ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: 2009 Diamond Drilling and Re-Assay

TOTAL COST: 202,247.09

AUTHOR(S): Zhonghua Pan
SIGNATURE(S): 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): MX-4-517 / 9th Sept-08
STATEMENT OF WORK EVENT NUMBER(S)/DATE(S): 4822046, Dec 31st, 2010

YEAR OF WORK: 2009

PROPERTY NAME: Dansey

CLAIM NAME(S) (on which work was done): 528848

COMMODITIES SOUGHT: Copper

MINERAL INVENTORY MINFILE NUMBER(S),IF KNOWN: 092I NE034

MINING DIVISION: Kamloops Mining Division
NTS / BCGS: 092I/10
LATITUDE: ____50_____° __30_____' ___43_____"
LONGITUDE: __120_____° ___53_____' _____17_____" (at centre of work)
UTM Zone: 10 EASTING: 649740 NORTHING: 5597676

OWNER(S): Logan Copper Inc.

MAILING ADDRESS: 216-7198 Vantage Way, Ladner, BC V4G 1K7

OPERATOR(S) [who paid for the work]: Logan Copper Inc.

MAILING ADDRESS: 216-7198 Vantage Way, Ladner, BC V4G 1K7

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. **Do not use abbreviations or codes**)
Copper, Molybdenum, Guichon Batholith, Jurrasic, Fault zone, Chlorite-Quartz alteration, hydrothermal-porphyry

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:
711, 1166, 1585, 1787, 1934, 1935, 2024, 2066, 2114, 2282, 3184, 3459, 4983, 4984, 5065, 5851, 10783, 30458, 31466, 31903

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for …)			
Soil			
Silt			
Rock			
Other Core: 535 Samples assay for gold and 30 Element ICP		528848	$12,998.00
DRILLING (total metres, number of holes, size, storage location)			
Core	370.27m, 2 holes, NQ, stored at Merrit warehouse	528848	$189,249.09
Non-core			
RELATED TECHNICAL			
Sampling / Assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)			
PREPATORY / PHYSICAL			
Line/grid (km)			
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail			
Trench (number/metres)			
Underground development (metres)			
Other			
		TOTAL COST	**$202,247.09**

2009 DIAMOND DRILLING ASSESSMENT REPORT ON THE DANSEY PROJECT

Logan Lake, British Columbia, Canada
Kamloops Mining Division
NTS: 092I/10
Claim Number: 528848
Claim Name: Dansey

Centered at:
UTM Zone 10
649740E 5597676N
NAD 83

or

Latitude: 50°30'43"
Longitude: 120°53'17"

Prepared for

Logan Copper Inc.

216-7198 Vantage Way
Ladner, BC V4G 1K7

Prepared by

Zhonghua Pan, Ph.D

Dated: March 31th, 2011

TABLE OF CONTENT

1. INTRODUCTION

Between October 13th, 2009 and November 15th, 2009 Logan Copper Inc. carried out two NQ sized diamond drilling on the Dansey Claim (tenure number 528848).

The Dansey Project is located on the Logan Copper Property within a historically significant and highly productive mining camp. Industry attention was first brought to the Dansey Project area in the mid 60's shortly after the discovery of the Lornex, Valley and Bethleham pits, which today comprise the Highland Valley Mining complex, located within seven kilometers of the Dansey Project.

Geologically, the Dansey Project area is located on the eastern portion of the Guichon Creek Batholith, a regionally significant Jurassic-age intrusive and the host of 23 developed prospects and past producers including the Lornex and Valley open pits.

2. PROPERTY DESCRIPTION

The entire Logan Copper Property is 100% owned by Logan Copper Inc. There are no encumbrances on the mineral tenures comprising the Logan Copper Property and Dansey Project area other than those normally reserved by the Crown.

The Dansey Project is located on the Logan Coppers Property (Table 2). The registered and 100% beneficial owner of the Logan Copper Property is Logan Copper Inc. The Logan Copper Property consists of 133 contiguous and three noncontiguous, mineral claims, covering approximately 55,012.02 hectares (Figure 1). The Dansey Project area is located near the eastern boundary of the Logan Copper Property and consists of five contiguous mineral claims covering 2,485.58 hectares (Figure 2, Table 1).

