	
104M15	925388	8	520535	6648769		6	lJLa	60	0.38	6.5	8.1	1.2	3.0	0.2	0.2	9	68	320	3.20	5	242	40	6	30	0.2	58	80	12.9	
104M15	925390	8	527157	6648277		6	TP	80	0.11	4.3	7.7	1.6	17.0	0.2	0.3	11	27	330	2.40	12	411	130	2	20	0.2	46	85	7.6	
104M15	925391	8	527323	6643678		6	eTg	140	0.17	0.6	7.0	1.0	23.0	0.6	1.2	8	33	420	1.70	11	246	20	2	15	0.2	59	103	4.9	
104M15	925392	8	527029	6643809		6	eTg	120	0.09	0.4	6.8	0.7	21.0	0.9	0.6	10	22	560	2.00	14	368	10	2	11	0.2	58	89	2.9	
104M15	925393	8	523074	6643451		6	lJLa	60	0.05	4.4	7.0	1.5	25.0	0.3	0.4	11	53	460	2.30	15	205	10	2	23	0.2	81	88	2.4	
104M16	925394	8	531299	6648287		6	MTCl	1920	0.05	110.0	5.0	0.6	11.0	0.3	0.2	12	13	910	3.40	14	960	470	3	5	0.2	28	80	7.0	
104M16	925395	8	535037	6646473		6	Qal	120	0.75	4.9	8.2	0.2	1.4	0.2	0.2	3	10	310	0.30	2	86	50	5	8	0.2	25	16	5.6	
104M16	925396	8	540732	6647009		6	Qal	240	6.08	5.1	8.2	0.4	3.8	0.2	0.2	4	12	310	0.30	3	210	10	6	7	0.3	27	20	19.6	
104M16	925397	8	533424	6638537		6	lJLg	50	0.05	3.3	7.5	1.8	26.0	0.2	0.7	9	30	240	2.00	8	366	50	2	25	0.3	58	77	17.3	
104M16	925398	8	531119	6636468		6	lJLg	50	0.05	0.4	7.0	1.0	6.4	0.3	0.7	7	20	240	1.40	14	198	10	2	13	0.2	43	70	3.1	
104M16	925399	8	530829	6636179		6	lJLg	30	0.05	2.1	7.2	1.0	11.0	0.2	0.4	7	23	240	1.80	10	227	20	2	16	0.2	60	57	6.7	
104M16	925400	8	530253	6637212		6	Qal	30	0.05	0.4	6.9	0.5	5.2	0.2	0.5	6	12	220	0.90	11	210	10	1	10	0.2	31	38	1.5	
104M16	925402	8	551501	6631874		6	eTg	50	4.29	5.8	8.0	0.5	4.1	0.2	0.2	7	19	290	1.30	6	137	30	1	17	0.2	43	45	3.6	
104M16	925403	8	550506	6642040		1	Qal					1.3	9.0	0.2	0.6	7	25	240	1.00	12	257	30	3	19	0.2	43	48	1.8	
104M16	925404	8	548654	6643013		1	Qal					1.0	7.2	0.2	0.6	6	18	310	0.70	6	166	40	4	17	0.2	45	46	3.3	
104M16	925405	8	547447	6637261		1	MTCl					2.0	15.0	0.2	1.0	6	19	260	0.45	8	100	120	6	18	0.3	37	55	4.8	
104M16	925406	8	543656	6649905		6	Qal	80	1.22	4.0	8.1	0.4	5.2	0.2	0.3	3	11	290	0.45	5	244	30	4	10	0.2	30	30	6.1	
104M16	925407	8	536293	6636335		1	lJLg					0.8	32.0	0.2	0.6	8	21	300	1.90	12	360	40	3	17	0.2	49	64	11.5	
104M16	925408	8	545209	6630962	10	6	MTCl	70	0.83	6.1	8.2	0.4	3.1	0.2	0.2	7	13	200	1.70	4	410	30	2	14	0.2	31	37	6.4	
104M16	925409	8	545209	6630962	20	6	MTCl	70	0.90	6.2	8.2	0.3	3.3	0.2	0.2	7	12	210	1.80	3	421	30	1	15	0.2	33	40	7.2	
104M16	925410	8	549550	6627097		6	TP	50	0.28	13.0	7.9	1.1	10.5	0.2	0.2	6	39	260	1.70	7	207	70	2	11	0.2	33	50	12.1	
104M16	925411	8	553845	6628553		6	eTg	40	6.00	26.0	7.9	0.3	3.2	0.2	0.2	20	71	660	2.50	12	398	20	3	54	0.2	69	62	1.8	
104M09	925413	8	552470	6617392		6	lJLg	50	0.75	14.0	8.2	0.9	5.6	0.2	0.2	8	17	300	1.40	5	181	50	2	30	0.2	32	38	3.9	
104M09	925414	8	547717	6618746		6	Qal	60	1.11	23.0	8.2	0.5	7.6	0.2	0.3	6	26	250	1.50	2	271	40	2	14	0.2	29	44	9.4	
104M09	925415	8	551834	6620314		6	Qal	40	0.12	6.2	7.9	5.4	48.0	1.0	0.3	21	71	400	4.30	24	1020	80	3	21	0.2	60	122	8.6	
104M12	925416	8	445058	6615565		6	KTg	40	0.09	8.7	7.4	0.2	1.1	0.2	0.2	9	47	430	1.40	2	170	10	2	15	0.2	39	44	1.2	

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Stream Sediment																								
							Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	:D.L.
							2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:Unit
MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g	:Mthd
104M15	925372	8	508726	6650126		6	lJLa	17		20.0	75.0	1400	2.1	64	6	63	14	7	4.27	36	0.43	1	65	98	4.4	12.0	1.81	1.1	0.7	12.0	5	5.6	2.9	16.68	
104M15	925374	8	511855	6649523		6	Kgm	2		14.0	71.0	1300	9.7	67	9	64	14	7	4.77	39	0.54	1	20	100	4.8	13.0	1.86	1.6	0.5	13.0	1	7.0	3.2	15.65	
104M15	925375	8	512620	6648619		6	Qal	18		4.2	26.0	1200	11.0	54	8	55	12	6	3.74	30	0.39	1	20	75	4.2	14.0	1.55	0.5	0.5	10.0	1	7.1	2.7	15.46	
104M15	925376	8	515190	6649462		6	lJLg	9		2.6	30.0	1100	12.0	41	7	70	17	4	4.83	22	0.39	1	20	71	3.7	15.0	1.86	0.5	0.5	6.7	1	6.1	2.5	17.70	
104M09	925377	8	536619	6596380		6	eJgd	2		0.4	0.5	1200	2.8	41	1	25	10	6	3.83	20	0.40	1	20	60	4.0	14.0	2.79	0.5	0.5	5.2	1	1.8	2.6	16.27	
104M10	925378	8	503121	6603155		6	KTg	3		0.2	0.5	980	7.0	140	4	17	7	19	3.44	79	0.91	1	20	100	8.9	11.0	2.21	1.5	1.3	40.0	1	55.0	5.9	16.99	
104M10	925379	8	500801	6603492		6	KTg	2		0.2	1.5	860	0.5	120	3	17	7	15	3.25	62	0.87	1	20	150	8.9	8.5	2.06	2.4	1.5	37.0	4	15.0	5.7	16.45	
104M10	925380	8	500544	6602319		6	KTg	2		0.4	0.5	1400	0.5	120	1	22	9	21	4.37	69	0.64	1	20	44	8.2	17.0	2.63	1.3	1.2	22.0	1	11.0	4.1	17.06	
104M11	925382	8	499827	6601301	10	6	KTg	2	2	0.3	1.3	1600	0.5	88	2	18	7	11	3.12	50	0.37	1	20	52	5.8	12.0	2.71	1.2	0.9	17.0	1	4.9	2.4	16.51	
104M11	925383	8	499827	6601301	20	6	KTg	7		0.2	2.0	1800	0.5	96	1	19	7	13	3.28	53	0.42	1	20	59	6.3	13.0	2.87	0.9	0.8	18.0	1	5.3	2.5	17.63	
104M15	925384	8	510664	6641317		6	lJLg	22		18.0	170.0	900	5.4	56	19	63	17	5	4.27	31	0.41	5	20	110	4.2	14.0	1.55	0.5	0.7	11.0	26	6.2	2.8	16.98	
104M15	925385	8	509372	6645168		6	Qal	47	16	5.7	48.0	1100	14.0	69	6	84	16	7	4.76	38	0.55	1	20	87	5.4	16.0	1.78	0.5	0.9	12.0	1	13.0	3.6	16.72	
104M15	925386	8	509739	6645375		6	Qal	11		5.2	36.0	1300	2.5	64	8	47	11	6	3.37	38	0.40	1	20	68	4.9	12.0	1.97	1.5	0.5	12.0	1	5.1	2.8	19.90	
104M15	925387	8	512220	6647712		6	Kgm	11		13.0	100.0	1500	0.5	65	6	100	22	7	4.36	32	0.41	1	20	88	4.3	14.0	1.50	0.8	0.5	10.0	1	4.8	2.9	18.23	
104M15	925388	8	520535	6648769		6	lJLa	7		1.5	3.7	1100	9.7	27	3	160	10	3	3.32	15	0.25	4	70	60	2.7	16.0	2.34	0.7	0.5	3.4	1	6.7	1.8	17.94	
104M15	925390	8	527157	6648277		6	TP	5		2.1	19.0	1500	10.0	68	6	89	13	7	4.38	38	0.55	1	20	87	6.0	16.0	1.70	1.2	0.9	12.0	1	7.4	3.5	15.35	
104M15	925391	8	527323	6643678		6	eTg	150	2	1.7	24.0	950	19.0	110	6	66	11	18	4.50	65	0.89	1	20	100	6.5	13.0	2.45	1.3	1.1	24.0	1	50.0	5.5	17.81	
104M15	925392	8	527029	6643809		6	eTg	4		1.6	24.0	890	2.8	120	9	36	13	18	4.91	64	0.99	1	20	120	8.6	14.0	2.54	1.4	1.6	31.0	1	22.0	6.6	17.24	
104M15	925393	8	523074	6643451		6	lJLa	9		2.1	26.0	1200	6.8	67	4	73	13	13	5.13	36	0.57	1	20	70	4.7	15.0	2.52	1.1	0.7	11.0	1	8.5	4.0	19.21	
104M16	925394	8	531299	6648287		6	MTCl	2		1.1	14.0	1600	3.2	110	4	33	13	9	5.17	51	0.87	1	20	90	9.0	17.0	0.94	0.5	1.6	14.0	1	5.5	5.6	19.11	
104M16	925395	8	535037	6646473		6	Qal	9		0.5	1.8	890	5.8	33	2	63	4	4	0.96	19	0.19	1	40	24	2.0	5.0	1.32	0.6	0.5	5.3	1	4.0	1.2	19.89	
104M16	925396	8	540732	6647009		6	Qal	2		0.5	3.9	520	18.0	15	1	28	3	2	0.84	8	0.10	1	20	27	0.8	3.0	0.85	0.5	0.5	2.6	1	12.0	0.6	18.33	
104M16	925397	8	533424	6638537		6	lJLg	7		2.4	27.0	940	14.0	34	3	130	10	4	2.56	22	0.30	1	20	44	2.9	12.0	2.08	0.5	0.5	6.8	1	8.7	1.9	15.87	
104M16	925398	8	531119	6636468		6	lJLg	2		2.2	9.8	1300	3.4	65	3	140	7	13	3.18	37	0.46	1	20	94	4.4	11.0	2.94	0.5	0.5	16.0	1	9.2	3.0	17.58	
104M16	925399	8	530829	6636179		6	lJLg	2		1.9	15.0	1100	8.7	80	2	130	8	15	3.81	43	0.52	1	20	93	4.4	12.0	2.58	1.9	0.5	17.0	1	6.9	2.7	18.50	
104M16	925400	8	530253	6637212		6	Qal	2		1.5	7.6	1000	0.5	58	2	56	6	12	2.25	34	0.42	1	20	120	3.2	6.8	3.13	1.7	0.5	13.0	1	5.9	2.3	19.98	
104M16	925402	8	551501	6631874		6	eTg	6		1.1	6.2	1200	3.8	70	2	97	11	5	3.10	41	0.36	1	20	66	4.5	13.0	3.08	0.5	0.5	8.2	1	2.8	1.8	12.42	
104M16	925403	8	550506	6642040		1	Qal	9		1.9	11.0	1300	0.5	55	3	100	10	6	3.09	32	0.34	4	20	52	3.8	11.0	2.36	0.5	0.5	6.7	1	1.4	1.8	12.72	
104M16	925404	8	548654	6643013		1	Qal	7		1.4	8.5	980	0.5	63	1	100	9	6	3.08	36	0.30	3	20	55	4.1	11.0	1.87	0.5	0.5	7.6	1	2.6	1.8	12.84	
104M16	925405	8	547447	6637261		1	MTCl	8		2.4	17.0	810	4.4	43	2	73	7	6	2.26	27	0.33	4	20	31	3.0	6.9	0.94	0.5	0.5	6.1	1	1.4	1.7	11.17	
104M16	925406	8	543656	6649905		6	Qal	240	2	0.8	7.7	810	16.0	52	2	67	5	5	2.13	31	0.26	1	20	57	3.0	6.5	2.01	0.5	0.5	7.0	1	2.3	1.3	9.50	
104M16	925407	8	536293	6636335		1	lJLg	2		1.4	34.0	960	65.0	50	4	110	11	6	3.25	30	0.39	5	20	88	3.9	11.0	2.57	0.5	0.5	8.7	1	8.8	2.0	9.41	
104M16	925408	8	545209	6630962	10	6	MTCl	2	75	1.0	5.4	1000	7.7	47	3	80	8	6	3.30	28	0.34	1	20	58	3.1	11.0	2.86	0.5	0.5	5.6	1	1.7	1.6	11.56	
104M16	925409	8	545209	6630962	20	6	MTCl	6		1.1	5.4	960	9.0	47	3	78	9	6	3.31	26	0.34	1	20	49	3.1	11.0	2.83	0.5	0.5	5.1	1	1.3	1.6	11.41	
104M16	925410	8	549550	6627097		6	TP	9		1.7	14.0	950	16.0	48	5	60	8	4	2.89	30	0.43	5	20	61	4.1	13.0	2.67	0.5	0.5	5.6	1	1.8	2.6	10.86	
104M16	925411	8	553845	6628553		6	eTg	10		1.0	4.0	1800	0.5	150	4	320	27	6	5.21	89	0.31	5	20	93	9.8	21.0	2.89	1.1	0.5	21.0	1	4.9	1.8	11.30	
104M09	925413	8	552470	6617392		6	lJLg	6		1.7	5.9	980	4.2	45	2	100	10	8	2.50	29	0.29	1	20	53	3.5	11.0	2.55	0.5	0.5	6.7	2	2.7	2.1	11.26	
104M09	925414	8	547717	6618746		6	Qal	41	2	1.3	8.2	930	8.1	53	1	77	8	9	2.80	34	0.32	1	20	54	3.7	11.0	2.32	0.5	0.5	7.3	1	2.7	2.2	9.68	
104M09	925415	8	551834	6620314		6	Qal	19		8.8	49.0	710	4.7	56	11	60	21	5	5.15	32	0.34	1	20	67	5.2	20.0	1.52	0.5	0.5	6.3	4	2.5	3.0	10.58	
104M12	925416	8	445058	6615565		6	KTg	2		0.1	0.5	700	0.5	170	2	42	10	12	2.77	100	0.71	1	20	50	13.0	13.0	1.82	0.5	2.1	36.0	5	11.0	5.0	12.07	

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M12	925417	8	457916	6622730	400		6	KTg	0	4	W	N	N	220	7.0	180	G	Y	B	S	Y	D	P	1	G	1308
104M12	925418	8	455013	6622095	360		6	KTg	0	3	T	N	N	220	3.5	120	T	Y	B	S	Y	D	P	1	G	1308
104M13	925419	8	457563	6625279	840		6	KTg	3	3	T	N	N	220	3.5	150	G	N	B	S	Y	D	P	1	M	1308
104M13	925420	8	457255	6625665	760		6	KTg	3	3	T	N	N	220	6.0	180	G	N	S	S	Y	D	P	1	M	1308
104M13	925422	8	456496	6624296	360		6	KTg	0	3	G	N	N	221	3.5	120	R	N	B	S	Y	D	P	1	G	1308
104M12	925423	8	453879	6623040	200	10	6	KTg	0	3	T	N	N	220	3.5	130	A	N	B	S	Y	D	P	1	G	1308
104M12	925424	8	453879	6623040	200	20	6	KTg	0	3	T	N	N	220	3.5	130	A	N	B	S	Y	D	P	1	G	1308
104M12	925425	8	453089	6622384	200		6	KTg	0	3	T	N	N	220	3.5	120	A	N	S	S	Y	D	P	3	G	1308
104M12	925426	8	452359	6617644	320		6	KTg	0	3	T	N	N	220	3.5	100	R	N	B	S	Y	D	P	1	G	1308
104M12	925427	8	450714	6618762	190		6	KTg	0	3	T	N	N	220	3.0	100	R	N	S	S	Y	D	P	4	G	1308
104M12	925428	8	453119	6621010	260		6	KTg	3	4	G	N	N	220	15.0	230	A	N	B	B	Y	D	P	4	M	1308
104M12	925429	8	452348	6621920	160		6	KTg	0	3	T	N	N	220	4.0	120	A	N	S	S	Y	D	P	1	G	1308
104M12	925430	8	451630	6622525	400		6	KTg	0	3	T	N	N	111	2.5	80	R	N	B	S	Y	D	P	1	G	1308
104M13	925431	8	449756	6624462	960		6	KTg	0	3	T	N	N	310	3.0	50	R	N	B	S	Y	D	P	1	G	1308
104M13	925432	8	449250	6625604	1120		6	KTg	0	3	T	N	N	211	2.5	80	R	N	S	S	Y	D	P	1	G	1308
104M13	925433	8	448954	6628305	1100		6	KTg	0	3	T	N	N	310	3.5	100	R	N	B	B	Y	D	P	2	G	1308
104M13	925434	8	444204	6631336	1170		6	KTg	0	2	T	N	N	310	2.0	100	R	N	B	S	Y	D	P	1	G	1408
104M13	925435	8	449625	6628687	1120		6	KTg	0	2	T	N	N	310	4.0	100	R	N	B	B	Y	D	P	1	G	1408
104M13	925436	8	446090	6630559	1200		6	KTg	0	2	T	N	N	220	2.0	100	R	N	S	S	Y	D	P	1	G	1408
104M13	925437	8	447529	6631965	1240		6	KTg	0	2	T	N	N	220	1.3	80	T	N	S	S	Y	D	P	1	G	1408
104M13	925438	8	447603	6633722	1280		6	KTg	0	3	T	N	N	220	4.5	100	S	N	B	B	Y	D	P	3	G	1408
104M13	925440	8	448222	6632779	1280		6	KTg	0	2	G	N	N	220	3.0	100	T	Y	S	S	Y	D	P	1	G	1408
104M13	925442	8	453093	6639209	1200	10	6	eTg	3	3	T	N	N	220	3.5	120	T	N	S	S	Y	D	P	1	M	1408
104M13	925443	8	453093	6639209	1200	20	6	eTg	3	3	T	N	N	220	3.5	120	T	N	S	S	Y	D	P	1	M	1408
104M13	925444	8	452250	6641111	1160		6	KTg	0	3	T	N	N	221	4.0	100	T	N	B	B	Y	D	P	1	G	1408
104M13	925445	8	455297	6643497	1160		6	eTg	0	3	T	N	N	220	3.5	100	T	N	B	B	Y	D	P	1	G	1408
104M13	925446	8	455344	6644688	960		6	KTg	0	3	T	N	N	220	3.0	100	R	N	S	S	Y	D	P	1	G	1408
104M13	925447	8	471527	6631785	1160		6	eTg	0	2	T	N	N	220	3.0	100	G	N	B	B	Y	D	P	1	G	1508
104M13	925449	8	471312	6632420	1120		6	eTg	0	3	G	N	N	220	3.0	80	G	N	B	B	Y	D	P	1	G	1508
104M13	925450	8	470701	6633885	1100		6	eTg	0	1	T	N	N	310	1.5	50	T	N	S	S	Y	D	S	1	G	1508
104M13	925451	8	470498	6635315	1080		6	eTg	0	2	T	N	N	220	2.5	100	T	R	S	B	Y	D	P	1	G	1508
104M13	925452	8	469266	6637296	1040		6	KTg	3	3	T	N	N	220	4.0	100	T	N	S	B	Y	D	P	1	G	1508
104M13	925453	8	468503	6638804	1040		6	KTg	3	3	G	N	N	220	3.0	100	T	N	S	B	Y	D	P	1	M	1508
104M13	925454	8	467818	6639969	1080		6	KTg	0	3	T	N	N	220	3.0	100	T	N	S	B	Y	D	P	1	G	1508
104M13	925455	8	466788	6643721	1040		6	eTg	0	2	T	N	N	220	2.0	80	T	R	S	B	Y	D	P	1	G	1508
104M13	925456	8	465012	6645259	1040		6	KTg	0	2	T	N	N	220	3.0	100	S	N	B	B	Y	D	P	1	G	1508
104M13	925457	8	459865	6636078	1280		6	eTg	0	2	T	N	N	220	2.5	80	T	N	S	B	Y	D	P	1	G	1508
104M13	925458	8	459444	6636946	1280		6	eTg	2	3	T	N	N	220	3.5	100	T	N	S	B	Y	D	P	1	M	1508
104M13	925459	8	458885	6638367	1200		6	eTg	3	3	G	N	N	220	3.5	100	T	N	S	B	Y	D	P	1	M	1508
104M13	925460	8	459140	6639750	1120		6	eTg	0	2	T	N	N	220	3.0	100	T	R	S	S	Y	D	P	1	G	1508

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Water				Stream Sediment													
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
	SAMPLE	UTM	UTM	UTM			ppb	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	ION	LIF	TURB	GCE	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M12	925417	8	457916	6622730		6	KTg	110	0.13	0.4	6.9	0.2	1.5	0.2	0.2	3	6	330	0.60	3	106	10	2	2	0.2	6	30	0.2	
104M12	925418	8	455013	6622095		6	KTg	30	0.05	1.1	7.1	0.2	5.9	0.2	0.2	4	7	510	1.50	3	287	10	3	2	0.2	27	90	1.5	
104M13	925419	8	457563	6625279		6	KTg	380	1.55	1.0	7.3	0.2	1.3	2.2	0.2	3	45	620	0.75	8	159	10	5	2	0.3	8	41	0.6	
104M13	925420	8	457255	6625665		6	KTg	150	0.05	0.7	6.7	0.2	37.0	0.2	0.2	2	9	230	0.30	2	33	10	2	2	0.2	7	14	0.2	
104M13	925422	8	456496	6624296		6	KTg	40	0.05	0.3	6.6	0.2	1.2	0.2	0.2	4	5	490	1.50	2	284	10	2	2	0.2	21	75	2.3	
104M12	925423	8	453879	6623040	10	6	KTg	30	0.05	0.2	6.6	0.2	1.2	0.2	0.2	2	5	360	0.95	2	185	10	1	2	0.2	15	48	0.8	
104M12	925424	8	453879	6623040	20	6	KTg	30	0.05	0.2	6.6	0.2	1.6	0.2	0.2	2	3	370	0.95	2	216	10	2	2	0.2	16	56	0.2	
104M12	925425	8	453089	6622384		6	KTg	30	0.05	0.2	6.8	0.2	2.5	0.2	0.2	2	7	300	0.60	2	152	70	3	2	0.4	12	35	0.2	
104M12	925426	8	452359	6617644		6	KTg	30	0.05	2.8	7.2	0.2	4.8	0.2	0.3	7	14	560	2.40	8	321	20	3	3	0.2	45	107	2.8	
104M12	925427	8	450714	6618762		6	KTg	30	0.05	3.9	7.0	0.2	3.9	0.2	0.4	11	43	500	2.90	4	336	20	3	7	0.2	75	110	1.5	
104M12	925428	8	453119	6621010		6	KTg	30	0.05	1.7	6.7	0.2	3.1	0.2	0.2	2	8	290	0.30	2	56	10	2	2	0.2	10	19	0.2	
104M12	925429	8	452348	6621920		6	KTg	30	0.05	0.2	6.7	0.2	0.8	0.2	0.2	2	5	410	0.65	2	167	20	3	2	0.2	11	44	1.3	
104M12	925430	8	451630	6622525		6	KTg	30	0.07	0.2	6.8	0.2	1.0	0.2	0.5	5	8	420	3.60	4	840	70	5	2	0.2	30	109	21.1	
104M13	925431	8	449756	6624462		6	KTg	30	0.08	0.1	6.5	0.2	1.4	0.2	0.6	4	7	410	2.10	5	483	30	3	2	0.2	25	98	6.3	
104M13	925432	8	449250	6625604		6	KTg	30	0.05	0.1	6.3	0.2	2.0	0.2	0.3	4	10	300	1.80	10	299	40	7	4	0.2	25	54	12.5	
104M13	925433	8	448954	6628305		6	KTg	30	0.05	0.2	6.3	0.2	1.5	0.2	0.2	4	8	390	1.80	5	360	30	2	2	0.2	29	65	8.3	
104M16	925434	8	444204	6631336		6	KTg	30	0.09	1.1	6.7	0.2	3.3	0.2	0.2	2	5	300	1.10	2	204	10	7	2	0.2	17	50	4.4	
104M13	925435	8	449625	6628687		6	KTg	30	0.05	0.2	6.4	0.2	0.5	0.2	0.2	3	6	340	1.10	2	195	10	2	2	0.2	22	46	4.2	
104M13	925436	8	446090	6630559		6	KTg	30	0.05	0.5	6.7	0.2	1.9	0.2	0.2	5	8	520	2.60	6	524	20	5	3	0.2	33	95	6.0	
104M13	925437	8	447529	6631965		6	KTg	30	0.05	0.4	6.1	0.2	2.3	0.2	0.2	3	10	300	1.50	5	222	20	4	3	0.2	24	47	8.8	
104M13	925438	8	447603	6633722		6	KTg	30	0.05	0.4	6.6	0.2	1.0	0.2	0.2	4	7	470	1.40	7	204	10	2	2	0.2	33	59	1.6	
104M13	925440	8	448222	6632779		6	KTg	30	0.05	0.2	6.7	1.3	1.4	0.2	0.2	2	4	200	0.30	3	75	10	1	2	0.2	8	21	0.2	
104M13	925442	8	453093	6639209	10	6	eTg	510	0.05	1.7	6.9	0.2	4.3	0.2	0.2	2	8	300	0.40	5	58	10	1	2	0.2	14	23	0.3	
104M13	925443	8	453093	6639209	20	6	eTg	510	0.07	1.8	7.0	0.2	4.3	0.2	0.2	2	7	260	0.35	4	60	10	1	2	0.2	13	25	0.2	
104M13	925444	8	452250	6641111		6	KTg	40	0.05	2.5	6.7	0.2	6.8	0.4	0.3	18	35	700	5.40	15	910	50	9	15	0.4	113	161	10.1	
104M13	925445	8	455297	6643497		6	eTg	100	0.30	0.6	7.3	0.2	1.1	0.2	0.2	3	5	410	1.10	7	253	10	1	2	0.2	28	81	0.4	
104M13	925446	8	455344	6644688		6	KTg	30	0.05	11.0	7.2	0.2	1.9	0.2	0.2	5	6	430	1.70	3	260	10	2	2	0.2	41	60	2.7	
104M13	925447	8	471527	6631785		6	eTg	70	0.05	1.4	7.0	0.2	1.3	0.2	0.2	5	6	540	1.40	12	289	10	1	3	0.2	30	66	0.7	
104M13	925449	8	471312	6632420		6	eTg	50	0.16	1.4	7.1	0.2	0.7	0.2	0.2	5	9	470	1.40	8	240	10	1	4	0.2	26	73	1.0	
104M13	925450	8	470701	6633885		6	eTg	50	0.05	1.2	7.0	0.2	0.7	0.2	0.3	9	16	660	2.00	16	413	20	2	8	0.3	41	90	8.0	
104M13	925451	8	470498	6635315		6	eTg	780	0.32	1.5	6.5	0.2	2.5	0.2	0.6	5	14	1240	1.60	59	920	10	2	5	0.2	20	348	2.4	
104M13	925452	8	469266	6637296		6	KTg	50	0.11	2.7	6.9	0.2	0.5	0.2	0.2	3	10	240	0.55	2	75	10	1	6	0.2	18	21	0.2	
104M13	925453	8	468503	6638804		6	KTg	60	0.19	1.6	7.0	0.2	0.7	0.2	0.2	2	9	260	0.35	2	57	10	1	4	0.2	18	18	0.5	
104M13	925454	8	467818	6639969		6	KTg	90	0.48	1.2	7.2	0.2	4.3	0.2	0.3	5	8	600	1.60	17	281	20	2	7	0.2	35	91	3.4	
104M13	925455	8	466788	6643721		6	eTg	1040	0.69	5.1	6.9	0.2	4.0	0.3	0.2	2	5	1520	0.60	20	300	10	2	2	0.2	7	100	1.2	
104M13	925456	8	465012	6645259		6	KTg	110	0.20	6.9	7.0	0.2	2.2	0.2	1.3	3	11	400	1.30	18	228	50	3	2	0.6	24	127	11.0	
104M13	925457	8	459865	6636078		6	eTg	170	0.05	0.2	6.5	0.2	2.5	0.3	0.3	5	19	870	2.00	21	395	20	3	5	0.2	28	106	2.7	
104M13	925458	8	459444	6636946		6	eTg	220	0.11	0.9	6.8	0.2	0.5	0.2	0.2	2	5	330	0.45	4	64	10	1	2	0.2	14	22	0.1	
104M13	925459	8	458885	6638367		6	eTg	270	0.05	1.8	7.0	0.2	0.9	0.2	0.3	2	6	350	0.40	6	69	10	1	3	0.2	15	31	0.2	
104M13	925460	8	459140	6639750		6	eTg	2080	0.55	1.2	7.3	0.2	2.8	1.0	0.4	2	48	710	1.60	6	306	10	9	2	0.4	10	95	1.6	

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Stream Sediment																							
							Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	
							2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:D.L.
	SAMPLE	UTM	UTM	UTM			ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	g	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	:Mthd
104M12	925417	8	457916	6622730		6	KTg	4		0.1	0.8	910	0.5	200	1	8	2	10	1.49	140	0.38	1	20	58	9.0	5.2	2.80	0.5	0.9	29.0	1	5.8	2.6	12.70	
104M12	925418	8	455013	6622095		6	KTg	7		0.2	7.7	1100	0.5	59	1	7	4	8	3.50	33	0.36	1	20	42	5.3	9.5	2.73	0.5	0.5	7.6	1	2.7	2.4	11.29	
104M13	925419	8	457563	6625279		6	KTg	2		0.3	1.1	1000	0.5	150	2	5	3	13	1.47	110	0.44	1	20	78	8.0	4.1	2.83	0.5	0.5	28.0	1	8.8	3.0	12.75	
104M13	925420	8	457255	6625665		6	KTg	2		0.1	15.0	1200	0.5	300	1	5	4	35	1.85	210	0.42	1	20	45	12.0	4.8	2.68	0.5	0.5	46.0	9	9.3	2.7	5.49	
104M13	925422	8	456496	6624296		6	KTg	2		0.1	0.5	1100	0.5	84	1	8	5	11	3.24	51	0.43	1	20	48	6.3	9.9	2.80	0.5	0.5	14.0	1	5.6	2.9	11.22	
104M12	925423	8	453879	6623040	10	6	KTg	2	2	0.1	1.0	770	0.5	66	1	8	4	8	2.52	40	0.33	1	20	15	5.0	10.0	2.80	0.5	0.5	8.5	1	3.0	2.3	13.32	
104M12	925424	8	453879	6623040	20	6	KTg	2		0.2	0.5	890	0.5	59	1	5	4	8	2.51	36	0.35	1	20	39	5.0	9.5	2.75	0.5	0.5	7.9	1	3.5	2.3	12.78	
104M12	925425	8	453089	6622384		6	KTg	2		0.1	0.5	780	0.5	87	1	7	4	14	2.24	59	0.36	1	20	33	6.1	9.5	2.82	0.5	0.5	13.0	1	4.0	2.5	13.06	
104M12	925426	8	452359	6617644		6	KTg	2		0.2	5.9	1100	2.6	52	2	17	11	6	4.40	27	0.29	1	20	31	5.3	16.0	2.25	0.5	1.0	5.7	1	3.0	1.9	11.14	
104M12	925427	8	450714	6618762		6	KTg	2		0.3	3.2	950	0.5	37	3	29	17	4	5.17	22	0.36	1	20	59	4.3	29.0	2.50	0.5	0.9	4.6	1	1.8	2.5	12.62	
104M12	925428	8	453119	6621010		6	KTg	2		0.1	3.7	670	0.5	90	1	9	5	21	2.57	60	0.43	1	20	28	6.4	13.0	2.69	0.5	0.5	14.0	1	10.0	3.4	10.56	
104M12	925429	8	452348	6621920		6	KTg	2		0.2	0.5	600	0.5	110	1	5	4	22	2.79	74	0.55	1	20	15	7.5	12.0	2.95	0.5	0.5	16.0	1	6.6	3.5	13.20	
104M12	925430	8	451630	6622525		6	KTg	2		0.3	2.2	1400	17.0	60	2	5	7	8	4.04	27	0.45	1	20	66	5.7	13.0	2.03	0.5	0.5	6.9	1	9.8	2.4	13.76	
104M13	925431	8	449756	6624462		6	KTg	7		0.4	2.4	930	8.5	64	2	11	7	9	3.39	37	0.38	1	20	63	5.5	13.0	2.33	0.5	0.9	11.0	1	7.4	2.4	10.23	
104M13	925432	8	449250	6625604		6	KTg	5		0.5	3.5	770	20.0	47	2	11	5	8	2.91	27	0.34	7	20	52	4.5	11.0	2.43	0.5	0.5	6.2	1	7.4	2.4	8.82	
104M13	925433	8	448954	6628305		6	KTg	2		0.3	1.3	790	12.0	72	2	6	6	8	2.94	42	0.35	1	20	15	5.8	10.0	2.48	0.5	0.9	11.0	1	4.8	2.5	10.20	
104M16	925434	8	444204	6631336		6	KTg	2		0.4	2.4	840	3.6	77	1	7	4	9	2.18	49	0.26	4	20	34	4.9	9.2	2.97	0.5	0.5	11.0	1	5.2	2.1	10.44	
104M13	925435	8	449625	6628687		6	KTg	2		0.1	0.9	970	5.6	93	1	11	6	11	2.49	60	0.32	1	20	44	6.0	11.0	2.60	0.5	0.5	17.0	1	4.8	2.1	11.04	
104M13	925436	8	446090	6630559		6	KTg	3		0.2	0.5	900	9.1	68	2	8	6	10	3.97	40	0.41	1	20	30	5.5	12.0	2.64	0.9	1.1	11.0	1	5.8	2.7	11.20	
104M13	925437	8	447529	6631965		6	KTg	2		0.1	2.2	920	12.0	57	2	10	5	7	2.29	34	0.23	3	20	64	3.9	7.5	2.63	0.5	0.5	9.1	1	4.4	1.5	10.37	
104M13	925438	8	447603	6633722		6	KTg	2		0.1	1.5	1100	2.9	82	1	12	6	9	2.73	49	0.30	1	20	78	6.4	13.0	2.57	0.5	0.5	13.0	1	4.5	2.2	11.84	
104M13	925440	8	448222	6632779		6	KTg	2		0.1	0.5	760	0.5	54	1	5	2	3	1.62	35	0.23	1	20	23	3.9	7.1	2.95	0.5	0.5	7.2	1	0.7	1.7	13.51	
104M13	925442	8	453093	6639209	10	6	eTg	3	2	0.1	3.8	820	0.5	89	1	9	3	12	1.41	52	0.25	1	20	27	4.8	4.8	2.57	0.5	0.5	10.0	1	2.7	1.5	5.13	
104M13	925443	8	453093	6639209	20	6	eTg	2		0.1	3.9	920	0.5	86	1	14	3	16	1.54	58	0.31	1	20	38	5.1	5.9	2.58	1.0	0.6	12.0	1	2.6	2.0	13.64	
104M13	925444	8	452250	6641111		6	KTg	8		0.1	9.6	1200	23.0	84	6	54	23	7	7.21	49	0.30	9	20	120	7.1	19.0	1.84	0.5	0.5	17.0	1	11.0	2.3	7.92	
104M13	925445	8	455297	6643497		6	eTg	5		0.2	0.5	1100	0.5	52	1	6	4	7	2.41	34	0.25	1	20	62	3.9	7.3	2.72	0.5	0.5	7.1	1	1.8	1.7	13.21	
104M13	925446	8	455344	6644688		6	KTg	2		0.1	1.3	1000	10.0	76	1	9	8	9	3.78	50	0.34	1	20	51	5.4	12.0	2.56	0.5	1.0	9.2	1	5.5	2.3	11.79	
104M13	925447	8	471527	6631785		6	eTg	2		0.1	0.8	1300	0.5	99	2	19	6	17	2.65	63	0.41	1	20	80	7.1	10.0	2.73	1.0	1.4	23.0	1	6.6	2.9	12.25	
104M13	925449	8	471312	6632420		6	eTg	5		0.1	1.9	1600	0.5	100	2	18	6	8	2.32	58	0.28	1	43	71	6.2	6.8	2.64	0.9	1.1	19.0	1	5.6	1.9	12.61	
104M13	925450	8	470701	6633885		6	eTg	12		0.4	2.9	1200	8.7	140	3	32	11	12	3.68	82	0.46	1	20	81	10.0	11.0	1.80	0.5	0.5	26.0	1	9.3	3.1	10.21	
104M13	925451	8	470498	6635315		6	eTg	8		0.1	3.6	630	0.5	120	5	32	7	11	2.90	44	1.46	1	20	180	13.0	7.6	1.97	1.9	2.4	32.0	1	20.0	11.1	12.29	
104M13	925452	8	469266	6637296		6	KTg	7		0.1	1.3	1400	0.5	93	1	77	8	9	2.08	53	0.29	1	20	66	6.0	12.0	2.79	1.1	1.1	19.0	1	3.3	1.8	13.25	
104M13	925453	8	468503	6638804		6	KTg	2		0.2	0.5	1400	0.5	110	1	50	7	20	2.55	63	0.46	1	20	55	7.4	12.0	2.62	0.5	0.5	23.0	1	11.0	2.8	13.54	
104M13	925454	8	467818	6639969		6	KTg	2		0.1	3.4	1500	2.9	110	3	43	8	11	2.84	54	0.45	1	20	99	7.7	9.0	2.23	0.5	0.5	23.0	1	7.3	3.0	10.74	
104M13	925455	8	466788	6643721		6	eTg	2		0.3	4.5	440	0.5	100	4	5	1	23	1.27	40	2.24	1	20	230	12.0	2.0	2.76	2.6	2.3	51.0	1	23.0	16.3	11.09	
104M13	925456	8	465012	6645259		6	KTg	2		0.1	0.5	1000	11.0	130	3	23	4	16	1.81	77	0.74	1	20	91	10.0	6.4	2.17	0.5	1.4	19.0	1	21.0	5.3	9.81	
104M13	925457	8	459865	6636078		6	eTg	2		0.5	3.1	1600	5.6	120	4	25	7	13	3.35	59	0.77	1	20	120	10.0	11.0	2.51	1.7	1.3	19.0	1	12.0	5.3	10.30	
104M13	925458	8	459444	6636946		6	eTg	4		0.3	0.5	1400	0.5	200	1	32	5	33	2.00	110	0.82	1	20	95	10.0	7.6	2.86	0.5	0.5	33.0	1	7.9	5.0	9.94	
104M13	925459	8	458885	6638367		6	eTg	5		0.1	0.5	1300	0.5	110	1	39	5	17	1.90	60	0.43	1	20	46	6.2	7.8	2.60	0.8	1.2	18.0	1	4.6	2.8	12.58	
104M13	925460	8	459140	6639750		6	eTg	2		0.3	3.3	1300	0.5	180	3	5	2	20	2.28	89	1.22	7	20	98	13.0	7.3	2.89	1.3	1.7	22.0	11	8.6	8.8	12.52	

FIELD OBSERVATIONS AND ANALYTICAL DATA

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	ELEV	STA	MED	FORM	WAT COL	FLW	SED COL	SED PPT	CON	COMP	STRM WDTH	STRM DPTH	BNK	BNK PPT	CHL BED	CHL PTN	PHY	DRN	TYP	ODR	SRC	DATE
104M13	925462	8	459543	6643368	1200		6	eTg	0	2	T	N	N	220	3.0	100	T	N	B	S	Y	D	P	1	G	1508
104M13	925464	8	463824	6638218	1300	10	6	KTg	3	3	T	N	N	220	4.5	130	G	N	S	B	Y	D	P	4	M	1508
104M13	925465	8	463824	6638218	1300	20	6	KTg	3	3	T	N	N	220	4.5	130	G	N	S	B	Y	D	P	4	M	1508
104M13	925466	8	463937	6641432	1220		6	KTg	3	3	T	N	N	220	3.0	100	T	N	S	B	Y	D	P	1	M	1508
104M13	925467	8	465119	6643141	1260		6	KTg	0	2	T	N	N	220	3.0	100	C	N	B	S	Y	D	P	1	G	1508
104M13	925468	8	464320	6646621	1020		6	KTg	0	2	T	N	P	220	1.5	80	T	N	S	S	Y	D	P	1	G	1508
104M13	925469	8	464138	6649331	1030		6	KTg	0	3	T	N	N	220	3.0	100	T	N	S	B	Y	D	P	1	G	1508
104M13	925470	8	465378	6647928	1080		6	eTg	0	2	T	N	N	220	3.0	100	T	R	S	B	Y	D	P	2	G	1508
104M13	925471	8	459621	6643890	1150		6	KTg	0	2	T	N	N	226	3.0	100	T	R	S	B	Y	D	P	2	G	1508
104M13	925472	8	458723	6645512	1280		6	KTg	0	2	T	N	N	220	3.0	100	A	N	S	S	Y	D	P	1	G	1508
104M13	925473	8	458066	6646441	1200		6	KTg	0	2	T	N	N	310	2.0	100	A	N	S	S	Y	D	P	1	G	1508
104M13	925474	8	456077	6648340	840		6	KTg	0	2	T	N	N	220	2.5	100	R	N	B	S	Y	D	P	1	G	1508
104M13	925475	8	454984	6649718	1000		1	KTg			T	N	N	220	3.0	100	R	N	B	S	Y	D	S	1	G	1508
104M13	925476	8	453294	6650951	840		6	KTg	0	2	T	N	N	220	2.0	80	S	N	S	S	Y	D	P	1	G	1508
104M13	925477	8	449035	6648096	1160		6	KTg	2	3	T	N	N	220	3.0	100	T	N	S	S	Y	D	P	4	M	1508
104M13	925478	8	445937	6641910	1360		6	KTg	2	2	T	N	N	130	4.0	100	S	N	B	B	Y	D	P	2	M	1908
104M13	925479	8	449494	6644250	1080		6	KTg	2	2	T	N	N	220	2.0	75	A	N	S	S	Y	D	P	1	M	1908
104M13	925480	8	450303	6644938	1080		6	KTg	0	1	T	N	N	220	1.0	50	A	N	S	S	Y	D	P	1	G	1908
104M13	925482	8	450302	6645740	1040		6	KTg	0	2	T	N	N	130	1.0	75	S	N	B	B	Y	D	P	1	G	1908
104M13	925483	8	449982	6645979	1120		6	KTg	0	2	T	N	N	130	1.0	50	S	N	B	S	Y	D	P	1	G	1908
104M13	925484	8	450143	6646527	1020		6	KTg	0	1	T	N	N	220	1.0	25	S	N	S	S	Y	D	P	1	G	1908
104M13	925485	8	450114	6647692	1160		6	KTg	0	2	T	N	N	310	3.0	150	S	N	B	S	Y	D	P	1	G	1908
104M13	925486	8	449665	6648082	1020	10	6	KTg	2	2	T	N	N	220	5.0	75	A	N	B	S	Y	D	P	3	M	1908
104M13	925487	8	449665	6648082	1020	20	6	KTg	2	2	T	N	N	220	5.0	75	A	N	B	S	Y	D	P	3	M	1908
104M13	925488	8	449532	6651078	1000		6	KTg	0	3	T	N	N	220	5.0	100	A	N	B	S	Y	D	P	1	M	1908

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Water				Stream Sediment													
							FW	UW	SO4	pH	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	
							20	0.05	1	0.1	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
	SAMPLE	UTM	UTM	UTM			ppb	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
MAP	ID	ZONE	EAST	NORTH	STA	MED	FORM	ION	LIF	TURB	GCE	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M13	925462	8	459543	6643368		6	eTg	540	0.05	0.5	6.7	0.2	2.7	1.4	0.7	2	12	650	2.60	30	517	40	22	2	0.4	12	138	5.0	
104M13	925464	8	463824	6638218	10	6	KTg	390	0.12	0.2	6.9	0.2	2.1	0.2	0.2	2	3	310	0.25	3	44	10	1	2	0.2	5	14	0.1	
104M13	925465	8	463824	6638218	20	6	KTg	390	0.10	0.9	7.0	0.2	1.6	0.2	0.2	2	5	200	0.30	2	42	10	1	2	0.2	5	15	0.1	
104M13	925466	8	463937	6641432		6	KTg	480	0.28	0.5	6.8	0.2	1.0	0.4	0.2	2	8	500	0.80	7	120	10	3	2	0.2	5	39	0.2	
104M13	925467	8	465119	6643141		6	KTg	210	0.27	2.7	7.2	0.2	2.9	0.3	0.8	6	16	650	2.20	28	761	50	10	10	0.9	40	107	9.2	
104M13	925468	8	464320	6646621		6	KTg	120	0.30	4.2	7.3	0.2	2.8	0.3	0.6	7	15	600	1.70	33	321	10	2	7	0.7	32	104	3.6	
104M13	925469	8	464138	6649331		6	KTg	100	1.30	4.5	7.3	0.2	3.7	0.2	0.6	8	16	550	1.60	25	302	10	3	16	0.2	40	115	1.8	
104M13	925470	8	465378	6647928		6	eTg	1120	2.27	23.0	7.2	0.2	10.0	2.3	6.1	2	43	41000	1.30	186	650	10	23	2	0.5	7	407	0.6	
104M13	925471	8	459621	6643890		6	KTg	460	0.05	2.5	7.0	0.2	1.0	0.3	0.4	2	5	720	1.10	13	260	10	3	4	0.2	12	78	1.2	
104M13	925472	8	458723	6645512		6	KTg	40	0.05	0.7	6.7	0.2	0.8	0.3	0.4	6	12	450	2.10	15	384	40	3	8	0.2	39	87	11.2	
104M13	925473	8	458066	6646441		6	KTg	30	0.10	0.8	7.0	0.2	0.6	0.2	0.4	9	13	580	2.40	18	519	20	3	7	0.2	45	107	4.2	
104M13	925474	8	456077	6648340		6	KTg	40	0.11	4.2	7.1	0.2	0.6	0.2	0.2	8	16	590	1.70	5	262	10	1	6	0.2	42	65	2.0	
104M13	925475	8	454984	6649718		1	KTg					0.2	2.1	0.2	1.0	9	25	700	3.20	23	1040	50	6	13	0.2	48	130	18.0	
104M13	925476	8	453294	6650951		6	KTg	60	0.15	3.8	7.4	0.2	0.5	0.2	0.2	8	12	630	2.20	5	378	10	2	6	0.2	46	74	4.7	
104M13	925477	8	449035	6648096		6	KTg	40	0.05	1.0	7.0	0.2	0.3	0.2	0.2	4	4	420	1.60	3	255	10	2	2	0.2	30	59	1.8	
104M13	925478	8	445937	6641910		6	KTg	40	0.05	2.8	6.9	0.2	0.2	0.2	0.2	2	5	370	0.40	2	70	10	1	3	0.2	16	18	0.2	
104M13	925479	8	449494	6644250		6	KTg	30	0.05	0.7	7.0	0.2	0.2	0.2	0.2	2	2	340	0.65	2	117	10	1	2	0.2	23	31	0.4	
104M13	925480	8	450303	6644938		6	KTg	40	0.10	0.5	7.0	0.2	0.8	0.2	0.2	3	4	560	1.60	11	404	10	2	2	0.2	30	76	3.0	
104M13	925482	8	450302	6645740		6	KTg	40	0.05	0.6	7.3	0.2	1.9	0.2	0.2	3	4	510	1.60	14	297	30	2	2	0.2	27	68	1.8	
104M13	925483	8	449982	6645979		6	KTg	50	0.08	0.9	7.2	0.2	1.2	0.2	0.2	4	6	610	2.00	12	421	40	3	3	0.2	31	76	5.9	
104M13	925484	8	450143	6646527		6	KTg	80	0.27	1.0	7.5	0.2	0.2	0.2	0.2	4	3	380	1.60	4	308	10	3	2	0.2	30	56	2.9	
104M13	925485	8	450114	6647692		6	KTg	60	0.80	7.2	7.4	0.2	0.5	0.2	0.2	7	10	600	2.20	3	342	10	2	4	0.2	42	75	2.4	
104M13	925486	8	449665	6648082	10	6	KTg	50	0.05	1.0	7.0	0.2	0.3	0.2	0.2	5	3	490	1.60	3	240	10	2	2	0.2	34	61	2.0	
104M13	925487	8	449665	6648082	20	6	KTg	40	0.05	1.0	7.1	0.2	0.6	0.2	0.2	4	5	650	1.80	3	272	10	2	2	0.2	36	67	2.0	
104M13	925488	8	449532	6651078		6	KTg	30	0.05	3.4	6.9	0.2	0.9	0.2	0.2	10	20	560	2.70	3	331	20	2	13	0.2	67	88	4.2	

FIELD OBSERVATIONS AND ANALYTICAL DATA

							Stream Sediment																							
							Au	Au2	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	:D.L.
							2	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:Unit
MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	% INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g	:Mthd
104M13	925462	8	459543	6643368		6	eTg	2		0.4	1.4	1300	2.4	140	6	5	3	21	3.27	71	1.33	13	20	200	11.0	11.0	2.60	0.5	1.5	22.0	14	11.0	8.9	10.53	
104M13	925464	8	463824	6638218	10	6	KTg	2		0.1	0.5	1100	0.5	140	1	11	3	11	0.98	86	0.20	1	20	63	6.1	4.2	2.80	0.5	0.5	26.0	1	3.5	1.6	5.18	
104M13	925465	8	463824	6638218	20	6	KTg	2	2	0.1	1.5	1300	0.5	150	1	9	3	11	1.02	93	0.28	1	20	57	6.6	5.1	2.63	0.5	0.5	29.0	1	4.1	1.8	13.90	
104M13	925466	8	463937	6641432		6	KTg	7		0.1	0.5	1300	0.5	310	1	5	2	71	1.74	160	2.20	1	20	87	18.0	5.2	2.97	1.7	2.2	35.0	11	15.0	14.8	12.52	
104M13	925467	8	465119	6643141		6	KTg	6		0.1	3.4	1000	13.0	140	3	34	8	12	3.42	83	0.63	1	20	86	11.0	9.2	1.74	0.5	1.4	21.0	1	45.0	4.0	9.25	
104M13	925468	8	464320	6646621		6	KTg	7		0.5	3.0	1400	4.4	98	4	25	10	5	3.11	60	0.32	1	20	78	8.0	10.0	2.32	0.5	0.8	16.0	1	23.0	2.3	11.02	
104M13	925469	8	464138	6649331		6	KTg	2		0.4	4.5	1300	0.5	100	4	45	12	7	3.46	54	0.37	1	20	75	7.5	12.0	2.20	1.0	0.5	18.0	1	12.0	2.6	12.18	
104M13	925470	8	465378	6647928		6	eTg	3		0.2	12.0	430	0.5	130	3	5	1	17	1.55	60	1.71	12	75	250	12.0	2.8	2.63	2.9	1.9	53.0	1	22.0	12.3	12.66	
104M13	925471	8	459621	6643890		6	KTg	9		0.1	2.0	1300	0.5	230	4	29	4	20	2.30	110	1.11	1	20	110	14.0	8.0	3.16	2.0	2.4	24.0	1	7.0	7.8	8.19	
104M13	925472	8	458723	6645512		6	KTg	2		0.3	0.5	1300	13.0	140	4	45	8	13	3.17	77	0.50	1	20	100	9.0	11.0	1.97	0.5	1.1	22.0	1	9.5	3.3	9.69	
104M13	925473	8	458066	6646441		6	KTg	5		0.4	0.5	1300	4.5	120	4	29	11	13	4.23	62	0.44	1	92	120	7.6	12.0	2.24	0.5	1.0	27.0	1	12.0	3.0	10.57	
104M13	925474	8	456077	6648340		6	KTg	2		0.1	1.6	1100	4.0	150	2	41	15	13	5.16	72	0.51	1	20	58	11.0	16.0	2.14	0.5	0.5	23.0	1	15.0	3.5	12.28	
104M13	925475	8	454984	6649718		1	KTg	2		0.4	5.2	1300	13.0	100	6	60	10	4	3.61	62	0.43	1	20	160	9.4	9.6	1.79	0.5	0.5	20.0	1	32.0	2.8	8.36	
104M13	925476	8	453294	6650951		6	KTg	6		0.1	0.5	1300	4.3	95	3	34	10	7	4.05	58	0.35	1	20	92	7.4	12.0	2.32	0.5	0.9	15.0	1	6.6	2.4	10.99	
104M13	925477	8	449035	6648096		6	KTg	6		0.1	0.5	1500	3.6	110	1	12	6	9	3.01	60	0.36	3	20	52	7.2	9.7	2.67	0.8	0.5	12.0	1	3.0	2.6	12.16	
104M13	925478	8	445937	6641910		6	KTg	2		0.1	0.5	1200	0.5	170	1	24	5	22	1.75	91	0.44	1	20	30	10.0	10.0	2.67	0.5	0.5	31.0	1	6.4	3.2	10.06	
104M13	925479	8	449494	6644250		6	KTg	5		0.1	1.2	1300	0.5	70	1	5	4	5	2.46	35	0.29	3	20	32	5.1	9.3	2.73	0.5	0.7	6.6	1	1.1	2.1	12.82	
104M13	925480	8	450303	6644938		6	KTg	5		0.1	1.8	1300	11.0	110	1	10	5	7	2.55	59	0.38	1	20	86	6.3	6.6	2.64	0.5	0.5	17.0	1	12.0	2.7	12.27	
104M13	925482	8	450302	6645740		6	KTg	5		0.2	2.6	1400	15.0	110	1	6	5	8	2.48	76	0.28	1	20	66	6.8	6.1	2.54	0.5	0.5	21.0	1	16.0	2.5	10.65	
104M13	925483	8	449982	6645979		6	KTg	2		0.2	0.5	870	9.4	69	2	5	4	5	2.04	48	0.25	1	20	74	4.6	4.7	2.19	0.5	0.5	13.0	1	14.0	1.4	5.30	
104M13	925484	8	450143	6646527		6	KTg	6		0.2	0.5	1400	7.4	85	1	5	6	9	2.88	51	0.22	1	20	73	5.1	8.0	2.66	0.5	0.6	11.0	1	21.0	1.9	11.89	
104M13	925485	8	450114	6647692		6	KTg	2		0.1	0.5	1200	0.5	88	2	21	9	7	3.72	56	0.26	1	20	72	5.7	11.0	2.36	0.5	0.5	11.0	1	4.2	1.9	11.57	
104M13	925486	8	449665	6648082	10	6	KTg	4	3	0.2	0.5	1300	3.2	130	1	5	6	11	3.02	80	0.31	1	20	58	6.9	9.2	2.63	0.5	0.5	15.0	1	4.9	2.1	11.65	
104M13	925487	8	449665	6648082	20	6	KTg	2		0.1	0.5	1500	0.5	110	1	7	7	10	3.17	66	0.31	1	20	51	6.4	9.4	2.68	0.5	0.5	14.0	1	4.5	2.3	11.51	
104M13	925488	8	449532	6651078		6	KTg	2		0.2	1.4	1400	9.1	110	3	67	15	10	5.02	62	0.21	1	20	74	7.8	15.0	2.32	0.9	0.5	11.0	1	3.2	2.6	11.23	

BRITISH COLUMBIA REGIONAL GEOCHEMICAL SURVEY

BC RGS 37 - NTS 104M Skagway

APPENDIX B

ANALYTICAL DUPLICATE DATA

Notes:

- Refer to RGS Data Evaluation section of Open File text for a complete discussion on quality control of RGS data.

ANALYTICAL DUPLICATE DATA

MAP	SAMPLE ID	Sb 0.2 ppm AAS	As 0.2 ppm AAS-H	Bi 0.2 ppm AAS-H	Cd 0.2 ppm AAS	Co 2 ppm AAS	Cu 2 ppm AAS	F 40 ppm ION	Fe 0.02 % AAS	Pb 2 ppm AAS	Mn 5 ppm AAS	Hg 10 ppb AAS-F	Mo 1 ppm AAS	Ni 2 ppm AAS	Ag 0.2 ppm AAS	V 5 ppm AAS	Zn 2 ppm AAS	LOI 1.0 % GRAV	:D.L. :Unit :Mthd
104M	921001	4.0	145.0	0.4	0.2	17	30	270	3.20	14	461	30	1	28	0.3	48	66	2.9	
104M	921005	4.1	150.0	0.3	0.2	16	28	270	3.20	12	461	30	2	26	0.2	47	64	2.9	
104M	921021	0.7	12.0	0.2	0.5	6	26	260	1.30	7	149	30	1	16	0.2	36	57	1.2	
104M	921022	0.6	12.0	0.3	0.4	7	27	290	1.40	11	146	30	2	15	0.2	38	54	1.6	
104M	921041	4.9	25.0	0.2	0.7	10	36	290	2.90	14	422	70	2	24	0.2	27	130	3.0	
104M	921047	4.1	26.0	0.2	0.7	11	36	270	2.90	16	421	70	1	25	0.2	27	132	3.2	
104M	921081	0.2	0.2	0.2	0.2	2	3	280	0.55	2	72	30	1	2	0.2	16	19	0.4	
104M	921087	0.2	0.3	0.2	0.2	2	3	320	0.65	2	77	30	1	2	0.2	16	19	0.4	
104M	921101	0.2	1.1	0.2	0.2	2	9	140	0.50	6	40	10	2	3	0.2	12	19	0.2	
104M	921102	0.2	0.9	0.2	0.2	2	9	130	0.40	3	39	10	1	2	0.2	13	24	0.4	
104M	923001	0.2	23.0	0.2	0.2	5	25	250	1.00	3	100	20	2	15	0.2	28	31	1.9	
104M	923015	0.4	21.0	0.2	0.2	4	24	190	1.00	3	108	20	1	16	0.2	31	27	1.4	
104M	923021	0.2	1.2	0.2	0.2	6	21	250	0.75	2	110	10	2	5	0.2	21	17	1.3	
104M	923038	0.2	0.7	0.2	0.2	6	20	260	0.75	3	87	20	1	5	0.2	24	15	1.0	
104M	923041	1.4	12.0	0.2	0.2	8	25	320	1.30	5	231	50	2	19	0.2	33	32	0.9	
104M	923057	1.3	13.0	0.3	0.2	7	21	320	1.20	8	218	40	2	17	0.2	26	32	0.8	
104M	923061	1.6	14.0	0.3	0.2	8	26	220	1.60	5	381	100	2	18	0.2	36	45	0.7	
104M	923066	1.4	16.0	0.2	0.2	10	28	240	1.60	6	391	90	1	16	0.2	33	41	1.1	
104M	923081	0.2	1.3	0.3	0.2	2	3	580	0.25	15	117	20	2	2	0.2	7	41	0.4	
104M	923082	0.2	1.0	0.2	0.3	2	2	580	0.30	14	116	20	2	3	0.2	8	39	0.6	
104M	923101	3.3	24.0	0.3	0.2	13	67	260	4.00	12	365	30	4	30	0.2	86	88	5.1	
104M	923105	3.3	26.0	0.3	0.3	12	62	260	3.90	10	345	30	3	29	0.2	80	83	4.7	
104M	923121	0.2	0.5	0.2	0.2	2	3	440	0.70	20	232	20	2	3	0.2	10	47	1.8	
104M	923123	0.2	0.7	0.2	0.2	2	4	440	0.75	16	229	20	1	2	0.2	8	48	2.4	
104M	923141	0.2	1.7	0.2	0.2	2	5	310	0.80	6	146	20	1	2	0.2	15	26	0.9	
104M	923143	0.2	1.5	0.2	0.2	2	6	280	0.70	5	149	20	2	3	0.2	17	24	0.7	
104M	923161	0.2	0.3	0.2	0.2	2	4	380	1.30	7	186	20	1	2	0.2	22	45	1.8	
104M	923164	0.2	0.3	0.2	0.2	2	4	370	1.20	8	193	20	2	2	0.2	25	47	2.0	

ANALYTICAL DUPLICATE DATA

MAP	SAMPLE ID	Au 2 ppb INAA	Sb 0.1 ppm INAA	As 0.5 ppm INAA	Ba 50 ppm INAA	Br 0.5 ppm INAA	Ce 3 ppm INAA	Cs 1 ppm INAA	Cr 5 ppm INAA	Co 1 ppm INAA	Hf 1 ppm INAA	Fe 0.02 % INAA	La 1 ppm INAA	Lu 0.05 ppm INAA	Mo 1 ppm INAA	Ni 20 ppm INAA	Rb 15 ppm INAA	Sm 0.1 ppm INAA	Sc 0.1 ppm INAA	Na 0.01 % INAA	Ta 0.5 ppm INAA	Tb 0.5 ppm INAA	Th 0.5 ppm INAA	W 1 ppm INAA	U 0.5 ppm INAA	Yb 0.2 ppm INAA	Wt 0.01 g	:D.L. :Unit :Mthd
104M	921001	4	10.0	110.0	780	0.7	76	9	52	14	4.0	3.30	45.0	0.28	1	75	85	4.5	11.0	1.87	0.5	0.5	19.0	1	4.5	1.8	10.42	
104M	921005	30	10.0	140.0	980	0.5	81	9	63	16	6.0	4.01	52.0	0.34	1	20	83	4.4	13.0	1.87	0.6	0.8	19.0	3	6.6	2.2	26.63	
104M	921021	4	1.1	16.0	1600	1.6	100	2	120	14	15.0	4.30	53.0	0.79	1	20	40	8.1	14.0	1.55	2.9	1.6	16.0	1	6.0	5.7	9.60	
104M	921022	2	0.9	12.0	1700	0.5	100	2	99	12	11.0	3.51	53.0	0.61	1	20	56	8.2	12.0	1.33	1.8	1.4	16.0	1	5.2	4.3	10.07	
104M	921041	6	4.7	29.0	1600	0.5	54	4	100	12	6.5	3.55	27.0	0.37	1	20	65	4.4	12.0	2.41	0.5	0.5	7.3	1	3.0	2.4	13.11	
104M	921047	2	5.2	30.0	1700	1.3	54	5	110	12	7.3	3.69	29.0	0.37	1	100	67	4.5	13.0	2.54	0.5	0.6	7.6	1	3.2	2.5	12.97	
104M	921081	2	0.2	0.5	1300	0.5	130	1	11	4	22.0	1.97	71.0	0.41	1	20	33	7.8	11.0	2.74	0.5	1.2	21.0	1	9.2	2.7	10.26	
104M	921087	2	0.1	0.5	1300	0.5	120	1	7	5	20.0	2.24	71.0	0.46	1	20	15	6.9	11.0	3.20	0.9	0.5	20.0	1	7.1	2.4	10.21	
104M	921101	2	0.1	1.2	1200	0.5	150	1	36	8	14.0	3.19	89.0	0.36	1	20	41	7.3	13.0	3.12	0.5	0.5	26.0	1	2.3	2.1	11.72	
104M	921102	2	0.1	0.5	1400	0.5	170	1	45	8	16.0	3.57	95.0	0.47	1	20	65	8.6	15.0	3.46	0.5	0.5	29.0	1	2.5	2.3	7.43	
104M	923001	9	0.4	26.0	1100	0.5	73	1	65	12	12.0	3.47	44.0	0.49	1	20	44	5.0	13.0	2.04	1.2	0.5	14.0	1	6.1	3.1	18.63	
104M	923015	18	0.4	26.0	1200	0.5	76	1	66	12	12.0	3.57	43.0	0.51	1	20	32	5.1	13.0	2.05	1.7	0.8	15.0	1	7.0	3.1	17.24	
104M	923021	4	0.2	0.5	1000	0.5	68	1	42	15	4.0	5.07	37.0	0.63	1	20	22	5.7	25.0	3.31	0.5	1.0	9.2	1	3.5	4.3	16.02	
104M	923038	2	0.1	0.5	1100	0.5	71	1	41	16	5.0	5.28	38.0	0.63	1	20	35	6.0	26.0	3.35	0.5	0.5	9.9	1	4.7	3.8	16.72	
104M	923041	7	1.5	17.0	860	0.5	130	2	69	10	14.0	2.91	73.0	0.69	1	89	61	8.6	8.7	1.28	1.5	0.5	24.0	1	6.9	4.6	18.38	
104M	923057	62	1.4	15.0	950	0.5	140	2	70	11	14.0	2.80	74.0	0.71	1	90	60	8.8	8.5	1.32	2.1	1.6	25.0	1	7.3	4.3	17.64	
104M	923061	6	1.7	17.0	820	0.5	41	1	85	15	4.0	3.87	22.0	0.37	1	20	30	4.0	15.0	1.99	0.5	0.5	4.4	1	1.8	2.0	6.38	
104M	923066	2	1.7	12.0	740	0.5	31	1	76	11	3.0	3.06	16.0	0.28	1	20	15	2.9	12.0	1.34	0.5	0.5	3.8	1	1.4	1.9	21.54	
104M	923081	2	0.2	1.1	350	0.5	36	2	5	2	4.2	0.60	16.0	0.54	1	20	150	4.2	1.5	2.52	0.5	0.8	13.0	1	6.1	3.8	12.89	
104M	923082	2	0.2	1.8	350	0.5	36	2	5	1	4.4	0.63	16.0	0.55	1	20	160	4.2	1.5	2.51	0.5	0.5	13.0	1	6.4	3.8	13.57	
104M	923101	18	4.3	28.0	1100	6.1	39	4	170	17	4.3	4.80	20.0	0.29	5	75	68	3.6	17.0	2.28	0.5	0.5	5.2	1	1.7	2.0	11.81	
104M	923105	12	3.8	28.0	1000	6.3	37	3	150	16	4.0	4.46	18.0	0.29	4	90	54	3.4	16.0	2.14	0.5	0.5	4.4	1	2.4	1.9	11.95	
104M	923121	2	0.1	1.3	1300	3.2	110	3	9	3	8.4	1.62	56.0	0.34	1	20	150	7.0	4.7	2.24	1.3	0.5	26.0	1	12.0	2.2	11.70	
104M	923123	7	0.1	1.4	1400	2.8	100	3	10	3	8.0	1.49	54.0	0.37	1	20	150	6.9	4.6	2.17	1.9	0.5	24.0	1	11.0	2.4	11.48	
104M	923141	2	0.1	2.5	1300	0.5	150	1	17	3	18.0	2.18	88.0	0.86	1	20	91	7.9	5.8	3.02	1.0	0.5	24.0	1	7.3	4.8	12.43	
104M	923143	2	0.2	2.2	1400	0.5	160	1	15	3	17.0	2.22	92.0	0.88	1	20	80	8.0	5.8	3.07	0.5	0.5	23.0	1	7.7	4.7	12.46	
104M	923161	2	0.1	0.5	1400	0.5	220	3	11	4	21.0	2.74	130.0	0.60	1	20	130	11.0	6.4	3.06	1.9	0.5	52.0	1	13.0	3.4	12.33	
104M	923164	4	0.2	0.5	1400	0.5	220	3	15	5	19.0	2.67	130.0	0.61	1	20	160	11.0	6.4	3.01	0.5	0.5	48.0	1	12.0	3.2	12.27	

ANALYTICAL DUPLICATE DATA

MAP	SAMPLE ID	Sb ppm AAS	As ppm AAS-H	Bi ppm AAS-H	Cd ppm AAS	Co ppm AAS	Cu ppm AAS	F ppm ION	Fe % AAS	Pb ppm AAS	Mn ppm AAS	Hg ppb AAS-F	Mo ppm AAS	Ni ppm AAS	Ag ppm AAS	V ppm AAS	Zn ppm AAS	LOI % GRAV
		0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0 :D.L.
104M	923181	0.2	1.8	0.4	0.2	4	24	300	1.30	11	277	20	2	6	0.2	39	35	2.4
104M	923184	0.2	1.8	0.4	0.2	4	23	390	1.30	12	263	20	2	5	0.2	37	34	2.0
104M	923201	0.9	1.3	0.2	0.2	3	2	500	1.20	14	300	20	3	3	0.3	13	47	1.6
104M	923202	0.4	1.4	0.2	0.2	3	2	540	1.20	12	307	20	2	3	0.2	10	46	1.5
104M	923221	1.9	31.0	1.8	0.5	10	50	350	2.30	17	363	20	3	14	0.7	62	57	1.6
104M	923228	1.8	29.0	2.0	0.6	9	43	290	2.10	15	367	20	2	13	0.5	60	63	2.0
104M	923241	1.7	29.0	0.3	0.2	9	30	320	2.30	11	350	30	2	18	0.2	50	63	6.2
104M	923247	1.6	24.0	0.3	0.2	8	29	270	2.40	10	350	40	1	17	0.2	49	63	7.6
104M	923261	0.4	18.0	0.2	0.2	2	7	170	0.30	4	50	20	2	2	0.2	15	16	1.1
104M	923271	0.4	17.0	0.2	0.2	2	5	110	0.50	3	51	20	2	2	0.2	14	16	1.7
104M	925001	0.4	4.6	0.3	0.3	11	32	630	2.00	20	348	10	2	14	0.3	49	82	3.1
104M	925010	0.3	4.5	0.4	0.3	11	32	590	2.00	21	342	10	2	14	0.2	47	80	3.0
104M	925021	0.2	0.7	0.4	0.2	5	11	470	1.40	5	217	10	4	5	0.2	36	40	2.9
104M	925025	0.2	0.7	0.5	0.2	6	11	490	1.40	6	205	10	4	4	0.2	37	39	3.3
104M	925041	0.2	0.2	0.3	0.2	3	6	210	0.45	6	63	10	2	2	0.2	13	12	0.7
104M	925043	0.2	0.2	0.3	0.2	3	7	200	0.40	6	60	10	2	2	0.2	13	14	0.9
104M	925061	0.2	0.8	0.2	0.2	8	22	440	1.30	6	247	10	2	6	0.2	46	39	2.6
104M	925066	0.2	0.9	0.2	0.2	7	23	370	1.30	4	212	10	1	5	0.2	45	39	1.9
104M	925081	1.5	16.0	0.2	0.2	10	40	260	1.60	3	238	100	1	19	0.2	51	31	2.1
104M	925085	1.5	11.0	0.2	0.2	12	43	240	1.70	3	245	100	2	21	0.2	58	33	1.9
104M	925101	0.7	19.0	2.0	0.2	7	24	500	2.60	21	363	40	8	14	0.7	49	53	14.1
104M	925116	0.6	18.0	1.8	0.2	7	24	510	2.80	21	372	50	9	12	0.8	43	55	13.9
104M	925121	0.2	1.4	0.2	0.2	3	3	270	0.55	6	149	10	1	2	0.2	11	33	0.8
104M	925123	0.2	2.3	0.2	0.2	3	5	280	0.50	6	140	10	1	2	0.2	10	35	1.0
104M	925141	0.2	0.6	0.2	0.2	3	7	330	0.90	7	151	10	2	3	0.2	20	39	1.2
104M	925144	0.2	0.5	0.2	0.2	3	8	280	0.80	6	148	10	1	3	0.2	20	38	1.2
104M	925161	0.5	4.8	0.2	0.2	19	37	670	4.20	11	560	10	5	34	0.2	100	108	2.3
104M	925178	0.6	4.9	0.2	0.2	20	36	650	4.00	10	464	10	4	34	0.3	90	110	3.7
																		:Unit
																		:Mthd

ANALYTICAL DUPLICATE DATA

MAP	SAMPLE ID	Au 2 ppb INAA	Sb 0.1 ppm INAA	As 0.5 ppm INAA	Ba 50 ppm INAA	Br 0.5 ppm INAA	Ce 3 ppm INAA	Cs 1 ppm INAA	Cr 5 ppm INAA	Co 1 ppm INAA	Hf 1 ppm INAA	Fe 0.02 % INAA	La 1 ppm INAA	Lu 0.05 ppm INAA	Mo 1 ppm INAA	Ni 20 ppm INAA	Rb 15 ppm INAA	Sm 0.1 ppm INAA	Sc 0.1 ppm INAA	Na 0.01 % INAA	Ta 0.5 ppm INAA	Tb 0.5 ppm INAA	Th 0.5 ppm INAA	W 1 ppm INAA	U 0.5 ppm INAA	Yb 0.2 ppm INAA	Wt 0.01 g	:D.L. :Unit :Mthd
104M	923181	3	0.5	3.0	1500	1.5	87	3	40	11	8.0	3.42	51.0	0.37	1	20	87	4.5	12.0	2.50	1.7	0.5	23.0	6	14.0	2.3	21.34	
104M	923184	5	0.6	3.2	1500	0.5	96	3	46	11	8.0	3.69	54.0	0.48	1	20	110	5.0	13.0	2.65	0.5	0.5	24.0	6	15.0	2.6	19.82	
104M	923201	2	0.7	3.8	840	0.5	150	3	16	5	36.0	2.50	74.0	1.80	1	20	160	10.0	6.9	2.62	3.2	1.5	52.0	3	27.0	10.1	15.14	
104M	923202	2	0.7	3.1	850	0.5	150	4	19	5	39.0	2.53	74.0	1.37	1	20	150	10.0	7.0	2.65	2.2	1.7	55.0	1	29.0	9.4	17.16	
104M	923221	6	3.5	31.0	680	1.3	42	4	62	14	5.0	4.14	19.0	0.07	2	20	64	3.7	13.0	1.64	0.6	0.5	7.3	6	3.1	1.9	5.02	
104M	923228	12	3.8	28.0	650	0.5	41	4	60	15	3.5	4.54	22.0	0.30	1	20	52	3.3	14.0	1.62	0.5	0.6	5.4	9	3.1	1.8	12.89	
104M	923241	6	3.1	25.0	1000	19.0	53	5	82	10	5.6	3.66	31.0	0.37	1	20	88	3.8	12.0	2.48	0.5	0.5	8.6	1	3.9	1.9	10.42	
104M	923247	6	2.8	24.0	970	20.0	51	5	79	11	5.0	3.52	28.0	0.32	1	20	83	3.7	12.0	2.42	0.5	0.5	8.5	1	3.6	1.8	10.87	
104M	923261	2	0.8	21.0	1200	0.5	100	2	17	3	13.0	1.63	61.0	0.40	1	20	73	5.3	4.1	2.74	1.5	0.5	19.0	1	13.0	2.2	18.08	
104M	923271	6	0.8	19.0	1200	0.5	87	1	12	2	12.0	1.35	49.0	0.29	1	20	77	3.9	3.7	2.54	1.0	0.6	16.0	1	13.0	1.8	18.14	
104M	925001	25	1.2	7.6	890	2.6	56	2	100	14	6.0	4.95	26.0	0.52	1	20	41	4.6	18.0	2.44	0.5	0.5	4.5	1	1.5	2.8	16.42	
104M	925010	8	1.4	9.4	1100	3.4	69	2	140	18	7.7	5.75	32.0	0.49	1	20	78	6.4	22.0	2.53	0.5	1.5	5.5	1	1.7	3.4	11.77	
104M	925021	2	0.2	0.5	1400	0.5	110	3	52	8	38.0	3.64	68.0	0.78	1	20	78	5.5	11.0	2.31	1.9	1.7	35.0	5	18.0	4.1	19.99	
104M	925025	2	0.3	0.5	1500	2.5	120	3	61	10	41.0	3.96	73.0	0.73	1	20	91	6.1	12.0	2.45	3.7	0.5	33.0	6	18.0	4.5	15.56	
104M	925041	2	0.1	0.5	1300	0.5	110	3	39	7	12.0	2.53	68.0	0.37	1	20	61	5.6	8.1	2.76	1.5	0.5	29.0	7	6.8	2.5	13.96	
104M	925043	8	0.3	1.0	1200	0.5	97	2	26	6	11.0	2.52	62.0	0.36	1	20	55	4.5	7.3	2.81	1.9	0.5	29.0	7	8.7	2.4	18.60	
104M	925061	3	0.4	1.7	1800	1.4	99	2	42	12	9.0	4.39	64.0	0.42	1	20	55	5.9	16.0	2.71	1.1	1.0	19.0	1	8.3	2.9	18.85	
104M	925066	2	0.3	1.8	1700	0.5	95	2	41	12	9.0	4.30	63.0	0.42	1	20	58	5.7	16.0	2.65	0.5	0.7	20.0	1	9.0	2.5	18.94	
104M	925081	3	3.3	17.0	900	1.8	51	1	150	17	5.0	4.54	31.0	0.32	1	20	49	3.2	20.0	2.12	0.5	0.5	7.4	1	2.1	2.0	19.56	
104M	925085	13	3.7	19.0	980	1.9	54	2	160	18	5.0	4.78	33.0	0.36	1	20	48	3.5	21.0	2.23	0.5	0.5	7.5	1	2.4	2.3	19.64	
104M	925101	34	1.7	22.0	810	24.0	88	30	80	13	10.0	4.30	54.0	0.61	1	20	180	8.4	14.0	1.93	0.5	0.5	32.0	1	360.0	3.0	11.06	
104M	925116	21	2.0	19.0	900	22.0	64	28	78	9	9.0	3.70	47.0	0.57	1	20	170	8.0	12.0	1.68	0.5	0.5	28.0	1	310.0	2.8	11.40	
104M	925121	2	0.1	0.5	1600	0.5	100	2	5	2	10.0	1.63	55.0	0.30	1	20	100	5.8	3.2	3.06	0.5	0.5	17.0	1	4.9	1.9	13.14	
104M	925123	2	0.1	0.5	1700	0.5	100	2	8	4	11.0	1.59	56.0	0.28	1	20	100	5.8	3.1	3.11	0.5	0.8	16.0	1	5.5	2.0	13.32	
104M	925141	2	0.1	0.5	1300	0.5	100	3	24	6	11.0	2.05	53.0	0.37	1	20	64	6.8	7.5	2.56	0.5	1.2	17.0	1	12.0	2.7	13.06	
104M	925144	2	0.1	0.5	1300	0.5	110	2	34	6	12.0	2.07	56.0	0.42	1	20	50	6.8	7.8	2.72	1.4	0.5	19.0	1	13.0	2.6	13.18	
104M	925161	2	1.1	5.9	650	0.5	120	4	110	22	8.8	5.59	60.0	0.50	6	20	120	8.6	17.0	0.61	1.1	0.5	16.0	1	2.2	3.7	10.77	
104M	925178	4	0.9	4.9	540	0.5	110	3	83	21	7.3	5.79	55.0	0.48	2	20	100	7.1	16.0	0.60	0.5	0.5	13.0	1	2.3	2.9	11.14	

ANALYTICAL DUPLICATE DATA

MAP	SAMPLE ID	Sb ppm AAS	As ppm AAS-H	Bi ppm AAS-H	Cd ppm AAS	Co ppm AAS	Cu ppm AAS	F ppm ION	Fe % AAS	Pb ppm AAS	Mn ppm AAS	Hg ppb AAS-F	Mo ppm AAS	Ni ppm AAS	Ag ppm AAS	V ppm AAS	Zn ppm AAS	LOI % GRAV
		0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0 :D.L.
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	% :Unit
		AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	AAS	GRAV :Mthd
104M	925181	0.2	0.4	0.2	0.3	6	16	480	1.30	17	189	10	2	8	0.3	39	46	4.4
104M	925182	0.2	0.4	0.2	0.3	6	16	510	1.40	18	196	10	3	8	0.3	43	49	4.3
104M	925201	0.8	8.0	0.2	0.3	8	18	290	1.80	11	168	10	2	6	0.2	46	47	0.9
104M	925206	0.9	7.1	0.3	0.3	7	17	210	2.10	12	193	10	1	5	0.2	43	46	1.1
104M	925221	0.2	4.7	0.5	0.2	4	11	290	1.10	6	141	10	5	6	0.2	33	29	3.5
104M	925222	0.2	4.4	0.4	0.2	4	12	340	1.10	6	153	10	6	7	0.2	35	30	3.1
104M	925241	0.2	1.0	0.3	0.4	4	8	490	2.00	29	452	40	6	3	0.4	40	68	11.7
104M	925243	0.2	1.1	0.2	0.5	4	8	500	2.00	28	441	40	6	2	0.3	40	70	12.2
104M	925261	0.2	0.3	0.2	0.2	2	2	260	0.60	2	112	30	1	2	0.2	14	17	0.7
104M	925277	0.3	0.2	0.2	0.2	2	3	330	0.55	2	127	10	1	2	0.2	14	18	1.1
104M	925281	0.2	0.2	0.2	0.2	2	4	340	0.85	3	71	10	6	2	0.2	20	26	3.0
104M	925291	0.2	0.2	0.2	0.2	3	4	300	0.70	3	66	10	5	2	0.2	19	25	3.4
104M	925301	0.2	0.2	0.2	0.2	3	3	240	0.90	6	168	10	2	2	0.2	18	41	3.3
104M	925302	0.2	0.2	0.2	0.2	2	2	320	0.85	5	164	10	2	2	0.2	17	39	2.8
104M	925321	0.2	3.1	0.2	0.2	4	7	230	1.40	5	239	20	3	3	0.2	27	39	6.5
104M	925340	0.2	2.8	0.2	0.2	4	9	250	1.40	4	232	20	3	3	0.2	26	41	7.0
104M	925341	2.1	120.0	0.2	0.4	16	62	340	3.10	11	435	40	3	37	0.3	95	76	12.7
104M	925343	2.1	125.0	0.3	0.6	15	68	290	3.00	12	456	40	3	39	0.4	98	87	13.0
104M	925361	12.5	160.0	0.4	1.8	12	44	540	2.70	19	466	110	9	45	0.2	26	205	3.3
104M	925367	14.5	160.0	0.4	1.8	12	44	430	2.80	20	480	110	9	45	0.2	27	204	3.3
104M	925381	0.2	0.8	0.2	0.2	4	3	350	0.75	2	126	10	1	2	0.2	26	27	0.4
104M	925382	0.2	1.2	0.2	0.2	3	4	350	0.80	2	125	10	2	2	0.2	22	26	0.4
104M	925401	0.4	3.2	0.2	0.2	7	13	190	1.60	3	419	30	1	14	0.2	35	37	6.7
104M	925408	0.4	3.1	0.2	0.2	7	13	200	1.70	4	410	30	2	14	0.2	31	37	6.4
104M	925421	0.2	1.1	0.2	0.3	2	4	340	0.95	2	183	30	2	2	0.2	16	47	0.6
104M	925423	0.2	1.2	0.2	0.2	2	5	360	0.95	2	185	10	1	2	0.2	15	48	0.8
104M	925441	0.2	4.2	0.2	0.2	2	6	300	0.30	5	63	10	1	2	0.2	14	24	0.1
104M	925442	0.2	4.3	0.2	0.2	2	8	300	0.40	5	58	10	1	2	0.2	14	23	0.3

ANALYTICAL DUPLICATE DATA

MAP	SAMPLE ID	Au	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	
		2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:D.L.
		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	g	:Unit
		INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA		:Mthd
104M	925181	2	0.2	0.5	1000	4.9	96	3	22	11	6.4	3.27	53.0	0.47	1	20	72	5.6	12.0	2.67	0.5	0.5	15.0	1	29.0	2.2	11.83	
104M	925182	5	0.1	2.1	1000	0.5	97	2	22	10	7.2	3.52	57.0	0.56	1	20	63	5.9	13.0	2.77	1.2	0.5	16.0	1	28.0	2.2	11.48	
104M	925201	5	2.3	8.2	850	0.5	46	2	36	11	5.0	3.76	23.0	0.25	1	20	29	4.3	13.0	2.32	0.5	0.5	5.3	1	2.1	2.3	6.15	
104M	925206	14	2.7	7.7	1100	0.5	50	1	46	12	5.0	4.26	27.0	0.41	1	20	44	4.3	15.0	2.23	0.5	0.8	6.5	1	2.8	2.7	19.70	
104M	925221	2	1.2	5.8	1200	2.9	110	4	77	6	17.0	3.80	68.0	0.47	1	20	84	4.5	8.8	2.78	1.8	0.5	29.0	9	21.0	2.7	18.89	
104M	925222	2	1.3	5.4	1300	3.1	110	4	82	7	17.0	3.84	69.0	0.49	1	20	94	4.6	9.0	2.86	1.3	0.5	32.0	11	22.0	2.9	17.38	
104M	925241	2	0.1	0.9	1300	16.0	78	4	16	5	11.0	2.64	53.0	0.47	1	20	93	4.8	8.1	2.10	1.7	0.8	26.0	1	36.0	3.2	17.93	
104M	925243	2	0.2	1.5	1100	16.0	75	4	11	5	11.0	2.63	51.0	0.47	1	20	99	4.8	7.9	2.04	2.0	0.5	25.0	1	35.0	2.6	19.35	
104M	925261	2	1.7	2.1	1700	0.5	190	1	19	5	46.0	4.36	120.0	1.07	1	20	81	8.9	7.3	2.19	3.6	1.2	32.0	1	9.6	5.9	17.68	
104M	925277	2	1.6	1.5	1700	0.5	180	1	16	4	42.0	4.05	110.0	0.99	1	20	54	8.2	6.9	2.17	2.1	1.1	28.0	1	9.2	6.0	19.76	
104M	925281	3	0.2	0.5	1500	4.9	140	1	14	4	14.0	2.17	80.0	0.42	1	20	36	6.2	11.0	2.60	0.5	0.5	16.0	1	17.0	2.3	15.99	
104M	925291	2	0.1	0.5	1400	4.8	120	1	11	4	12.0	1.90	75.0	0.36	1	20	15	5.5	9.7	2.45	0.5	0.9	13.0	1	16.0	2.0	16.21	
104M	925301	6	0.2	1.2	1500	2.0	73	2	8	4	8.0	1.56	53.0	0.30	1	20	98	5.1	4.6	2.92	0.5	0.5	20.0	1	22.0	1.8	14.52	
104M	925302	2	0.1	0.5	1400	2.4	70	2	5	3	7.0	1.54	52.0	0.30	1	20	100	4.8	4.4	2.85	0.5	0.5	19.0	1	21.0	1.7	14.54	
104M	925321	4	0.5	4.9	1000	6.5	130	3	21	5	14.0	3.52	95.0	0.64	1	20	92	8.1	7.8	2.33	2.7	1.0	35.0	1	24.0	3.8	18.45	
104M	925340	12	0.7	5.8	1200	7.9	160	3	29	6	17.0	3.82	100.0	0.70	1	90	90	9.1	8.5	2.42	3.0	0.5	37.0	1	28.0	4.3	15.27	
104M	925341	2	3.4	87.0	760	30.0	45	4	170	20	4.0	4.80	28.0	0.37	1	20	46	3.4	20.0	1.69	1.4	0.6	6.6	1	15.0	2.3	16.17	
104M	925343	17	3.5	84.0	770	30.0	48	5	180	20	4.0	4.83	27.0	0.38	1	20	48	3.4	20.0	1.69	0.5	0.7	7.3	1	17.0	2.4	16.73	
104M	925361	15	17.0	170.0	1100	0.5	53	10	61	14	7.0	3.78	29.0	0.51	6	20	100	4.1	13.0	1.49	0.5	0.5	9.5	1	4.3	2.9	18.83	
104M	925367	16	17.0	170.0	1100	0.5	52	10	60	13	7.0	3.68	28.0	0.48	6	20	120	4.0	13.0	1.47	1.1	0.5	9.8	1	4.6	3.0	16.27	
104M	925381	2	0.2	0.5	1700	0.5	91	1	18	7	12.0	3.13	50.0	0.39	1	20	46	6.0	12.0	2.73	1.4	1.0	18.0	1	6.2	2.5	19.94	
104M	925382	2	0.3	1.3	1600	0.5	88	2	18	7	11.0	3.12	50.0	0.37	1	20	52	5.8	12.0	2.71	1.2	0.9	17.0	1	4.9	2.4	16.51	
104M	925401	75	1.0	4.6	970	7.6	50	2	76	9	6.6	3.25	28.0	0.35	1	20	62	3.2	11.0	2.85	0.5	0.5	5.3	1	1.5	1.8	10.30	
104M	925408	2	1.0	5.4	1000	7.7	47	3	80	8	6.2	3.30	28.0	0.34	1	20	58	3.1	11.0	2.86	0.5	0.5	5.6	1	1.7	1.6	11.56	
104M	925421	2	0.1	0.5	780	0.5	67	1	5	4	8.7	2.54	41.0	0.33	1	20	38	5.3	10.0	2.82	1.0	0.6	8.8	1	2.8	2.3	12.59	
104M	925423	2	0.1	1.0	770	0.5	66	1	8	4	7.7	2.52	40.0	0.33	1	20	15	5.0	10.0	2.80	0.5	0.5	8.5	1	3.0	2.3	13.32	
104M	925441	2	0.1	4.4	940	0.5	89	1	11	3	13.0	1.36	53.0	0.21	1	43	54	4.9	5.0	2.66	0.5	1.2	9.8	1	2.2	1.8	6.06	
104M	925442	3	0.1	3.8	820	0.5	89	1	9	3	12.0	1.41	52.0	0.25	1	20	27	4.8	4.8	2.57	0.5	0.5	10.0	1	2.7	1.5	5.13	

ANALYTICAL DUPLICATE DATA

MAP	SAMPLE ID	Sb ppm AAS	As ppm AAS-H	Bi ppm AAS-H	Cd ppm AAS	Co ppm AAS	Cu ppm AAS	F ppm ION	Fe % AAS	Pb ppm AAS	Mn ppm AAS	Hg ppb AAS-F	Mo ppm AAS	Ni ppm AAS	Ag ppm AAS	V ppm AAS	Zn ppm AAS	LOI % GRAV	
		0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	1.0	:D.L.
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	:Unit
		AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	AAS	GRAV	:Mthd
104M	925461	0.2	1.4	0.2	0.2	2	5	280	0.20	3	40	10	1	2	0.2	7	14	0.2	
104M	925465	0.2	1.6	0.2	0.2	2	5	200	0.30	2	42	10	1	2	0.2	5	15	0.1	
104M	925481	0.2	0.6	0.2	0.2	4	5	580	1.70	4	256	10	2	2	0.2	34	62	1.6	
104M	925486	0.2	0.3	0.2	0.2	5	3	490	1.60	3	240	10	2	2	0.2	34	61	2.0	

ANALYTICAL DUPLICATE DATA

MAP	SAMPLE ID	Au	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb	Wt	
		2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2	0.01	:D.L.
		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	g	:Unit
		INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA		:Mthd
104M	925461	2	0.1	0.5	1300	0.5	150	1	12	3	9.6	0.93	92.0	0.30	1	20	47	6.5	4.8	2.54	0.5	0.5	29.0	1	3.9	1.7	12.00	
104M	925465	2	0.1	1.5	1300	0.5	150	1	9	3	11.0	1.02	93.0	0.28	1	20	57	6.6	5.1	2.63	0.5	0.5	29.0	1	4.1	1.8	13.90	
104M	925481	3	0.1	0.5	1500	3.2	170	1	11	6	13.0	3.19	92.0	0.43	1	20	53	9.0	10.0	2.64	0.5	0.5	18.0	1	4.7	2.9	11.56	
104M	925486	4	0.2	0.5	1300	3.2	130	1	5	6	11.0	3.02	80.0	0.31	1	20	58	6.9	9.2	2.63	0.5	0.5	15.0	1	4.9	2.1	11.65	

BRITISH COLUMBIA REGIONAL GEOCHEMICAL SURVEY

BC RGS 37 - NTS 104M Skagway

APPENDIX C

STATISTICAL SUMMARY

Notes:

- Calculations ignore missing values, analytical results from the second of paired field duplicates and repeat gold analysis.