The Logan Copper Property has been acquired through a combination of staking and cash purchases between May 22nd, 2008 and December 31st, 2010.

TABLE 1: DANSEY PROJECT TENURES

Dansey Project Area				
Tenure Number	**Claim Name**	**Issue Date**	**Good To Date**	**Area (ha)**
528848	DANSEY	23-Feb-06	27-Mar-13	493.13
528849	DAB	23-Feb-06	27-Mar-13	492.95
580837		9-Apr-08	27-Mar-13	492.94
580838		9-Apr-08	27-Mar-13	513.4
580839		9-Apr-08	27-Mar-13	493.16
			TOTAL	**2485.58**

TABLE 2: LOGAN COPPER PROPERTY TENURES

Logan Copper Property Tenure Numbers												
514175	580839	581002	581016	585318	585376	585387	603867	611443	611563	679143	705633	705644
522351	580973	581003	581018	585319	585378	585388	603868	611444	611583	679148	705635	705645
528848	580979	581005	581019	585320	585379	585390	605002	611445	611603	696823	705636	705646
528849	580984	581006	581022	585321	585380	585391	605003	611446	611623	699924	705637	705647
528955	580989	581008	581024	585322	585381	586826	610183	611463	611643	699946	705638	705648
570172	580992	581009	581026	585323	585382	590554	610203	611483	611663	700064	705639	705649
580823	580997	581011	581027	585324	585383	596226	610223	611503	634304	700065	705640	705650
580830	580998	581012	581028	585325	585384	596301	610243	611504	647463	705630	705641	705651
580837	580999	581014	581030	585374	585385	596302	610244	611523	663644	705631	705642	744623
580838	581000	581015	585317	585375	585386	600351	611423	611543	663657	705632	705643	744722
835235	834163	834164	834165	834166	834167							