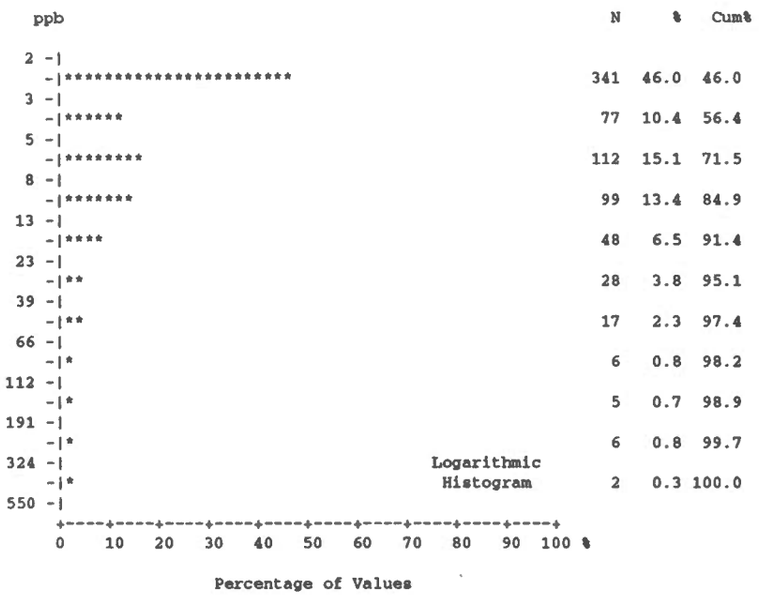
STATISTICAL SUMMARY FOR TOTAL DATA SET

	Sb	As	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Ag	V	Zn	LOI	FW	UW	SO4	pH
D.L.	0.2	0.2	0.2	0.2	2	2	40	0.02	2	5	10	1	2	0.2	5	2	0.1	20	0.05	0.1	0.1
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	ppb	ppb	ppm	
Mthd	AAS	AAS-H	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	AAS-F	AAS	AAS	AAS	AAS	AAS	GRAV	ION	LIF	TURB	GCE
N	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741	729	729	729	729
N > D.L.	345	715	326	360	599	724	741	741	690	741	514	587	559	187	728	741	733	712	429	717	729
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12	12	12
Mean	1.72	38.31	0.53	0.46	7.8	27.6	466.4	1.98	15.9	368.5	34.5	3.6	14.1	0.30	41.5	76.5	5.85	112.0	0.65	9.10	7.18
Median	0.20	4.00	0.20	0.20	6.0	16.0	370.0	1.70	11.0	312.0	20.0	2.0	7.0	0.20	36.0	63.0	4.00	50.0	0.11	1.80	7.10
Mode	0.20	0.20	0.20	0.20	2.0	5.0	300.0	1.40	2.0	105.0	10.0	2.0	2.0	0.20	26.0	41.0	0.40	30.0	0.05	0.40	7.10
Range	124.8	3999.8	13.3	5.9	41	276	40910	9.65	184	1717	950	62	406	11.8	180	803	60.5	2390	25.45	469.9	3.3
St Dev	6.21	190.92	1.10	0.56	6.12	30.99	1507.54	1.22	18.69	251.55	53.73	5.00	23.96	0.54	26.91	59.77	6.10	238.63	2.33	27.41	0.44
Coef Var	3.603	4.984	2.094	1.219	0.783	1.124	3.232	0.614	1.177	0.683	1.558	1.373	1.698	1.779	0.648	0.781	1.042	2.131	3.579	3.014	0.062
Log Mean	-0.280	0.672	-0.490	-0.478	0.772	1.210	2.579	0.213	1.027	2.473	1.382	0.403	0.865	-0.607	1.524	1.796	0.539	1.784	-0.793	0.364	0.855
Geo Mean	0.53	4.70	0.32	0.33	5.9	16.2	379.1	1.63	10.6	297.2	24.1	2.5	7.3	0.25	33.4	62.5	3.46	60.8	0.16	2.31	7.17
Log StDv	0.555	0.838	0.327	0.300	0.328	0.458	0.188	0.286	0.382	0.295	0.327	0.323	0.480	0.200	0.303	0.273	0.497	0.368	0.590	0.680	0.027
Log CVar	-1.991	1.249	-0.668	-0.627	0.425	0.379	0.073	1.347	0.373	0.119	0.237	0.804	0.554	-0.330	0.199	0.152	0.922	0.206	-0.744	1.869	0.032
Percntls																					
Minimum	0.2	0.2	0.2	0.2	2	2	90	0.15	2	33	10	1	2	0.2	5	7	0.1	20	0.05	0.1	5.0
10th	0.2	0.5	0.2	0.2	2	4	240	0.65	3	117	10	1	2	0.2	13	28	0.7	30	0.05	0.4	6.7
20th	0.2	0.8	0.2	0.2	3	6	280	1.00	5	173	10	1	2	0.2	19	38	1.3	30	0.05	0.6	6.8
30th	0.2	1.2	0.2	0.2	4	8	310	1.30	7	223	10	2	3	0.2	24	45	2.0	40	0.05	0.9	7.0
40th	0.2	2.1	0.2	0.2	5	11	330	1.50	9	264	20	2	4	0.2	30	55	3.0	40	0.05	1.2	7.1
50th	0.2	4.0	0.2	0.2	6	16	370	1.70	11	312	20	2	7	0.2	36	63	4.0	50	0.11	1.8	7.1
60th	0.4	7.2	0.3	0.3	8	23	400	2.00	14	362	30	3	11	0.2	42	73	5.4	60	0.18	3.3	7.2
70th	1.0	15.0	0.4	0.4	9	32	450	2.40	16	421	40	3	15	0.2	50	87	7.0	70	0.28	5.3	7.4
80th	1.8	28.0	0.5	0.6	12	45	500	2.90	20	509	40	4	22	0.3	61	103	9.4	90	0.47	9.0	7.6
85th	2.5	37.0	0.6	0.7	13	51	550	3.20	25	573	50	5	26	0.4	68	113	11.2	120	0.68	13.0	7.7
90th	3.7	60.0	0.9	1.0	16	65	590	3.80	32	685	50	6	33	0.5	76	134	13.4	160	1.11	19.0	7.8
95th	5.5	140.0	1.6	1.4	20	92	700	4.20	45	870	90	11	45	0.6	93	166	16.5	390	2.28	34.0	8.0
98th	14.0	240.0	3.0	2.4	25	116	910	5.00	74	1090	130	19	57	0.9	112	237	20.8	1010	5.67	73.0	8.2
99th	20.0	1000.0	6.4	3.0	26	132	1500	5.50	97	1340	210	28	84	1.4	128	301	29.9	1170	11.70	110.0	8.2
Maximum	125.0	4000.0	13.5	6.1	43	278	41000	9.80	186	1750	960	63	408	12.0	185	810	60.6	2410	25.50	470.0	8.3

STATISTICAL SUMMARY FOR TOTAL DATA SET

	Au	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb
D.L.	2	0.1	0.5	50	0.5	3	1	5	1	1	0.02	1	0.05	1	20	15	0.1	0.1	0.01	0.5	0.5	0.5	1	0.5	0.2
Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Mthd	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
N	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741
ı > D.L.	400	589	584	741	489	741	614	679	724	738	741	741	741	93	79	725	738	741	741	321	334	741	162	733	740
ıissing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	11.3	2.66	36.27	1157.2	7.53	89.5	4.1	68.5	10.9	10.2	3.63	50.7	0.52	1.8	29.8	84.0	6.08	12.01	2.28	0.99	0.77	18.86	2.4	16.83	3.24
Median	3.0	0.60	4.70	1100.0	4.00	83.0	3.0	37.0	9.0	8.0	3.49	46.0	0.44	1.0	20.0	77.0	5.50	11.00	2.36	0.50	0.50	15.00	1.0	8.70	2.70
Mode	2.0	0.10	0.50	1200.0	0.50	110.0	2.0	5.0	5.0	8.0	2.80	34.0	0.41	1.0	20.0	110.0	4.30	12.00	2.60	0.50	0.50	13.00	1.0	12.00	2.60
Range	361	139.9	3199.5	5880	109.5	316	29	1495	65	70	11.41	208	4.24	66	380	285	25.9	70.3	3.72	5.2	8.0	169.4	66	469.5	25.0
St Dev	32.01	7.50	157.39	415.43	11.24	43.48	3.42	106.52	8.02	7.27	1.53	25.99	0.32	3.89	36.13	40.69	2.64	6.75	0.61	0.78	0.50	14.26	4.75	30.74	2.03
ıef Var	2.822	2.817	4.340	0.359	1.493	0.486	0.838	1.554	0.738	0.710	0.422	0.513	0.616	2.108	1.211	0.484	0.434	0.562	0.269	0.795	0.650	0.756	1.978	1.826	0.624
ıg Mean	0.672	-0.132	0.743	3.036	0.478	1.903	0.493	1.553	0.927	0.931	0.519	1.650	-0.332	0.093	1.374	1.874	0.743	1.013	0.336	-0.100	-0.163	1.171	0.163	0.963	0.463
ıo Mean	4.7	0.74	5.54	1087.4	3.01	79.7	3.1	35.7	8.5	8.5	3.30	44.6	0.47	1.2	23.7	74.9	5.54	10.31	2.17	0.79	0.69	14.84	1.5	9.18	2.91
ıg StDv	0.458	0.680	0.805	0.163	0.636	0.213	0.317	0.502	0.324	0.259	0.196	0.228	0.189	0.271	0.225	0.216	0.207	0.258	0.150	0.265	0.187	0.308	0.338	0.447	0.188
ıg CVar	0.682	-5.148	1.084	0.054	1.330	0.112	0.642	0.323	0.349	0.278	0.379	0.138	-0.572	2.944	0.164	0.116	0.279	0.254	0.446	-2.672	-1.145	0.263	2.071	0.464	0.407
ırcntls																									
ıinimum	2	0.1	0.5	120	0.5	4	1	5	1	1	0.39	2	0.06	1	20	15	0.1	0.7	0.22	0.5	0.5	0.6	1	0.5	0.2
10th	2	0.1	0.5	740	0.5	43	1	6	3	4	1.90	23	0.30	1	20	43	3.5	4.8	1.34	0.5	0.5	6.2	1	2.7	1.9
20th	2	0.1	0.5	880	0.5	54	2	12	5	5	2.32	29	0.34	1	20	52	4.1	6.7	1.81	0.5	0.5	7.9	1	3.8	2.2
30th	2	0.3	1.7	980	0.5	63	2	17	6	6	2.67	34	0.37	1	20	59	4.5	8.2	2.03	0.5	0.5	9.9	1	5.0	2.4
40th	2	0.4	2.8	1100	2.5	72	3	26	7	7	3.09	40	0.41	1	20	68	5.0	10.0	2.20	0.5	0.5	12.0	1	6.6	2.5
50th	3	0.6	4.7	1100	4.0	83	3	37	9	8	3.49	46	0.44	1	20	77	5.5	11.0	2.36	0.5	0.5	15.0	1	8.7	2.7
60th	5	1.2	9.1	1200	5.7	92	4	55	11	10	3.86	53	0.47	1	20	86	6.2	12.0	2.51	0.8	0.7	18.0	1	12.0	3.0
70th	7	2.0	17.0	1300	8.0	100	5	74	13	11	4.25	59	0.53	1	20	95	6.8	14.0	2.63	1.1	0.8	22.0	1	15.0	3.3
80th	11	3.4	29.0	1400	12.0	120	6	100	16	14	4.74	68	0.62	1	20	110	7.8	16.0	2.76	1.5	1.0	28.0	2	21.0	3.8
85th	14	4.3	40.0	1500	15.0	130	6	120	17	15	5.11	74	0.68	1	20	120	8.3	18.0	2.85	1.7	1.1	31.0	4	25.0	4.1
90th	18	6.0	60.0	1600	19.0	140	8	150	20	18	5.51	84	0.80	3	43	140	9.2	19.0	2.97	2.0	1.2	37.0	5	34.0	4.7
95th	37	11.0	150.0	1700	25.0	170	10	200	24	23	6.34	95	1.01	6	97	160	11.0	23.0	3.13	2.5	1.6	46.0	8	50.0	6.2
98th	82	19.0	240.0	2000	41.0	200	14	320	34	31	7.31	120	1.58	12	150	190	13.0	26.0	3.29	3.4	2.1	54.0	13	92.0	9.4
99th	191	27.0	740.0	2600	49.0	230	17	450	41	41	8.21	140	1.94	18	195	230	14.0	30.0	3.43	4.1	2.4	66.0	20	170.0	12.6
laximum	363	140.0	3200.0	6000	110.0	320	30	1500	66	71	11.80	210	4.30	67	400	300	26.0	71.0	3.94	5.7	8.5	170.0	67	470.0	25.2

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



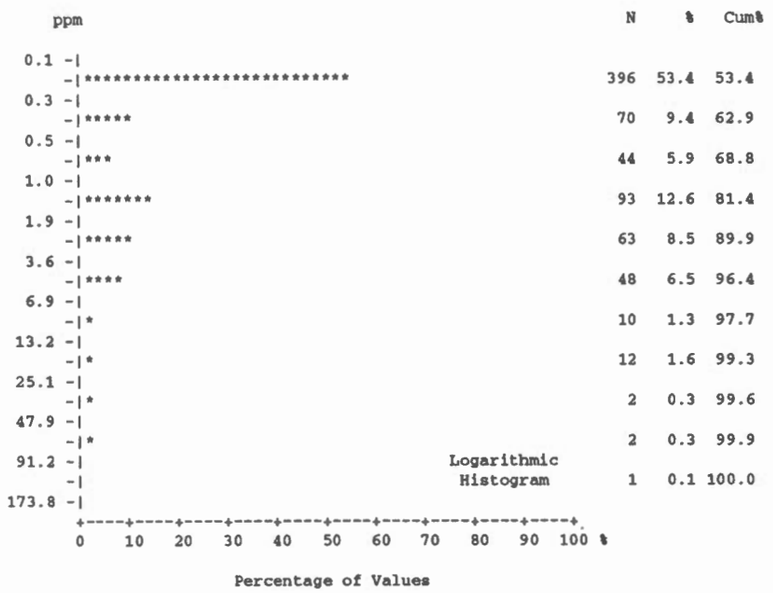
Element Statistics
Variable - Gold [Au]
Number of Values - 741
Units - ppb
Detection Limit - 2
Analytical Method - INAA

	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	400	54	44	48	39	46	28	21	8	22	16	13	9	10	7
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	11.3	4.8	3.1	12.6	13.6	14.1	19.8	11.2	10.3	20.0	4.4	26.8	7.1	13.0	19.4
Median	3.0	2.0	2.0	3.0	6.0	11.0	7.0	4.0	2.0	11.0	3.0	15.0	5.0	8.0	5.0
Mode	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Range	361	148	15	206	328	51	238	177	215	90	11	189	13	60	168
St Dev	32.01	13.05	2.06	28.02	41.47	12.47	40.60	31.50	39.12	25.29	2.90	44.06	4.93	16.67	50.02
Coef Var	2.822	2.697	0.672	2.227	3.042	0.884	2.046	2.814	3.811	1.262	0.655	1.642	0.690	1.283	2.583
Log Mean	0.672	0.487	0.428	0.690	0.784	0.986	0.873	0.683	0.484	1.016	0.573	1.073	0.731	0.874	0.715
Geo Mean	4.7	3.1	2.7	4.9	6.1	9.7	7.5	4.8	3.0	10.4	3.7	11.8	5.4	7.5	5.2
Log StDv	0.458	0.297	0.204	0.506	0.458	0.396	0.562	0.422	0.416	0.517	0.250	0.585	0.361	0.460	0.560
Log CVar	0.682	0.612	0.476	0.734	0.584	0.401	0.645	0.619	0.860	0.509	0.437	0.545	0.494	0.527	0.783
Percntls															
Minimum	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
10th	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
20th	2	2	2	2	2	5	2	2	2	2	2	2	2	2	2
30th	2	2	2	2	2	6	2	2	2	4	2	2	2	4	2
40th	2	2	2	2	4	8	5	3	2	7	3	9	5	5	2
50th	3	2	2	3	6	11	7	4	2	11	3	15	5	8	5
60th	5	2	2	4	8	12	8	5	2	16	4	17	8	9	5
70th	7	3	3	7	11	14	11	7	2	18	5	25	10	9	5
80th	11	6	4	13	13	17	19	9	5	18	6	28	11	14	8
85th	14	6	5	18	18	31	27	9	5	40	8	30	12	17	8
90th	18	8	6	32	21	37	47	11	7	46	9	33	15	30	9
95th	37	10	7	44	25	39	72	18	13	82	9	67	15	30	9
98th	82	13	7	97	28	42	116	22	13	82	13	191	15	62	170
99th	191	35	9	125	28	42	240	179	217	92	13	191	15	62	170
Maximum	363	150	17	208	330	53	240	179	217	92	13	191	15	62	170

(Summary statistics not calculated for formations with fewer than ten values.)

GOLD by INAA (ppb)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



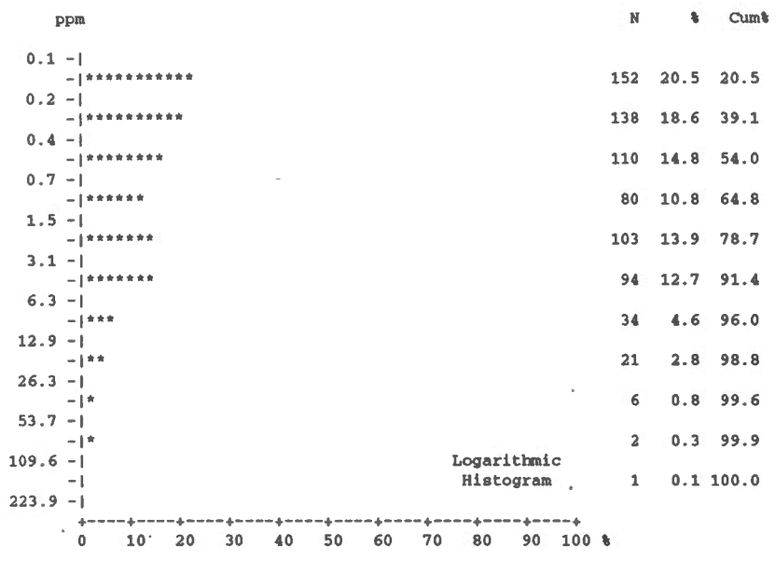
Element Statistics
Variable - Antimony [Sb]
Number of Values - 741
Units - ppm
Detection Limit - 0.2
Analytical Method - AAS

	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	345	17	4	42	59	40	36	19	10	28	1	18	11	7	3
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	1.72	0.26	0.21	1.78	2.10	2.51	3.13	0.77	1.64	5.86	0.22	3.79	1.09	1.28	0.51
Median	0.20	0.20	0.20	0.20	1.70	1.40	1.00	0.50	0.20	2.60	0.20	3.40	1.10	0.30	0.20
Mode	0.20	0.20	0.20	0.20	1.00	0.20	0.20	0.20	0.20	1.20	0.20	0.40	0.20	0.20	0.20
Range	124.8	2.6	1.1	62.8	12.3	19.8	27.8	2.9	16.8	51.7	0.5	7.5	2.3	10.3	2.7
St Dev	6.21	0.27	0.10	7.31	1.81	3.57	6.40	0.73	3.95	9.85	0.10	1.94	0.71	2.80	0.81
Coef Var	3.603	1.044	0.476	4.100	0.862	1.426	2.045	0.943	2.414	1.682	0.470	0.512	0.652	2.178	1.582
Log Mean	-0.280	-0.648	-0.686	-0.375	0.209	0.036	0.017	-0.288	-0.393	0.464	-0.675	0.501	-0.086	-0.303	-0.514
Geo Mean	0.53	0.23	0.21	0.42	1.62	1.09	1.04	0.51	0.40	2.91	0.21	3.17	0.82	0.50	0.31
Log StDv	0.555	0.167	0.084	0.510	0.327	0.598	0.589	0.396	0.582	0.507	0.113	0.309	0.383	0.514	0.368
Log CVar	-1.991	-0.258	-0.123	-1.365	1.566	16.601	36.815	-1.374	-1.482	1.092	-0.168	0.617	-4.510	-1.701	-0.718
Percntls															
Minimum	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.4	0.2	0.2	0.2
10th	0.2	0.2	0.2	0.2	0.7	0.2	0.2	0.2	0.2	0.7	0.2	1.4	0.2	0.2	0.2
20th	0.2	0.2	0.2	0.2	1.0	0.2	0.3	0.2	0.2	1.2	0.2	1.8	0.2	0.2	0.2
30th	0.2	0.2	0.2	0.2	1.1	0.3	0.4	0.2	0.2	1.3	0.2	2.5	0.4	0.2	0.2
40th	0.2	0.2	0.2	0.2	1.5	0.5	0.5	0.2	0.2	1.8	0.2	3.1	0.9	0.2	0.2
50th	0.2	0.2	0.2	0.2	1.7	1.4	1.0	0.5	0.2	2.6	0.2	3.4	1.1	0.3	0.2
60th	0.4	0.2	0.2	0.4	1.9	2.1	1.4	0.6	0.2	4.8	0.2	4.2	1.1	0.5	0.2
70th	1.0	0.2	0.2	0.5	2.2	3.2	1.6	1.0	0.3	5.2	0.2	4.9	1.3	0.9	0.2
80th	1.8	0.2	0.2	0.7	2.8	3.8	2.4	1.4	0.6	5.8	0.2	5.1	1.6	0.9	0.5
85th	2.5	0.2	0.2	1.0	3.2	4.1	3.1	1.4	1.9	7.0	0.2	5.5	1.8	1.1	0.5
90th	3.7	0.3	0.2	2.0	3.7	5.2	5.4	1.7	4.5	12.5	0.2	5.6	2.0	1.3	0.6
95th	5.5	0.4	0.2	3.2	4.5	6.2	20.0	2.0	13.5	14.5	0.2	6.3	2.0	1.3	0.6
98th	14.0	0.7	0.3	20.0	6.7	14.0	24.0	2.0	13.5	14.5	0.7	7.9	2.5	10.5	2.9
99th	20.0	1.6	0.5	27.0	6.7	14.0	28.0	3.1	17.0	52.0	0.7	7.9	2.5	10.5	2.9
Maximum	125.0	2.8	1.3	63.0	12.5	20.0	28.0	3.1	17.0	52.0	0.7	7.9	2.5	10.5	2.9

(Summary statistics not calculated for formations with fewer than ten values.)

ANTIMONY by AAS (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



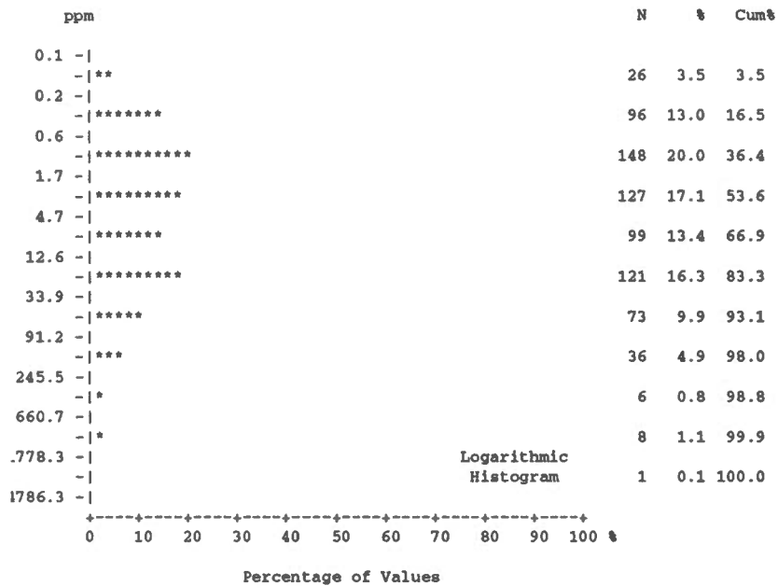
Element Statistics
Variable - Antimony [Sb]
Number of Values - 741
Units - ppm
Detection Limit - 0.1
Analytical Method - INAA

	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	589	87	66	75	62	53	41	27	25	28	17	18	12	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	2.66	0.40	0.22	2.49	3.39	3.99	4.16	1.36	2.73	8.98	0.57	7.87	2.15	2.52	0.81
Median	0.60	0.20	0.20	0.50	2.50	2.70	1.50	0.90	0.50	5.30	0.30	7.10	2.30	1.40	0.70
Mode	0.10	0.10	0.10	0.10	2.20	0.60	0.10	0.10	0.10	2.10	0.10	7.80	0.10	1.40	0.40
Range	139.9	5.5	1.5	68.9	17.6	21.8	27.9	4.2	30.9	70.3	5.0	13.6	3.9	10.7	1.9
St Dev	7.50	0.68	0.19	8.21	2.60	4.48	6.81	1.29	6.34	13.44	1.02	3.79	1.32	3.14	0.53
Coef Var	2.817	1.674	0.886	3.298	0.767	1.121	1.635	0.950	2.326	1.497	1.806	0.481	0.616	1.247	0.650
Log Mean	-0.132	-0.615	-0.764	-0.192	0.449	0.342	0.220	-0.118	-0.151	0.699	-0.505	0.844	0.139	0.144	-0.159
Geo Mean	0.74	0.24	0.17	0.64	2.81	2.20	1.66	0.76	0.71	5.00	0.31	6.98	1.38	1.39	0.69
Log StDv	0.680	0.382	0.270	0.621	0.258	0.518	0.618	0.528	0.653	0.456	0.421	0.228	0.559	0.482	0.245
Log CVar	-5.148	-0.622	-0.354	-3.249	0.575	1.515	2.808	-4.516	-4.356	0.652	-0.833	0.270	4.051	3.345	-1.548
Percntls															
Minimum	0.1	0.1	0.1	0.1	0.4	0.2	0.1	0.1	0.1	0.7	0.1	2.4	0.1	0.3	0.3
10th	0.1	0.1	0.1	0.1	1.5	0.3	0.2	0.1	0.1	1.4	0.1	2.6	0.1	0.3	0.3
20th	0.1	0.1	0.1	0.2	1.7	0.6	0.5	0.2	0.2	2.1	0.1	5.0	0.3	0.5	0.4
30th	0.3	0.1	0.1	0.3	2.1	0.9	0.8	0.3	0.3	2.4	0.2	5.1	1.2	0.6	0.4
40th	0.4	0.2	0.1	0.4	2.2	1.7	1.3	0.4	0.4	2.6	0.2	6.5	2.1	0.7	0.5
50th	0.6	0.2	0.2	0.5	2.5	2.7	1.5	0.9	0.5	5.3	0.3	7.1	2.3	1.4	0.7
60th	1.2	0.3	0.2	1.0	3.1	3.8	2.4	1.4	0.9	6.2	0.3	7.8	2.4	1.4	0.9
70th	2.0	0.3	0.2	1.3	3.8	4.6	3.0	1.7	1.1	9.2	0.5	8.2	2.8	2.3	0.9
80th	3.4	0.4	0.3	1.7	4.3	5.8	4.2	2.3	1.4	11.0	0.6	11.0	3.0	2.7	1.0
85th	4.3	0.5	0.4	2.6	4.8	6.3	5.3	2.5	2.7	16.0	0.7	12.0	3.5	3.6	1.0
90th	6.0	0.8	0.4	4.0	6.0	7.4	8.8	3.4	6.1	17.0	0.8	12.0	3.9	6.9	1.0
95th	11.0	1.2	0.5	5.7	6.5	11.0	24.0	3.8	15.0	20.0	1.0	14.0	3.9	6.9	1.0
98th	19.0	1.7	0.6	22.0	11.0	19.0	27.0	4.0	15.0	20.0	5.1	16.0	4.0	11.0	2.2
99th	27.0	4.6	1.0	34.0	11.0	19.0	28.0	4.3	31.0	71.0	5.1	16.0	4.0	11.0	2.2
Maximum	140.0	5.6	1.6	69.0	18.0	22.0	28.0	4.3	31.0	71.0	5.1	16.0	4.0	11.0	2.2

(Summary statistics not calculated for formations with fewer than ten values.)

ANTIMONY by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



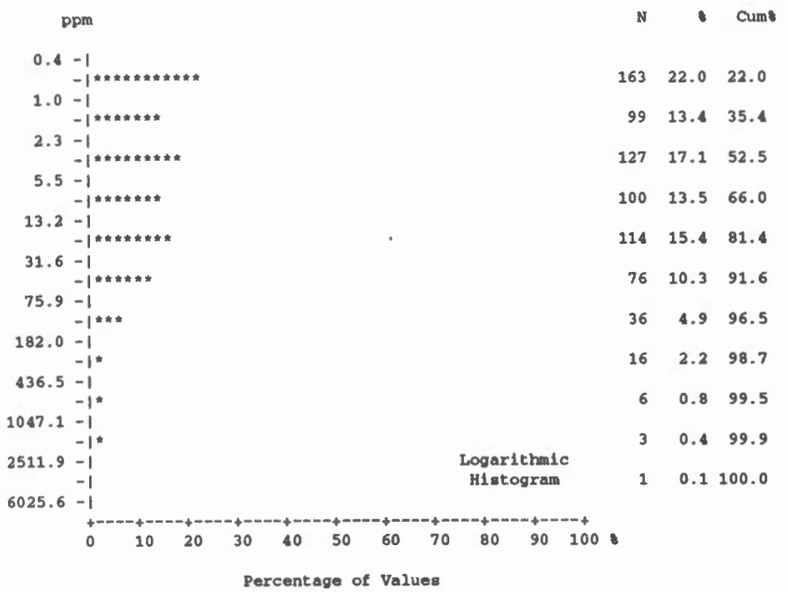
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	715	129	119	91	62	52	44	31	29	28	20	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	38.31	3.35	2.10	51.43	35.86	76.80	102.34	14.88	14.27	218.98	1.05	49.71	12.04	19.06	8.67
Median	4.00	1.10	0.80	3.60	27.00	22.00	12.00	7.40	2.10	50.00	0.70	32.00	10.50	3.80	6.00
Mode	0.20	0.30	0.50	0.50	26.00	1.00	9.00	2.70	0.60	160.00	0.40	5.40	0.70	0.30	3.20
Range	3999.8	29.8	36.8	1299.8	166.9	999.8	1249.7	44.4	159.8	3997.0	2.7	224.6	35.3	199.7	24.8
St Dev	190.92	5.49	4.18	201.55	32.62	150.76	277.91	14.48	36.30	744.59	0.82	57.89	10.23	54.48	7.57
Coef Var	4.984	1.638	1.985	3.919	0.910	1.963	2.716	0.973	2.544	3.400	0.778	1.165	0.850	2.858	0.873
Log Mean	0.672	0.144	0.012	0.636	1.400	1.254	1.134	0.891	0.482	1.720	-0.117	1.490	0.848	0.560	0.836
Geo Mean	4.70	1.39	1.03	4.33	25.11	17.93	13.61	7.77	3.03	52.53	0.76	30.88	7.04	3.63	6.85
Log StDv	0.838	0.546	0.467	0.834	0.386	0.852	0.855	0.571	0.707	0.644	0.367	0.431	0.573	0.683	0.285
Log CVar	1.249	3.792	42.431	1.311	0.276	0.680	0.755	0.641	1.470	0.375	-3.140	0.289	0.676	1.222	0.342
Percntls															
Minimum	0.2	0.2	0.2	0.2	3.1	0.2	0.3	0.6	0.2	3.0	0.2	5.4	0.7	0.3	3.2
10th	0.5	0.3	0.3	0.5	6.4	1.2	0.8	0.8	0.6	7.2	0.2	5.4	0.7	0.3	3.2
20th	0.8	0.5	0.4	0.8	11.0	2.6	2.3	2.1	0.7	14.0	0.4	14.0	0.8	1.1	3.9
30th	1.2	0.7	0.5	1.3	16.0	3.0	5.2	2.8	0.8	25.0	0.4	18.0	6.4	1.4	4.0
40th	2.1	0.9	0.7	1.8	24.0	6.2	8.0	4.9	1.5	42.0	0.6	21.0	7.6	1.5	4.8
50th	4.0	1.1	0.8	3.6	27.0	22.0	12.0	7.4	2.1	50.0	0.7	32.0	10.5	3.8	6.0
60th	7.2	1.5	1.2	4.5	33.0	34.0	22.0	16.0	3.8	79.0	1.0	33.0	12.0	4.5	6.2
70th	15.0	2.3	1.9	8.0	39.0	60.0	31.0	21.0	4.6	115.0	1.1	44.0	14.0	4.6	7.5
80th	28.0	4.0	2.4	19.0	50.0	130.0	48.0	28.0	11.0	160.0	1.9	48.0	14.0	6.7	8.0
85th	37.0	5.6	2.6	31.0	60.0	145.0	62.0	31.0	16.0	160.0	2.0	54.0	17.0	7.1	8.0
90th	60.0	10.0	3.7	40.0	74.0	200.0	100.0	38.0	19.0	180.0	2.2	110.0	29.0	13.0	18.0
95th	140.0	16.0	9.0	160.0	81.0	230.0	1000.0	43.0	130.0	300.0	2.5	150.0	29.0	13.0	18.0
98th	240.0	21.0	14.0	740.0	165.0	310.0	1000.0	44.0	130.0	300.0	2.9	230.0	36.0	200.0	28.0
99th	1000.0	24.0	18.0	1250.0	165.0	310.0	1250.0	45.0	160.0	4000.0	2.9	230.0	36.0	200.0	28.0
Maximum	4000.0	30.0	37.0	1300.0	170.0	1000.0	1250.0	45.0	160.0	4000.0	2.9	230.0	36.0	200.0	28.0

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Arsenic [As]
Number of Values - 741
Units - ppm
Detection Limit - 0.2
Analytical Method - AAS-H

ARSENIC by AAS-H (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



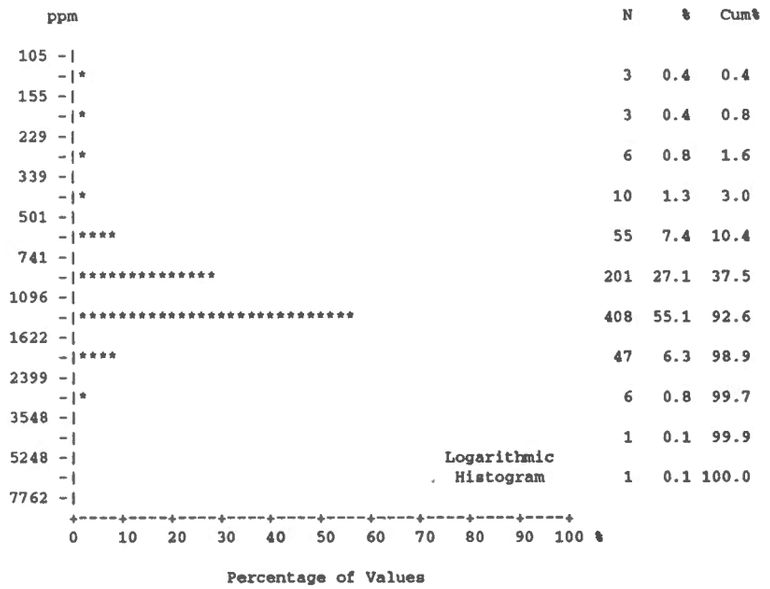
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	584	85	71	79	61	50	41	28	24	28	12	18	13	9	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	36.27	3.84	2.25	45.35	38.27	71.06	90.79	17.69	15.42	192.10	1.70	55.87	15.24	18.89	10.84
Median	4.70	1.60	1.00	4.20	28.00	24.00	12.00	8.10	2.80	60.00	1.40	32.00	14.00	3.50	8.50
Mode	0.50	0.50	0.50	0.50	10.00	0.50	0.50	0.50	0.50	160.00	0.50	28.00	9.80	0.50	4.10
Range	3199.5	29.5	18.5	1099.5	199.5	769.5	1099.5	61.5	159.5	3196.3	5.2	212.3	37.5	189.5	31.9
St Dev	157.39	5.81	3.44	166.74	36.04	123.25	238.61	18.24	38.64	593.39	1.49	59.88	11.28	51.61	8.95
Coef Var	4.340	1.512	1.534	3.677	0.942	1.734	2.628	1.031	2.506	3.089	0.880	1.072	0.740	2.732	0.826
Log Mean	0.743	0.240	0.086	0.702	1.417	1.309	1.178	0.927	0.552	1.766	0.068	1.579	0.991	0.519	0.948
Geo Mean	5.54	1.74	1.22	5.03	26.12	20.35	15.08	8.44	3.56	58.32	1.17	37.97	9.80	3.30	8.87
Log StDv	0.805	0.526	0.433	0.782	0.424	0.784	0.809	0.621	0.676	0.590	0.385	0.376	0.530	0.768	0.265
Log CVar	1.084	2.192	5.036	1.116	0.299	0.599	0.687	0.670	1.227	0.334	5.665	0.238	0.535	1.483	0.280
Percntls															
Minimum	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	3.7	0.5	7.7	0.5	0.5	4.1
10th	0.5	0.5	0.5	0.5	6.7	2.3	1.1	0.5	0.5	8.4	0.5	12.0	0.5	0.5	4.1
20th	0.5	0.5	0.5	1.3	13.0	3.6	3.0	2.5	0.5	17.0	0.5	22.0	2.4	0.5	4.9
30th	1.7	0.5	0.5	1.6	19.0	5.0	6.8	3.6	1.6	28.0	0.5	23.0	9.1	0.5	5.0
40th	2.8	1.1	0.5	2.3	25.0	9.1	8.5	4.9	2.4	44.0	0.5	28.0	9.8	1.0	6.8
50th	4.7	1.6	1.0	4.2	28.0	24.0	12.0	8.1	2.8	60.0	1.4	32.0	14.0	3.5	8.5
60th	9.1	2.3	1.5	5.7	31.0	40.0	24.0	17.0	3.5	78.0	1.8	42.0	16.0	5.1	9.4
70th	17.0	3.4	2.0	8.1	40.0	62.0	29.0	26.0	6.1	110.0	2.3	51.0	18.0	7.7	9.9
80th	29.0	4.5	2.6	20.0	50.0	110.0	49.0	34.0	12.0	160.0	2.5	58.0	19.0	9.3	12.0
85th	40.0	5.6	3.4	31.0	70.0	150.0	60.0	34.0	12.0	160.0	2.9	60.0	23.0	9.4	12.0
90th	60.0	12.0	4.5	38.0	83.0	190.0	130.0	45.0	25.0	170.0	3.9	95.0	35.0	15.0	15.0
95th	150.0	18.0	9.6	150.0	92.0	220.0	670.0	50.0	150.0	260.0	4.6	200.0	35.0	15.0	15.0
98th	240.0	24.0	15.0	740.0	170.0	310.0	1000.0	54.0	150.0	260.0	5.7	220.0	38.0	190.0	36.0
99th	740.0	27.0	18.0	910.0	170.0	310.0	1100.0	62.0	160.0	3200.0	5.7	220.0	38.0	190.0	36.0
Maximum	3200.0	30.0	19.0	1100.0	200.0	770.0	1100.0	62.0	160.0	3200.0	5.7	220.0	38.0	190.0	36.0

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Arsenic [As]
Number of Values - 741
Units - ppm
Detection Limit - 0.5
Analytical Method - INAA

ARSENIC by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



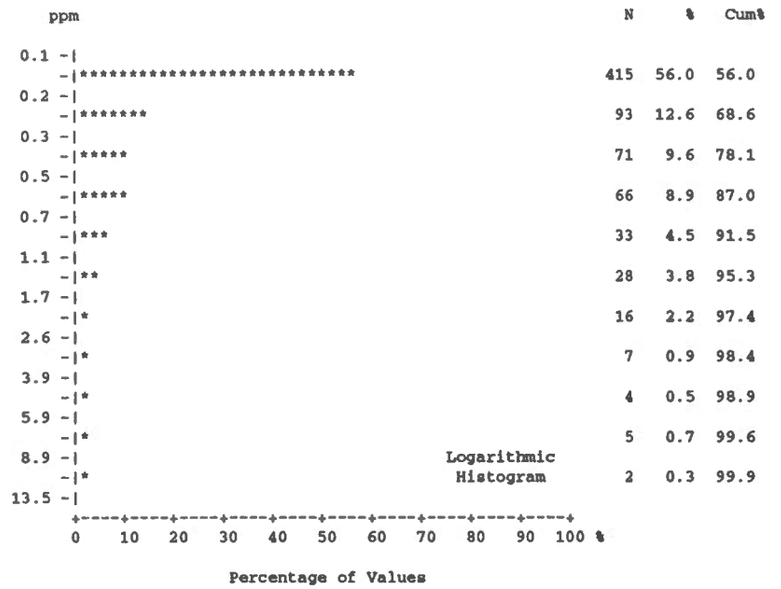
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	1157.2	1131.2	1178.7	1038.2	1035.8	1214.5	1089.5	1480.0	1253.7	1040.4	1518.3	1132.8	1352.1	1035.4	1609.1
Median	1100.0	1200.0	1200.0	1000.0	1000.0	1100.0	1000.0	1200.0	1200.0	1000.0	1400.0	1100.0	1300.0	1100.0	1500.0
Mode	1200.0	1200.0	1200.0	1200.0	1100.0	1100.0	1100.0	1200.0	1200.0	1100.0	1100.0	1000.0	1100.0	1100.0	1200.0
Range	5880	2670	1780	1300	1580	3150	1480	5470	1530	1270	1680	810	1120	1140	1600
St Dev	415.43	407.68	285.10	272.83	237.66	546.76	296.26	1027.90	302.06	249.23	384.28	232.75	317.54	293.53	467.88
Coef Var	0.359	0.360	0.242	0.263	0.229	0.450	0.272	0.695	0.241	0.240	0.253	0.205	0.235	0.283	0.291
Log Mean	3.036	3.012	3.056	3.000	2.998	3.054	3.022	3.110	3.086	2.999	3.169	3.045	3.120	3.000	3.191
Geo Mean	1087.4	1028.5	1137.9	1000.5	994.7	1131.3	1051.1	1289.0	1218.8	998.1	1474.8	1109.0	1318.1	1001.0	1551.2
Log StDv	0.163	0.219	0.124	0.122	0.148	0.156	0.119	0.212	0.106	0.146	0.106	0.094	0.102	0.116	0.122
Log CVar	0.054	0.073	0.041	0.041	0.049	0.051	0.039	0.068	0.034	0.049	0.034	0.031	0.033	0.039	0.038
Percntls															
Minimum	120	130	220	400	120	550	520	530	670	230	920	690	880	660	1000
10th	740	470	790	700	720	770	710	750	820	790	1100	850	880	660	1000
20th	880	820	940	810	880	850	890	890	1100	950	1200	900	1100	740	1200
30th	980	1000	1000	870	940	910	970	980	1100	970	1300	990	1100	850	1200
40th	1100	1100	1100	930	1000	1100	980	1100	1200	980	1300	1000	1300	940	1300
50th	1100	1200	1200	1000	1000	1100	1000	1200	1200	1000	1400	1100	1300	1100	1500
60th	1200	1200	1300	1100	1100	1200	1100	1300	1200	1100	1600	1200	1400	1100	1700
70th	1300	1300	1300	1200	1100	1200	1200	1500	1400	1100	1700	1300	1500	1100	1800
80th	1400	1400	1400	1300	1200	1300	1300	1600	1500	1100	1800	1300	1500	1100	2000
85th	1500	1400	1500	1300	1200	1600	1300	1700	1500	1200	1800	1400	1600	1200	2000
90th	1600	1500	1500	1400	1300	1700	1500	2000	1500	1400	2000	1400	1800	1200	2000
95th	1700	1700	1600	1400	1400	1800	1600	2700	1700	1500	2000	1400	1800	1200	2000
98th	2000	1800	1700	1600	1400	3100	1700	3500	1700	1500	2600	1500	2000	1800	2600
99th	2600	2100	1700	1600	1400	3100	2000	6000	2200	1500	2600	1500	2000	1800	2600
Maximum	6000	2800	2000	1700	1700	3700	2000	6000	2200	1500	2600	1500	2000	1800	2600

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Barium [Ba]
Number of Values - 741
Units - ppm
Detection Limit - 50
Analytical Method - INAA

BARIUM by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



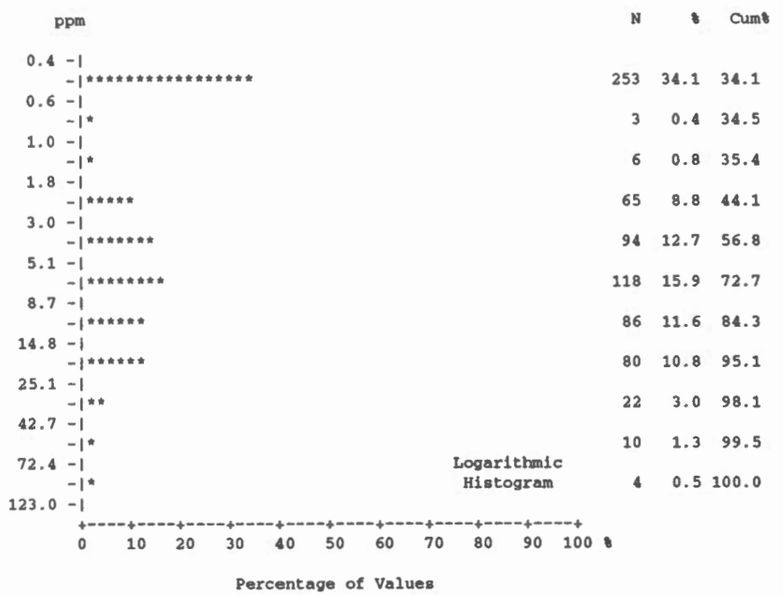
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	326	53	21	53	32	30	22	13	21	19	4	10	5	7	10
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	0.53	0.42	0.28	0.63	0.54	0.49	1.19	0.39	1.39	0.78	0.24	0.40	0.41	0.55	0.54
Median	0.20	0.20	0.20	0.30	0.30	0.30	0.20	0.20	0.40	0.40	0.20	0.30	0.20	0.30	0.40
Mode	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.40
Range	13.3	4.2	3.1	6.3	6.2	1.8	13.3	2.2	12.8	6.8	0.4	1.1	2.0	3.4	0.8
St Dev	1.10	0.55	0.36	0.93	0.92	0.45	2.88	0.46	2.71	1.32	0.12	0.30	0.53	0.92	0.24
Coef Var	2.094	1.309	1.272	1.464	1.706	0.919	2.428	1.168	1.945	1.691	0.477	0.757	1.298	1.692	0.443
Log Mean	-0.490	-0.522	-0.635	-0.407	-0.459	-0.436	-0.372	-0.528	-0.260	-0.341	-0.642	-0.483	-0.534	-0.477	-0.310
Geo Mean	0.32	0.30	0.23	0.39	0.35	0.37	0.42	0.30	0.55	0.46	0.23	0.33	0.29	0.33	0.49
Log StDv	0.327	0.288	0.192	0.368	0.328	0.311	0.484	0.273	0.511	0.386	0.142	0.259	0.296	0.346	0.196
Log CVar	-0.668	-0.553	-0.303	-0.903	-0.716	-0.713	-1.302	-0.518	-1.974	-1.137	-0.221	-0.538	-0.556	-0.726	-0.635
Percntls															
Minimum	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
20th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
30th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
40th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.4
50th	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.4	0.4	0.2	0.3	0.2	0.3	0.4
60th	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.2	0.3	0.2	0.3	0.5
70th	0.4	0.3	0.2	0.4	0.4	0.4	0.5	0.3	0.5	0.7	0.2	0.4	0.3	0.3	0.6
80th	0.5	0.4	0.2	0.8	0.5	0.7	0.7	0.4	1.2	0.8	0.2	0.5	0.4	0.4	0.8
85th	0.6	0.6	0.3	1.2	0.7	0.8	0.9	0.4	1.9	0.9	0.3	0.6	0.5	0.5	0.8
90th	0.9	0.8	0.3	1.4	0.9	1.3	1.6	0.6	4.3	1.2	0.3	0.7	0.5	0.5	0.8
95th	1.6	1.2	0.5	1.8	1.4	1.4	7.0	0.7	6.4	2.5	0.6	0.9	0.5	0.5	0.8
98th	3.0	2.3	0.8	3.0	3.8	1.8	13.0	1.6	6.4	2.5	0.6	1.3	2.2	3.6	1.0
99th	6.4	2.7	2.2	4.5	3.8	1.8	13.5	2.4	13.0	7.0	0.6	1.3	2.2	3.6	1.0
Maximum	13.5	4.4	3.3	6.5	6.4	2.0	13.5	2.4	13.0	7.0	0.6	1.3	2.2	3.6	1.0

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Bismuth [Bi]
Number of Values - 741
Units - ppm
Detection Limit - 0.2
Analytical Method - AAS-H

BISMUTH by AAS-H (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



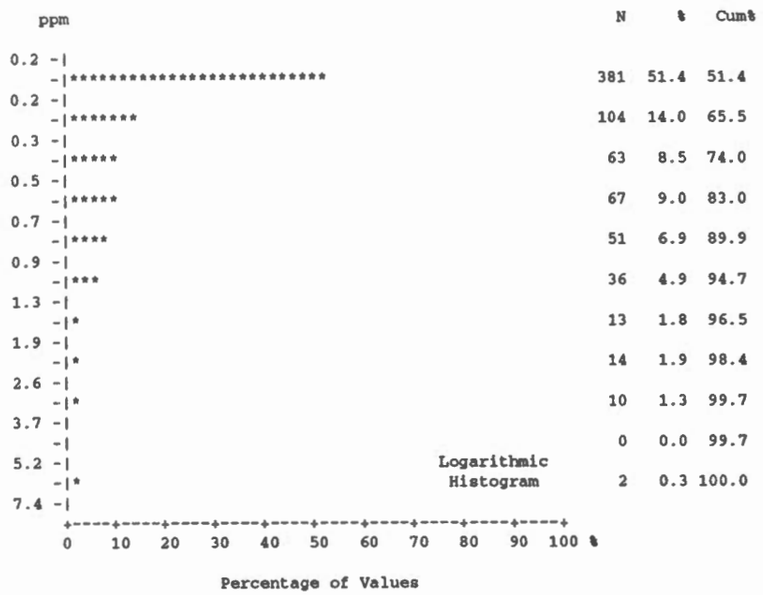
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	489	79	67	68	59	38	34	8	11	25	11	17	12	5	8
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	7.53	6.92	4.49	7.35	14.02	8.76	7.06	2.29	2.03	10.06	5.20	11.67	9.09	6.60	3.86
Median	4.00	2.80	1.40	5.40	8.70	3.20	5.20	0.50	0.50	7.80	0.50	9.20	6.70	0.50	2.40
Mode	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	16.00	0.50	0.50	0.50
Range	109.5	85.5	24.5	31.5	64.5	99.5	25.5	16.5	13.5	34.5	29.5	40.5	32.5	63.5	12.5
St Dev	11.24	12.12	5.82	7.27	12.97	14.83	6.28	3.93	2.88	8.38	8.29	9.40	8.59	17.39	3.71
Coef Var	1.493	1.751	1.295	0.990	0.925	1.692	0.889	1.718	1.422	0.833	1.594	0.805	0.945	2.634	0.959
Log Mean	0.478	0.362	0.269	0.569	0.947	0.540	0.609	-0.025	0.025	0.798	0.248	0.920	0.732	0.142	0.378
Geo Mean	3.01	2.30	1.86	3.71	8.86	3.47	4.06	0.94	1.06	6.28	1.77	8.33	5.39	1.39	2.39
Log StDv	0.636	0.655	0.600	0.593	0.466	0.636	0.547	0.503	0.462	0.519	0.645	0.427	0.539	0.667	0.490
Log CVar	1.330	1.813	2.230	1.044	0.492	1.179	0.899	-20.957	18.498	0.651	2.599	0.464	0.737	4.730	1.300
Percntls															
Minimum	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
10th	0.5	0.5	0.5	0.5	2.4	0.5	0.5	0.5	0.5	0.5	0.5	2.0	0.5	0.5	0.5
20th	0.5	0.5	0.5	0.5	3.9	0.5	0.5	0.5	0.5	2.7	0.5	6.1	2.2	0.5	0.5
30th	0.5	0.5	0.5	2.4	5.4	1.8	4.0	0.5	0.5	5.0	0.5	6.6	3.0	0.5	0.5
40th	2.5	0.5	0.5	3.7	6.6	2.5	4.6	0.5	0.5	6.8	0.5	7.6	5.2	0.5	2.3
50th	4.0	2.8	1.4	5.4	8.7	3.2	5.2	0.5	0.5	7.8	0.5	9.2	6.7	0.5	2.4
60th	5.7	3.7	3.6	6.9	12.0	7.1	6.1	0.5	0.5	9.3	3.0	10.0	7.7	0.5	3.4
70th	8.0	5.6	5.1	8.9	16.0	9.6	8.7	0.5	1.8	11.0	4.6	14.0	11.0	2.8	5.0
80th	12.0	9.8	7.4	13.0	23.0	13.0	11.0	2.3	3.4	14.0	5.8	16.0	13.0	3.4	5.9
85th	15.0	13.0	10.0	16.0	28.0	16.0	12.0	3.3	4.1	16.0	7.9	16.0	15.0	3.7	5.9
90th	19.0	17.0	13.0	18.0	33.0	20.0	16.0	7.9	5.0	23.0	21.0	18.0	16.0	7.9	6.6
95th	25.0	35.0	17.0	21.0	37.0	23.0	20.0	8.5	7.1	25.0	24.0	24.0	16.0	7.9	6.6
98th	41.0	46.0	23.0	24.0	44.0	30.0	22.0	11.0	7.1	25.0	30.0	41.0	33.0	64.0	13.0
99th	49.0	49.0	24.0	30.0	44.0	30.0	26.0	17.0	14.0	35.0	30.0	41.0	33.0	64.0	13.0
Maximum	110.0	86.0	25.0	32.0	65.0	100.0	26.0	17.0	14.0	35.0	30.0	41.0	33.0	64.0	13.0

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Bromine [Br]
Number of Values - 741
Units - ppm
Detection Limit - 0.5
Analytical Method - INAA

BROMINE by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



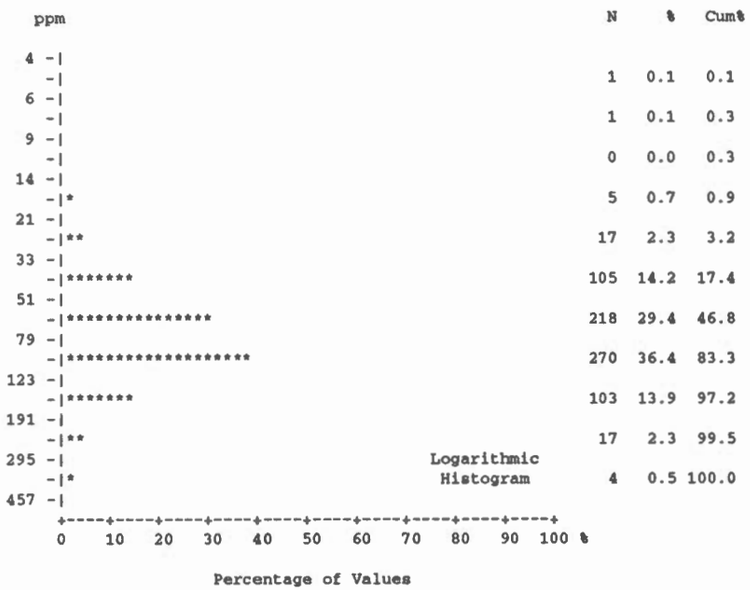
Element Statistics
Variable - Cadmium [Cd]
Number of Values - 741
Units - ppm
Detection Limit - 0.2
Analytical Method - AAS

	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	360	64	34	26	45	32	34	14	14	25	4	14	7	4	8
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	0.46	0.53	0.29	0.34	0.49	0.56	0.60	0.61	0.51	0.81	0.25	0.50	0.39	0.40	0.31
Median	0.20	0.20	0.20	0.20	0.40	0.40	0.30	0.20	0.20	0.40	0.20	0.30	0.20	0.20	0.30
Mode	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.40	0.20	0.30	0.20	0.20	0.30
Range	5.9	5.9	1.1	1.9	1.6	2.2	3.2	3.4	2.9	5.1	0.6	1.7	1.1	2.3	0.5
St Dev	0.56	0.76	0.20	0.33	0.33	0.50	0.72	0.87	0.65	1.00	0.14	0.40	0.31	0.63	0.14
Coef Var	1.219	1.435	0.686	0.975	0.679	0.904	1.201	1.424	1.276	1.235	0.556	0.809	0.806	1.581	0.445
Log Mean	-0.478	-0.464	-0.601	-0.569	-0.390	-0.382	-0.378	-0.443	-0.467	-0.251	-0.640	-0.389	-0.502	-0.574	-0.537
Geo Mean	0.33	0.34	0.25	0.27	0.41	0.42	0.42	0.36	0.34	0.56	0.23	0.41	0.31	0.27	0.29
Log StDv	0.300	0.339	0.192	0.247	0.259	0.321	0.321	0.385	0.337	0.338	0.151	0.266	0.262	0.302	0.150
Log CVar	-0.627	-0.731	-0.321	-0.434	-0.665	-0.843	-0.852	-0.869	-0.722	-1.346	-0.236	-0.683	-0.523	-0.527	-0.280
Percntls															
Minimum	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
20th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2
30th	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.4	0.2	0.3	0.2	0.2	0.2
40th	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.4	0.2	0.3	0.2	0.2	0.3
50th	0.2	0.2	0.2	0.2	0.4	0.4	0.3	0.2	0.2	0.4	0.2	0.3	0.2	0.2	0.3
60th	0.3	0.3	0.2	0.2	0.4	0.5	0.4	0.3	0.3	0.5	0.2	0.5	0.3	0.2	0.3
70th	0.4	0.4	0.2	0.2	0.6	0.6	0.5	0.4	0.4	0.8	0.2	0.5	0.3	0.2	0.3
80th	0.6	0.6	0.3	0.4	0.7	0.7	0.6	0.7	0.5	0.9	0.2	0.6	0.5	0.3	0.3
85th	0.7	0.8	0.4	0.5	0.7	0.9	0.7	0.7	0.7	1.2	0.3	0.7	0.6	0.3	0.3
90th	1.0	1.1	0.5	0.7	1.0	1.1	1.1	1.9	1.3	1.8	0.3	0.7	0.7	0.3	0.3
95th	1.4	2.2	0.8	1.0	1.1	1.6	2.7	2.0	2.0	1.8	0.5	0.9	0.7	0.3	0.3
98th	2.4	2.8	1.0	1.2	1.4	2.2	3.0	3.2	2.0	1.8	0.8	1.9	1.3	2.5	0.7
99th	3.0	3.3	1.0	1.8	1.4	2.2	3.4	3.6	3.1	5.3	0.8	1.9	1.3	2.5	0.7
Maximum	6.1	6.1	1.3	2.1	1.8	2.4	3.4	3.6	3.1	5.3	0.8	1.9	1.3	2.5	0.7

(Summary statistics not calculated for formations with fewer than ten values.)

CADMIUM by AAS (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



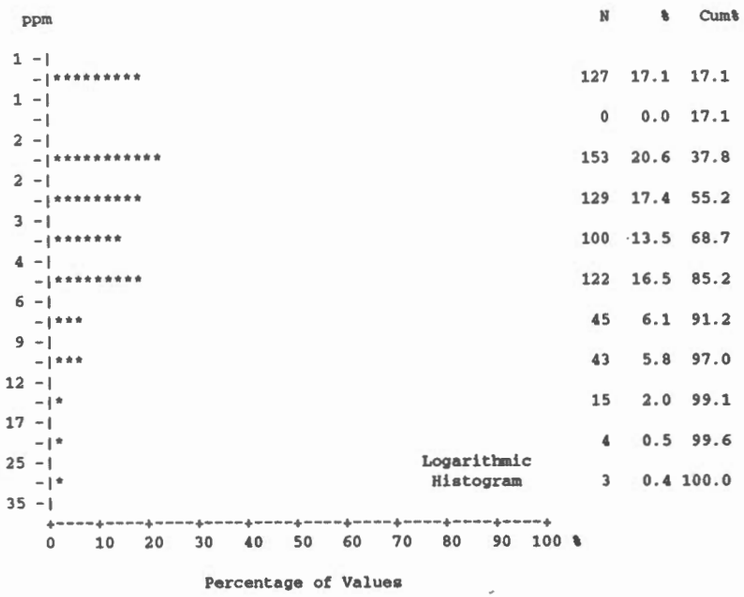
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	89.5	108.7	115.3	97.8	52.9	63.9	70.3	101.9	104.6	59.6	99.1	61.4	71.0	78.2	103.0
Median	83.0	99.0	110.0	89.0	50.0	54.0	61.0	90.0	96.0	52.0	94.0	52.0	63.0	69.0	98.0
Mode	110.0	120.0	110.0	120.0	45.0	43.0	51.0	64.0	91.0	42.0	100.0	50.0	55.0	110.0	110.0
Range	316	284	273	211	123	116	205	184	120	113	148	98	65	99	104
St Dev	43.48	41.79	49.66	35.89	18.81	29.12	34.46	45.43	31.91	28.10	30.84	26.46	22.28	31.75	27.06
Coef Var	0.486	0.384	0.431	0.367	0.355	0.456	0.490	0.446	0.305	0.471	0.311	0.431	0.314	0.406	0.263
Log Mean	1.903	2.008	2.027	1.964	1.692	1.766	1.804	1.975	2.001	1.730	1.979	1.755	1.833	1.860	2.001
Geo Mean	79.9	101.9	106.3	92.0	49.2	58.4	63.7	94.5	100.3	53.6	95.3	56.9	68.0	72.5	100.2
Log StDv	0.213	0.156	0.173	0.151	0.192	0.182	0.196	0.163	0.128	0.206	0.121	0.170	0.130	0.174	0.106
Log CVar	0.112	0.078	0.086	0.077	0.114	0.103	0.109	0.082	0.064	0.119	0.061	0.097	0.071	0.094	0.053
Percntls															
Minimum	4	36	37	39	4	24	15	56	60	17	52	32	45	41	66
10th	43	70	65	59	34	35	33	62	67	28	63	33	45	41	66
20th	54	76	75	71	37	41	51	65	79	39	82	41	54	50	85
30th	63	88	85	75	45	43	53	76	88	42	86	42	55	53	87
40th	72	90	93	81	47	49	56	82	92	44	88	50	56	53	88
50th	83	99	110	89	50	54	61	90	96	52	94	52	63	69	98
60th	92	110	120	100	55	62	69	97	98	64	100	54	68	75	110
70th	100	120	130	110	57	68	77	100	110	66	100	59	71	98	110
80th	120	140	150	120	64	85	85	110	140	77	100	83	93	110	110
85th	130	140	160	130	65	90	91	130	150	93	110	86	96	110	110
90th	140	150	170	140	77	110	97	190	150	93	130	95	110	110	120
95th	170	180	220	160	85	130	120	190	160	120	160	99	110	110	120
98th	200	220	230	180	100	140	150	200	160	120	200	130	110	140	170
99th	230	240	300	200	100	140	220	240	180	130	200	130	110	140	170
Maximum	320	320	310	250	127	140	220	240	180	130	200	130	110	140	170

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Cerium [Ce]
Number of Values - 741
Units - ppm
Detection Limit - 3
Analytical Method - INAA

CERIUM by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



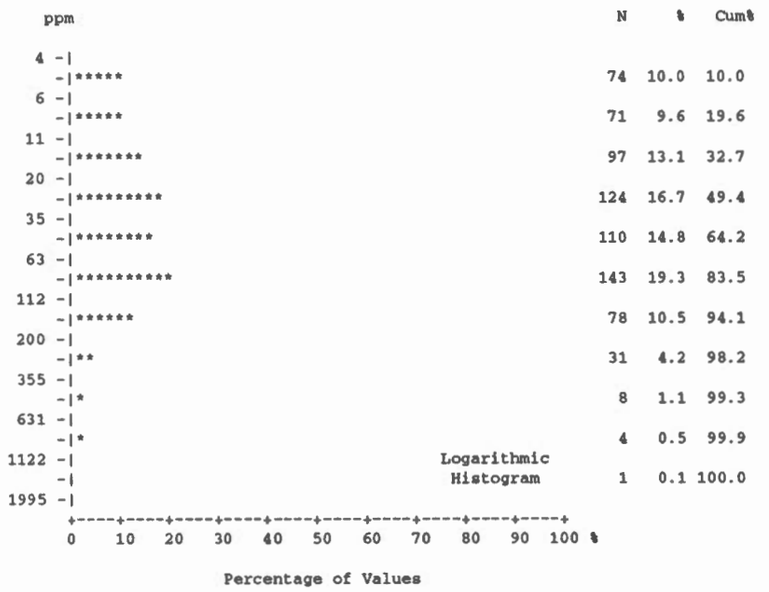
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	614	118	71	89	61	49	40	23	28	27	15	17	12	6	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	4.1	3.2	2.1	5.7	5.5	4.0	5.9	2.3	3.1	6.4	2.1	7.1	5.0	2.8	5.9
Median	3.0	3.0	2.0	5.0	5.0	3.0	3.0	2.0	2.0	5.0	2.0	6.0	5.0	1.0	5.0
Mode	2.0	2.0	1.0	4.0	3.0	2.0	2.0	2.0	2.0	5.0	1.0	5.0	4.0	1.0	3.0
Range	29	13	6	26	18	11	29	5	7	20	3	14	8	15	13
St Dev	3.42	1.92	1.40	4.22	3.49	2.57	6.09	1.30	1.55	4.15	1.04	3.46	2.48	4.13	3.67
Coef Var	0.838	0.598	0.661	0.738	0.634	0.643	1.027	0.560	0.506	0.652	0.499	0.487	0.496	1.490	0.622
Log Mean	0.493	0.440	0.247	0.666	0.670	0.519	0.609	0.307	0.437	0.729	0.266	0.792	0.621	0.239	0.717
Geo Mean	3.1	2.8	1.8	4.6	4.7	3.3	4.1	2.0	2.7	5.4	1.8	6.2	4.2	1.7	5.2
Log StDv	0.317	0.245	0.256	0.280	0.246	0.273	0.371	0.229	0.211	0.261	0.223	0.261	0.310	0.360	0.215
Log CVar	0.642	0.558	1.038	0.420	0.368	0.527	0.610	0.748	0.483	0.358	0.838	0.329	0.499	1.508	0.301
Percntls															
Minimum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
10th	1	1	1	2	2	2	1	1	2	3	1	4	1	1	3
20th	2	2	1	3	3	2	2	1	2	4	1	5	2	1	3
30th	2	2	1	4	3	2	2	2	2	4	1	5	4	1	3
40th	3	2	1	4	4	2	3	2	2	5	2	5	4	1	4
50th	3	3	2	5	5	3	3	2	2	5	2	6	5	1	5
60th	4	3	2	5	5	4	4	2	3	6	2	7	6	2	6
70th	5	4	2	6	6	5	6	2	4	6	2	8	6	2	6
80th	6	4	3	7	7	5	8	3	4	8	3	9	7	2	7
85th	6	5	3	9	8	7	10	3	4	9	3	10	7	2	7
90th	8	5	4	10	11	8	12	4	5	10	4	12	8	5	7
95th	10	6	5	13	13	8	17	5	6	16	4	12	8	5	7
98th	14	8	6	19	14	11	25	5	6	16	4	15	9	16	16
99th	17	10	6	19	14	11	30	6	8	21	4	15	9	16	16
Maximum	30	14	7	27	19	12	30	6	8	21	4	15	9	16	16

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Cesium [Cs]
Number of Values - 741
Units - ppm
Detection Limit - 1
Analytical Method - INAA

CESIUM by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



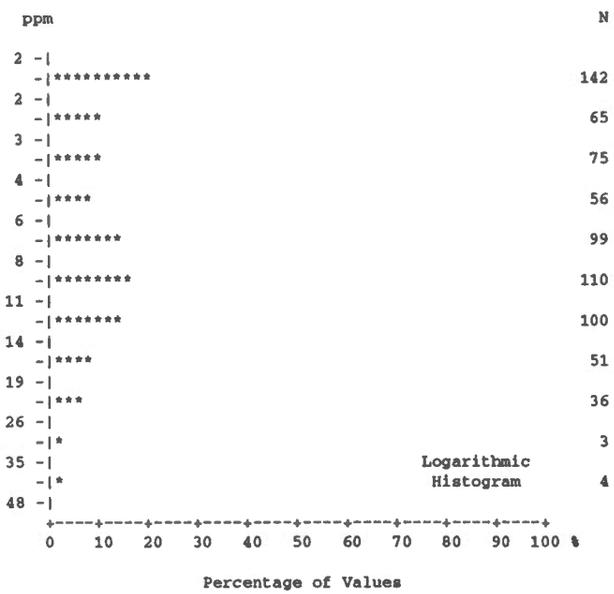
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	679	116	113	77	61	53	44	30	25	28	23	18	14	13	10
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	68.5	22.7	24.6	45.6	116.1	103.0	65.6	69.7	39.0	111.8	46.7	194.6	78.5	55.1	16.9
Median	37.0	16.0	17.0	28.0	100.0	77.0	56.0	73.0	26.0	83.0	41.0	160.0	63.0	49.0	16.0
Mode	5.0	5.0	5.0	5.0	130.0	52.0	150.0	120.0	5.0	63.0	26.0	180.0	9.0	46.0	12.0
Range	1495	315	375	285	315	424	164	125	175	568	82	608	271	134	31
St Dev	106.52	31.65	36.69	54.11	56.91	78.12	47.33	36.99	39.51	104.67	21.01	148.42	67.38	42.29	8.55
Coef Var	1.554	1.395	1.491	1.186	0.490	0.759	0.721	0.531	1.013	0.937	0.450	0.763	0.858	0.768	0.506
Log Mean	1.553	1.195	1.212	1.407	2.000	1.922	1.674	1.742	1.382	1.943	1.625	2.196	1.749	1.607	1.176
Geo Mean	35.7	15.7	16.3	25.5	100.1	83.6	47.2	55.2	24.1	87.7	42.2	157.2	56.1	40.4	15.0
Log StDv	0.502	0.341	0.366	0.482	0.280	0.275	0.396	0.356	0.458	0.293	0.206	0.286	0.403	0.389	0.231
Log CVar	0.323	0.285	0.302	0.343	0.140	0.143	0.237	0.205	0.332	0.151	0.127	0.130	0.231	0.242	0.197
Percntls															
Minimum	5	5	5	5	5	16	6	5	5	22	13	52	9	6	5
10th	6	5	5	5	62	46	10	15	5	31	23	57	9	6	5
20th	12	8	7	9	69	52	19	27	7	60	27	79	22	16	10
30th	17	11	9	12	76	60	32	35	10	63	33	110	44	25	11
40th	26	13	11	19	95	70	45	60	22	69	36	130	60	46	12
50th	37	16	17	28	100	77	56	73	26	83	41	160	63	49	16
60th	55	17	21	34	120	84	65	84	35	93	50	180	78	50	18
70th	74	21	27	47	130	100	79	96	43	120	52	200	86	52	20
80th	100	29	34	73	160	120	100	100	53	150	59	220	89	62	21
85th	120	32	39	82	170	160	130	100	61	160	76	230	98	70	21
90th	150	39	45	110	190	200	150	120	99	170	76	280	130	140	25
95th	200	66	67	130	210	220	150	120	110	180	80	440	130	140	25
98th	320	82	77	230	240	330	160	120	110	180	95	660	280	140	36
99th	450	120	120	250	240	330	170	130	180	590	95	660	280	140	36
Maximum	1500	320	380	290	320	440	170	130	180	590	95	660	280	140	36

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Chromium [Cr]
Number of Values - 741
Units - ppm
Detection Limit - 5
Analytical Method - INAA

CHROMIUM by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



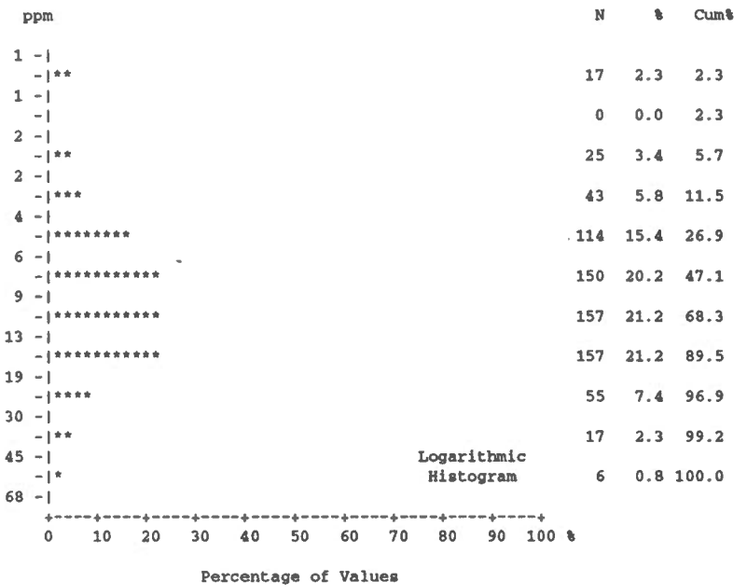
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	599	76	91	72	61	53	42	28	22	27	23	18	13	10	10
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	7.8	3.9	4.4	5.7	11.1	12.9	8.9	8.7	6.2	14.3	8.6	17.1	7.7	9.0	5.5
Median	6.0	3.0	4.0	4.0	11.0	12.0	7.0	9.0	6.0	12.0	8.0	17.0	7.0	7.0	5.0
Mode	2.0	2.0	2.0	2.0	9.0	12.0	6.0	9.0	2.0	9.0	8.0	11.0	3.0	2.0	5.0
Range	41	18	22	25	20	23	23	18	14	34	15	21	13	41	7
St Dev	6.12	2.67	3.18	4.52	4.28	5.48	5.88	4.65	4.06	7.49	3.38	5.62	4.05	10.59	1.86
Coef Var	0.783	0.685	0.723	0.795	0.385	0.425	0.658	0.532	0.651	0.524	0.395	0.330	0.525	1.177	0.342
Log Mean	0.772	0.519	0.568	0.657	1.011	1.068	0.872	0.865	0.698	1.091	0.905	1.201	0.821	0.796	0.710
Geo Mean	5.9	3.3	3.7	4.5	10.3	11.7	7.4	7.3	5.0	12.3	8.0	15.9	6.6	6.3	5.1
Log StDv	0.328	0.237	0.240	0.279	0.183	0.201	0.264	0.286	0.305	0.258	0.156	0.188	0.265	0.361	0.169
Log CVar	0.425	0.457	0.423	0.424	0.181	0.188	0.303	0.331	0.437	0.237	0.173	0.157	0.323	0.453	0.238
Percntls															
Minimum	2	2	2	2	2	3	2	2	2	2	4	4	2	2	2
10th	2	2	2	2	6	6	3	2	2	6	5	11	2	2	2
20th	3	2	2	2	8	8	4	4	2	9	6	13	3	2	4
30th	4	2	2	3	9	10	6	4	3	10	6	13	5	5	5
40th	5	2	3	4	9	11	7	8	4	11	8	15	6	6	5
50th	6	3	4	4	11	12	7	9	6	12	8	17	7	7	5
60th	8	4	4	5	12	13	8	10	7	14	8	18	8	7	5
70th	9	5	5	6	12	15	9	11	7	18	9	20	9	8	6
80th	12	5	6	7	13	16	11	12	9	18	10	20	11	8	6
85th	13	6	7	9	15	19	13	13	11	20	11	24	11	9	6
90th	16	7	8	11	17	20	20	13	12	20	12	24	14	11	8
95th	20	9	10	13	20	24	24	16	14	29	15	25	14	11	8
98th	25	10	11	18	22	26	24	17	14	29	19	25	15	43	9
99th	26	12	18	25	22	26	25	20	16	36	19	25	15	43	9
Maximum	43	20	24	27	22	26	25	20	16	36	19	25	15	43	9

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Cobalt [Co]
Number of Values - 741
Units - ppm
Detection Limit - 2
Analytical Method - AAS

COBALT by AAS (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



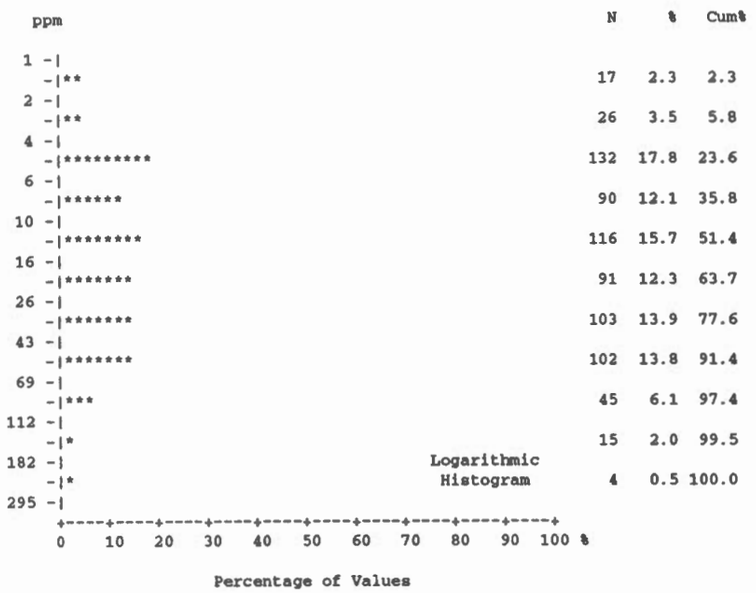
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	724	127	128	90	61	53	44	30	30	28	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	10.9	5.9	7.2	8.2	13.4	18.1	10.9	12.7	9.3	17.4	14.0	21.5	11.1	12.2	7.5
Median	9.0	5.0	6.0	7.0	12.0	16.0	10.0	12.0	9.0	14.0	12.0	20.0	9.0	11.0	7.0
Mode	5.0	5.0	4.0	5.0	11.0	14.0	10.0	12.0	3.0	15.0	12.0	18.0	6.0	12.0	5.0
Range	65	26	43	33	29	33	27	20	20	53	21	29	22	43	10
St Dev	8.02	3.89	5.08	5.61	4.90	7.52	6.73	5.24	5.79	11.08	5.05	7.49	5.97	10.85	3.05
Coef Var	0.738	0.662	0.703	0.687	0.365	0.416	0.617	0.412	0.625	0.638	0.360	0.349	0.539	0.892	0.408
Log Mean	0.927	0.678	0.787	0.813	1.092	1.225	0.966	1.046	0.867	1.172	1.122	1.307	0.989	0.959	0.843
Geo Mean	8.5	4.8	6.1	6.5	12.4	16.8	9.3	11.1	7.4	14.9	13.2	20.3	9.8	9.1	7.0
Log StDv	0.324	0.298	0.245	0.312	0.208	0.166	0.250	0.271	0.320	0.248	0.147	0.156	0.228	0.350	0.162
Log CVar	0.349	0.439	0.311	0.384	0.190	0.136	0.259	0.259	0.369	0.212	0.131	0.120	0.230	0.365	0.192
Percntls															
Minimum	1	1	1	1	1	8	3	1	2	3	7	8	4	2	4
10th	3	2	3	2	8	10	4	4	3	10	8	15	4	2	4
20th	5	3	4	4	10	12	6	7	3	11	10	17	6	4	5
30th	6	4	5	5	11	14	6	10	4	12	11	17	6	6	5
40th	7	5	5	6	12	15	8	12	7	13	12	18	9	10	6
50th	9	5	6	7	12	16	10	12	9	14	12	20	9	11	7
60th	11	6	7	8	14	18	10	15	10	15	15	20	10	12	7
70th	13	7	8	9	15	19	11	16	12	17	16	22	13	12	8
80th	16	8	10	11	16	22	15	17	13	21	17	26	15	12	8
85th	17	9	10	13	17	24	16	17	17	24	17	27	15	12	8
90th	20	11	12	15	19	31	21	20	18	24	18	34	18	18	12
95th	24	13	17	19	22	32	27	20	19	46	25	34	18	18	12
98th	34	16	18	22	25	38	28	21	19	46	28	37	26	45	14
99th	41	17	23	24	25	38	30	21	22	56	28	37	26	45	14
Maximum	66	27	44	34	30	41	30	21	22	56	28	37	26	45	14

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Cobalt [Co]
Number of Values - 741
Units - ppm
Detection Limit - 1
Analytical Method - INAA

COBALT by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



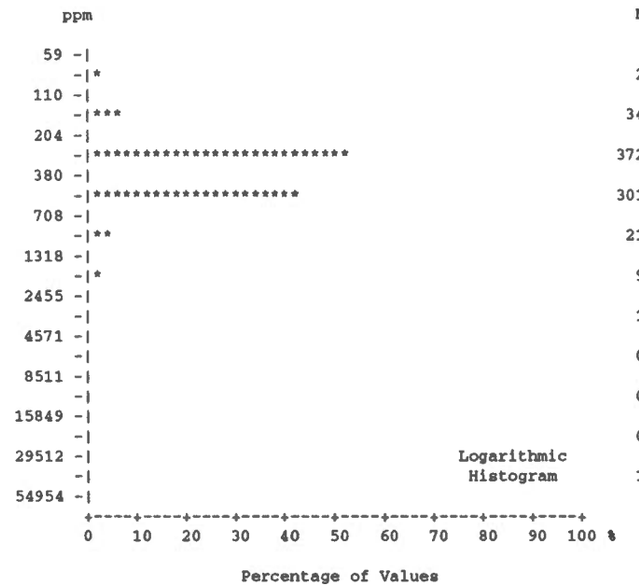
Element Statistics
Variable - Copper [Cu]
Number of Values - 741
Units - ppm
Detection Limit - 2
Analytical Method - AAS

	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	724	130	126	87	62	53	44	31	30	28	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	27.6	11.7	10.0	17.8	42.3	50.9	36.7	34.7	25.5	59.9	34.0	74.6	22.5	24.2	11.8
Median	16.0	7.0	6.0	11.0	36.0	48.0	21.0	28.0	13.0	50.0	26.0	66.0	21.0	17.0	11.0
Mode	5.0	5.0	5.0	7.0	36.0	43.0	21.0	26.0	4.0	38.0	11.0	9.0	15.0	12.0	9.0
Range	276	69	90	102	120	175	227	97	115	135	123	178	43	111	13
St Dev	30.99	13.70	11.45	20.38	25.98	28.20	44.85	24.47	28.28	33.67	30.13	39.31	14.31	28.71	3.97
Coef Var	1.124	1.168	1.148	1.148	0.614	0.554	1.222	0.704	1.109	0.562	0.887	0.527	0.636	1.185	0.336
Log Mean	1.210	0.901	0.860	1.043	1.561	1.648	1.377	1.420	1.186	1.700	1.407	1.803	1.247	1.203	1.047
Geo Mean	16.2	8.0	7.2	11.0	36.4	44.4	23.8	26.3	15.4	50.1	25.5	63.5	17.7	16.0	11.2
Log StDv	0.458	0.347	0.311	0.419	0.235	0.236	0.383	0.364	0.445	0.292	0.325	0.286	0.341	0.403	0.161
Log CVar	0.379	0.386	0.362	0.402	0.150	0.143	0.278	0.257	0.375	0.172	0.231	0.159	0.274	0.335	0.154
Percntls															
Minimum	2	2	2	2	12	8	3	3	3	5	8	9	4	3	5
10th	4	4	3	3	17	22	9	7	4	25	9	30	4	3	5
20th	6	4	4	5	23	30	12	15	6	32	12	39	8	10	9
30th	8	5	5	7	29	35	14	20	8	38	15	49	10	12	9
40th	11	6	6	8	32	43	19	26	11	44	20	64	15	12	9
50th	16	7	6	11	36	48	21	28	13	50	26	66	21	17	11
60th	23	8	7	13	40	51	23	32	16	59	28	87	22	17	12
70th	32	9	9	15	44	57	30	36	24	71	35	94	27	20	15
80th	45	13	12	25	50	60	47	49	30	75	41	97	34	21	16
85th	51	18	15	31	60	73	51	50	55	93	51	99	39	32	16
90th	65	22	18	39	66	76	71	78	62	110	62	100	45	38	16
95th	92	48	35	59	108	99	130	80	83	130	102	105	45	38	16
98th	116	62	44	94	116	103	180	82	83	130	131	187	47	114	18
99th	132	69	47	96	116	103	230	100	118	140	131	187	47	114	18
Maximum	278	71	92	104	132	183	230	100	118	140	131	187	47	114	18

(Summary statistics not calculated for formations with fewer than ten values.)

COPPER by AAS (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



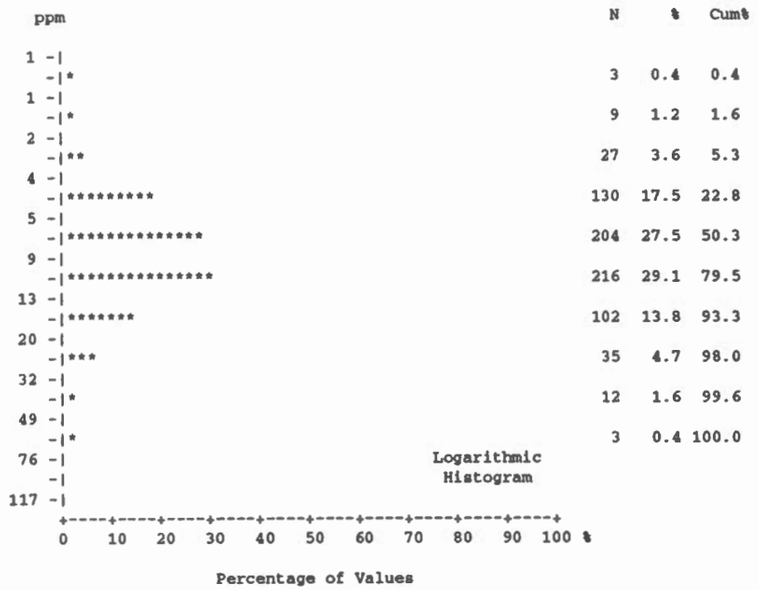
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	466.4	812.6	432.9	367.1	308.9	369.8	364.1	469.7	388.7	350.0	426.5	366.7	412.1	310.0	470.0
Median	370.0	440.0	400.0	360.0	300.0	340.0	330.0	400.0	370.0	330.0	400.0	340.0	310.0	280.0	410.0
Mode	300.0	350.0	300.0	300.0	300.0	290.0	250.0	280.0	250.0	520.0	390.0	240.0	300.0	130.0	400.0
Range	40910	40870	770	520	340	580	530	1860	570	470	590	420	1230	460	410
St Dev	1507.54	3476.33	157.23	115.09	69.71	115.18	122.77	330.15	135.26	115.63	110.68	114.22	305.87	141.66	116.62
Coef Var	3.232	4.278	0.363	0.314	0.226	0.311	0.337	0.703	0.348	0.330	0.260	0.312	0.742	0.457	0.248
Log Mean	2.579	2.671	2.610	2.542	2.479	2.550	2.539	2.604	2.564	2.520	2.619	2.547	2.557	2.451	2.660
Geo Mean	379.1	468.5	406.9	348.4	301.5	354.8	346.3	401.5	366.1	331.2	415.7	352.4	360.9	282.4	457.6
Log StDv	0.188	0.265	0.153	0.145	0.096	0.123	0.137	0.239	0.156	0.150	0.096	0.122	0.199	0.195	0.105
Log CVar	0.073	0.990	0.058	0.057	0.039	0.048	0.054	0.092	0.061	0.059	0.037	0.048	0.078	0.080	0.039
Percntls															
Minimum	90	130	200	140	180	180	170	100	140	150	260	240	210	130	300
10th	240	280	260	220	240	260	230	190	250	200	310	240	210	130	300
20th	280	330	300	260	250	290	270	280	270	250	370	270	270	190	400
30th	310	360	320	300	270	300	300	310	290	280	380	300	290	200	400
40th	330	390	350	320	280	320	310	330	330	300	390	310	300	210	400
50th	370	440	400	360	300	340	330	400	370	330	400	340	310	280	410
60th	400	470	450	380	310	360	360	480	410	360	410	370	330	310	450
70th	450	520	510	430	320	400	390	510	430	400	440	380	360	320	550
80th	500	590	560	460	370	430	430	560	490	450	470	390	430	390	550
85th	550	650	600	490	380	460	460	580	510	460	500	430	440	410	550
90th	590	720	650	510	410	480	520	650	530	520	500	460	500	550	590
95th	700	1350	700	560	420	600	640	650	700	520	500	600	500	550	590
98th	910	1680	790	590	500	700	700	1020	700	520	850	660	1440	590	710
99th	1500	3000	910	630	500	700	700	1960	710	620	850	660	1440	590	710
Maximum	41000	41000	970	660	520	760	700	1960	710	620	850	660	1440	590	710

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Fluorine [F]
Number of Values - 741
Units - ppm
Detection Limit - 40
Analytical Method - ION

FLUORINE by ION (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



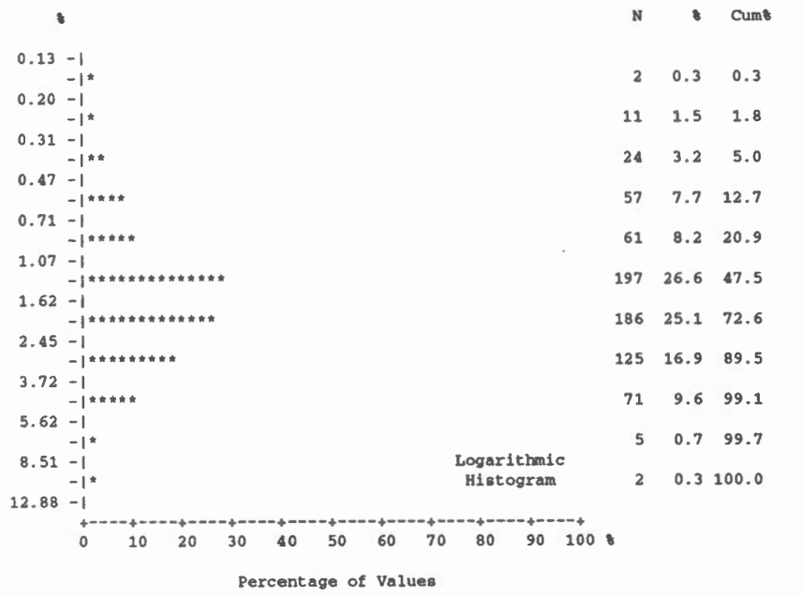
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	738	137	130	93	61	53	44	31	30	28	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	10.2	13.6	13.5	11.6	6.4	5.5	7.3	10.8	11.7	7.0	9.0	6.4	8.7	6.9	9.9
Median	8.0	11.0	11.0	10.0	6.0	5.0	6.0	9.0	11.0	5.0	8.0	5.0	7.0	6.0	10.0
Mode	8.0	8.0	9.0	10.0	5.0	4.0	6.0	7.0	11.0	4.0	5.0	5.0	7.0	4.0	8.0
Range	70	48	68	28	14	14	16	24	37	20	22	17	19	10	7
St Dev	7.27	8.33	10.06	5.57	2.98	2.76	3.34	5.94	6.47	4.73	5.00	4.29	4.81	2.84	2.47
Coef Var	0.710	0.612	0.743	0.481	0.464	0.499	0.456	0.549	0.553	0.680	0.552	0.665	0.552	0.411	0.249
Log Mean	0.931	1.071	1.058	1.019	0.761	0.698	0.821	0.977	1.026	0.770	0.898	0.750	0.896	0.810	0.983
Geo Mean	8.5	11.8	11.4	10.4	5.8	5.0	6.6	9.5	10.6	5.9	7.9	5.6	7.9	6.5	9.6
Log StDv	0.259	0.227	0.238	0.197	0.212	0.194	0.199	0.225	0.185	0.244	0.232	0.212	0.190	0.165	0.114
Log CVar	0.278	0.213	0.225	0.194	0.279	0.277	0.243	0.230	0.181	0.317	0.259	0.283	0.212	0.204	0.117
Percntls															
Minimum	1	3	3	3	1	2	2	4	4	2	3	3	4	4	6
10th	4	6	6	6	3	3	4	4	6	3	3	3	4	4	6
20th	5	8	7	7	4	4	4	7	7	4	5	4	6	4	7
30th	6	8	9	8	5	4	5	7	8	4	5	5	6	5	8
40th	7	10	10	9	5	4	6	8	10	5	7	5	7	6	8
50th	8	11	11	10	6	5	6	9	11	5	8	5	7	6	10
60th	10	13	12	11	6	5	7	12	11	7	9	5	7	7	11
70th	11	15	14	13	7	6	9	12	12	7	11	5	8	7	12
80th	14	17	17	15	8	7	10	13	14	9	12	6	9	8	12
85th	15	19	20	16	9	8	10	14	15	10	13	6	11	9	12
90th	18	23	21	19	10	9	11	19	16	10	14	12	14	10	13
95th	23	32	30	22	13	11	14	22	17	20	16	13	14	10	13
98th	31	38	42	27	15	12	14	24	17	20	25	20	23	14	13
99th	41	45	66	28	15	12	18	28	41	22	25	20	23	14	13
Maximum	71	51	71	31	15	16	18	28	41	22	25	20	23	14	13

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Hafnium [Hf]
Number of Values - 741
Units - ppm
Detection Limit - 1
Analytical Method - INAA

HAFNIUM by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



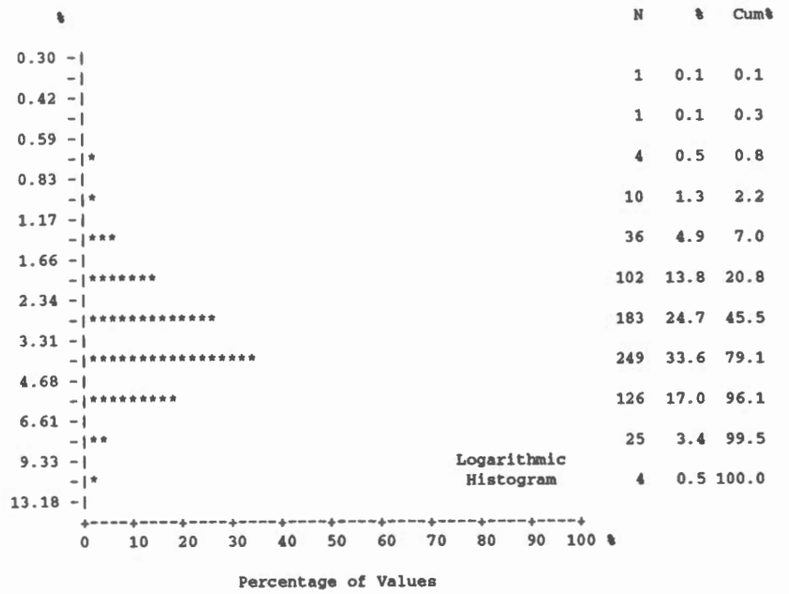
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	1.98	1.34	1.49	1.68	2.93	2.60	2.26	1.66	1.46	3.38	1.60	3.63	2.09	1.77	2.04
Median	1.70	1.30	1.40	1.50	2.90	2.40	2.20	1.50	1.40	3.20	1.60	3.50	1.70	1.60	1.90
Mode	1.40	1.20	1.60	1.10	2.40	2.30	2.20	2.60	1.40	4.20	1.10	3.50	1.10	1.60	1.30
Range	9.65	3.85	9.55	5.45	4.85	5.95	4.70	3.65	3.80	8.55	1.75	3.90	3.25	6.85	1.80
St Dev	1.22	0.69	1.10	0.91	1.02	1.21	1.26	0.95	0.77	1.57	0.51	1.01	1.00	1.73	0.58
Coef Var	0.614	0.513	0.741	0.545	0.350	0.465	0.557	0.573	0.529	0.464	0.318	0.279	0.478	0.976	0.285
Log Mean	0.213	0.066	0.085	0.165	0.427	0.367	0.267	0.141	0.097	0.481	0.182	0.542	0.261	0.121	0.293
Geo Mean	1.63	1.16	1.22	1.46	2.67	2.33	1.85	1.38	1.25	3.02	1.52	3.48	1.82	1.32	1.96
Log StDv	0.286	0.242	0.280	0.235	0.224	0.215	0.308	0.281	0.265	0.227	0.145	0.132	0.255	0.338	0.124
Log CVar	1.347	3.670	3.291	1.435	0.525	0.585	1.153	1.994	2.735	0.474	0.802	0.243	0.975	2.821	0.426
Percntls															
Minimum	0.15	0.25	0.25	0.35	0.15	0.55	0.30	0.35	0.20	0.45	0.75	1.60	0.45	0.35	1.30
10th	0.65	0.55	0.55	0.60	1.40	1.20	0.55	0.50	0.45	1.70	0.85	2.40	0.45	0.35	1.30
20th	1.00	0.70	0.70	1.10	2.00	1.50	1.10	0.60	0.85	2.30	1.10	2.80	1.10	0.55	1.40
30th	1.30	0.85	0.80	1.20	2.40	1.90	1.40	1.00	1.10	2.40	1.20	3.20	1.10	1.00	1.50
40th	1.50	1.10	1.10	1.30	2.60	2.30	2.00	1.30	1.30	2.80	1.30	3.50	1.60	1.20	1.60
50th	1.70	1.30	1.40	1.50	2.90	2.40	2.20	1.50	1.40	3.20	1.60	3.50	1.70	1.60	1.90
60th	2.00	1.40	1.50	1.80	3.20	2.70	2.40	1.80	1.40	3.60	1.70	3.60	2.40	1.60	2.30
70th	2.40	1.60	1.70	1.90	3.40	3.00	2.60	1.90	1.60	3.90	1.90	3.80	2.50	1.70	2.40
80th	2.90	1.90	2.10	2.00	3.90	3.40	3.30	2.60	1.70	4.20	2.00	4.20	3.00	1.80	2.50
85th	3.20	2.00	2.30	2.20	4.00	3.90	3.70	2.60	2.10	4.20	2.20	4.30	3.30	2.00	2.50
90th	3.80	2.00	2.40	2.80	4.20	4.20	4.10	2.90	2.20	4.20	2.30	5.20	3.30	2.10	2.60
95th	4.20	2.50	2.90	3.30	4.40	4.20	4.30	3.30	2.80	5.70	2.50	5.20	3.30	2.10	2.60
98th	5.00	3.00	3.60	4.10	5.00	5.80	4.90	3.50	2.80	5.70	2.50	5.50	3.70	7.20	3.10
99th	5.50	3.80	5.40	4.20	5.00	5.80	5.00	4.00	4.00	9.00	2.50	5.50	3.70	7.20	3.10
Maximum	9.80	4.10	9.80	5.80	5.00	6.50	5.00	4.00	4.00	9.00	2.50	5.50	3.70	7.20	3.10

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Iron (Fe)
Number of Values - 741
Units - %
Detection Limit - 0.02
Analytical Method - AAS

IRON by AAS (%)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



%	N	%	Cum%
-|	1	0.1	0.1
-|	1	0.1	0.3
-|*	4	0.5	0.8
-|*	10	1.3	2.2
-|***	36	4.9	7.0
-|*******	102	13.8	20.8
-|**************	183	24.7	45.5
-|******************	249	33.6	79.1
-|*********	126	17.0	96.1
-|**	25	3.4	99.5
-|*	4	0.5	100.0

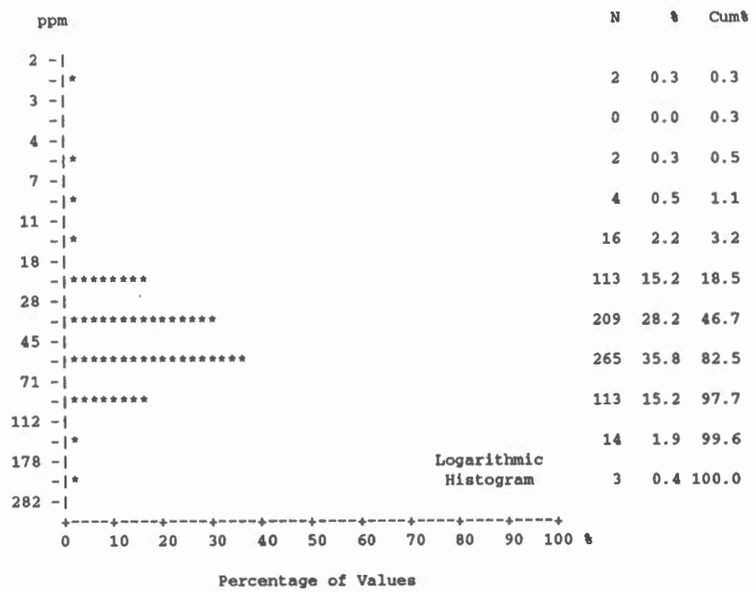
Element Statistics
Variable - Iron [Fe]
Number of Values - 741
Units - %
Detection Limit - 0.02
Analytical Method - INAA

	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	3.63	2.79	3.19	3.12	3.83	4.93	3.49	3.84	3.54	4.79	4.73	5.64	3.50	3.71	3.17
Median	3.49	2.54	2.91	3.10	3.81	4.66	3.34	3.81	3.52	4.38	4.45	5.50	3.02	3.83	3.07
Mode	2.80	1.48	2.57	1.41	2.90	3.56	2.90	1.30	4.16	2.25	4.31	4.63	1.66	1.12	2.06
Range	11.41	6.23	11.23	6.67	7.43	8.02	6.21	4.69	4.99	8.55	5.26	4.59	4.92	6.78	2.45
St Dev	1.53	1.24	1.39	1.19	1.11	1.52	1.41	1.24	1.26	1.88	1.24	1.29	1.29	1.84	0.84
Coef Var	0.422	0.447	0.434	0.381	0.290	0.309	0.405	0.324	0.356	0.392	0.262	0.228	0.369	0.496	0.264
Log Mean	0.519	0.401	0.469	0.461	0.559	0.673	0.504	0.557	0.521	0.655	0.661	0.741	0.518	0.517	0.487
Geo Mean	3.30	2.51	2.94	2.89	3.62	4.71	3.19	3.61	3.32	4.52	4.58	5.51	3.29	3.29	3.07
Log StDv	0.196	0.204	0.178	0.176	0.171	0.133	0.195	0.165	0.163	0.146	0.114	0.097	0.156	0.231	0.116
Log CVar	0.379	0.511	0.380	0.383	0.307	0.197	0.388	0.297	0.313	0.223	0.173	0.131	0.302	0.447	0.238
Percntls															
Minimum	0.39	0.62	0.57	0.97	0.39	1.97	0.84	1.30	1.56	2.25	2.32	3.69	1.66	1.12	2.06
10th	1.90	1.41	1.81	1.53	2.75	3.11	1.70	1.78	1.90	3.28	3.26	4.18	1.66	1.12	2.06
20th	2.32	1.72	2.24	2.09	2.93	3.91	2.37	2.68	2.25	3.67	3.70	4.63	2.50	1.99	2.20
30th	2.67	2.09	2.44	2.42	3.21	4.10	2.80	3.05	2.52	4.01	4.13	4.63	2.59	2.51	2.43
40th	3.09	2.28	2.64	2.63	3.55	4.44	3.08	3.27	3.10	4.19	4.31	4.99	2.89	2.80	2.62
50th	3.49	2.54	2.91	3.10	3.81	4.66	3.34	3.81	3.52	4.38	4.45	5.50	3.02	3.83	3.07
60th	3.86	2.80	3.18	3.37	4.11	4.88	3.48	4.39	3.79	4.62	4.52	5.70	3.36	4.15	3.09
70th	4.25	3.32	3.58	3.66	4.27	5.33	3.74	4.75	4.16	5.04	5.11	6.08	4.16	4.26	3.81
80th	4.74	3.68	4.05	3.94	4.60	5.90	4.28	5.01	4.79	5.14	5.52	6.42	4.38	4.41	3.92
85th	5.11	4.08	4.32	4.29	4.71	6.04	4.76	5.03	4.95	5.43	5.71	6.55	4.59	4.91	3.92
90th	5.51	4.50	4.78	4.68	4.83	7.13	5.28	5.19	4.98	5.51	6.34	6.88	4.80	5.75	4.22
95th	6.34	5.34	5.60	5.11	5.58	7.67	6.25	5.41	5.51	10.30	7.38	8.21	4.80	5.75	4.22
98th	7.31	5.83	5.93	5.20	6.18	8.78	6.76	5.79	5.51	10.30	7.58	8.28	6.58	7.90	4.51
99th	8.21	6.40	7.21	5.44	6.18	8.78	7.05	5.99	6.55	10.80	7.58	8.28	6.58	7.90	4.51
Maximum	11.80	6.85	11.80	7.64	7.82	9.99	7.05	5.99	6.55	10.80	7.58	8.28	6.58	7.90	4.51

(Summary statistics not calculated for formations with fewer than ten values.)

IRON by INAA (%)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



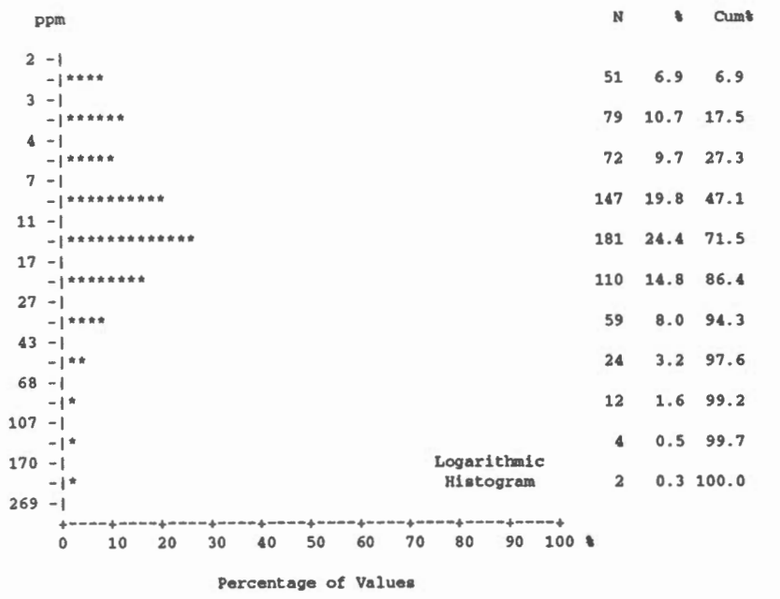
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	50.7	60.7	65.7	58.4	28.7	36.5	39.3	55.2	60.2	33.6	59.3	32.4	40.9	42.1	57.5
Median	46.0	56.0	60.0	55.0	27.0	31.0	36.0	45.0	53.0	28.0	59.0	27.0	37.0	32.0	51.0
Mode	34.0	44.0	60.0	57.0	21.0	22.0	38.0	43.0	46.0	36.0	59.0	27.0	30.0	20.0	51.0
Range	208	167	191	135	63	76	102	122	69	60	70	53	45	54	71
St Dev	25.99	24.63	30.51	22.58	9.79	18.02	18.39	28.21	19.48	16.81	17.08	14.51	13.20	18.83	18.58
Coef Var	0.513	0.406	0.464	0.387	0.341	0.494	0.468	0.511	0.324	0.500	0.288	0.448	0.323	0.448	0.323
Log Mean	1.650	1.750	1.778	1.738	1.428	1.515	1.551	1.702	1.758	1.474	1.756	1.474	1.592	1.584	1.744
Geo Mean	44.6	56.2	60.0	54.7	26.8	32.7	35.6	50.4	57.3	29.8	57.0	29.8	39.1	38.4	55.5
Log StDv	0.228	0.175	0.184	0.157	0.191	0.201	0.199	0.175	0.139	0.222	0.125	0.179	0.132	0.193	0.113
Log CVar	0.138	0.100	0.103	0.090	0.134	0.133	0.128	0.103	0.079	0.150	0.071	0.121	0.083	0.122	0.065
Percntls															
Minimum	2	13	19	25	2	11	8	28	31	8	30	16	24	20	39
10th	23	35	35	34	20	19	19	34	37	16	36	18	24	20	39
20th	29	43	41	42	21	22	26	36	45	21	45	20	30	26	46
30th	34	46	49	46	24	25	28	39	48	22	51	22	30	27	49
40th	40	53	54	50	26	28	32	43	51	25	56	27	37	29	51
50th	46	56	60	55	27	31	36	45	53	28	59	27	37	32	51
60th	53	61	64	58	29	34	38	47	57	34	59	29	38	42	56
70th	59	69	74	65	31	38	42	55	65	36	63	33	43	55	58
80th	68	77	86	72	34	49	50	60	81	42	65	42	45	56	60
85th	74	82	92	79	37	53	53	71	85	50	70	44	56	59	60
90th	84	89	100	90	39	66	55	100	91	62	82	52	62	72	61
95th	95	95	120	93	46	69	69	110	93	68	97	55	62	72	61
98th	120	130	150	120	56	85	83	120	93	68	100	69	69	74	110
99th	140	140	180	120	56	85	110	150	100	68	100	69	69	74	110
Maximum	210	180	210	160	65	87	110	150	100	68	100	69	69	74	110

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Lanthanum (La)
Number of Values - 741
Units - ppm
Detection Limit - 1
Analytical Method - INAA

LANTHANUM by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



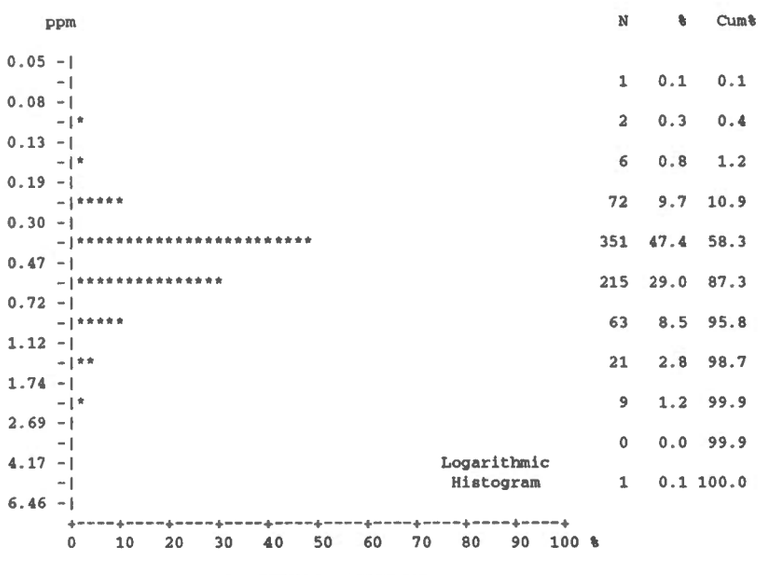
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	690	134	97	93	62	53	41	26	29	28	22	18	13	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	15.9	22.9	8.6	14.2	16.5	17.2	16.7	12.4	19.8	19.9	8.3	19.3	12.9	14.2	20.9
Median	11.0	14.0	5.0	10.0	12.0	15.0	12.0	9.0	12.0	15.0	6.0	15.0	9.0	10.0	22.0
Mode	2.0	6.0	2.0	10.0	10.0	10.0	11.0	2.0	6.0	15.0	3.0	4.0	15.0	7.0	12.0
Range	184	184	83	124	83	42	74	73	163	71	25	56	57	62	22
St Dev	18.69	28.90	10.22	15.05	13.76	11.23	15.23	15.01	30.22	14.83	6.23	14.45	14.02	15.90	7.85
Coef Var	1.177	1.263	1.191	1.060	0.835	0.653	0.912	1.215	1.526	0.745	0.747	0.750	1.084	1.117	0.376
Log Mean	1.027	1.159	0.742	1.041	1.124	1.134	1.069	0.891	1.089	1.200	0.815	1.184	0.970	1.021	1.291
Geo Mean	10.6	14.4	5.5	11.0	13.3	13.6	11.7	7.8	12.3	15.8	6.5	15.3	9.3	10.5	19.5
Log StDv	0.382	0.397	0.390	0.286	0.264	0.316	0.386	0.412	0.384	0.306	0.311	0.309	0.344	0.314	0.171
Log CVar	0.373	0.343	0.526	0.275	0.235	0.279	0.361	0.462	0.353	0.255	0.382	0.261	0.355	0.307	0.133
Percntls															
Minimum	2	2	2	3	5	3	2	2	2	3	2	4	2	3	11
10th	3	5	2	5	6	4	3	2	5	5	3	4	2	3	11
20th	5	7	2	6	8	7	5	3	6	9	3	10	5	7	12
30th	7	9	3	8	9	9	9	4	6	11	4	13	6	7	12
40th	9	12	3	9	10	10	11	7	10	15	4	14	8	8	17
50th	11	14	5	10	12	15	12	9	12	15	6	15	9	10	22
60th	14	16	7	12	14	19	14	10	14	19	9	16	10	11	23
70th	16	19	10	14	15	21	17	11	17	20	9	18	12	11	23
80th	20	30	14	18	25	26	23	14	20	21	11	19	15	12	28
85th	25	36	16	21	27	27	26	15	24	29	16	26	15	15	28
90th	32	51	19	26	30	34	38	25	28	38	16	35	18	21	32
95th	45	75	25	31	40	40	40	27	64	45	18	46	18	21	32
98th	74	107	33	39	51	43	62	48	64	45	27	60	59	65	33
99th	97	175	38	65	51	43	76	75	165	74	27	60	59	65	33
Maximum	186	186	85	127	88	45	76	75	165	74	27	60	59	65	33

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Lead [Pb]
Number of Values - 741
Units - ppm
Detection Limit - 2
Analytical Method - AAS

LEAD by AAS (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



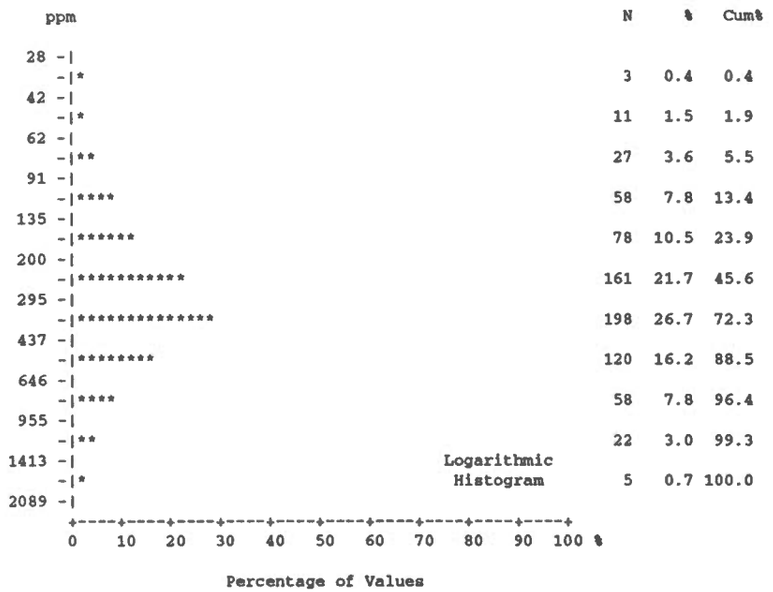
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	0.52	0.72	0.50	0.56	0.38	0.46	0.42	0.51	0.60	0.45	0.44	0.42	0.48	0.52	0.43
Median	0.44	0.50	0.42	0.47	0.38	0.44	0.39	0.48	0.55	0.38	0.44	0.38	0.43	0.49	0.41
Mode	0.41	0.36	0.36	0.41	0.37	0.44	0.34	0.37	0.53	0.34	0.44	0.31	0.38	0.49	0.34
Range	4.24	4.15	2.00	1.16	0.78	0.46	0.63	0.66	0.63	0.92	0.41	0.45	0.41	0.46	0.37
St Dev	0.32	0.58	0.27	0.22	0.10	0.11	0.15	0.17	0.16	0.18	0.10	0.11	0.12	0.14	0.11
Coef Var	0.616	0.812	0.541	0.390	0.270	0.233	0.357	0.324	0.263	0.410	0.224	0.272	0.251	0.275	0.268
Log Mean	-0.332	-0.240	-0.344	-0.282	-0.438	-0.350	-0.409	-0.310	-0.238	-0.375	-0.368	-0.389	-0.329	-0.300	-0.386
Geo Mean	0.47	0.57	0.45	0.52	0.36	0.45	0.39	0.49	0.58	0.42	0.43	0.41	0.47	0.50	0.41
Log StDv	0.189	0.272	0.181	0.150	0.139	0.101	0.173	0.138	0.109	0.145	0.103	0.110	0.110	0.114	0.138
Log CVar	-0.572	-1.133	-0.527	-0.532	-0.319	-0.290	-0.423	-0.445	-0.459	-0.387	-0.281	-0.283	-0.335	-0.382	-0.359
Percntls															
Minimum	0.06	0.15	0.20	0.29	0.06	0.24	0.10	0.23	0.36	0.25	0.22	0.28	0.28	0.36	0.19
10th	0.30	0.31	0.29	0.36	0.28	0.32	0.22	0.33	0.38	0.30	0.31	0.31	0.28	0.36	0.19
20th	0.34	0.35	0.33	0.40	0.31	0.38	0.31	0.37	0.48	0.33	0.35	0.32	0.38	0.38	0.34
30th	0.37	0.39	0.36	0.42	0.35	0.40	0.34	0.43	0.51	0.34	0.39	0.34	0.40	0.40	0.34
40th	0.41	0.44	0.38	0.44	0.37	0.43	0.36	0.46	0.53	0.35	0.43	0.36	0.43	0.41	0.37
50th	0.44	0.50	0.42	0.47	0.38	0.44	0.39	0.48	0.55	0.38	0.44	0.38	0.43	0.49	0.41
60th	0.47	0.57	0.44	0.53	0.39	0.46	0.41	0.51	0.61	0.45	0.45	0.44	0.48	0.49	0.51
70th	0.53	0.73	0.51	0.61	0.40	0.49	0.47	0.54	0.64	0.48	0.46	0.46	0.54	0.56	0.52
80th	0.62	0.92	0.63	0.68	0.43	0.52	0.55	0.59	0.70	0.51	0.48	0.49	0.55	0.62	0.53
85th	0.68	1.23	0.72	0.77	0.46	0.58	0.57	0.61	0.73	0.57	0.55	0.49	0.63	0.63	0.53
90th	0.80	1.58	0.79	0.86	0.47	0.61	0.68	0.77	0.75	0.63	0.59	0.56	0.68	0.71	0.54
95th	1.01	1.78	0.98	1.01	0.50	0.65	0.71	0.88	0.97	0.68	0.62	0.57	0.68	0.71	0.54
98th	1.58	2.23	1.11	1.05	0.64	0.70	0.72	0.88	0.97	0.68	0.63	0.73	0.69	0.82	0.56
99th	1.94	2.46	1.49	1.10	0.64	0.70	0.73	0.89	0.99	1.17	0.63	0.73	0.69	0.82	0.56
Maximum	4.30	4.30	2.20	1.45	0.84	0.70	0.73	0.89	0.99	1.17	0.63	0.73	0.69	0.82	0.56

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Lutetium [Lu]
Number of Values - 741
Units - ppm
Detection Limit - 0.05
Analytical Method - INAA

LUTETIUM by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



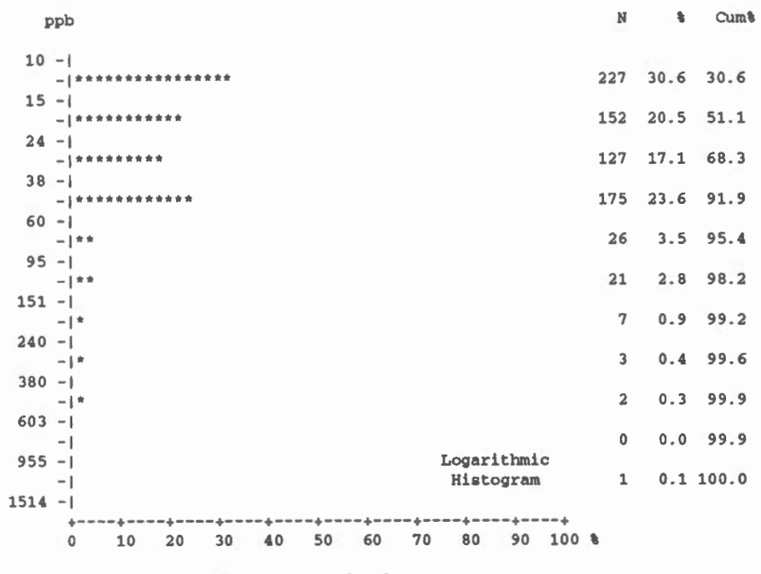
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	368.5	311.6	275.5	327.7	480.3	446.4	439.2	242.1	313.0	443.5	291.0	670.3	378.1	329.2	432.9
Median	312.0	266.0	235.0	315.0	397.0	390.0	350.0	223.0	288.0	399.0	270.0	618.0	271.0	218.0	349.0
Mode	105.0	98.0	94.0	132.0	298.0	314.0	210.0	196.0	146.0	46.0	87.0*	310.0	60.0	218.0	243.0
Range	1717	1421	1417	856	1688	1181	1314	544	1064	1394	515	1000	1120	1567	501
St Dev	251.55	212.90	209.44	170.95	287.57	261.83	285.87	144.84	215.17	250.27	121.66	254.43	281.06	404.53	188.82
Coef Var	0.683	0.683	0.760	0.522	0.599	0.587	0.651	0.598	0.687	0.564	0.418	0.380	0.743	1.229	0.436
Log Mean	2.473	2.403	2.337	2.458	2.617	2.582	2.556	2.291	2.404	2.582	2.425	2.798	2.480	2.379	2.598
Geo Mean	297.2	252.8	217.1	286.8	413.7	381.8	360.1	195.5	253.7	382.3	266.0	628.3	302.0	239.2	396.0
Log StDv	0.295	0.288	0.304	0.234	0.243	0.248	0.283	0.311	0.303	0.263	0.197	0.160	0.310	0.307	0.194
Log CVar	0.119	0.120	0.130	0.095	0.093	0.096	0.111	0.136	0.126	0.102	0.081	0.057	0.125	0.129	0.075
Percntls															
Minimum	33	39	33	64	62	89	86	43	36	46	87	310	60	83	202
10th	117	108	83	132	220	168	136	63	89	205	105	397	60	83	202
20th	173	136	117	184	275	227	212	77	147	283	192	483	196	165	243
30th	223	175	140	233	340	288	225	108	202	327	233	488	200	193	243
40th	264	224	185	264	366	325	299	196	228	366	237	503	261	194	346
50th	312	266	235	315	397	390	350	223	288	399	270	618	271	218	349
60th	362	297	276	334	440	445	430	261	312	441	306	700	300	219	434
70th	421	364	321	374	492	485	508	303	315	483	312	777	411	250	522
80th	509	441	384	418	628	620	599	343	363	551	340	810	498	270	674
85th	573	517	412	465	685	685	686	400	441	577	405	820	565	342	674
90th	685	574	483	530	805	780	870	412	507	600	462	940	630	365	698
95th	870	676	714	640	980	940	980	464	741	764	496	1060	630	365	698
98th	1090	768	840	830	1340	1260	1020	515	741	764	602	1310	1180	1650	703
99th	1340	1000	1040	870	1340	1260	1400	587	1100	1440	602	1310	1180	1650	703
Maximum	1750	1460	1450	920	1750	1270	1400	587	1100	1440	602	1310	1180	1650	703

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Manganese [Mn]
Number of Values - 741
Units - ppm
Detection Limit - 5
Analytical Method - AAS

MANGANESE by AAS (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



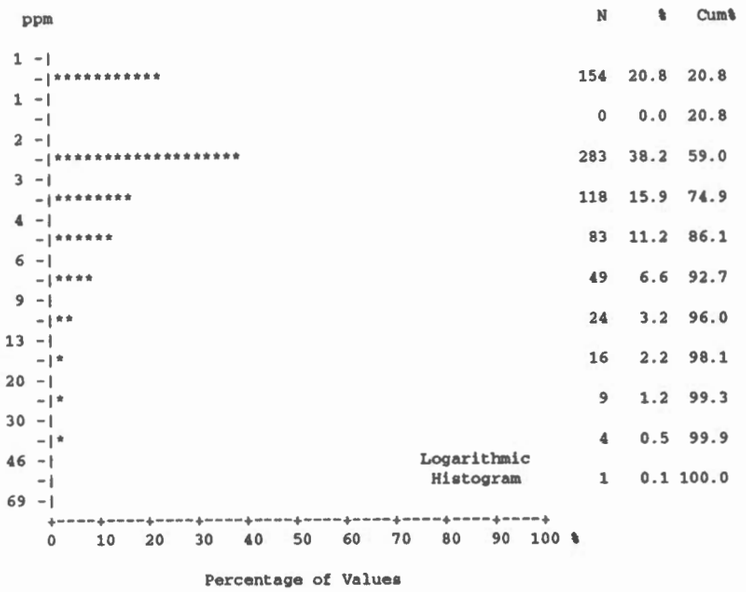
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	514	78	70	67	55	42	37	15	17	26	14	18	11	7	6
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	34.5	22.3	22.8	26.3	41.6	29.4	52.7	32.9	28.3	51.1	27.4	51.1	84.3	23.8	20.0
Median	20.0	20.0	20.0	20.0	40.0	30.0	30.0	10.0	20.0	30.0	20.0	40.0	50.0	20.0	20.0
Mode	10.0	10.0	10.0	10.0	50.0	20.0	30.0	10.0	10.0	30.0	10.0	30.0	10.0	10.0	10.0
Range	950	140	230	90	210	70	950	160	160	200	150	130	320	60	30
St Dev	53.73	17.37	23.53	15.59	32.25	16.22	141.11	38.83	33.43	43.23	31.22	30.46	83.27	18.05	11.83
Coef Var	1.558	0.778	1.030	0.592	0.775	0.551	2.676	1.180	1.180	0.847	1.140	0.596	0.988	0.757	0.592
Log Mean	1.382	1.262	1.255	1.348	1.529	1.399	1.468	1.313	1.295	1.595	1.304	1.662	1.731	1.277	1.235
Geo Mean	24.1	18.3	18.0	22.3	33.8	25.1	29.4	20.6	19.7	39.4	20.1	45.9	53.9	18.9	17.2
Log StDv	0.327	0.263	0.275	0.257	0.279	0.257	0.340	0.394	0.335	0.311	0.311	0.189	0.463	0.299	0.248
Log CVar	0.237	0.208	0.219	0.190	0.183	0.184	0.232	0.300	0.259	0.195	0.238	0.114	0.267	0.234	0.201
Percntls															
Minimum	10	10	10	10	10	10	10	10	10	10	10	30	10	10	10
10th	10	10	10	10	10	10	10	10	10	20	10	30	10	10	10
20th	10	10	10	10	20	10	20	10	10	20	10	30	10	10	10
30th	10	10	10	20	30	20	20	10	10	30	10	30	40	10	10
40th	20	10	10	20	30	20	30	10	10	30	10	40	50	10	10
50th	20	20	20	20	40	30	30	10	20	30	20	40	50	20	20
60th	30	20	20	30	40	30	30	20	20	40	20	50	70	20	20
70th	40	30	30	30	50	40	40	30	20	50	30	50	100	30	20
80th	40	30	30	40	50	40	40	50	40	60	30	60	110	30	30
85th	50	40	40	40	50	50	40	60	40	80	40	60	130	40	30
90th	50	40	40	50	50	50	50	90	40	100	40	70	150	40	40
95th	90	40	50	50	100	50	80	100	100	130	50	70	150	40	40
98th	130	60	50	50	120	70	100	120	100	130	160	160	330	70	40
99th	210	80	70	70	120	70	960	170	170	210	160	160	330	70	40
Maximum	960	150	240	100	220	80	960	170	170	210	160	160	330	70	40

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Mercury [Hg]
Number of Values - 741
Units - ppb
Detection Limit - 10
Analytical Method - AAS-F

MERCURY by AAS-F (ppb)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



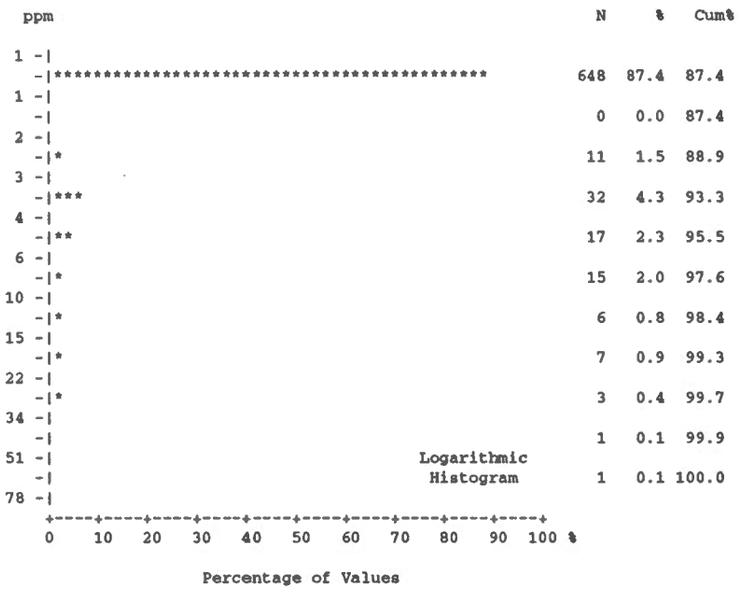
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	587	105	94	73	56	44	36	23	22	25	18	16	13	7	8
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	3.6	4.2	3.1	3.8	2.9	3.1	5.2	3.4	5.8	5.1	3.0	4.6	2.4	1.9	2.5
Median	2.0	2.0	2.0	2.0	2.0	2.0	3.0	2.0	2.0	3.0	2.0	3.0	2.0	2.0	2.0
Mode	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	2.0	2.0	3.0	2.0	1.0	2.0
Range	62	31	62	19	14	13	41	27	44	28	15	17	3	6	5
St Dev	5.00	5.37	5.65	3.93	2.13	2.67	7.25	4.81	10.34	5.89	3.11	5.11	0.74	1.61	1.63
Coef Var	1.373	1.265	1.837	1.021	0.742	0.874	1.393	1.435	1.793	1.153	1.022	1.122	0.316	0.835	0.642
Log Mean	0.403	0.435	0.338	0.433	0.392	0.385	0.504	0.368	0.450	0.538	0.370	0.499	0.351	0.204	0.330
Geo Mean	2.5	2.7	2.2	2.7	2.5	2.4	3.2	2.3	2.8	3.5	2.3	3.2	2.2	1.6	2.1
Log StDv	0.323	0.371	0.297	0.344	0.221	0.275	0.392	0.320	0.440	0.363	0.290	0.346	0.144	0.244	0.267
Log CVar	0.804	0.855	0.881	0.796	0.566	0.716	0.779	0.869	0.978	0.675	0.786	0.695	0.410	1.204	0.808
Percntls															
Minimum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10th	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20th	1	1	1	1	2	2	2	1	1	2	1	2	2	1	1
30th	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1
40th	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2
50th	2	2	2	2	2	2	3	2	2	3	2	3	2	2	2
60th	3	3	2	3	3	2	3	2	3	3	2	3	2	2	2
70th	3	4	3	4	3	3	4	3	4	5	3	3	3	2	3
80th	4	5	3	5	3	3	6	4	4	6	3	3	3	2	3
85th	5	6	5	7	4	4	7	4	4	9	4	6	3	2	3
90th	6	9	5	9	4	6	14	6	6	9	5	7	3	2	5
95th	11	15	7	12	7	7	16	6	31	17	6	18	3	2	5
98th	19	22	10	18	9	12	22	6	31	17	16	18	4	7	6
99th	28	28	11	19	9	12	42	28	45	29	16	18	4	7	6
Maximum	63	32	63	20	15	14	42	28	45	29	16	18	4	7	6

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Molybdenum [Mo]
Number of Values - 741
Units - ppm
Detection Limit - 1
Analytical Method - AAS

MOLYBDENUM by AAS (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



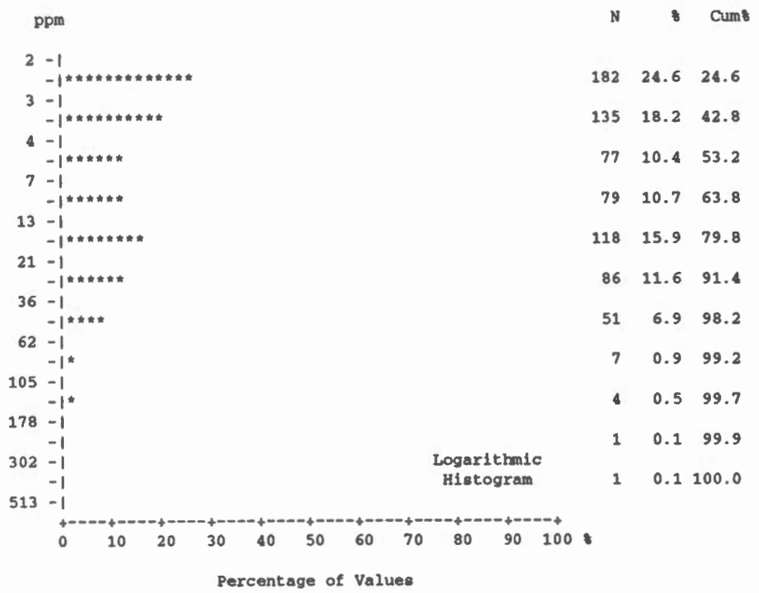
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	93	19	14	7	9	1	7	4	5	7	1	6	1	1	0
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	1.8	2.2	1.9	1.4	1.5	1.1	1.9	1.8	4.0	2.1	1.3	2.9	1.3	1.8	1.0
Median	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Mode	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Range	66	22	66	14	12	6	25	16	42	8	7	17	4	10	0
St Dev	3.89	3.82	5.91	1.82	1.73	0.82	3.90	3.00	9.03	2.23	1.46	4.16	1.07	2.77	0.00
Coef Var	2.108	1.703	3.139	1.264	1.169	0.740	2.020	1.663	2.258	1.060	1.119	1.439	0.831	1.568	0.000
Log Mean	0.093	0.128	0.077	0.060	0.079	0.016	0.102	0.094	0.186	0.174	0.039	0.242	0.050	0.080	0.000
Geo Mean	1.2	1.3	1.2	1.1	1.2	1.0	1.3	1.2	1.5	1.5	1.1	1.7	1.1	1.2	1.0
Log StDv	0.271	0.334	0.253	0.217	0.219	0.116	0.280	0.277	0.456	0.322	0.188	0.387	0.187	0.289	0.000
Log CVar	2.944	2.629	3.326	3.670	2.767	7.739	2.768	2.977	2.453	1.864	4.828	1.605	3.812	3.610	0.000
Percntls															
Minimum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10th	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20th	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30th	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40th	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
50th	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
60th	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70th	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1
80th	1	1	1	1	1	1	1	1	1	2	1	3	1	1	1
85th	1	1	1	1	1	1	1	1	3	4	1	4	1	1	1
90th	3	5	2	1	2	1	3	2	7	6	1	5	1	1	1
95th	6	12	4	5	4	1	4	4	25	7	1	7	1	1	1
98th	12	17	7	6	5	1	8	6	25	7	8	18	5	11	1
99th	18	20	9	7	5	1	26	17	43	9	8	18	5	11	1
Maximum	67	23	67	15	13	7	26	17	43	9	8	18	5	11	1

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Molybdenum [Mo]
Number of Values - 741
Units - ppm
Detection Limit - 1
Analytical Method - INAA

MOLYBDENUM by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



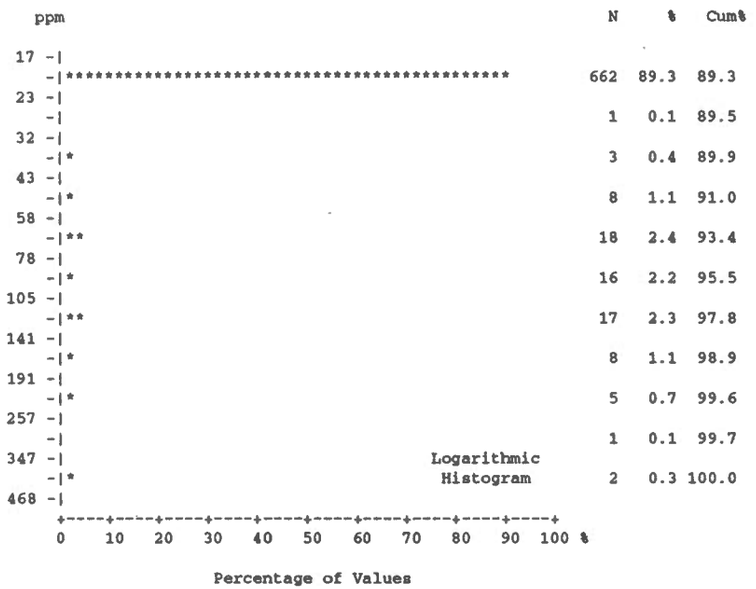
Element Statistics
Variable - Nickel [Ni]
Number of Values - 741
Units - ppm
Detection Limit - 2
Analytical Method - AAS

	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	559	72	65	67	62	52	42	28	20	27	22	18	11	10	9
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	14.1	4.2	4.9	8.8	22.0	21.2	14.9	21.1	6.7	33.9	6.4	38.5	13.7	11.2	4.7
Median	7.0	3.0	2.0	4.0	21.0	17.0	13.0	20.0	4.0	30.0	6.0	30.0	11.0	6.0	5.0
Mode	2.0	2.0	2.0	2.0	16.0	12.0	3.0	2.0	2.0	11.0	3.0	16.0	2.0	2.0	3.0
Range	406	52	79	52	48	55	43	82	17	125	13	171	33	60	7
St Dev	23.96	5.78	8.03	10.70	9.74	14.17	10.96	18.34	5.78	23.83	3.41	38.01	9.78	15.98	2.33
Coef Var	1.698	1.386	1.630	1.210	0.443	0.669	0.734	0.868	0.867	0.703	0.530	0.987	0.713	1.423	0.492
Log Mean	0.865	0.498	0.525	0.737	1.300	1.211	1.047	1.142	0.674	1.427	0.752	1.461	0.991	0.818	0.623
Geo Mean	7.3	3.1	3.4	5.5	19.9	16.3	11.1	13.9	4.7	26.7	5.7	28.9	9.8	6.6	4.2
Log StDv	0.480	0.262	0.312	0.403	0.200	0.349	0.362	0.449	0.362	0.340	0.228	0.325	0.420	0.430	0.227
Log CVar	0.554	0.526	0.594	0.547	0.154	0.288	0.346	0.393	0.538	0.238	0.303	0.223	0.424	0.526	0.364
Percntls															
Minimum	2	2	2	2	5	2	2	2	2	2	2	6	2	2	2
10th	2	2	2	2	11	5	3	2	2	11	3	12	2	2	2
20th	2	2	2	2	14	9	4	4	2	15	3	16	2	2	2
30th	3	2	2	3	16	12	8	8	2	21	4	16	7	4	3
40th	4	2	2	3	17	14	11	14	3	23	5	25	11	4	3
50th	7	3	2	4	21	17	13	20	4	30	6	30	11	6	5
60th	11	3	3	7	22	22	14	22	4	36	6	34	12	7	5
70th	15	4	4	9	25	26	17	26	8	42	7	38	20	10	6
80th	22	5	6	11	29	29	21	29	11	45	9	43	22	11	7
85th	26	5	7	14	30	39	22	29	15	49	9	44	22	14	7
90th	33	6	10	21	33	44	32	45	16	54	10	55	24	17	7
95th	45	9	15	32	37	48	40	45	19	59	14	68	24	17	7
98th	57	15	21	40	50	51	42	60	19	59	15	177	35	62	9
99th	84	37	27	53	50	51	45	84	19	127	15	177	35	62	9
Maximum	408	54	81	54	53	57	45	84	19	127	15	177	35	62	9

(Summary statistics not calculated for formations with fewer than ten values.)

NICKEL by AAS (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



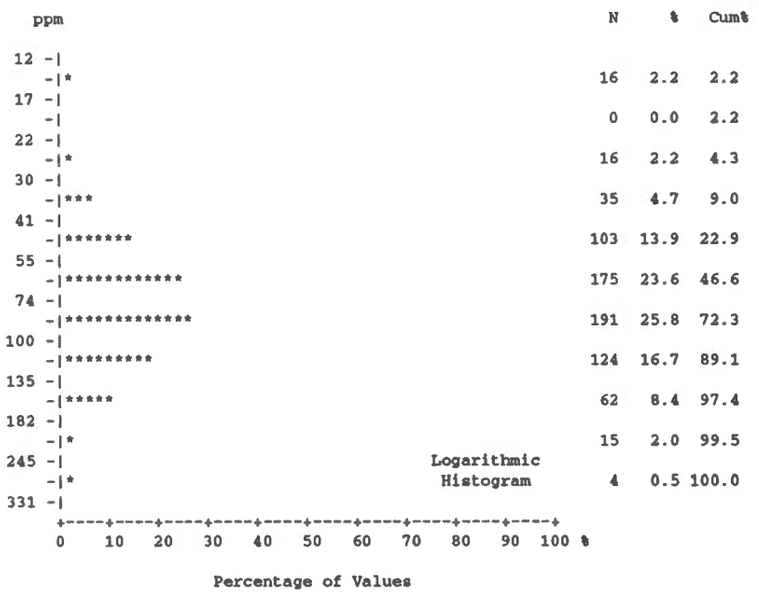
Element Statistics
Variable - Nickel [Ni]
Number of Values - 741
Units - ppm
Detection Limit - 20
Analytical Method - INAA

	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	79	9	6	8	7	6	4	6	4	9	1	4	1	2	1
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	29.8	25.6	22.7	27.6	27.7	29.5	25.8	31.0	34.5	43.9	21.1	48.5	22.9	32.3	29.8
Median	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Mode	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Range	380	190	80	170	140	160	130	110	130	220	26	220	40	90	108
St Dev	36.13	25.58	12.84	27.78	25.28	29.62	22.18	26.13	38.24	48.76	5.42	60.87	10.69	30.32	32.56
Coef Var	1.211	0.998	0.565	1.007	0.913	1.004	0.861	0.844	1.109	1.112	0.257	1.255	0.468	0.938	1.092
Log Mean	1.374	1.344	1.328	1.362	1.369	1.379	1.353	1.408	1.408	1.498	1.317	1.489	1.335	1.408	1.374
Geo Mean	23.7	22.1	21.3	23.0	23.4	24.0	22.5	25.6	25.6	31.4	20.7	30.8	21.6	25.6	23.7
Log StDv	0.225	0.176	0.125	0.204	0.203	0.226	0.177	0.234	0.279	0.316	0.075	0.368	0.128	0.262	0.243
Log CVar	0.164	0.131	0.094	0.150	0.148	0.164	0.131	0.166	0.198	0.211	0.057	0.247	0.096	0.186	0.177
Percntls															
Minimum	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
10th	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
20th	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
30th	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
40th	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
50th	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
60th	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
70th	20	20	20	20	20	20	20	20	20	46	20	20	20	20	20
80th	20	20	20	20	20	20	20	20	20	61	20	20	20	20	20
85th	20	20	20	20	20	20	20	42	20	70	20	98	20	20	20
90th	43	20	20	20	40	76	20	66	100	76	20	125	20	90	20
95th	97	43	20	85	88	83	70	75	140	140	20	130	20	90	20
98th	150	120	70	110	120	120	73	93	140	140	46	240	60	110	128
99th	195	160	92	160	120	120	150	130	150	240	46	240	60	110	128
Maximum	400	210	100	190	160	180	150	130	150	240	46	240	60	110	128

(Summary statistics not calculated for formations with fewer than ten values.)

NICKEL by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



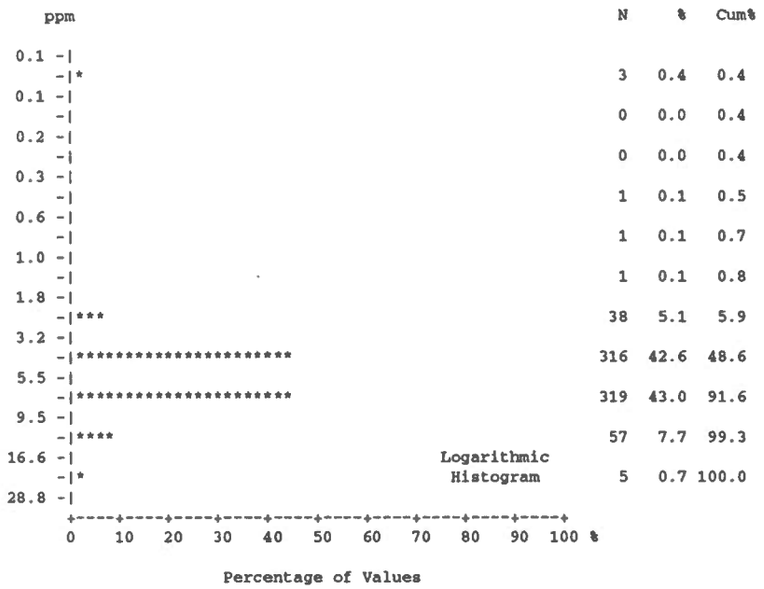
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	725	136	122	93	61	52	44	30	30	28	21	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	84.0	115.0	70.8	109.5	72.5	56.6	82.1	68.2	87.6	75.1	50.1	77.3	82.1	76.6	104.1
Median	77.0	100.0	63.0	100.0	68.0	56.0	78.0	67.0	83.0	70.0	51.0	73.0	78.0	68.0	110.0
Mode	110.0	110.0	120.0	140.0	62.0	48.0	85.0	54.0	90.0	110.0	51.0	47.0	70.0	60.0	110.0
Range	285	285	145	203	167	95	166	125	147	79	78	83	76	103	79
St Dev	40.69	50.61	33.93	38.07	25.63	17.55	35.96	29.86	35.35	22.29	19.88	25.30	21.00	32.10	26.97
Coef Var	0.484	0.440	0.479	0.348	0.354	0.310	0.438	0.438	0.403	0.297	0.396	0.327	0.256	0.419	0.259
Log Mean	1.874	2.020	1.791	2.014	1.835	1.731	1.873	1.788	1.909	1.857	1.660	1.867	1.902	1.850	2.004
Geo Mean	74.9	104.7	61.9	103.4	68.3	53.8	74.7	61.4	81.2	72.0	45.7	73.7	79.9	70.7	101.0
Log StDv	0.216	0.194	0.243	0.149	0.154	0.146	0.197	0.214	0.173	0.129	0.207	0.137	0.103	0.181	0.112
Log CVar	0.116	0.096	0.136	0.074	0.084	0.084	0.105	0.119	0.091	0.069	0.125	0.073	0.054	0.980	0.056
Percntls															
Minimum	15	15	15	37	15	15	24	15	33	41	15	47	54	37	71
10th	43	66	30	64	47	35	40	29	49	47	15	47	54	37	71
20th	52	76	44	78	54	43	52	42	56	57	32	52	68	47	75
30th	59	83	52	86	58	46	59	49	62	59	41	59	70	49	80
40th	68	93	58	93	62	51	75	54	67	65	48	65	74	60	82
50th	77	100	63	100	68	56	78	67	83	70	51	73	78	68	110
60th	86	110	75	110	71	61	85	74	90	78	54	76	78	78	110
70th	95	130	87	130	80	63	87	85	95	82	55	85	85	90	120
80th	110	150	100	140	87	68	100	93	120	90	60	86	87	93	120
85th	120	160	110	150	92	70	110	95	130	110	64	110	94	110	120
90th	140	190	120	160	94	79	140	100	130	110	81	110	120	120	140
95th	160	220	130	170	110	84	150	110	160	110	83	120	120	120	140
98th	190	250	150	180	140	95	170	130	160	110	93	130	130	140	150
99th	230	270	160	230	140	95	190	140	180	120	93	130	130	140	150
Maximum	300	300	160	240	182	110	190	140	180	120	93	130	130	140	150

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Rubidium [Rb]
Number of Values - 741
Units - ppm
Detection Limit - 15
Analytical Method - INAA

RUBIDIUM by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



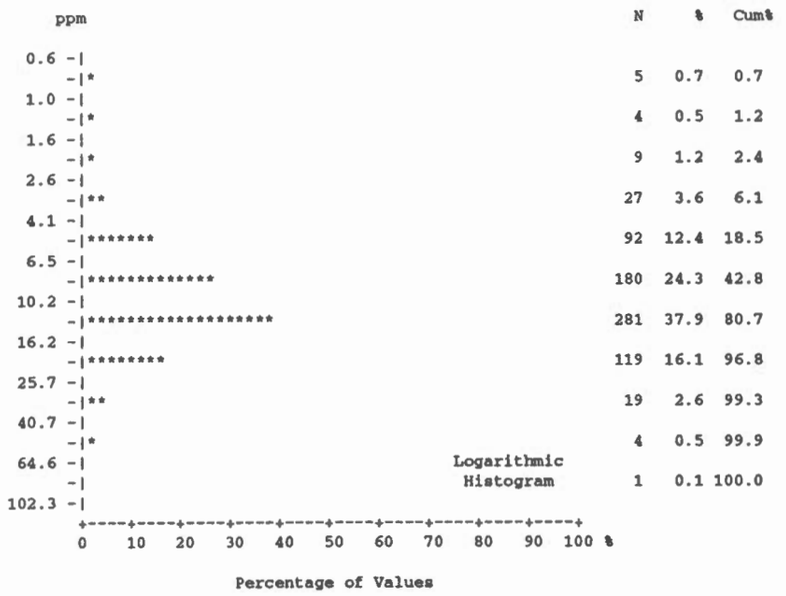
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	738	136	130	91	62	53	44	31	30	28	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	6.08	7.81	7.58	5.66	4.09	4.83	4.77	6.47	6.18	4.46	6.22	4.83	5.19	5.40	7.35
Median	5.50	7.10	7.20	5.40	4.00	4.40	4.50	6.10	5.90	4.00	6.10	4.30	4.90	4.90	6.20
Mode	4.30	6.20	11.00	4.80	4.00	4.00	3.90	6.10	5.00	3.70	6.00	4.30	4.10	4.30	5.00
Range	25.9	25.9	14.1	10.9	7.3	6.3	8.6	9.2	5.5	6.6	10.0	6.4	4.2	4.8	14.6
St Dev	2.64	3.32	2.47	2.09	1.10	1.51	1.70	1.92	1.39	1.59	1.95	1.47	1.25	1.53	4.03
Coef Var	0.434	0.426	0.326	0.369	0.269	0.313	0.357	0.297	0.225	0.356	0.313	0.305	0.241	0.283	0.548
Log Mean	0.743	0.853	0.859	0.701	0.590	0.665	0.646	0.795	0.781	0.628	0.776	0.669	0.703	0.719	0.829
Geo Mean	5.54	7.12	7.23	5.02	3.89	4.62	4.42	6.24	6.04	4.25	5.97	4.67	5.05	5.23	6.74
Log StDv	0.207	0.222	0.132	0.291	0.164	0.129	0.185	0.115	0.095	0.134	0.128	0.113	0.109	0.110	0.170
Log CVar	0.279	0.260	0.154	0.416	0.278	0.195	0.286	0.144	0.122	0.213	0.166	0.170	0.154	0.154	0.205
Percntls															
Minimum	0.1	0.1	3.9	0.1	0.4	2.6	0.8	3.8	4.2	2.6	3.0	3.0	3.0	4.0	4.4
10th	3.5	4.7	4.8	3.4	2.8	3.1	2.7	4.4	4.5	3.1	3.3	3.3	3.0	4.0	4.4
20th	4.1	5.4	5.5	4.0	3.2	3.5	3.7	5.0	5.0	3.3	5.1	4.2	4.1	4.3	5.0
30th	4.5	6.1	6.0	4.4	3.7	4.0	3.9	5.4	5.1	3.6	5.4	4.3	4.1	4.3	5.0
40th	5.0	6.5	6.4	4.8	3.9	4.2	4.3	5.8	5.3	3.7	6.0	4.3	4.8	4.5	5.9
50th	5.5	7.1	7.2	5.4	4.0	4.4	4.5	6.1	5.9	4.0	6.1	4.3	4.9	4.9	6.2
60th	6.2	7.8	7.8	5.9	4.3	4.9	4.9	6.3	6.3	4.4	6.2	4.4	5.3	5.0	6.5
70th	6.8	8.5	8.4	6.7	4.4	5.2	5.2	6.8	6.8	4.7	6.4	4.8	6.0	5.1	7.3
80th	7.8	9.8	9.1	7.3	4.8	5.8	5.8	7.2	7.4	4.9	6.8	5.0	6.2	6.2	7.6
85th	8.3	10.0	10.0	8.0	5.0	6.5	6.3	7.5	7.8	5.3	7.0	5.3	6.5	6.4	7.6
90th	9.2	12.0	11.0	8.4	5.2	7.1	7.1	8.0	8.1	6.3	7.7	5.8	7.0	8.0	8.0
95th	11.0	13.0	12.0	9.4	5.8	7.3	7.9	9.7	8.3	8.7	8.8	7.3	7.0	8.0	8.0
98th	13.0	14.0	13.0	9.9	6.3	8.8	8.3	11.0	8.3	8.7	13.0	9.4	7.2	8.8	19.0
99th	14.0	22.0	16.0	10.0	6.3	8.8	9.4	13.0	9.7	9.2	13.0	9.4	7.2	8.8	19.0
Maximum	26.0	26.0	18.0	11.0	7.7	8.9	9.4	13.0	9.7	9.2	13.0	9.4	7.2	8.8	19.0

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Samarium [Sm]
Number of Values - 741
Units - ppm
Detection Limit - 0.1
Analytical Method - INAA

SAMARIUM by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



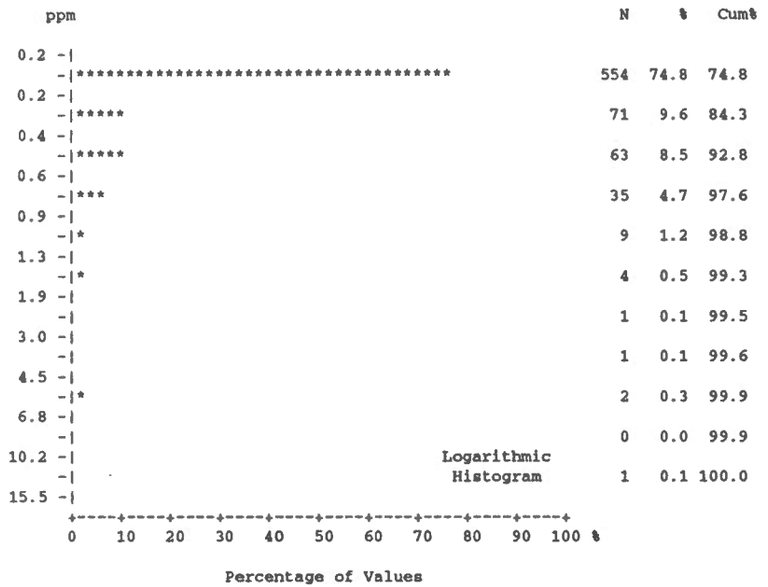
Element Statistics
Variable - Scandium [Sc]
Number of Values - 741
Units - ppm
Detection Limit - 0.1
Analytical Method - INAA

	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	12.01	8.05	10.43	8.85	13.71	18.71	11.32	12.00	10.37	16.50	16.28	20.16	12.45	12.32	10.15
Median	11.00	7.60	10.00	8.10	14.00	17.00	11.00	12.00	9.90	15.00	15.00	21.00	12.00	13.00	8.20
Mode	12.00	12.00	11.00	12.00	15.00	17.00	11.00	12.00	12.00	11.00	13.00	21.00	10.00	3.00	8.20
Range	70.3	20.3	28.1	25.2	21.5	50.1	19.0	23.6	23.1	66.9	18.5	16.2	20.5	19.0	8.5
St Dev	6.75	4.21	4.33	4.64	3.74	7.67	4.34	4.64	5.23	11.17	5.28	4.84	5.43	6.30	3.33
Coef Var	0.562	0.523	0.415	0.525	0.273	0.410	0.384	0.387	0.505	0.677	0.324	0.240	0.436	0.512	0.328
Log Mean	1.013	0.831	0.977	0.889	1.113	1.241	1.019	1.036	0.959	1.171	1.190	1.290	1.061	1.015	0.986
Geo Mean	10.31	6.78	9.48	7.74	12.97	17.41	10.45	10.87	9.11	14.81	15.48	19.48	11.51	10.36	9.67
Log StDv	0.258	0.287	0.205	0.232	0.173	0.167	0.183	0.227	0.233	0.186	0.142	0.123	0.176	0.295	0.141
Log CVar	0.254	0.345	0.210	0.261	0.155	0.134	0.180	0.219	0.243	0.159	0.120	0.096	0.166	0.291	0.143
Percntls															
Minimum	0.7	0.7	0.9	1.8	1.5	5.9	3.0	1.4	2.9	4.1	7.5	9.8	6.5	3.0	6.5
10th	4.8	2.8	5.2	3.8	9.7	10.0	5.2	6.4	3.8	11.0	10.0	12.0	6.5	3.0	6.5
20th	6.7	4.6	6.6	5.1	11.0	14.0	6.8	8.6	5.7	12.0	12.0	17.0	7.1	4.6	6.8
30th	8.2	6.0	8.0	5.6	12.0	16.0	8.8	9.4	6.4	13.0	13.0	18.0	7.8	8.5	6.9
40th	10.0	6.5	9.2	6.8	13.0	17.0	11.0	11.0	8.0	14.0	13.0	20.0	10.0	10.0	8.1
50th	11.0	7.6	10.0	8.1	14.0	17.0	11.0	12.0	9.9	15.0	15.0	21.0	12.0	13.0	8.2
60th	12.0	8.1	11.0	9.1	15.0	19.0	12.0	12.0	12.0	16.0	17.0	22.0	12.0	14.0	11.0
70th	14.0	9.9	12.0	11.0	15.0	20.0	13.0	13.0	12.0	17.0	18.0	24.0	14.0	15.0	13.0
80th	16.0	11.0	13.0	12.0	16.0	21.0	14.0	15.0	14.0	18.0	19.0	24.0	15.0	16.0	13.0
85th	18.0	12.0	15.0	13.0	17.0	26.0	14.0	15.0	14.0	18.0	24.0	24.0	16.0	18.0	13.0
90th	19.0	13.0	16.0	14.0	18.0	28.0	17.0	18.0	15.0	18.0	25.0	25.0	17.0	21.0	15.0
95th	23.0	16.0	19.0	18.0	20.0	28.0	20.0	18.0	20.0	19.0	26.0	25.0	17.0	21.0	15.0
98th	26.0	18.0	19.0	20.0	21.0	31.0	21.0	21.0	20.0	19.0	26.0	26.0	27.0	22.0	15.0
99th	30.0	20.0	22.0	21.0	21.0	31.0	22.0	25.0	26.0	71.0	26.0	26.0	27.0	22.0	15.0
Maximum	71.0	21.0	29.0	27.0	23.0	56.0	22.0	25.0	26.0	71.0	26.0	26.0	27.0	22.0	15.0

(Summary statistics not calculated for formations with fewer than ten values.)

SCANDIUM by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



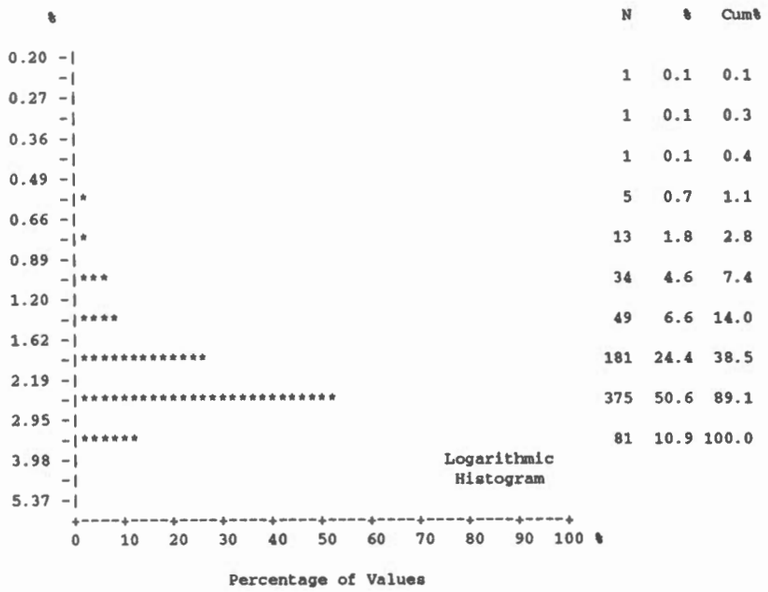
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	187	37	15	21	19	22	14	12	6	12	1	8	2	1	4
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	0.30	0.28	0.23	0.32	0.47	0.32	0.32	0.32	0.32	0.30	0.20	0.28	0.21	0.24	0.25
Median	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Mode	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Range	11.8	1.4	0.7	4.8	11.8	0.6	1.1	1.2	2.8	0.6	0.1	0.5	0.1	0.5	0.2
St Dev	0.54	0.20	0.10	0.53	1.50	0.17	0.27	0.24	0.51	0.16	0.02	0.13	0.04	0.14	0.07
Coef Var	1.779	0.722	0.423	1.620	3.200	0.531	0.834	0.760	1.583	0.542	0.102	0.473	0.169	0.582	0.280
Log Mean	-0.607	-0.603	-0.661	-0.602	-0.573	-0.549	-0.570	-0.562	-0.616	-0.563	-0.691	-0.581	-0.674	-0.657	-0.624
Geo Mean	0.25	0.25	0.22	0.25	0.27	0.28	0.27	0.27	0.24	0.27	0.20	0.26	0.21	0.22	0.24
Log StDv	0.200	0.188	0.114	0.228	0.277	0.199	0.228	0.214	0.234	0.188	0.037	0.163	0.064	0.151	0.110
Log CVar	-0.330	-0.311	-0.173	-0.380	-0.485	-0.364	-0.400	-0.381	-0.380	-0.334	-0.053	-0.280	-0.095	-0.230	-0.177
Percntls															
Minimum	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
20th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
30th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
40th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
50th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
60th	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2
70th	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.3
80th	0.3	0.3	0.2	0.3	0.3	0.4	0.4	0.4	0.2	0.4	0.2	0.3	0.2	0.2	0.3
85th	0.4	0.4	0.2	0.3	0.4	0.6	0.4	0.4	0.3	0.4	0.2	0.3	0.2	0.2	0.3
90th	0.5	0.4	0.3	0.5	0.6	0.6	0.5	0.6	0.3	0.5	0.2	0.4	0.3	0.2	0.3
95th	0.6	0.6	0.4	0.7	0.7	0.6	1.2	0.6	0.5	0.7	0.2	0.5	0.3	0.2	0.3
98th	0.9	1.0	0.5	1.0	0.9	0.7	1.2	0.7	0.5	0.7	0.3	0.7	0.3	0.7	0.4
99th	1.4	1.2	0.7	1.4	0.9	0.7	1.3	1.4	3.0	0.8	0.3	0.7	0.3	0.7	0.4
Maximum	12.0	1.6	0.9	5.0	12.0	0.8	1.3	1.4	3.0	0.8	0.3	0.7	0.3	0.7	0.4

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Silver [Ag]
Number of Values - 741
Units - ppm
Detection Limit - 0.2
Analytical Method - AAS

SILVER by AAS (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



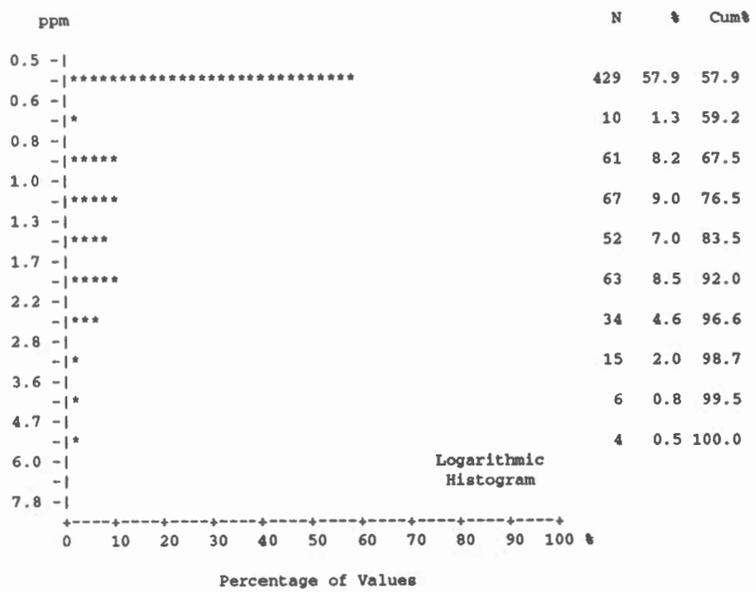
Element Statistics
Variable - Sodium [Na]
Number of Values - 741
Units - %
Detection Limit - 0.01
Analytical Method - INAA

	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	2.28	2.54	2.51	2.46	2.07	2.01	2.14	1.71	2.56	1.97	2.56	1.64	2.18	2.39	2.36
Median	2.36	2.59	2.56	2.53	2.10	1.98	2.19	1.80	2.51	2.01	2.61	1.51	2.02	2.49	2.34
Mode	2.60	2.35	2.50	1.98	2.14	1.87	2.36	0.68	1.95	0.63	2.06	1.12	1.08	0.94	1.53
Range	3.72	2.59	1.94	2.83	3.72	2.77	2.73	2.75	2.19	2.19	1.50	1.14	2.75	2.26	1.37
St Dev	0.61	0.43	0.36	0.55	0.58	0.65	0.66	0.85	0.56	0.55	0.39	0.40	0.72	0.63	0.36
Coef Var	0.269	0.171	0.145	0.222	0.283	0.324	0.311	0.498	0.219	0.278	0.151	0.240	0.330	0.265	0.153
Log Mean	0.336	0.398	0.394	0.378	0.291	0.275	0.304	0.170	0.395	0.272	0.403	0.204	0.316	0.359	0.368
Geo Mean	2.17	2.50	2.48	2.39	1.95	1.88	2.01	1.48	2.48	1.87	2.53	1.60	2.07	2.29	2.33
Log StDv	0.150	0.083	0.066	0.115	0.171	0.167	0.164	0.252	0.115	0.158	0.068	0.105	0.142	0.149	0.073
Log CVar	0.446	0.209	0.168	0.304	0.591	0.608	0.542	1.481	0.293	0.582	0.169	0.518	0.449	0.416	0.200
Percntls															
Minimum	0.22	1.02	1.49	0.87	0.22	0.62	0.70	0.48	1.03	0.63	1.85	1.12	1.08	0.94	1.53
10th	1.34	1.99	1.98	1.67	1.28	1.06	0.92	0.60	1.72	1.15	1.89	1.17	1.08	0.94	1.53
20th	1.81	2.16	2.19	2.08	1.55	1.56	1.55	0.76	2.03	1.50	2.11	1.28	1.63	2.23	2.15
30th	2.03	2.35	2.33	2.26	1.86	1.69	1.87	0.97	2.36	1.81	2.41	1.29	1.65	2.24	2.16
40th	2.20	2.52	2.46	2.43	2.00	1.87	2.07	1.06	2.45	1.94	2.45	1.35	1.70	2.39	2.28
50th	2.36	2.59	2.56	2.53	2.10	1.98	2.19	1.80	2.51	2.01	2.61	1.51	2.02	2.49	2.34
60th	2.51	2.66	2.62	2.60	2.24	2.18	2.34	2.05	2.81	2.19	2.73	1.75	2.11	2.53	2.39
70th	2.63	2.75	2.68	2.69	2.33	2.31	2.42	2.32	2.94	2.24	2.77	1.90	2.61	2.67	2.56
80th	2.76	2.90	2.79	2.86	2.55	2.53	2.72	2.45	3.04	2.34	2.82	1.98	2.67	2.78	2.64
85th	2.85	2.95	2.83	2.98	2.57	2.61	2.76	2.53	3.11	2.42	2.83	2.15	2.69	2.79	2.64
90th	2.97	3.01	2.95	3.15	2.64	2.86	2.96	2.73	3.15	2.52	3.01	2.17	2.99	3.06	2.70
95th	3.13	3.16	3.11	3.25	2.80	3.08	3.13	3.00	3.16	2.72	3.04	2.18	2.99	3.06	2.70
98th	3.29	3.33	3.16	3.40	2.94	3.13	3.22	3.07	3.16	2.72	3.35	2.26	3.83	3.20	2.90
99th	3.43	3.46	3.20	3.47	2.94	3.13	3.43	3.23	3.22	2.82	3.35	2.26	3.83	3.20	2.90
Maximum	3.94	3.61	3.43	3.70	3.94	3.39	3.43	3.23	3.22	2.82	3.35	2.26	3.83	3.20	2.90

(Summary statistics not calculated for formations with fewer than ten values.)

SODIUM by INAA (%)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



ppm	N	%	Cum%
0.5	429	57.9	57.9
0.6	10	1.3	59.2
0.8	61	8.2	67.5
1.0	67	9.0	76.5
1.3	52	7.0	83.5
1.7	63	8.5	92.0
2.2	34	4.6	96.6
2.8	15	2.0	98.7
3.6	6	0.8	99.5
4.7	4	0.5	100.0
6.0			
7.8			

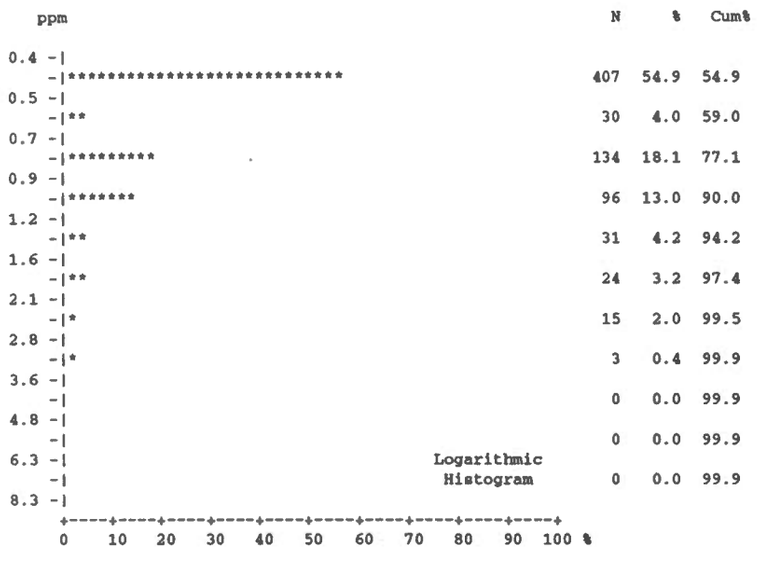
Element Statistics
Variable - Tantalum [Ta]
Number of Values - 741
Units - ppm
Detection Limit - 0.5
Analytical Method - INAA

	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	321	77	52	56	20	20	12	14	19	16	4	3	4	4	2
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	0.99	1.21	0.88	1.52	0.70	0.82	0.75	0.91	1.33	0.76	0.63	0.59	0.84	1.29	0.66
Median	0.50	1.00	0.50	1.20	0.50	0.50	0.50	0.50	1.00	0.60	0.50	0.50	0.50	0.50	0.50
Mode	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Range	5.2	2.9	2.3	5.2	1.7	1.7	2.1	1.6	4.5	1.3	1.0	0.9	2.2	3.6	1.4
St Dev	0.78	0.80	0.57	1.26	0.38	0.48	0.49	0.53	1.04	0.32	0.29	0.23	0.67	1.32	0.43
Coef Var	0.795	0.662	0.653	0.832	0.540	0.586	0.661	0.580	0.779	0.425	0.465	0.395	0.804	1.023	0.644
Log Mean	-0.100	-0.010	-0.128	0.049	-0.196	-0.146	-0.187	-0.105	0.021	-0.151	-0.234	-0.251	-0.162	-0.063	-0.225
Geo Mean	0.79	0.98	0.74	1.12	0.64	0.71	0.65	0.78	1.05	0.71	0.58	0.56	0.69	0.86	0.60
Log StDv	0.265	0.285	0.235	0.336	0.177	0.217	0.209	0.234	0.299	0.164	0.151	0.124	0.250	0.378	0.184
Log CVar	-2.672	-31.674	-1.851	7.003	-0.901	-1.487	-1.119	-2.225	14.931	-1.095	-0.647	-0.496	-1.552	-5.994	-0.817
Percntls															
Minimum	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
10th	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
20th	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
30th	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40th	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5
50th	0.5	1.0	0.5	1.2	0.5	0.5	0.5	0.5	1.0	0.6	0.5	0.5	0.5	0.5	0.5
60th	0.8	1.3	0.5	1.4	0.5	0.5	0.5	1.0	1.2	0.7	0.5	0.5	0.5	0.5	0.5
70th	1.1	1.5	1.0	1.8	0.6	1.0	0.5	1.1	1.6	0.9	0.5	0.5	0.5	0.5	0.5
80th	1.5	1.9	1.3	2.1	1.0	1.3	0.8	1.4	1.8	1.1	0.5	0.5	0.9	2.1	0.5
85th	1.7	2.1	1.5	3.0	1.1	1.4	1.4	1.6	2.2	1.1	1.0	0.5	1.2	2.5	0.5
90th	2.0	2.4	1.7	3.5	1.2	1.5	1.6	1.7	2.3	1.1	1.2	0.8	1.9	3.6	0.9
95th	2.5	2.7	2.2	4.1	1.4	1.8	1.7	1.7	3.7	1.2	1.2	0.9	1.9	3.6	0.9
98th	3.4	3.2	2.4	5.3	1.9	2.0	1.8	2.0	3.7	1.2	1.5	1.4	2.7	4.1	1.9
99th	4.1	3.3	2.6	5.3	1.9	2.0	2.6	2.1	5.0	1.8	1.5	1.4	2.7	4.1	1.9
Maximum	5.7	3.4	2.8	5.7	2.2	2.2	2.6	2.1	5.0	1.8	1.5	1.4	2.7	4.1	1.9

(Summary statistics not calculated for formations with fewer than ten values.)

TANTALUM by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



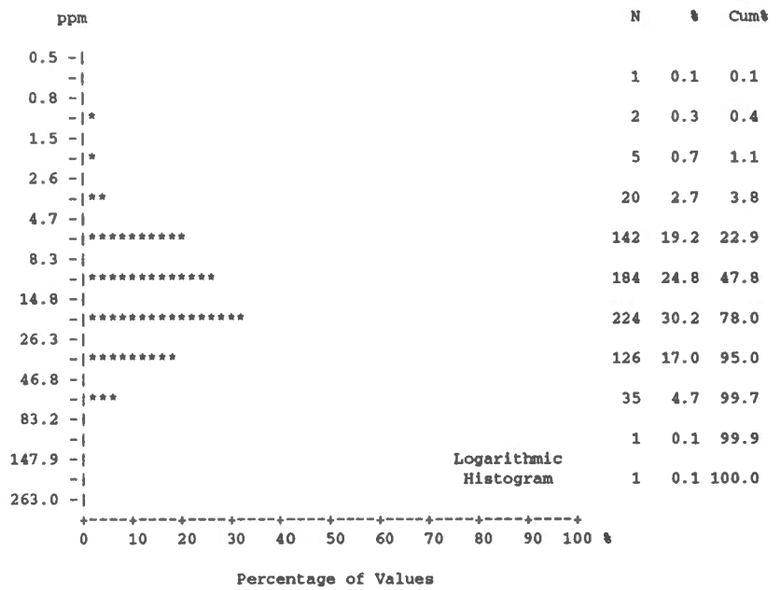
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	334	63	64	41	25	29	15	19	12	12	12	5	5	8	2
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	0.77	1.02	0.79	0.74	0.62	0.71	0.64	0.83	0.74	0.62	0.69	0.58	0.64	0.78	0.67
Median	0.50	0.50	0.50	0.50	0.50	0.60	0.50	0.80	0.50	0.50	0.60	0.50	0.50	0.60	0.50
Mode	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Range	8.0	8.0	1.9	1.3	0.8	0.7	0.9	1.4	0.9	0.8	0.7	0.7	0.6	1.1	1.7
St Dev	0.50	0.92	0.39	0.33	0.18	0.23	0.25	0.36	0.32	0.19	0.21	0.18	0.22	0.39	0.51
Coef Var	0.650	0.904	0.499	0.451	0.299	0.322	0.383	0.435	0.433	0.311	0.311	0.307	0.341	0.499	0.758
Log Mean	-0.163	-0.091	-0.146	-0.168	-0.226	-0.169	-0.216	-0.117	-0.167	-0.222	-0.182	-0.248	-0.217	-0.146	-0.229
Geo Mean	0.69	0.81	0.71	0.68	0.59	0.68	0.61	0.76	0.68	0.60	0.66	0.57	0.61	0.71	0.59
Log StDv	0.187	0.267	0.184	0.171	0.110	0.136	0.137	0.175	0.174	0.113	0.129	0.104	0.130	0.185	0.195
Log CVar	-1.145	-2.966	-1.261	-1.024	-0.488	-0.804	-0.639	-1.506	-1.050	-0.507	-0.713	-0.422	-0.604	-1.277	-0.850
Percntls															
Minimum	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
10th	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
20th	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
30th	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40th	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
50th	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.8	0.5	0.5	0.6	0.5	0.5	0.6	0.5
60th	0.7	0.8	0.8	0.7	0.5	0.8	0.5	0.9	0.5	0.6	0.8	0.5	0.5	0.7	0.5
70th	0.8	1.1	0.9	0.9	0.7	0.9	0.6	1.0	1.0	0.7	0.8	0.5	0.6	0.7	0.5
80th	1.0	1.5	1.1	1.0	0.7	0.9	0.9	1.1	1.1	0.7	0.8	0.6	0.8	0.8	0.5
85th	1.1	1.7	1.2	1.2	0.8	1.0	0.9	1.1	1.1	0.8	0.9	0.7	0.9	1.2	0.5
90th	1.2	2.1	1.2	1.2	0.9	1.0	1.0	1.2	1.2	0.8	1.0	0.7	1.0	1.5	0.7
95th	1.6	2.4	1.6	1.4	1.0	1.1	1.2	1.2	1.3	1.0	1.0	0.8	1.0	1.5	0.7
98th	2.1	2.9	1.7	1.6	1.1	1.2	1.3	1.7	1.3	1.0	1.2	1.2	1.1	1.6	2.2
99th	2.4	3.2	2.2	1.6	1.1	1.2	1.4	1.9	1.4	1.3	1.2	1.2	1.1	1.6	2.2
Maximum	8.5	8.5	2.4	1.8	1.3	1.2	1.4	1.9	1.4	1.3	1.2	1.2	1.1	1.6	2.2

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Terbium [Tb]
Number of Values - 741
Units - ppm
Detection Limit - 0.5
Analytical Method - INAA

TERBIUM by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



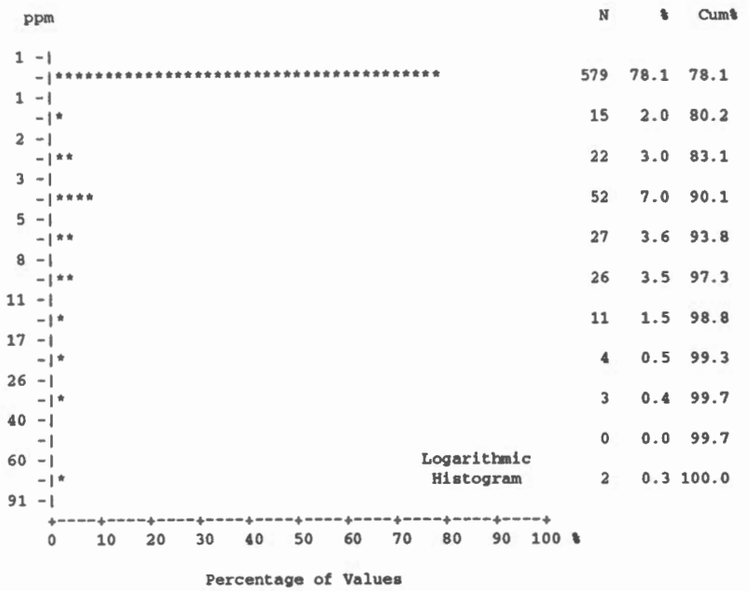
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	18.86	25.29	19.98	30.33	9.20	11.31	13.39	17.95	25.31	10.71	18.26	9.19	13.54	16.42	20.00
Median	15.00	22.00	17.00	25.00	7.50	8.50	10.00	13.00	23.00	8.70	17.00	7.90	11.00	9.00	18.00
Mode	13.00	22.00	11.00	16.00	6.00	7.20	12.00	13.00	16.00	6.00	16.00	2.20	11.00	14.00	18.00
Range	169.4	64.9	69.4	164.5	47.4	36.9	42.4	46.4	63.2	34.1	41.8	18.8	32.4	38.8	13.0
St Dev	14.26	12.24	11.36	21.15	6.37	7.56	9.15	12.49	14.14	8.27	8.89	5.32	8.63	13.48	3.74
Coef Var	0.756	0.484	0.569	0.697	0.692	0.669	0.684	0.696	0.559	0.772	0.487	0.579	0.638	0.821	0.187
Log Mean	1.171	1.354	1.240	1.405	0.902	0.979	1.041	1.179	1.342	0.935	1.220	0.897	1.070	1.093	1.294
Geo Mean	14.84	22.58	17.36	25.41	7.98	9.53	10.98	15.10	21.97	8.61	16.58	7.89	11.76	12.39	19.69
Log StDv	0.308	0.212	0.230	0.257	0.235	0.247	0.274	0.242	0.237	0.285	0.193	0.253	0.226	0.331	0.081
Log CVar	0.263	0.157	0.185	0.183	0.261	0.253	0.263	0.205	0.177	0.304	0.158	0.282	0.211	0.302	0.063
Percntls															
Minimum	0.6	5.1	4.6	5.5	0.6	3.1	2.6	6.6	6.8	1.9	7.2	2.2	5.6	5.2	14.0
10th	6.2	12.0	9.0	12.0	5.3	4.9	5.3	8.1	10.0	4.1	7.9	3.5	5.6	5.2	14.0
20th	7.9	16.0	11.0	16.0	6.0	5.9	6.3	9.8	14.0	5.4	10.0	5.1	6.7	6.2	17.0
30th	9.9	18.0	13.0	18.0	6.7	7.2	6.7	11.0	16.0	5.9	13.0	6.0	9.3	6.5	18.0
40th	12.0	21.0	15.0	21.0	6.9	7.4	8.2	11.0	18.0	6.3	16.0	6.5	11.0	7.9	18.0
50th	15.0	22.0	17.0	25.0	7.5	8.5	10.0	13.0	23.0	8.7	17.0	7.9	11.0	9.0	18.0
60th	18.0	26.0	20.0	29.0	8.1	10.0	12.0	14.0	26.0	9.6	19.0	8.5	11.0	14.0	21.0
70th	22.0	29.0	23.0	36.0	9.1	12.0	15.0	15.0	30.0	11.0	19.0	10.0	12.0	14.0	22.0
80th	28.0	33.0	27.0	45.0	10.0	15.0	19.0	23.0	33.0	12.0	23.0	12.0	13.0	25.0	23.0
85th	31.0	37.0	29.0	47.0	11.0	18.0	20.0	29.0	38.0	15.0	25.0	13.0	20.0	28.0	23.0
90th	37.0	42.0	31.0	52.0	16.0	20.0	27.0	37.0	40.0	17.0	27.0	14.0	24.0	40.0	24.0
95th	46.0	50.0	46.0	60.0	19.0	24.0	28.0	44.0	54.0	35.0	28.0	21.0	24.0	40.0	24.0
98th	54.0	53.0	48.0	66.0	22.0	33.0	36.0	48.0	54.0	35.0	49.0	21.0	38.0	44.0	27.0
99th	66.0	68.0	55.0	68.0	22.0	33.0	45.0	53.0	70.0	36.0	49.0	21.0	38.0	44.0	27.0
Maximum	170.0	70.0	74.0	170.0	48.0	40.0	45.0	53.0	70.0	36.0	49.0	21.0	38.0	44.0	27.0

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Thorium [Th]
Number of Values - 741
Units - ppm
Detection Limit - 0.5
Analytical Method - INAA

THORIUM by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



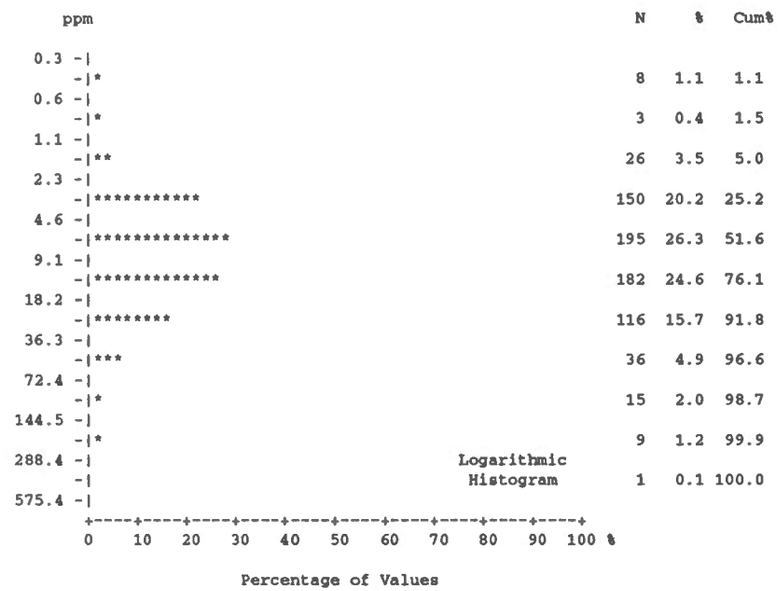
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	162	29	13	37	13	13	12	4	11	6	4	2	5	4	6
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	2.4	2.2	1.5	3.9	2.1	1.9	5.5	1.4	4.2	2.1	1.4	1.6	1.9	2.2	4.2
Median	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	4.0
Mode	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Range	66	15	12	38	25	8	66	5	28	11	4	7	4	7	10
St Dev	4.75	2.77	1.83	5.86	3.67	1.91	13.87	1.08	6.39	2.61	1.08	1.76	1.35	2.15	3.49
Coef Var	1.978	1.284	1.214	1.515	1.713	0.981	2.502	0.798	1.534	1.260	0.753	1.129	0.727	1.000	0.834
Log Mean	0.163	0.157	0.073	0.320	0.141	0.159	0.272	0.070	0.320	0.151	0.090	0.084	0.183	0.197	0.444
Geo Mean	1.5	1.4	1.2	2.1	1.4	1.4	1.9	1.2	2.1	1.4	1.2	1.2	1.5	1.6	2.8
Log StDv	0.338	0.325	0.230	0.435	0.313	0.297	0.503	0.195	0.465	0.319	0.211	0.249	0.267	0.324	0.437
Log CVar	2.071	2.071	3.195	1.360	2.222	1.868	1.856	2.820	1.452	2.114	2.347	2.997	1.470	1.651	0.987
Percntls															
Minimum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10th	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20th	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30th	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40th	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
50th	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
60th	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6
70th	1	1	1	4	1	1	1	1	4	1	1	1	2	1	6
80th	2	2	1	5	2	2	4	1	6	1	1	1	3	3	6
85th	4	4	1	7	3	4	6	1	7	3	2	1	3	3	6
90th	5	5	1	9	4	5	11	2	7	5	3	1	4	5	8
95th	8	9	5	13	8	6	20	3	20	8	4	4	4	5	8
98th	13	11	8	22	12	6	65	4	20	8	5	8	5	8	11
99th	20	14	11	27	12	6	67	6	29	12	5	8	5	8	11
Maximum	67	16	13	39	26	9	67	6	29	12	5	8	5	8	11

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Tungsten [W]
Number of Values - 741
Units - ppm
Detection Limit - 1
Analytical Method - INAA

TUNGSTEN by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



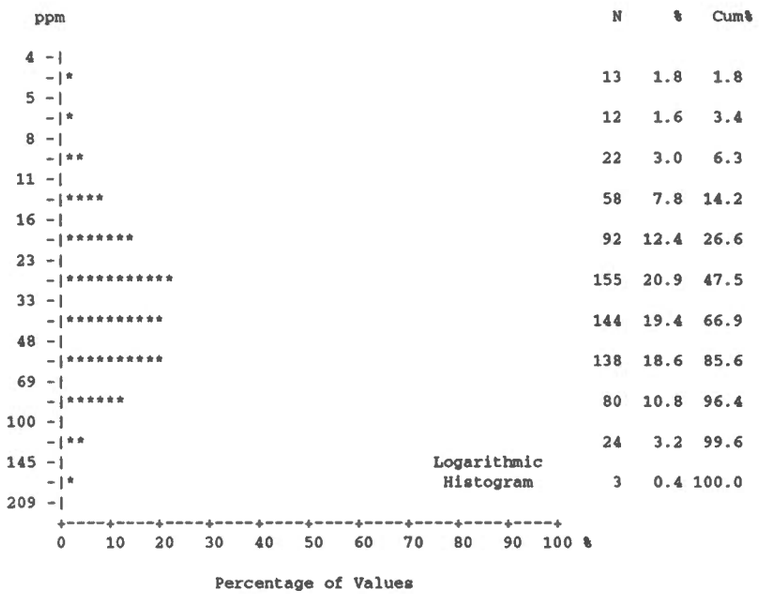
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	733	137	130	93	61	51	44	31	30	27	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	16.83	23.23	10.93	44.19	7.21	9.83	12.29	7.75	12.97	6.73	17.09	7.69	7.74	8.42	23.88
Median	8.70	16.00	7.40	22.00	4.90	6.20	5.90	5.60	11.00	4.50	9.10	3.40	5.30	3.50	12.00
Mode	12.00	11.00	12.00	16.00	2.70	13.00	3.60	3.50	23.00	2.70	5.10	3.40	1.80	2.80	12.00
Range	469.5	188.3	54.3	467.6	27.5	76.5	80.6	30.5	25.9	24.5	155.8	32.9	26.2	28.3	134.3
St Dev	30.74	28.50	9.42	66.06	6.12	12.47	16.57	6.56	7.12	6.17	31.86	9.75	6.69	8.34	38.82
Coef Var	1.826	1.227	0.861	1.495	0.848	1.269	1.349	0.847	0.549	0.918	1.864	1.267	0.864	0.992	1.625
Log Mean	0.963	1.176	0.909	1.396	0.739	0.789	0.858	0.782	1.042	0.692	1.011	0.664	0.779	0.743	1.148
Geo Mean	9.18	15.01	8.12	24.88	5.48	6.15	7.21	6.06	11.02	4.92	10.27	4.61	6.01	5.53	14.07
Log StDv	0.447	0.397	0.337	0.445	0.321	0.420	0.421	0.294	0.268	0.351	0.351	0.415	0.313	0.411	0.385
Log CVar	0.464	0.338	0.371	0.319	0.435	0.532	0.490	0.376	0.257	0.507	0.347	0.626	0.402	0.555	0.335
Percntls															
Minimum	0.5	1.7	0.7	2.4	0.5	0.5	1.4	1.5	2.1	0.5	4.2	1.1	1.8	1.7	5.7
10th	2.7	4.6	3.0	6.1	2.5	2.2	2.3	3.3	4.8	2.2	4.3	1.5	1.8	1.7	5.7
20th	3.8	7.2	4.4	12.0	2.8	2.9	3.0	3.5	7.1	2.7	5.1	2.4	4.0	2.5	5.7
30th	5.0	9.9	5.5	16.0	3.2	3.6	3.6	3.7	8.3	3.3	5.8	2.6	4.6	2.8	6.3
40th	6.6	12.0	6.4	19.0	4.4	4.5	4.8	4.0	9.4	3.7	7.7	3.4	5.0	2.8	12.0
50th	8.7	16.0	7.4	22.0	4.9	6.2	5.9	5.6	11.0	4.5	9.1	3.4	5.3	3.5	12.0
60th	12.0	19.0	9.8	28.0	6.1	7.4	7.7	7.0	12.0	5.2	11.0	3.9	7.0	7.3	15.0
70th	15.0	22.0	12.0	36.0	7.8	9.3	12.0	7.3	15.0	6.7	12.0	5.0	7.4	8.6	16.0
80th	21.0	29.0	15.0	50.0	10.0	13.0	15.0	10.0	19.0	8.5	14.0	5.7	7.6	14.0	18.0
85th	25.0	35.0	20.0	62.0	12.0	15.0	17.0	12.0	23.0	10.0	16.0	13.0	8.8	15.0	18.0
90th	34.0	39.0	22.0	89.0	14.0	17.0	22.0	13.0	23.0	11.0	20.0	15.0	15.0	16.0	20.0
95th	50.0	77.0	30.0	170.0	22.0	30.0	48.0	20.0	27.0	25.0	34.0	31.0	15.0	16.0	20.0
98th	92.0	96.0	38.0	240.0	27.0	43.0	65.0	22.0	27.0	25.0	160.0	34.0	28.0	30.0	140.0
99th	170.0	180.0	45.0	260.0	27.0	43.0	82.0	32.0	28.0	25.0	160.0	34.0	28.0	30.0	140.0
Maximum	470.0	190.0	55.0	470.0	28.0	77.0	82.0	32.0	28.0	25.0	160.0	34.0	28.0	30.0	140.0

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Uranium [U]
Number of Values - 741
Units - ppm
Detection Limit - 0.5
Analytical Method - INAA

URANIUM by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



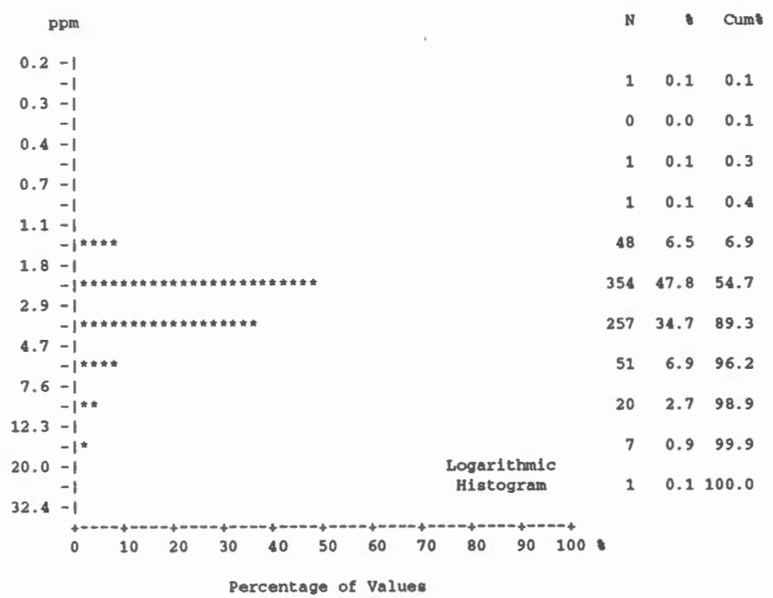
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	728	128	128	93	62	53	43	30	30	28	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	41.5	25.4	29.7	34.5	63.9	61.8	46.1	43.7	33.3	72.8	51.7	68.7	34.3	34.9	27.5
Median	36.0	21.0	25.0	30.0	60.0	64.0	43.0	38.0	35.0	62.0	48.0	58.0	26.0	39.0	23.0
Mode	26.0	5.0	17.0	26.0	53.0	68.0	60.0	20.0	38.0	34.0	45.0	56.0	23.0	39.0	21.0
Range	180	127	108	153	119	101	130	92	90	172	86	118	50	89	25
St Dev	26.91	18.53	19.69	23.12	24.59	22.53	23.18	24.53	20.25	36.97	20.86	30.56	14.71	22.97	8.94
Coef Var	0.648	0.731	0.663	0.670	0.385	0.365	0.503	0.562	0.608	0.508	0.403	0.445	0.429	0.658	0.326
Log Mean	1.524	1.305	1.392	1.456	1.776	1.755	1.610	1.562	1.446	1.806	1.683	1.796	1.499	1.451	1.418
Geo Mean	33.4	20.2	24.7	28.6	59.7	56.9	40.7	36.4	27.9	64.0	48.2	62.5	31.5	28.2	26.2
Log StDv	0.303	0.300	0.268	0.274	0.162	0.192	0.235	0.291	0.270	0.236	0.165	0.196	0.185	0.313	0.138
Log CVar	0.199	0.230	0.193	0.188	0.092	0.109	0.146	0.186	0.187	0.131	0.980	0.109	0.124	0.216	0.097
Percntls															
Minimum	5	5	5	6	22	17	5	5	8	13	24	28	15	7	18
10th	13	7	11	12	38	30	21	18	12	34	28	29	15	7	18
20th	19	11	16	17	43	39	27	23	14	44	33	39	22	12	19
30th	24	14	18	23	50	51	31	26	16	52	36	51	23	18	20
40th	30	18	21	26	55	60	38	31	24	57	45	56	25	26	21
50th	36	21	25	30	60	64	43	38	35	62	48	58	26	39	23
60th	42	24	29	33	65	68	49	49	36	72	49	72	33	39	28
70th	50	29	33	38	70	71	54	52	38	84	55	83	41	41	36
80th	61	36	41	43	78	78	58	66	44	87	63	84	45	43	36
85th	68	40	45	50	81	85	60	67	49	112	73	95	46	43	36
90th	76	46	46	59	88	91	68	75	56	120	74	105	55	47	37
95th	93	58	67	75	117	94	91	90	72	128	90	105	55	47	37
98th	112	73	84	82	133	98	96	96	72	128	110	146	65	96	43
99th	128	88	109	105	133	98	135	97	98	185	110	146	65	96	43
Maximum	185	132	113	159	141	118	135	97	98	185	110	146	65	96	43

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Vanadium [V]
Number of Values - 741
Units - ppm
Detection Limit - 5
Analytical Method - AAS

VANADIUM by AAS (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



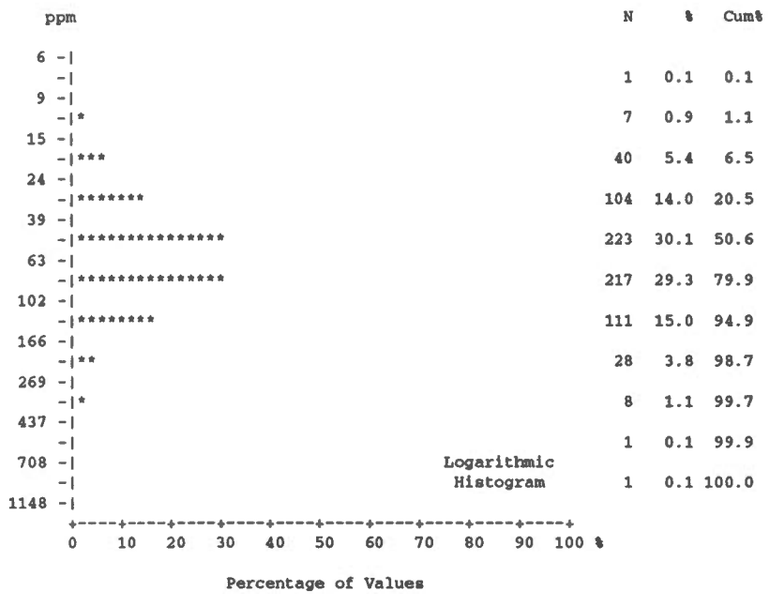
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	740	137	130	93	61	53	44	31	30	28	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	3.24	4.45	3.18	3.24	2.45	2.97	2.62	3.47	3.53	2.76	2.72	2.70	2.94	3.19	2.60
Median	2.70	3.00	2.60	2.90	2.50	3.00	2.50	3.30	3.30	2.40	2.70	2.50	2.70	2.90	2.40
Mode	2.60	2.20	2.40	2.30	2.70	3.00	2.20	3.00	3.10	2.30	2.40	2.50	2.40	2.60	2.10
Range	25.0	23.8	13.4	7.9	5.2	2.8	4.1	4.8	3.1	5.4	3.2	3.2	2.4	2.9	2.3
St Dev	2.03	3.75	1.73	1.31	0.71	0.66	0.95	0.92	0.88	1.09	0.68	0.74	0.74	0.82	0.84
Coef Var	0.624	0.842	0.545	0.404	0.291	0.224	0.361	0.264	0.249	0.395	0.250	0.273	0.253	0.257	0.323
Log Mean	0.463	0.546	0.462	0.481	0.366	0.462	0.387	0.527	0.534	0.418	0.420	0.417	0.454	0.492	0.392
Geo Mean	2.91	3.52	2.90	3.03	2.32	2.90	2.44	3.36	3.42	2.62	2.63	2.61	2.85	3.11	2.46
Log StDv	0.188	0.276	0.173	0.153	0.168	0.096	0.178	0.112	0.108	0.136	0.115	0.118	0.113	0.102	0.155
Log CVar	0.407	0.506	0.375	0.318	0.460	0.209	0.461	0.212	0.202	0.326	0.274	0.283	0.249	0.206	0.397
Percntls															
Minimum	0.2	1.4	1.4	1.5	0.2	1.8	0.6	1.6	2.2	1.7	1.2	1.3	1.7	2.3	1.2
10th	1.9	1.8	1.9	2.0	1.8	2.2	1.3	2.5	2.4	1.8	1.9	2.0	1.7	2.3	1.2
20th	2.2	2.1	2.1	2.3	2.0	2.4	1.8	2.9	2.6	2.1	2.2	2.3	2.4	2.6	1.8
30th	2.4	2.3	2.4	2.4	2.1	2.7	2.2	3.0	3.1	2.2	2.4	2.4	2.4	2.6	1.9
40th	2.5	2.6	2.5	2.6	2.3	2.8	2.4	3.1	3.2	2.3	2.5	2.5	2.7	2.7	2.1
50th	2.7	3.0	2.6	2.9	2.5	3.0	2.5	3.3	3.3	2.4	2.7	2.5	2.7	2.9	2.4
60th	3.0	3.4	2.9	3.2	2.5	3.0	2.6	3.6	3.5	2.6	2.8	2.6	2.9	3.3	3.3
70th	3.3	4.2	3.3	3.6	2.6	3.1	2.9	3.7	3.8	2.9	2.9	2.7	3.1	3.4	3.3
80th	3.8	6.2	3.6	3.9	2.7	3.3	3.6	3.8	4.5	3.0	2.9	2.8	3.5	3.5	3.5
85th	4.1	8.6	4.3	4.3	2.7	3.3	3.7	4.1	4.6	3.2	3.2	3.0	4.0	3.5	3.5
90th	4.7	9.4	5.2	5.0	3.0	3.9	3.9	4.6	4.7	4.0	3.8	3.7	4.0	4.3	3.5
95th	6.2	12.3	6.0	5.6	3.4	4.3	4.4	4.9	5.3	4.5	3.8	4.0	4.0	4.3	3.5
98th	9.4	13.8	7.8	6.5	5.2	4.6	4.5	5.2	5.3	4.5	4.4	4.5	4.1	5.2	3.5
99th	12.6	16.3	9.4	6.8	5.2	4.6	4.7	6.4	5.3	7.1	4.4	4.5	4.1	5.2	3.5
Maximum	25.2	25.2	14.8	9.4	5.4	4.6	4.7	6.4	5.3	7.1	4.4	4.5	4.1	5.2	3.5

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Ytterbium [Yb]
Number of Values - 741
Units - ppm
Detection Limit - 0.2
Analytical Method - INAA

YTTERBIUM by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



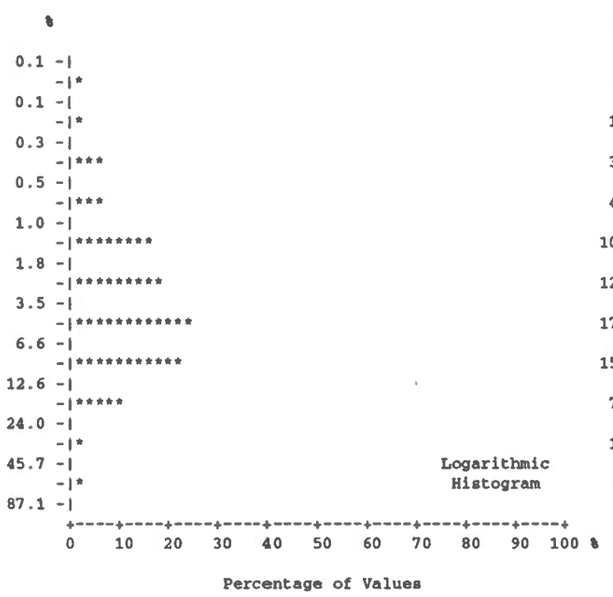
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	76.5	88.0	62.2	54.6	92.1	81.1	81.7	83.0	59.6	126.9	47.5	107.4	66.4	57.1	84.4
Median	63.0	62.0	56.0	47.0	86.0	81.0	63.0	45.0	56.0	101.0	42.0	89.0	67.0	45.0	84.0
Mode	41.0	43.0	24.0	43.0	70.0	67.0	48.0	21.0	24.0	14.0	41.0	66.0	15.0	48.0	60.0
Range	803	793	191	150	222	181	270	346	127	484	57	267	98	258	49
St Dev	59.77	92.06	36.64	29.80	37.07	41.88	54.58	91.99	33.73	85.65	14.73	61.59	30.60	65.99	18.16
Coef Var	0.781	1.047	0.589	0.545	0.403	0.516	0.668	1.108	0.566	0.675	0.310	0.574	0.461	1.156	0.215
Log Mean	1.796	1.823	1.719	1.686	1.934	1.844	1.832	1.732	1.694	2.032	1.653	1.978	1.766	1.604	1.917
Geo Mean	62.5	66.6	52.4	48.5	86.0	69.9	68.0	54.0	49.4	107.6	45.0	95.1	58.4	40.1	82.6
Log StDv	0.273	0.299	0.263	0.209	0.159	0.252	0.266	0.390	0.296	0.264	0.155	0.213	0.250	0.355	0.095
Log CVar	0.152	0.164	0.153	0.124	0.082	0.137	0.145	0.225	0.175	0.130	0.094	0.108	0.141	0.221	0.049
Percntls															
Minimum	7	17	14	16	38	16	16	11	7	14	15	34	15	10	60
10th	28	30	21	28	54	30	30	17	15	58	28	63	15	10	60
20th	38	38	28	36	65	40	44	21	29	80	37	66	36	20	61
30th	45	44	39	39	70	50	48	32	39	88	40	67	44	32	69
40th	55	52	47	43	77	65	60	38	49	95	41	78	50	38	74
50th	63	62	56	47	86	81	63	45	56	101	42	89	67	45	84
60th	73	72	63	53	91	88	78	54	60	123	47	95	69	46	86
70th	87	84	75	58	102	99	90	83	63	141	57	104	85	48	93
80th	103	106	88	69	113	112	107	110	90	154	63	136	90	48	106
85th	113	136	102	75	122	121	124	116	95	177	64	143	94	53	106
90th	134	165	110	80	137	145	157	234	108	178	68	152	112	80	109
95th	166	215	130	112	159	151	178	256	129	204	69	191	112	80	109
98th	237	348	161	154	173	167	227	349	129	204	72	301	113	268	109
99th	301	407	164	158	173	167	286	357	134	498	72	301	113	268	109
Maximum	810	810	205	166	260	197	286	357	134	498	72	301	113	268	109

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Zinc [Zn]
Number of Values - 741
Units - ppm
Detection Limit - 2
Analytical Method - AAS

ZINC by INAA (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



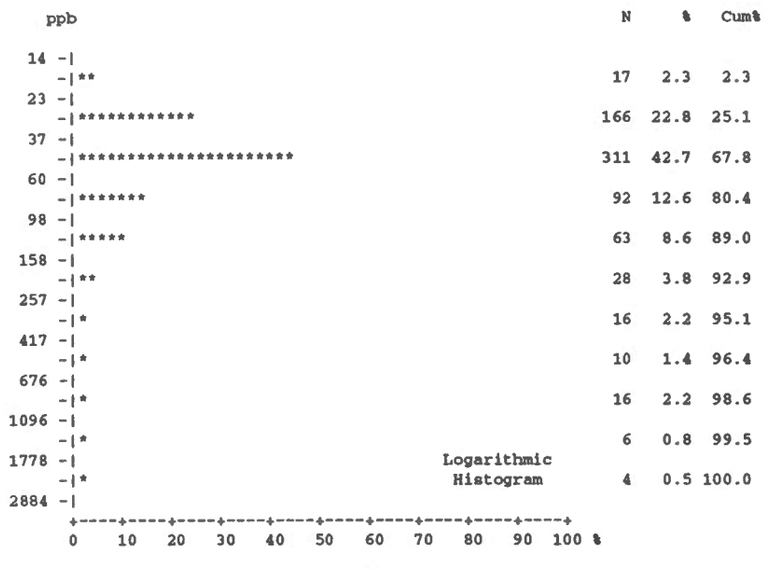
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	741	137	130	93	62	53	44	31	30	28	23	18	14	13	11
N > DL	733	134	128	93	62	52	44	29	30	28	23	18	14	13	11
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	5.85	4.28	3.49	5.73	9.91	7.10	7.54	3.97	2.75	7.85	4.48	8.47	8.36	2.95	3.95
Median	4.00	2.70	2.00	4.10	8.20	5.20	6.70	2.00	2.10	6.60	2.90	7.20	7.60	1.20	3.40
Mode	0.40	0.50	0.20	1.20	8.20	0.70	5.60	1.30	0.80	5.10	1.80	3.90	0.40	1.10	1.60
Range	60.5	33.0	21.0	24.6	30.3	49.5	25.1	18.8	8.5	15.8	15.1	18.2	16.7	16.2	9.5
St Dev	6.10	4.81	3.94	4.71	6.43	7.91	5.38	4.60	2.18	4.66	4.05	4.43	5.48	4.33	2.95
Coef Var	1.042	1.123	1.129	0.822	0.649	1.114	0.713	1.158	0.791	0.594	0.903	0.523	0.656	1.465	0.745
Log Mean	0.539	0.367	0.278	0.597	0.916	0.628	0.750	0.303	0.322	0.811	0.511	0.875	0.762	0.203	0.489
Geo Mean	3.46	2.33	1.90	3.95	8.25	4.25	5.62	2.01	2.10	6.48	3.24	7.50	5.78	1.60	3.08
Log StDv	0.497	0.530	0.520	0.405	0.265	0.487	0.381	0.583	0.324	0.290	0.349	0.223	0.477	0.472	0.325
Log CVar	0.922	1.448	1.869	0.678	0.289	0.775	0.509	1.923	1.011	0.357	0.684	0.255	0.626	2.327	0.664
Percntls															
Minimum	0.1	0.1	0.1	0.4	2.4	0.1	0.4	0.1	0.6	1.1	0.9	2.6	0.4	0.3	1.0
10th	0.7	0.4	0.4	1.2	3.5	1.0	1.2	0.2	0.8	3.0	1.0	3.9	0.4	0.3	1.0
20th	1.3	0.7	0.7	1.8	4.4	1.5	3.3	0.7	0.9	3.7	1.7	5.1	2.8	0.6	1.5
30th	2.0	1.3	1.0	2.2	5.7	2.1	4.3	1.1	1.4	4.1	1.8	5.9	3.1	0.8	1.6
40th	3.0	1.9	1.5	3.1	7.2	3.6	5.6	1.3	1.6	5.1	2.2	6.2	7.3	1.1	1.6
50th	4.0	2.7	2.0	4.1	8.2	5.2	6.7	2.0	2.1	6.6	2.9	7.2	7.6	1.2	3.4
60th	5.4	3.5	2.6	5.7	9.5	6.2	7.6	3.7	2.3	7.1	3.8	8.0	7.7	1.8	3.6
70th	7.0	4.9	4.0	7.5	11.4	8.6	8.8	3.8	2.9	10.0	4.2	9.9	12.1	2.2	4.7
80th	9.4	6.6	5.4	9.4	14.2	10.5	9.8	5.5	4.0	12.9	6.8	11.7	12.9	3.0	6.0
85th	11.2	8.1	7.0	11.4	16.1	13.0	11.0	6.5	4.3	13.8	6.9	11.7	14.3	4.2	6.0
90th	13.4	10.2	9.2	12.9	17.5	15.7	16.7	8.4	5.4	13.9	10.9	12.6	14.7	5.1	7.2
95th	16.5	14.2	11.2	13.9	19.0	16.0	18.1	11.4	7.6	16.7	13.4	13.9	14.7	5.1	7.2
98th	20.8	15.8	15.3	15.5	31.2	20.8	19.6	16.6	7.6	16.7	16.0	20.8	17.1	16.5	10.5
99th	29.9	16.5	18.0	16.0	31.2	20.8	25.5	18.9	9.1	16.9	16.0	20.8	17.1	16.5	10.5
Maximum	60.6	33.1	21.1	25.0	32.7	49.6	25.5	18.9	9.1	16.9	16.0	20.8	17.1	16.5	10.5

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Loss on Ignition [LOI]
Number of Values - 741
Units - %
Detection Limit - 0.1
Analytical Method - GRAV

LOSS ON IGNITION by GRAV (%)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



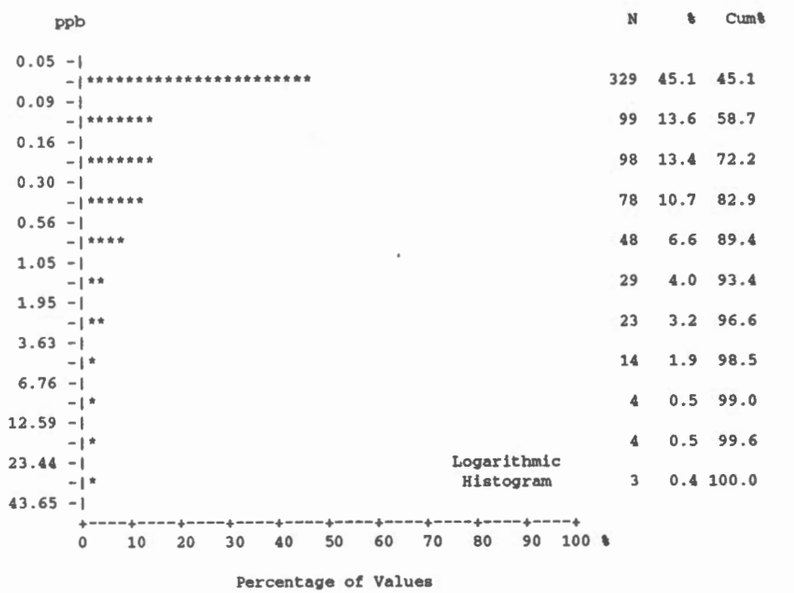
	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	729	136	128	92	60	53	42	31	30	28	23	18	14	13	10
N > DL	712	136	123	90	58	51	41	30	28	28	23	18	14	13	10
Missing	12	1	2	1	2	0	2	0	0	0	0	0	0	0	1
Mean	112.0	284.8	108.5	59.6	45.3	46.0	63.6	61.3	79.3	56.8	36.1	46.1	135.7	41.5	129.0
Median	50.0	90.0	40.0	40.0	40.0	40.0	50.0	50.0	50.0	50.0	30.0	40.0	60.0	40.0	110.0
Mode	30.0	50.0	30.0	30.0	40.0	40.0	50.0	30.0	30.0	40.0	30.0	30.0	50.0	30.0	80.0
Range	2390	2380	1610	290	200	120	220	170	280	130	50	60	1010	60	180
St Dev	238.63	438.85	199.31	46.17	25.87	20.69	40.89	42.41	73.72	31.39	11.58	18.52	263.75	16.25	58.20
Coef Var	2.131	1.541	1.837	0.775	0.571	0.449	0.643	0.692	0.929	0.553	0.321	0.402	1.943	0.391	0.451
Log Mean	1.784	2.107	1.782	1.699	1.622	1.633	1.743	1.715	1.764	1.710	1.542	1.634	1.886	1.596	2.078
Geo Mean	60.8	127.9	60.6	50.0	41.9	43.0	55.3	51.8	58.0	51.3	34.8	43.1	77.0	39.4	119.7
Log StDv	0.368	0.506	0.391	0.235	0.154	0.153	0.218	0.241	0.330	0.185	0.109	0.161	0.348	0.136	0.170
Log CVar	0.206	0.240	0.219	0.138	0.095	0.094	0.125	0.140	0.187	0.108	0.071	0.990	0.184	0.085	0.082
Percntls															
Minimum	20	30	20	20	20	20	20	20	20	30	30	30	40	30	80
10th	30	40	30	30	30	30	30	30	30	30	30	30	40	30	80
20th	30	50	30	30	30	30	40	30	30	40	30	30	50	30	80
30th	40	60	30	40	40	40	40	30	30	40	30	30	50	30	90
40th	40	70	40	40	40	40	50	40	40	40	30	30	50	30	90
50th	50	90	40	40	40	40	50	50	50	50	30	40	60	40	110
60th	60	110	60	50	40	40	60	50	60	50	30	40	70	40	120
70th	70	160	80	60	50	50	60	60	70	60	40	50	80	40	130
80th	90	510	130	80	50	50	80	80	130	60	40	60	90	40	130
85th	120	780	160	80	50	60	90	80	140	80	40	70	90	50	200
90th	160	900	190	110	60	60	110	110	170	80	50	70	90	50	200
95th	390	1120	390	140	70	70	140	130	280	150	50	70	90	50	260
98th	1010	1430	480	150	80	120	160	190	280	150	80	90	1050	90	260
99th	1170	2080	1040	270	80	120	240	190	300	160	80	90	1050	90	260
Maximum	2410	2410	1630	310	220	140	240	190	300	160	80	90	1050	90	260

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Fluoride (waters) [FW]
Number of Values - 729
Units - ppb
Detection Limit - 20
Analytical Method - ION

FLUORIDE by ION (ppb)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



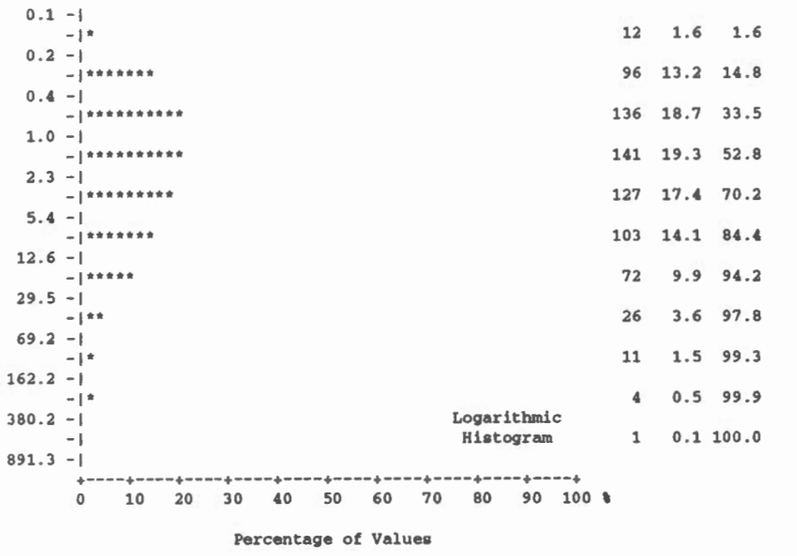
Element Statistics
Variable - Uranium (waters) [UW]
Number of Values - 729
Units - ppb
Detection Limit - 0.05
Analytical Method - LIF

	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	729	136	128	92	60	53	42	31	30	28	23	18	14	13	10
N > DL	429	102	64	79	17	23	25	21	18	11	10	12	13	5	8
Missing	12	1	2	1	2	0	2	0	0	0	0	0	0	0	1
Mean	0.65	0.84	0.23	1.09	0.40	0.35	0.61	0.19	2.81	0.41	0.20	1.66	0.26	0.42	0.36
Median	0.11	0.20	0.05	0.35	0.05	0.05	0.16	0.11	0.11	0.05	0.05	0.09	0.19	0.05	0.16
Mode	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.11	0.05	0.05
Range	25.45	19.95	4.12	19.95	11.65	4.41	6.03	1.00	25.45	4.18	1.47	23.55	0.50	2.65	2.00
St Dev	2.33	2.43	0.55	2.50	1.54	0.82	1.29	0.21	7.16	0.97	0.34	5.50	0.15	0.77	0.61
Coef Var	3.579	2.910	2.368	2.302	3.868	2.334	2.105	1.084	2.553	2.347	1.696	3.323	0.598	1.830	1.708
Log Mean	-0.793	-0.620	-0.979	-0.440	-1.016	-0.949	-0.733	-0.892	-0.627	-0.946	-0.987	-0.686	-0.680	-0.885	-0.779
Geo Mean	0.16	0.24	0.11	0.36	0.10	0.11	0.19	0.13	0.24	0.11	0.10	0.21	0.21	0.13	0.17
Log StDv	0.590	0.600	0.437	0.609	0.534	0.537	0.618	0.381	0.870	0.576	0.438	0.738	0.305	0.629	0.511
Log CVar	-0.744	-0.970	-0.447	-1.385	-0.525	-0.566	-0.845	-0.428	-1.388	-0.609	-0.444	-1.076	-0.448	-0.711	-0.657
Percntls															
Minimum	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
10th	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
20th	0.05	0.05	0.05	0.08	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.11	0.05	0.05
30th	0.05	0.10	0.05	0.18	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.11	0.05	0.06
40th	0.05	0.14	0.05	0.27	0.05	0.05	0.05	0.08	0.05	0.05	0.05	0.08	0.18	0.05	0.06
50th	0.11	0.20	0.05	0.35	0.05	0.05	0.16	0.11	0.11	0.05	0.05	0.09	0.19	0.05	0.16
60th	0.18	0.31	0.10	0.45	0.05	0.08	0.20	0.16	0.17	0.05	0.13	0.21	0.28	0.05	0.19
70th	0.28	0.43	0.13	0.62	0.05	0.13	0.27	0.23	0.31	0.13	0.15	0.39	0.30	0.13	0.27
80th	0.47	0.63	0.23	1.04	0.19	0.25	0.65	0.30	0.82	0.22	0.18	0.39	0.40	0.23	0.29
85th	0.68	1.05	0.30	1.50	0.38	0.36	0.75	0.30	2.50	0.38	0.20	0.80	0.40	1.00	0.37
90th	1.11	1.45	0.42	2.15	0.70	0.64	1.22	0.33	7.00	0.55	0.45	1.36	0.45	1.00	0.37
95th	2.28	2.74	0.80	4.25	1.20	1.58	2.71	0.35	25.30	3.00	0.88	2.16	0.45	1.00	2.05
98th	5.67	6.00	1.36	6.60	2.38	3.17	5.36	0.63	25.30	3.00	1.52	23.60	0.55	2.70	2.05
99th	11.70	17.40	3.95	8.58	2.38	3.17	6.08	1.05	25.50	4.23	1.52	23.60	0.55	2.70	2.05
Maximum	25.50	20.00	4.17	20.00	11.70	4.46	6.08	1.05	25.50	4.23	1.52	23.60	0.55	2.70	2.05

(Summary statistics not calculated for formations with fewer than ten values.)

URANIUM by LIF (ppb)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



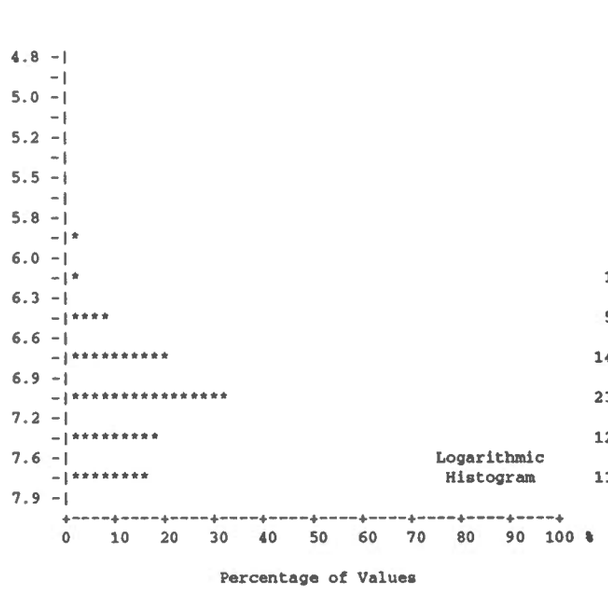
Element Statistics
Variable - Sulphate (waters) [SO4]
Number of Values - 729
Units - ppm
Detection Limit - 0.1
Analytical Method - TURB

	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	729	136	128	92	60	53	42	31	30	28	23	18	14	13	10
N > DL	717	135	124	88	60	53	42	31	27	28	23	18	14	13	10
Missing	12	1	2	1	2	0	2	0	0	0	0	0	0	0	1
Mean	9.10	3.23	1.52	4.08	16.35	15.41	12.89	11.03	9.83	29.80	3.07	43.08	14.28	9.98	2.47
Median	1.80	0.80	0.90	0.90	7.60	6.40	5.10	5.60	1.50	15.00	1.10	11.00	6.10	2.50	1.50
Mode	0.40	0.30	0.40	0.30	12.00	14.00	0.40	1.30	0.10	9.10	0.70	11.00	0.90	1.00	0.90
Range	469.9	175.9	10.9	44.9	209.6	229.7	84.8	66.5	149.9	211.0	14.7	469.6	97.3	91.3	8.1
St Dev	27.41	15.66	1.82	8.33	30.11	34.39	17.84	13.74	28.57	44.02	4.06	109.74	25.84	24.78	2.52
Coef Var	3.014	4.843	1.197	2.040	1.842	2.232	1.384	1.246	2.906	1.477	1.324	2.547	1.810	2.482	1.019
Log Mean	0.364	-0.017	-0.042	0.064	0.914	0.784	0.700	0.721	0.277	1.223	0.189	0.965	0.754	0.465	0.261
Geo Mean	2.31	0.96	0.91	1.16	8.21	6.09	5.01	5.26	1.89	16.72	1.54	9.23	5.67	2.92	1.82
Log StDv	0.680	0.480	0.440	0.644	0.490	0.580	0.680	0.582	0.740	0.441	0.497	0.763	0.593	0.585	0.323
Log CVar	1.869	-29.970	-10.477	10.230	0.536	0.739	0.971	0.807	2.671	0.361	2.643	0.791	0.788	1.258	1.243
Percntls															
Minimum	0.1	0.1	0.1	0.1	0.4	0.3	0.2	0.5	0.1	2.0	0.3	0.4	0.7	0.7	0.9
10th	0.4	0.3	0.2	0.2	2.3	0.8	0.4	0.9	0.1	5.3	0.4	0.5	0.7	0.7	0.9
20th	0.6	0.4	0.4	0.3	3.6	2.5	0.8	1.3	0.5	7.8	0.7	2.3	0.9	1.0	0.9
30th	0.9	0.5	0.5	0.4	5.6	3.3	2.0	1.6	0.8	8.5	0.7	3.0	3.4	1.0	0.9
40th	1.2	0.7	0.7	0.7	6.4	4.7	4.2	2.4	1.1	12.0	0.9	5.9	4.8	1.1	1.4
50th	1.8	0.8	0.9	0.9	7.6	6.4	5.1	5.6	1.5	15.0	1.1	11.0	6.1	2.5	1.5
60th	3.3	1.0	1.0	1.0	9.6	8.4	7.8	11.0	2.9	18.0	1.3	12.0	6.6	3.3	1.6
70th	5.3	1.3	1.4	1.7	12.0	12.0	11.0	13.0	3.2	23.0	1.5	16.0	8.0	4.1	1.9
80th	9.0	1.8	2.3	4.4	15.0	14.0	23.0	18.0	5.1	27.0	4.8	16.0	8.0	6.2	2.2
85th	13.0	2.3	2.7	5.8	21.0	21.0	27.0	19.0	9.2	47.0	7.8	25.0	13.0	6.6	4.4
90th	19.0	3.3	3.8	13.0	34.0	28.0	31.0	21.0	9.5	50.0	8.6	73.0	38.0	9.0	4.4
95th	34.0	5.1	5.4	24.0	57.0	29.0	51.0	25.0	57.0	123.0	12.0	100.0	38.0	9.0	9.0
98th	73.0	23.0	7.2	32.0	86.0	109.0	56.0	37.0	57.0	123.0	15.0	470.0	98.0	92.0	9.0
99th	110.0	42.0	8.7	38.0	86.0	109.0	85.0	67.0	150.0	213.0	15.0	470.0	98.0	92.0	9.0
Maximum	470.0	176.0	11.0	45.0	210.0	230.0	85.0	67.0	150.0	213.0	15.0	470.0	98.0	92.0	9.0

(Summary statistics not calculated for formations with fewer than ten values.)

SULPHATE by TURB (ppm)

STATISTICAL SUMMARY BY GEOLOGICAL FORMATION



	All	eTg	KTg	lKg	lJLg	PPmb	Qal	PPgn	Kg	lJLa	eKt	uTsv	TP	eJgd	Es
N	729	136	128	92	60	53	42	31	30	28	23	18	14	13	10
N > DL	729	136	128	92	60	53	42	31	30	28	23	18	14	13	10
Missing	12	1	2	1	2	0	2	0	0	0	0	0	0	0	1
Mean	7.18	6.97	6.94	7.08	7.46	7.31	7.53	7.31	7.02	7.59	6.89	7.63	7.67	7.18	7.20
Median	7.10	7.00	7.00	7.10	7.40	7.30	7.50	7.40	7.00	7.60	6.80	7.60	7.70	7.10	7.20
Mode	7.10	6.90	6.90	7.10	7.10	7.30	7.30	7.70	7.00	7.60	7.10	7.40	7.90	7.10	7.00
Range	3.3	2.3	1.5	1.9	1.3	2.0	2.2	1.8	1.3	1.2	1.1	1.4	1.3	1.0	0.8
St Dev	0.44	0.37	0.28	0.37	0.33	0.38	0.51	0.44	0.39	0.35	0.32	0.37	0.36	0.29	0.27
Coef Var	0.062	0.053	0.041	0.053	0.045	0.052	0.067	0.060	0.055	0.046	0.047	0.048	0.047	0.041	0.037
Log Mean	0.855	0.843	0.841	0.849	0.872	0.863	0.876	0.863	0.846	0.880	0.838	0.882	0.884	0.856	0.857
Geo Mean	7.17	6.96	6.94	7.07	7.45	7.30	7.51	7.30	7.01	7.58	6.88	7.62	7.66	7.17	7.20
Log StDv	0.027	0.023	0.018	0.023	0.019	0.023	0.030	0.027	0.024	0.020	0.020	0.021	0.021	0.017	0.016
Log CVar	0.032	0.027	0.021	0.027	0.022	0.026	0.034	0.031	0.028	0.023	0.024	0.024	0.023	0.020	0.019
Percntls															
Minimum	5.0	6.0	6.1	6.4	6.9	6.2	6.0	6.3	6.5	7.0	6.4	6.8	7.0	6.8	6.7
10th	6.7	6.5	6.6	6.6	7.1	6.8	6.9	6.5	6.5	7.1	6.4	7.1	7.0	6.8	6.7
20th	6.8	6.7	6.7	6.8	7.1	7.0	7.1	7.0	6.7	7.2	6.6	7.4	7.2	7.0	7.0
30th	7.0	6.8	6.8	6.8	7.2	7.1	7.3	7.0	6.7	7.3	6.6	7.4	7.5	7.0	7.0
40th	7.1	6.9	6.9	7.0	7.3	7.3	7.4	7.2	6.9	7.5	6.7	7.5	7.7	7.1	7.0
50th	7.1	7.0	7.0	7.1	7.4	7.3	7.5	7.4	7.0	7.6	6.8	7.6	7.7	7.1	7.2
60th	7.2	7.1	7.0	7.1	7.5	7.4	7.7	7.6	7.0	7.7	7.0	7.7	7.8	7.1	7.3
70th	7.4	7.1	7.1	7.2	7.6	7.5	7.8	7.6	7.1	7.8	7.1	7.9	7.9	7.1	7.4
80th	7.6	7.2	7.2	7.3	7.7	7.6	8.0	7.7	7.2	7.8	7.1	7.9	7.9	7.2	7.4
85th	7.7	7.3	7.2	7.3	7.8	7.7	8.1	7.7	7.6	7.9	7.2	7.9	7.9	7.4	7.5
90th	7.8	7.4	7.3	7.6	7.9	7.7	8.2	7.7	7.6	8.0	7.3	8.1	7.9	7.7	7.5
95th	8.0	7.6	7.4	7.7	8.1	7.8	8.2	7.7	7.8	8.2	7.5	8.1	7.9	7.7	7.5
98th	8.2	7.9	7.5	8.0	8.2	8.0	8.2	7.8	7.8	8.2	7.5	8.2	8.3	7.8	7.5
99th	8.2	8.0	7.5	8.0	8.2	8.0	8.2	8.1	7.8	8.2	7.5	8.2	8.3	7.8	7.5
Maximum	8.3	8.3	7.6	8.3	8.2	8.2	8.2	8.1	7.8	8.2	7.5	8.2	8.3	7.8	7.5

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - pH [pH]
Number of Values - 729
Units -
Detection Limit - 0.1
Analytical Method - GCE

pH by GCE

BRITISH COLUMBIA REGIONAL GEOCHEMICAL SURVEY

BC RGS 37 - NTS 104M Skagway

APPENDIX D

SAMPLE EVALUATION CHARTS

Notes:

- Threshold values for the 90th, 95th and 98th percentiles were calculated using the *1993 RGS data set* (map sheets 104M, 114O and 114P).
- Thresholds were calculated for lithologies having *10 or more sample sites* .
- Lithologies having *less than 10 sample sites* utilized the following threshold values as determined from the Provincial RGS data set :

INAA Elements (N=10,500) :

Au90	12 ppb	Sb90	1.7 ppm	As90	17 ppm	Hg90	110 ppb	Ag90	0.2 ppm	Cu90	58 ppm
Au95	23 ppb	Sb95	2.5 ppm	As95	26 ppm	Hg95	156 ppb	Ag95	0.3 ppm	Cu95	78 ppm
Au98	56 ppb	Sb98	4.1 ppm	As98	45 ppm	Hg98	255 ppb	Ag98	0.6 ppm	Cu98	110 ppm

AAS Elements (N=34,000) :

Pb90	16 ppm	Zn90	125 ppm		
Pb95	24 ppm	Zn95	162 ppm		
Pb98	40 ppm	Zn98	245 ppm		

- Using the calculated thresholds, individual samples where assigned the following *anomaly ratings*:
  - an anomaly rating of 1 for concentrations >= 90th but < 95th percentile,
  - an anomaly rating of 2 for concentrations >= 95th but < 98th percentile,
  - an anomaly rating of 3 for concentrations >= 98th percentile.
- Samples must report concentrations above the following *base level values* to be included in the sample evaluation charts:

Au (INAA)	10 ppb	Hg (AAS)	50 ppm	Cu (AAS)	10 ppm
Sb (INAA)	0.50 ppm	Ag (AAS)	0.5 ppm	Pb (AAS)	10 ppm
As (AAS)	5 ppm			Zn (AAS)	10 ppm

- Samples must have a *minimum rating of 3 to be included* in the sample evaluation chart.
- Refer to Open File text for a complete discussion on the anomaly rating procedure.

THRESHOLD TABLE

FORM	N	Sb90	Sb95	Sb98	As90	As95	As98	Bi90	Bi95	Bi98	Cd90	Cd95	Cd98	Co90	Co95	Co98	Cu90	Cu95	Cu98	F90	F95	F98	Fe90	Fe95	Fe98
Es	11	0.6	0.6	2.9	18.0	18.0	28.0	0.80	0.80	1.00	0.30	0.30	0.70	8.0	8.0	9.0	16.0	16.0	18.0	590.0	590.0	710.0	2.60	2.60	3.10
KTg	223	0.3	0.5	0.8	6.8	15.0	48.0	0.30	0.40	0.80	0.40	0.60	0.80	11.0	14.0	18.0	33.0	47.0	56.0	610.0	700.0	790.0	2.80	3.50	3.90
Kg	34	4.5	13.5	13.5	19.0	130.0	130.0	4.30	6.40	6.40	1.30	2.00	2.00	12.0	14.0	14.0	62.0	83.0	83.0	530.0	700.0	700.0	2.20	2.80	2.80
PMgn	19	0.2	0.3	0.4	4.2	6.0	15.0	0.30	0.40	0.40	0.30	0.80	1.50	19.0	21.0	32.0	88.0	133.0	152.0	640.0	800.0	880.0	2.90	5.10	5.20
PPgn	33	1.7	2.0	2.0	38.0	43.0	44.0	0.60	0.70	1.60	1.90	2.00	3.20	13.0	16.0	17.0	78.0	80.0	82.0	650.0	650.0	1020.0	2.90	3.30	3.50
PPmb	55	5.2	6.2	14.0	200.0	230.0	310.0	1.30	1.40	1.80	1.10	1.60	2.20	20.0	24.0	26.0	76.0	99.0	103.0	480.0	600.0	700.0	4.20	4.20	5.80
Qal	178	2.4	5.4	24.0	37.0	62.0	730.0	0.50	0.90	2.80	1.20	1.40	3.40	22.0	24.0	35.0	92.0	131.0	216.0	500.0	560.0	640.0	4.20	4.80	5.40
TP	14	2.0	2.0	2.5	29.0	29.0	36.0	0.50	0.50	2.20	0.70	0.70	1.30	14.0	14.0	15.0	45.0	45.0	47.0	500.0	500.0	1440.0	3.30	3.30	3.70
eJgd	16	1.3	1.3	10.5	13.0	13.0	200.0	0.50	0.50	3.60	0.30	0.30	2.50	11.0	11.0	43.0	38.0	38.0	114.0	550.0	550.0	590.0	2.10	2.10	7.20
eKt	25	0.2	0.2	0.7	2.2	2.5	2.9	0.30	0.60	0.60	0.30	0.50	0.80	12.0	15.0	19.0	62.0	102.0	131.0	500.0	500.0	850.0	2.30	2.50	2.50
eTg	143	0.3	0.4	0.7	10.0	16.0	21.0	0.80	1.20	2.30	1.10	2.20	2.80	7.0	9.0	10.0	22.0	48.0	62.0	720.0	1350.0	1680.0	2.00	2.50	3.00
lJLa	30	12.5	14.5	14.5	180.0	300.0	300.0	1.20	2.50	2.50	1.80	1.80	1.80	20.0	29.0	29.0	110.0	130.0	130.0	520.0	520.0	520.0	4.20	5.70	5.70
lJLg	64	3.7	4.5	6.7	74.0	81.0	165.0	0.90	1.40	3.80	1.00	1.10	1.40	17.0	20.0	22.0	66.0	108.0	116.0	410.0	420.0	500.0	4.20	4.40	5.00
lKg	98	2.0	3.2	20.0	40.0	160.0	740.0	1.40	1.80	3.00	0.70	1.00	1.20	11.0	13.0	18.0	39.0	59.0	94.0	510.0	560.0	590.0	2.80	3.30	4.10
uTsv	18	5.6	6.3	7.9	110.0	150.0	230.0	0.70	0.90	1.30	0.70	0.90	1.90	24.0	25.0	25.0	100.0	105.0	187.0	460.0	600.0	660.0	5.20	5.20	5.50

FORM	N	Pb90	Pb95	Pb98	Mn90	Mn95	Mn98	Hg90	Hg95	Hg98	Mo90	Mo95	Mo98	Ni90	Ni95	Ni98	Ag90	Ag95	Ag98	V90	V95	V98	Zn90	Zn95	Zn98
Es	11	32.0	32.0	33.0	698.0	698.0	703.0	40.0	40.0	40.0	5.0	5.0	6.0	7.0	7.0	9.0	0.30	0.30	0.40	37.0	37.0	43.0	109.0	109.0	109.0
KTg	223	16.0	23.0	33.0	445.0	533.0	770.0	40.0	50.0	70.0	5.0	9.0	14.0	21.0	34.0	82.0	0.30	0.40	0.50	80.0	104.0	126.0	110.0	128.0	155.0
Kg	34	28.0	64.0	64.0	507.0	741.0	741.0	40.0	100.0	100.0	6.0	31.0	31.0	16.0	19.0	19.0	0.30	0.50	0.50	56.0	72.0	72.0	108.0	129.0	129.0
PMgn	19	16.0	16.0	18.0	495.0	580.0	621.0	40.0	50.0	50.0	3.0	6.0	8.0	38.0	68.0	76.0	0.30	0.40	0.40	108.0	163.0	194.0	147.0	150.0	201.0
PPgn	33	25.0	27.0	48.0	412.0	464.0	515.0	90.0	100.0	120.0	6.0	6.0	6.0	45.0	45.0	60.0	0.60	0.60	0.70	75.0	90.0	96.0	234.0	256.0	349.0
PPmb	55	34.0	40.0	43.0	780.0	940.0	1260.0	50.0	50.0	70.0	6.0	7.0	12.0	44.0	48.0	51.0	0.60	0.60	0.70	91.0	94.0	98.0	145.0	151.0	167.0
Qal	178	17.0	30.0	53.0	768.0	960.0	1120.0	80.0	120.0	280.0	6.0	9.0	16.0	55.0	69.0	100.0	0.50	0.60	1.20	96.0	134.0	148.0	175.0	236.0	334.0
TP	14	18.0	18.0	59.0	630.0	630.0	1180.0	150.0	150.0	330.0	3.0	3.0	4.0	24.0	24.0	35.0	0.30	0.30	0.30	55.0	55.0	65.0	112.0	112.0	113.0
eJgd	16	21.0	21.0	65.0	365.0	365.0	1650.0	40.0	40.0	70.0	2.0	2.0	7.0	17.0	17.0	62.0	0.20	0.20	0.70	47.0	47.0	96.0	80.0	80.0	268.0
eKt	25	16.0	18.0	27.0	462.0	496.0	602.0	40.0	50.0	160.0	5.0	6.0	16.0	10.0	14.0	15.0	0.20	0.20	0.30	74.0	90.0	110.0	68.0	69.0	72.0
eTg	143	51.0	75.0	107.0	574.0	676.0	768.0	40.0	40.0	60.0	9.0	15.0	22.0	6.0	9.0	15.0	0.40	0.60	1.0	46.0	58.0	73.0	165.0	215.0	348.0
lJLa	30	38.0	45.0	45.0	600.0	764.0	764.0	100.0	130.0	130.0	9.0	17.0	17.0	54.0	59.0	59.0	0.50	0.70	0.70	120.0	128.0	128.0	178.0	204.0	204.0
lJLg	64	30.0	40.0	51.0	805.0	980.0	1340.0	50.0	100.0	120.0	4.0	7.0	9.0	33.0	37.0	50.0	0.60	0.70	0.90	88.0	117.0	133.0	137.0	159.0	173.0
lKg	98	26.0	31.0	39.0	530.0	640.0	830.0	50.0	50.0	50.0	9.0	12.0	18.0	21.0	32.0	40.0	0.50	0.70	1.0	59.0	75.0	82.0	80.0	112.0	154.0
uTsv	18	35.0	46.0	60.0	940.0	1060.0	1310.0	70.0	70.0	160.0	7.0	18.0	18.0	55.0	68.0	177.0	0.40	0.50	0.70	105.0	105.0	146.0	152.0	190.0	301.0

THRESHOLD TABLE

FORM	N	Au90	Au95	Au98	Sb90	Sb95	Sb98	As90	As95	As98	Ba90	Ba95	Ba98	Br90	Br95	Br98	Ce90	Ce95	Ce98	Cs90	Cs95	Cs98	Cr90	Cr95	Cr98
Es	11	9.0	9.0	170.0	1.0	1.0	2.2	15.0	15.0	36.0	2000.0	2000.0	2600.0	6.6	6.6	13.0	120.0	120.0	170.0	7.0	7.0	16.0	25.0	25.0	36.0
KTg	223	6.0	7.0	9.0	0.4	0.6	1.0	8.5	18.0	48.0	1500.0	1600.0	1700.0	12.0	17.0	23.0	160.0	200.0	230.0	4.0	5.0	6.0	75.0	140.0	190.0
Kg	34	7.0	13.0	13.0	6.1	15.0	15.0	25.0	150.0	150.0	1500.0	1700.0	1700.0	5.0	7.1	7.1	150.0	160.0	160.0	5.0	6.0	6.0	99.0	110.0	110.0
PMgn	19	9.0	10.0	10.0	0.4	0.5	0.7	6.3	7.1	16.0	1200.0	1300.0	1500.0	11.0	12.0	26.0	140.0	180.0	220.0	3.0	5.0	6.0	100.0	120.0	240.0
PPgn	33	11.0	18.0	22.0	3.4	3.8	4.0	45.0	50.0	54.0	2000.0	2700.0	3500.0	7.9	8.5	11.0	190.0	190.0	200.0	4.0	5.0	5.0	120.0	120.0	120.0
PPmb	55	37.0	39.0	42.0	7.4	11.0	19.0	190.0	220.0	310.0	1700.0	1800.0	3100.0	20.0	23.0	30.0	110.0	130.0	140.0	8.0	8.0	11.0	200.0	220.0	330.0
Qal	178	17.0	27.0	72.0	3.8	6.6	25.0	33.0	80.0	610.0	1500.0	1700.0	2000.0	16.0	23.0	36.0	84.0	91.0	120.0	6.0	8.0	14.0	190.0	240.0	330.0
TP	14	15.0	15.0	15.0	3.9	3.9	4.0	35.0	35.0	38.0	1800.0	1800.0	2000.0	16.0	16.0	33.0	110.0	110.0	110.0	8.0	8.0	9.0	130.0	130.0	280.0
eJgd	16	30.0	30.0	62.0	6.9	6.9	11.0	15.0	15.0	190.0	1200.0	1200.0	1800.0	7.9	7.9	64.0	110.0	110.0	140.0	5.0	5.0	16.0	140.0	140.0	140.0
eKt	25	9.0	9.0	13.0	0.8	1.0	5.1	3.9	4.6	5.7	2000.0	2000.0	2600.0	21.0	24.0	30.0	130.0	160.0	200.0	4.0	4.0	4.0	76.0	80.0	95.0
eTg	143	8.0	10.0	13.0	0.8	1.2	1.7	12.0	18.0	24.0	1500.0	1700.0	1800.0	17.0	35.0	46.0	150.0	180.0	220.0	5.0	6.0	8.0	39.0	66.0	82.0
lJLa	30	46.0	82.0	82.0	17.0	20.0	20.0	170.0	260.0	260.0	1400.0	1500.0	1500.0	23.0	25.0	25.0	93.0	120.0	120.0	10.0	16.0	16.0	170.0	180.0	180.0
lJLg	64	21.0	25.0	28.0	6.0	6.5	11.0	83.0	92.0	170.0	1300.0	1400.0	1400.0	33.0	37.0	44.0	77.0	85.0	100.0	11.0	13.0	14.0	190.0	210.0	240.0
lKg	98	32.0	44.0	97.0	4.0	5.7	22.0	38.0	150.0	740.0	1400.0	1400.0	1600.0	18.0	21.0	24.0	140.0	160.0	180.0	10.0	13.0	19.0	110.0	130.0	230.0
uTsv	18	33.0	67.0	191.0	12.0	14.0	16.0	95.0	200.0	220.0	1400.0	1400.0	1500.0	18.0	24.0	41.0	95.0	99.0	130.0	12.0	12.0	15.0	280.0	440.0	660.0

FORM	N	Co90	Co95	Co98	Hf90	Hf95	Hf98	Fe90	Fe95	Fe98	La90	La95	La98	Lu90	Lu95	Lu98	Mo90	Mo95	Mo98	N190	N195	N198	Rb90	Rb95	Rb98
Es	11	12.0	12.0	14.0	13.0	13.0	13.0	4.22	4.22	4.51	61.0	61.0	110.0	0.54	0.54	0.56	1.0	1.0	1.0	20.0	20.0	128.0	140.0	140.0	150.0
KTg	223	17.0	19.0	27.0	21.0	27.0	42.0	5.40	6.05	7.21	95.0	110.0	150.0	0.74	0.88	1.07	3.0	6.0	9.0	20.0	60.0	92.0	110.0	120.0	140.0
Kg	34	18.0	19.0	19.0	16.0	17.0	17.0	4.98	5.51	5.51	91.0	93.0	93.0	0.75	0.97	0.97	7.0	25.0	25.0	100.0	140.0	140.0	130.0	160.0	160.0
PMgn	19	33.0	45.0	45.0	19.0	28.0	29.0	7.09	7.76	7.86	82.0	93.0	110.0	0.74	0.80	1.29	2.0	2.0	3.0	20.0	20.0	20.0	71.0	110.0	120.0
PPgn	33	20.0	20.0	21.0	19.0	22.0	24.0	5.19	5.41	5.79	100.0	110.0	120.0	0.77	0.88	0.88	2.0	4.0	6.0	66.0	75.0	93.0	100.0	110.0	130.0
PPmb	55	31.0	32.0	38.0	9.0	11.0	12.0	7.13	7.67	8.78	66.0	69.0	85.0	0.61	0.65	0.70	1.0	1.0	1.0	76.0	83.0	120.0	79.0	84.0	95.0
Qal	178	32.0	35.0	50.0	10.0	11.0	18.0	7.28	8.04	9.03	47.0	53.0	69.0	0.64	0.71	0.86	4.0	4.0	8.0	96.0	120.0	200.0	85.0	100.0	140.0
TP	14	18.0	18.0	26.0	14.0	14.0	23.0	4.80	4.80	6.58	62.0	62.0	69.0	0.68	0.68	0.69	1.0	1.0	5.0	20.0	20.0	60.0	120.0	120.0	130.0
eJgd	16	18.0	18.0	45.0	10.0	10.0	14.0	5.75	5.75	7.90	72.0	72.0	74.0	0.71	0.71	0.82	1.0	1.0	11.0	90.0	90.0	110.0	120.0	120.0	140.0
eKt	25	18.0	25.0	28.0	14.0	16.0	25.0	6.34	7.38	7.58	82.0	97.0	100.0	0.59	0.62	0.63	1.0	1.0	8.0	20.0	20.0	46.0	81.0	83.0	93.0
eTg	143	11.0	13.0	16.0	23.0	32.0	38.0	4.50	5.34	5.83	89.0	95.0	130.0	1.58	1.78	2.23	5.0	12.0	17.0	20.0	43.0	120.0	190.0	220.0	250.0
lJLa	30	24.0	46.0	46.0	10.0	20.0	20.0	5.51	10.30	10.30	62.0	68.0	68.0	0.63	0.68	0.68	6.0	7.0	7.0	76.0	140.0	140.0	110.0	110.0	110.0
lJLg	64	19.0	22.0	25.0	10.0	13.0	15.0	4.83	5.58	6.18	39.0	46.0	56.0	0.47	0.50	0.64	2.0	4.0	5.0	40.0	88.0	120.0	94.0	110.0	140.0
lKg	98	15.0	19.0	22.0	19.0	22.0	27.0	4.68	5.11	5.20	90.0	93.0	120.0	0.86	1.01	1.05	1.0	5.0	6.0	20.0	85.0	110.0	160.0	170.0	180.0
uTsv	18	34.0	34.0	37.0	12.0	13.0	20.0	6.88	8.21	8.28	52.0	55.0	69.0	0.56	0.57	0.73	5.0	7.0	18.0	125.0	130.0	240.0	110.0	120.0	130.0

FORM	N	Sm90	Sm95	Sm98	Sc90	Sc95	Sc98	Na90	Na95	Na98	Ta90	Ta95	Ta98	Tb90	Tb95	Tb98	Th90	Th95	Th98	W90	W95	W98	U90	U95	U98	Yb90	Yb95	Yb98
Es	11	8.0	8.0	19.0	15.0	15.0	15.0	2.70	2.70	2.90	0.9	0.9	1.9	0.7	0.7	2.2	24.0	24.0	27.0	8.0	8.0	11.0	20.0	20.0	140.0	3.50	3.50	3.50
KTg	223	10.0	11.0	13.0	20.0	23.0	29.0	2.99	3.11	3.18	1.6	2.0	2.3	1.2	1.4	1.7	29.0	36.0	46.0	1.0	4.0	8.0	20.0	29.0	38.0	4.40	5.40	6.40
Kg	34	8.1	8.3	8.3	15.0	20.0	20.0	3.15	3.16	3.16	2.3	3.7	3.7	1.2	1.3	1.3	40.0	54.0	54.0	7.0	20.0	20.0	23.0	27.0	27.0	4.70	5.30	5.30
PMgn	19	11.0	11.0	14.0	25.0	30.0	33.0	2.54	2.56	3.18	1.7	2.0	2.8	1.4	1.7	2.0	23.0	42.0	88.0	1.0	3.0	6.0	18.0	20.0	62.0	4.40	5.60	7.10
PPgn	33	8.0	9.7	11.0	18.0	18.0	21.0	2.73	3.00	3.07	1.7	1.7	2.0	1.2	1.2	1.7	37.0	44.0	48.0	2.0	3.0	4.0	13.0	20.0	22.0	4.60	4.90	5.20
PPmb	55	7.1	7.3	8.8	28.0	28.0	31.0	2.86	3.08	3.13	1.5	1.8	2.0	1.0	1.1	1.2	20.0	24.0	33.0	5.0	6.0	6.0	17.0	30.0	43.0	3.90	4.30	4.60
Qal	178	6.2	7.0	7.9	27.0	32.0	39.0	2.68	2.79	3.22	1.3	1.5	1.8	1.0	1.2	1.4	13.0	19.0	28.0	1.0	5.0	12.0	11.0	17.0	40.0	4.20	4.60	5.90
TP	14	7.0	7.0	7.2	17.0	17.0	27.0	2.99	2.99	3.83	1.9	1.9	2.7	1.0	1.0	1.1	24.0	24.0	38.0	4.0	4.0	5.0	15.0	15.0	28.0	4.0	4.0	4.10
eJgd	16	8.0	8.0	8.8	21.0	21.0	22.0	3.06	3.06	3.20	3.6	3.6	4.1	1.5	1.5	1.6	40.0	40.0	44.0	5.0	5.0	8.0	16.0	16.0	30.0	4.30	4.30	5.20
eKt	25	7.7	8.8	13.0	25.0	26.0	26.0	3.01	3.04	3.35	1.2	1.2	1.5	1.0	1.0	1.2	27.0	28.0	49.0	3.0	4.0	5.0	20.0	34.0	160.0	3.80	3.80	4.40
eTg	143	12.0	13.0	14.0	13.0	16.0	18.0	3.01	3.16	3.33	2.4	2.7	3.2	2.1	2.4	2.9	42.0	50.0	53.0	5.0	9.0	11.0	39.0	77.0	96.0	9.40	12.30	13.80
lJLa	30	6.3	8.7	8.7	18.0	19.0	19.0	2.52	2.72	2.72	1.1	1.2	1.2	0.8	1.0	1.0	17.0	35.0	35.0	5.0	8.0	8.0	11.0	25.0	25.0	4.0	4.50	4.50
lJLg	64	5.2	5.8	6.3	18.0	20.0	21.0	2.64	2.80	2.94	1.2	1.4	1.9	0.9	1.0	1.1	16.0	19.0	22.0	4.0	8.0	12.0	14.0	22.0	27.0	3.0	3.40	5.20
lKg	98	8.4	9.4	9.9	14.0	18.0	20.0	3.15	3.25	3.40	3.5	4.1	5.3	1.2	1.4	1.6	52.0	60.0	66.0	9.0	13.0	22.0	89.0	170.0	240.0	5.0	5.60	6.50
uTsv	18	5.8	7.3	9.4	25.0	25.0	26.0	2.17	2.18	2.26	0.8	0.9	1.4	0.7	0.8	1.2	14.0	21.0	21.0	1.0	4.0	8.0	15.0	31.0	34.0	3.70	4.0	4.50

BASE METAL SAMPLE EVALUATION CHART

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	Cu AAS	Pb AAS	Zn AAS	Ag AAS	RATING	0 10 20 |____|____|	Cu	Pb	Zn	Ag
104M11	921010	8	494855	6617410		6	eTg	12	61	287	0.3	3	|**		1	2	
104M08	921019	8	553575	6569900		6	lTgd	36	18	237	0.2	3	|**		1	2	
104M08	921033	8	536858	6585659		6	Kg	16	64	108	0.2	4	|**		3	1	
104M13	921097	8	469308	6638315		6	eTg	4	37	810	0.5	3	|**			3	
104M13	921098	8	467171	6642713		6	eTg	8	83	132	0.6	4	|**		2		2
104M13	921099	8	466430	6644635		6	eTg	48	14	256	0.4	4	|**	2		2	
104M13	921108	8	464048	6642610		6	KTg	15	19	148	0.4	3	|**		1	2	
104M13	921110	8	464486	6645783		1	KTg	31	38	164	0.4	6	|***		3	3	
104M13	921111	8	465448	6647108		6	eTg	21	69	215	0.4	3	|**		1	2	
104M13	921112	8	465487	6648553		1	eTg	18	120	203	0.8	6	|***		3	1	2
104M13	921113	8	459111	6644783		6	KTg	37	21	205	0.4	5	|***	1	1	3	
104M13	921115	8	456828	6647627		6	KTg	11	20	133	0.2	3	|**		1	2	
104M08	923010	8	540390	6572953		6	PPgn	78	75	234	0.6	7	|****	1	3	1	2
104M08	923017	8	535974	6576212		6	PPgn	70	48	120	0.4	3	|**		3		
104M10	923024	8	527042	6596892		6	PPmb	103	43	105	0.3	6	|***	3	3		
104M10	923027	8	521309	6608177		6	eTg	62	13	40	0.2	3	|**	3			
104M01	923043	8	556462	6556814		6	lTh	135	7	68	0.3	3	|**	3			
104M01	923044	8	541315	6564845		6	PPgn	82	20	357	0.7	9	|*****	3		3	3
104M10	923049	8	523491	6613059		6	eJh	57	34	126	0.2	3	|**		2	1	
104M10	923053	8	522522	6613344		6	eJh	65	26	113	0.2	3	|**	1	2		
104M14	923070	8	485407	6648944		6	Es	12	28	109	0.2	3	|**			3	
104M14	923084	8	476331	6646907		6	KTg	6	37	125	0.2	4	|**		3	1	
104M13	923086	8	471241	6650606		6	eTg	27	72	252	1.6	7	|****	1	1	2	3
104M13	923087	8	468855	6650630		6	eTg	17	97	187	0.6	5	|***		2	1	2
104M14	923094	8	486002	6638086		6	KTg	8	85	122	0.5	4	|**		3	1	
104M16	923110	8	536035	6626195		6	lKg	96	23	53	0.2	3	|**	3			
104M10	923113	8	523554	6617953		6	PPmb	43	27	108	0.7	3	|**				3
104M15	923119	8	513367	6626691		6	lKg	104	35	166	0.7	10	|*****	3	2	3	2
104M11	923134	8	491897	6618880		6	eTg	12	61	140	0.7	3	|**		1		2
104M10	923142	8	511843	6607111		6	KTg	92	8	58	0.2	3	|**	3			
104M09	923174	8	543512	6601262		6	lJLg	37	12	173	0.7	5	|***			3	2
104M09	923182	8	554855	6617502		6	TP	34	59	112	0.3	5	|***		3	2	
104M10	923190	8	516958	6618410		6	eJh	131	23	134	0.2	5	|***	3	1	1	
104M15	923196	8	511736	6629401		6	PPmb	60	43	145	0.6	6	|***		3	1	2
104M15	923200	8	508361	6637761		6	lJLa	140	74	498	0.8	12	|******	3	3	3	3
104M15	923205	8	508569	6643081		6	lmJv	83	30	95	0.5	4	|**	2	2		
104M15	923208	8	527255	6648736		6	TP	47	8	113	0.2	6	|***	3		3	
104M15	923225	8	500849	6639839		6	lKg	4	33	75	0.8	4	|**		2		2
104M15	923226	8	501727	6641655		6	lKg	9	127	133	5.0	8	|****		3	2	3
104M15	923227	8	502410	6642972		6	lKg	15	20	87	1.0	4	|**			1	3

BASE METAL SAMPLE EVALUATION CHART

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	Cu AAS	Pb AAS	Zn AAS	Ag AAS	RATING	0 10 20 |____|____|	Cu	Pb	Zn	Ag
104M15	923242	8	513388	6644267		6	lKg	37	39	107	0.5	4	|**		3	1	
104M15	923244	8	514859	6645666		6	lKg	63	30	112	0.2	5	|***	2	1	2	
104M15	923246	8	518241	6649144		6	lJLg	14	11	54	12.0	3	|**				3
104M15	923252	8	525276	6647892		6	TP	45	18	67	0.3	4	|**	2	2		
104M15	923263	8	513997	6637901		6	lJLg	48	88	140	0.5	4	|**		3	1	
104M15	923269	8	513876	6639548		6	uTsv	87	60	101	0.3	3	|**		3		
104M15	923273	8	519721	6643410		6	lJLg	47	51	113	0.7	5	|***		3		2
104M08	925003	8	546281	6572792		6	PPgn	100	11	256	0.4	5	|***	3		2	
104M08	925004	8	544652	6572937		6	PPgn	80	9	349	0.6	7	|****	2		3	2
104M08	925010	8	538744	6574352	10	6	eJgd	32	21	80	0.2	4	|**		2	2	
104M10	925039	8	526567	6596627		6	PPmb	60	45	65	0.5	3	|**		3		
104M10	925054	8	525670	6604943		6	eKt	49	27	64	0.2	3	|**		3		
104M10	925056	8	523812	6601115		6	eKt	131	18	72	0.2	8	|****	3	2	3	
104M10	925060	8	518687	6606761		6	eTg	65	13	45	0.2	3	|**	3			
104M10	925062	8	519006	6605141		6	eTg	69	14	41	0.2	3	|**	3			
104M09	925070	8	531911	6618753		6	lJLg	116	10	90	0.2	3	|**	3			
104M01	925083	8	551932	6558501		6	uTs	118	2	41	0.2	3	|**	3			
104M01	925084	8	555808	6552801		6	lThg	113	2	58	0.3	3	|**	3			
104M01	925088	8	556895	6565260		6	lTgd	278	9	59	5.2	6	|***	3			3
104M01	925090	8	543919	6566119		6	PPgn	50	4	38	1.4	3	|**				3
104M01	925095	8	547306	6567247		6	Kg	118	28	134	0.5	7	|****	3	1	3	
104M15	925103	8	525228	6630718		6	Qal	92	30	167	0.6	5	|***	1	2		2
104M15	925104	8	524772	6631261		1	lJLg	108	25	260	0.5	5	|***	2		3	
104M15	925110	8	523311	6639649		6	eTg	36	75	152	0.3	3	|**	1	2		
104M15	925111	8	521873	6639695		6	lJLg	132	51	160	0.9	11	|******	3	3	2	3
104M15	925120	8	516992	6630188		6	uTsv	187	19	89	0.5	3	|**	3			
104M15	925122	8	516051	6631720		6	uTsv	100	46	301	0.7	9	|*****	1	2	3	3
104M14	925127	8	488617	6650860		6	Es	18	33	106	0.3	6	|***	3	3		
104M14	925128	8	483753	6648141		6	Es	16	32	84	0.2	4	|**	2	2		
104M14	925129	8	481701	6649262		6	Es	9	22	109	0.2	3	|**			3	
104M14	925132	8	479808	6645931		6	KTg	12	24	110	0.4	3	|**		2	1	
104M13	925138	8	469455	6650381		6	eTg	33	175	199	1.2	8	|****	1	3	1	3
104M14	925140	8	480880	6641034		6	KTg	5	23	117	0.2	3	|**		2	1	
104M14	925147	8	477194	6638107		6	KTg	9	26	164	0.2	5	|***		2	3	
104M14	925148	8	474811	6639316		6	eTg	12	45	186	0.9	3	|**			1	2
104M14	925162	8	478836	6626826		6	eTg	52	107	386	1.0	11	|******	2	3	3	3
104M08	925191	8	539096	6590409		6	eJgd	114	65	268	0.7	12	|******	3	3	3	3
104M16	925226	8	529926	6624049		6	lJLa	130	13	177	0.4	3	|**	3			
104M10	925230	8	520608	6623504		6	PPmb	76	40	152	0.8	8	|****	1	2	2	3
104M15	925231	8	518542	6624143		6	PPmb	183	19	116	0.6	5	|***	3			2

BASE METAL SAMPLE EVALUATION CHART

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	Cu AAS	Pb AAS	Zn AAS	Ag AAS	RATING	0 10 20 |____|____|	Cu	Pb	Zn	Ag
104M15	925233	8	516057	6626102		6	PPmb	82	22	197	0.6	6	|***	1		3	2
104M14	925242	8	490724	6625953		6	eTg	18	92	165	1.0	6	|***		2	1	3
104M11	925257	8	494989	6608318		6	PMgn	8	18	75	0.2	3	|**		3		
104M14	925271	8	500361	6649782		6	Kg	83	165	129	3.0	12	|******	3	3	3	3
104M14	925315	8	495026	6649992		6	PMgn	50	16	147	0.4	3	|**		2	1	
104M08	925320	8	543226	6595145		6	lJLa	41	45	178	0.6	5	|***		3	1	1
104M10	925335	8	516533	6615855		6	PPmb	74	36	167	0.6	6	|***		1	3	2
104M10	925342	8	515671	6619462		6	PPmb	51	34	99	0.6	3	|**		1		2
104M15	925345	8	512187	6627891		6	lKg	56	26	102	0.6	4	|**	1	1	1	1
104M15	925348	8	509354	6637724		6	Qal	180	62	178	1.2	9	|*****	2	3	1	3
104M15	925349	8	508160	6638211		6	Qal	230	39	227	1.2	9	|*****	3	2	1	3
104M15	925350	8	507065	6638298		6	Qal	130	76	286	1.3	9	|*****	1	3	2	3
104M15	925352	8	507389	6635202		6	lJLa	44	29	169	0.7	3	|**				3
104M15	925354	8	507058	6635129		6	lKg	33	28	154	0.3	4	|**		1	3	
104M15	925362	8	503408	6641593		6	lKg	43	18	158	0.7	6	|***	1		3	2
104M15	925363	8	503216	6640917		6	lKg	94	65	135	1.4	11	|******	3	3	2	3
104M15	925365	8	504494	6643345		6	lmJv	29	115	136	2.3	7	|****		3	1	3
104M15	925367	8	506732	6645108	10	6	lJLa	44	20	204	0.2	3	|**			3	
104M15	925374	8	511855	6649523		6	Kgm	28	47	112	0.3	3	|**		3		
104M15	925384	8	510664	6641317		6	lJLg	116	21	91	0.6	4	|**	3			1
104M16	925411	8	553845	6628553		6	eTg	71	12	62	0.2	3	|**	3			
104M13	925444	8	452250	6641111		6	KTg	35	15	161	0.4	4	|**	1		3	
104M13	925451	8	470498	6635315		6	eTg	14	59	348	0.2	4	|**		1	3	
104M13	925456	8	465012	6645259		6	KTg	11	18	127	0.6	5	|***		1	1	3
104M13	925467	8	465119	6643141		6	KTg	16	28	107	0.9	5	|***		2		3
104M13	925468	8	464320	6646621		6	KTg	15	33	104	0.7	6	|***		3		3
104M13	925469	8	464138	6649331		6	KTg	16	25	115	0.2	3	|**		2	1	
104M13	925470	8	465378	6647928		6	eTg	43	186	407	0.5	7	|****	1	3	3	
104M13	925475	8	454984	6649718		1	KTg	25	23	130	0.2	4	|**		2	2	

PRECIOUS METAL SAMPLE EVALUATION CHART

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	Au INAA	Sb INAA	As INAA	Hg AAS	Ag AAS	RATING	0 10 20 |____|____|	Au	Sb	As	Hg	Ag
104M15	921004	8	511403	6633687		1	lTg	363	7.5	160.0	40	0.2	9	|*****	3	3	3		
104M15	921005	8	511731	6634893	10	6	lTg	30	10.0	140.0	30	0.2	8	|****	2	3	3		
104M15	921006	8	511731	6634893	20	6	lTg	94	10.0	170.0	30	0.2	9	|*****	3	3	3		
104M15	921007	8	511483	6636437		6	PPmb	15	22.0	190.0	50	0.4	4	|**		3	1		
104M11	921009	8	496793	6619668		6	eTg	5	0.2	0.5	70	0.2	3	|**				3	
104M08	921018	8	555733	6570515		6	uTsv	2	14.0	25.0	160	0.2	5	|***		2		3	
104M08	921019	8	553575	6569900		6	lTgd	5	27.0	28.0	340	0.2	8	|****		3	2	3	
104M08	921020	8	551132	6570809		6	lTgd	2	19.0	17.0	50	0.2	4	|**		3	1		
104M08	921031	8	532394	6586983		6	Kg	13	1.1	0.5	20	0.2	3	|**	3				
104M08	921050	8	545433	6582478		6	uTss	8	16.0	30.0	90	0.2	5	|***		3	2		
104M08	921053	8	549981	6583177		6	lKgd	2	4.9	24.0	30	0.2	4	|**		3	1		
104M16	921058	8	547333	6639443		6	MTCl	15	5.6	28.0	210	0.2	8	|****	1	3	2	2	
104M16	921065	8	554520	6624740		6	MTCl	6	3.3	28.0	70	0.2	4	|**		2	2		
104M09	921067	8	551436	6620031		6	lJLg	6	2.9	20.0	220	0.2	3	|**				3	
104M12	921078	8	450169	6622970		6	KTg	17	0.2	3.2	20	0.2	3	|**	3				
104M13	921098	8	467171	6642713		6	eTg	2	0.3	15.0	20	0.6	3	|**			1		2
104M13	921112	8	465487	6648553		1	eTg	35	0.6	18.0	20	0.8	7	|****	3		2		2
104M15	923002	8	511011	6640149		6	lJLg	9	11.0	200.0	30	0.3	6	|***		3	3		
104M15	923003	8	512329	6643081		6	lKg	97	4.4	31.0	30	0.2	4	|**	3	1			
104M09	923005	8	533156	6600568		6	PPmb	42	0.6	4.4	20	0.2	3	|**	3				
104M08	923017	8	535974	6576212		6	PPgn	179	1.3	50.0	30	0.4	5	|***	3		2		
104M10	923026	8	518176	6603925		6	eKt	13	0.3	1.8	50	0.2	3	|**	3				
104M01	923043	8	556462	6556814		6	lThg	26	18.0	32.0	600	0.3	10	|*****	2	3	2	3	
104M01	923044	8	541315	6564845		6	PPgn	22	3.4	42.0	50	0.7	7	|****	3	1			3
104M15	923048	8	527980	6628716		6	lJLg	330	2.1	25.0	40	0.2	3	|**	3				
104M10	923049	8	523491	6613059		6	eJh	2	3.1	22.0	50	0.2	3	|**		2	1		
104M01	923050	8	550162	6565718		6	Kg	2	12.0	25.0	70	0.2	3	|**		1	1	1	
104M01	923052	8	548444	6567377		6	Kg	2	6.1	32.0	100	0.3	5	|***		1	1	3	
104M10	923055	8	524059	6613668		6	eJh	8	8.5	130.0	60	0.3	6	|***		3	3		
104M01	923057	8	546978	6557659	10	6	eJgd	62	1.4	15.0	40	0.2	5	|***	3		2		
104M01	923060	8	556731	6562007		6	lTgd	2	2.8	21.0	30	0.2	3	|**		2	1		
104M13	923086	8	471241	6650606		6	eTg	2	0.7	14.0	40	1.6	4	|**			1		3
104M13	923087	8	468855	6650630		6	eTg	2	0.6	27.0	30	0.6	5	|***			3		2
104M16	923110	8	536035	6626195		6	lKg	5	4.9	6.4	70	0.2	4	|**		1		3	
104M10	923113	8	523554	6617953		6	PPmb	25	15.0	150.0	30	0.7	5	|***		2			3
104M10	923115	8	521349	6619972		6	PPmb	5	5.8	310.0	40	0.2	3	|**			3		
104M15	923119	8	513367	6626691		6	lKg	32	34.0	740.0	50	0.7	9	|*****	1	3	3		2
104M09	923174	8	543512	6601262		6	lJLg	18	4.5	83.0	120	0.7	6	|***			1	3	2
104M09	923180	8	554007	6615388		6	lKg	2	1.2	6.9	100	0.2	3	|**				3	
104M09	923182	8	554855	6617502		6	TP	15	3.5	9.1	70	0.3	3	|**	3				

PRECIOUS METAL SAMPLE EVALUATION CHART

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	Au INAA	Sb INAA	As INAA	Hg AAS	Ag AAS	RATING	0 10 20 |____|____|	Au	Sb	As	Hg	Ag
104M10	923190	8	516958	6618410		6	eJh	6	2.1	46.0	50	0.2	4	|**		1	3		
104M08	923193	8	554998	6589453		6	lKgd	6	5.2	57.0	40	0.2	6	|***		3	3		
104M10	923195	8	513390	6623020		6	lKg	63	5.7	95.0	40	0.2	5	|***	2	2	1		
104M15	923196	8	511736	6629401		6	PPmb	13	7.2	190.0	50	0.6	3	|**			1		2
104M15	923197	8	509785	6629061		6	lKg	125	1.3	25.0	40	0.2	3	|**	3				
104M15	923200	8	508361	6637761		6	lJLa	81	71.0	3200.0	80	0.8	10	|*****	1	3	3		3
104M15	923205	8	508569	6643081		6	lmJv	34	35.0	510.0	40	0.5	8	|****	2	3	3		
104M15	923210	8	527181	6649136		6	TP	2	3.9	23.0	330	0.2	5	|***		2		3	
104M16	923213	8	531005	6639452		6	eTg	2	0.8	5.5	60	0.2	4	|**		1		3	
104M16	923214	8	528591	6639029		6	eTg	2	1.2	14.0	40	0.2	3	|**		2	1		
104M16	923215	8	527950	6638897		6	eTg	2	0.8	18.0	30	0.2	3	|**		1	2		
104M15	923226	8	501727	6641655		6	lKg	17	1.3	96.0	50	5.0	4	|**			1		3
104M15	923227	8	502410	6642972		6	lKg	16	1.2	48.0	50	1.0	4	|**			1		3
104M15	923230	8	504772	6644251		6	PPmb	53	6.9	69.0	80	0.4	6	|***	3			3	
104M15	923233	8	506366	6649260		6	eTg	8	4.6	30.0	30	0.5	6	|***		3	3		
104M15	923234	8	508427	6650054		6	lJLa	6	19.0	110.0	210	0.2	4	|**		1		3	
104M15	923236	8	514127	6649542		6	Qal	19	6.6	60.0	30	0.2	4	|**	1	2	1		
104M15	923240	8	512116	6650276		6	uTsv	67	12.0	220.0	70	0.4	8	|****	2	1	3	2	
104M15	923242	8	513388	6644267		6	lKg	208	9.6	200.0	30	0.5	7	|****	3	2	2		
104M15	923246	8	518241	6649144		6	lJLg	2	0.9	3.0	30	12.0	3	|**					3
104M15	923251	8	523245	6646558		6	Qal	116	3.8	22.0	50	0.2	4	|**	3	1			
104M15	923252	8	525276	6647892		6	TP	11	4.0	38.0	50	0.3	6	|***		3	3		
104M16	923255	8	530353	6646567		6	TP	2	2.3	35.0	150	0.2	4	|**			2	2	
104M16	923258	8	530777	6643790		6	eTg	2	1.7	14.0	30	0.2	4	|**		3	1		
104M08	925003	8	546281	6572792		6	PPgn	2	3.8	62.0	90	0.4	6	|***		2	3	1	
104M08	925004	8	544652	6572937		6	PPgn	4	2.1	18.0	100	0.6	4	|**				2	2
104M08	925007	8	542471	6573139		6	PPgn	8	4.0	31.0	10	0.3	3	|**		3			
104M08	925008	8	541639	6573049		6	PPgn	11	3.4	54.0	10	0.2	5	|***	1	1	3		
104M09	925049	8	554136	6610731		6	MTCs	2	3.4	19.0	60	0.2	3	|**		2	1		
104M10	925054	8	525670	6604943		6	eKt	5	5.1	4.6	160	0.2	6	|***		3		3	
104M10	925055	8	524603	6602426		6	eKt	9	1.0	5.7	10	0.2	5	|***		2	3		
104M10	925068	8	526259	6614653		6	PPmb	14	8.5	220.0	40	0.4	3	|**		1	2		
104M10	925069	8	524964	6614274		6	eJh	8	6.3	38.0	20	0.2	5	|***		3	2		
104M09	925070	8	531911	6618753		6	lJLg	28	1.7	85.0	30	0.2	4	|**	3		1		
104M01	925078	8	547750	6555763		6	PPmb	4	7.4	58.0	40	0.6	3	|**		1			2
104M01	925080	8	544988	6555881		6	PPgn	4	2.5	45.0	120	0.3	4	|**			1	3	
104M01	925084	8	555808	6552801		6	lThg	36	11.0	20.0	130	0.3	7	|****	2	3	1	1	
104M01	925085	8	556757	6555735	10	6	lThg	13	3.7	19.0	100	0.2	4	|**	1	2	1		
104M01	925086	8	556757	6555735	20	6	lThg	6	3.8	19.0	80	0.2	3	|**		2	1		
104M01	925087	8	556219	6558466		6	lThg	6	4.1	22.0	100	0.2	4	|**		3	1		

PRECIOUS METAL SAMPLE EVALUATION CHART

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	Au INAA	Sb INAA	As INAA	Hg AAS	Ag AAS	RATING	0 10 20 |____|____|	Au	Sb	As	Hg	Ag
104M01	925088	8	556895	6565260		6	lThg	18	4.8	31.0	40	5.2	9	|*****	1	3	2		3
104M01	925090	8	543919	6566119		6	PPgn	4	4.3	34.0	170	1.4	9	|*****		3		3	3
104M01	925095	8	547306	6567247		6	Kg	2	31.0	150.0	170	0.5	9	|*****		3	3	3	
104M10	925096	8	526792	6618087		6	uTs	2	3.9	54.0	40	0.2	5	|***		2	3		
104M09	925097	8	528754	6621710		6	lJLa	82	2.6	210.0	40	0.5	4	|**	3		1		
104M15	925102	8	522979	6628581		6	uTss	13	2.3	40.0	50	0.2	4	|**	1	1	2		
104M15	925103	8	525228	6630718		6	Qal	27	5.3	81.0	30	0.6	7	|****	2	1	2		2
104M15	925104	8	524772	6631261		1	lJLg	2	6.0	99.0	10	0.5	3	|**		1	2		
104M15	925109	8	525955	6637634		6	eTg	13	1.1	15.0	40	0.4	5	|***	3	1	1		
104M15	925110	8	523311	6639649		6	eTg	8	1.8	21.0	20	0.3	5	|***		3	2		
104M15	925111	8	521873	6639695		6	lJLg	25	3.7	92.0	50	0.9	7	|****	2		2		3
104M15	925120	8	516992	6630188		6	uTsv	191	12.0	45.0	40	0.5	4	|**	3	1			
104M15	925122	8	516051	6631720		6	uTsv	25	16.0	200.0	30	0.7	8	|****		3	2		3
104M14	925127	8	488617	6650860		6	Es	170	2.2	36.0	10	0.3	9	|*****	3	3	3		
104M14	925132	8	479808	6645931		6	KTg	2	0.6	11.0	20	0.4	3	|**		2	1		
104M13	925138	8	469455	6650381		6	eTg	2	0.5	12.0	10	1.2	4	|**			1		3
104M14	925162	8	478836	6626826		6	eTg	7	0.3	3.6	10	1.0	3	|**					3
104M08	925176	8	553698	6568960		6	lTgd	6	6.3	12.0	80	0.2	3	|**		3			
104M08	925191	8	539096	6590409		6	eJgd	30	11.0	190.0	70	0.7	14	|*******	2	3	3	3	3
104M09	925195	8	546631	6604190		6	lJLg	20	3.8	70.0	100	0.7	4	|**				2	2
104M08	925200	8	549853	6594080		6	lKgd	19	4.0	75.0	80	0.4	6	|***	1	2	3		
104M08	925213	8	550858	6580157		6	lKgd	4	4.5	35.0	20	0.2	5	|***		3	2		
104M10	925227	8	525161	6619054		6	uTs	12	8.3	79.0	40	0.3	7	|****	1	3	3		
104M10	925230	8	520608	6623504		6	PPmb	23	5.8	210.0	40	0.8	4	|**			1		3
104M15	925233	8	516057	6626102		6	PPmb	33	19.0	770.0	50	0.6	8	|****		3	3		2
104M14	925242	8	490724	6625953		6	eTg	7	0.3	3.3	150	1.0	6	|***				3	3
104M11	925250	8	491478	6614835		6	eTg	15	0.3	1.4	10	0.3	3	|**	3				
104M11	925257	8	494989	6608318		6	PMgn	2	0.7	2.5	40	0.2	3	|**		3			
104M14	925271	8	500361	6649782		6	Kg	217	15.0	160.0	20	3.0	12	|******	3	3	3		3
104M10	925272	8	516788	6607025		6	eTg	2	5.6	3.6	80	0.2	6	|***		3		3	
104M10	925275	8	510609	6602493		6	KTg	2	1.0	0.5	10	0.2	3	|**		3			
104M10	925276	8	505563	6603991		6	KTg	3	0.3	1.6	240	0.2	3	|**				3	
104M10	925277	8	504391	6603370	10	6	KTg	2	1.6	1.5	10	0.2	3	|**		3			
104M10	925278	8	504391	6603370	20	6	KTg	2	1.6	0.5	10	0.2	3	|**		3			
104M14	925315	8	495026	6649992		6	PMgn	10	0.5	16.0	20	0.4	3	|**			3		
104M09	925317	8	535880	6609833		6	lJLa	92	1.3	6.8	20	0.2	3	|**	3				
104M09	925318	8	539137	6600294		6	PPmb	39	11.0	45.0	70	0.2	7	|****	2	2		3	
104M09	925331	8	554087	6617285		6	TP	15	2.7	9.8	50	0.2	3	|**	3				
104M09	925332	8	554902	6617960		6	lKtv	12	2.7	36.0	70	0.3	5	|***	1	2	2		
104M15	925345	8	512187	6627891		6	lKg	44	8.3	260.0	20	0.6	7	|****	2	2	2		1

PRECIOUS METAL SAMPLE EVALUATION CHART

MAP	SAMPLE ID	UTM ZONE	UTM EAST	UTM NORTH	STA	MED	FORM	Au INAA	Sb INAA	As INAA	Hg AAS	Ag AAS	RATING	0 10 20 |____|____|	Au	Sb	As	Hg	Ag
104M15	925348	8	509354	6637724		6	Qal	72	18.0	1000.0	960	1.2	14	|*******	3	2	3	3	3
104M15	925349	8	508160	6638211		6	Qal	27	24.0	320.0	40	1.2	9	|*****	2	2	2		3
104M15	925350	8	507065	6638298		6	Qal	61	27.0	670.0	30	1.3	11	|******	2	3	3		3
104M15	925352	8	507389	6635202		6	lJLa	46	6.2	260.0	20	0.7	7	|****	1		3		3
104M15	925354	8	507058	6635129		6	lKg	37	4.7	150.0	20	0.3	4	|**	1	1	2		
104M15	925358	8	505558	6638108		6	Qal	16	28.0	1100.0	20	0.5	6	|***		3	3		
104M15	925362	8	503408	6641593		6	lKg	41	22.0	1100.0	50	0.7	9	|*****	1	3	3		2
104M15	925363	8	503216	6640917		6	lKg	41	69.0	910.0	50	1.4	10	|*****	1	3	3		3
104M15	925364	8	504205	6642828		6	lmJv	41	13.0	1100.0	40	0.5	8	|****	2	3	3		
104M15	925365	8	504494	6643345		6	lmJv	287	140.0	390.0	20	2.3	12	|******	3	3	3		3
104M15	925366	8	505209	6645254		6	PTgd	317	4.3	48.0	20	0.2	9	|*****	3	3	3		
104M15	925367	8	506732	6645108	10	6	lJLa	16	17.0	170.0	110	0.2	3	|**		1	1	1	
104M15	925368	8	506732	6645108	20	6	lJLa	9	17.0	170.0	100	0.2	3	|**		1	1	1	
104M15	925372	8	508726	6650126		6	lJLa	17	20.0	75.0	130	0.3	6	|***		3		3	
104M15	925374	8	511855	6649523		6	Kqm	2	14.0	71.0	40	0.3	6	|***		3	3		
104M15	925376	8	515190	6649462		6	lJLg	9	2.6	30.0	110	0.6	3	|**				2	1
104M15	925384	8	510664	6641317		6	lJLg	22	18.0	170.0	30	0.6	8	|****	1	3	3		1
104M15	925385	8	509372	6645168		6	Qal	47	5.7	48.0	30	0.4	4	|**	2	1	1		
104M15	925387	8	512220	6647712		6	Kqm	11	13.0	100.0	20	0.2	6	|***		3	3		
104M15	925391	8	527323	6643678		6	eTg	150	1.7	24.0	20	0.2	9	|*****	3	3	3		
104M15	925392	8	527029	6643809		6	eTg	4	1.6	24.0	10	0.2	5	|***		2	3		
104M16	925394	8	531299	6648287		6	MTCl	2	1.1	14.0	470	0.2	3	|**				3	
104M16	925405	8	547447	6637261		1	MTCl	8	2.4	17.0	120	0.3	3	|**		1	1	1	
104M16	925406	8	543656	6649905		6	Qal	240	0.8	7.7	30	0.2	3	|**	3				
104M09	925415	8	551834	6620314		6	Qal	19	8.8	49.0	80	0.2	5	|***	1	2	1	1	
104M12	925425	8	453089	6622384		6	KTg	2	0.1	0.5	70	0.4	3	|**				3	
104M12	925430	8	451630	6622525		6	KTg	2	0.3	2.2	70	0.2	3	|**				3	
104M13	925456	8	465012	6645259		6	KTg	2	0.1	0.5	50	0.6	3	|**					3
104M13	925467	8	465119	6643141		6	KTg	6	0.1	3.4	50	0.9	3	|**					3
104M13	925468	8	464320	6646621		6	KTg	7	0.5	3.0	10	0.7	3	|**					3