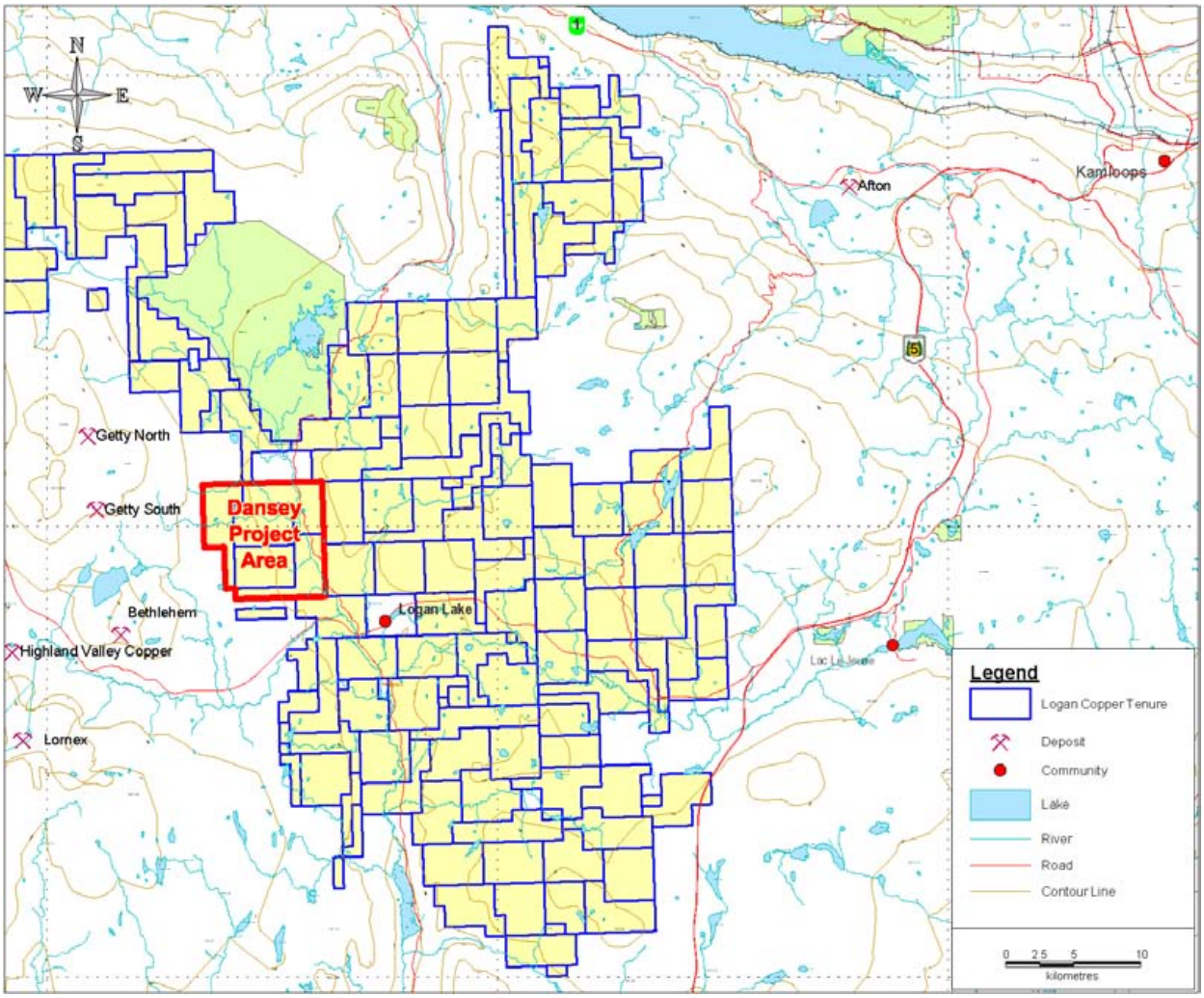

FIGURE 1: LOGAN COPPER PROPERTY TENURE MAP

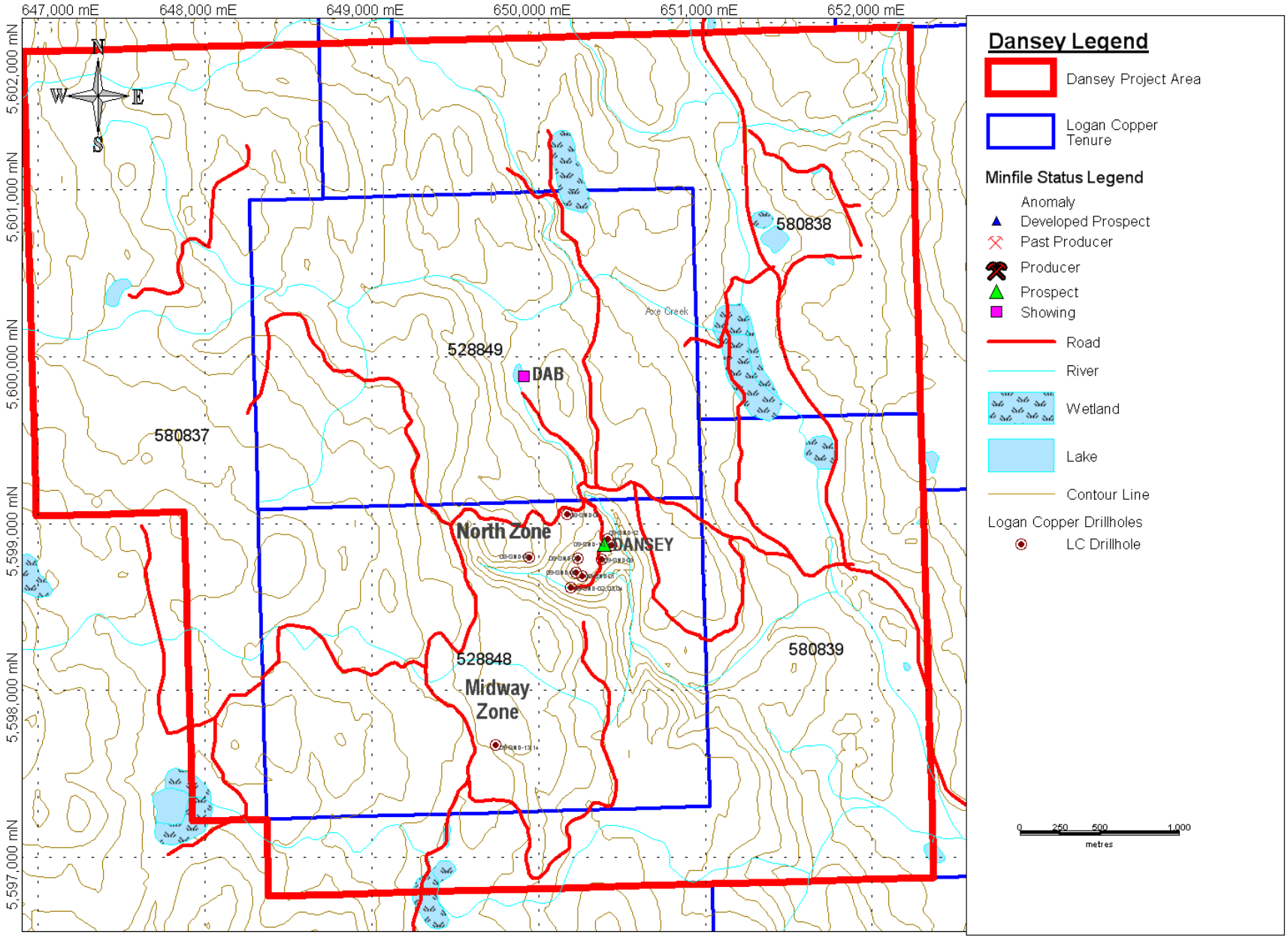

FIGURE 2: DANSEY PROJECT MAP

3. LOCATION

The Logan Copper Property is located in south central British Columbia, Canada (Figure 3). The Property is centered near the community of Logan Lake. This community is situated approximately 48 km north of Merritt, British Columbia and approximately 59km southwest of Kamloops, British Columbia. The property can be accessed by highway 97C from Merritt or highway 5 south from Kamloops to exit 336 turning west on Meadow Creek Rd to Logan Lake.

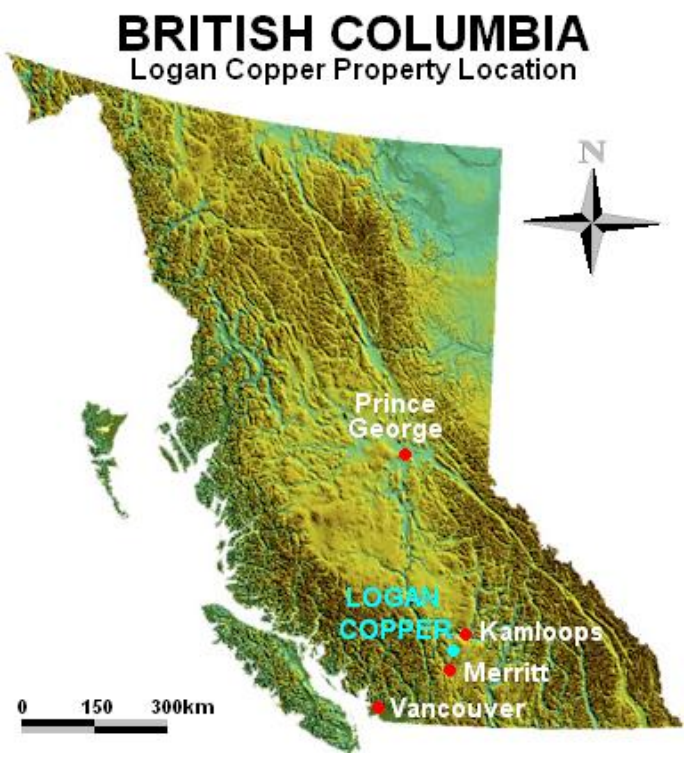

FIGURE 3: LOGAN COPPER LOCATION MAP

The Dansey Project is situated on the eastern edge of the Logan Copper Property and is centered at UTM zone 10 easting 650000 northing 5598300 (NAD 83). The Dansey Project is situated 5.6 km northwest of the community of Logan Lake, and can be accessed using a 4x4 vehicle via paved road and well maintained forestry access road.

4. ACCESS

Starting from the intersection of Meadow Creek road, highway 97C and Tunkwa Lake road in the Community of Logan Lake, the center of the Dansey Project can be accessed by traveling north on Tunkwa Lake road for 4 km, then travel west for 5 km on a well maintained forestry access road.

Portions of the Dansey Project area, recently worked by Logan Copper, can be accessed from approximately March to late November and year round with minimal snow plowing. Other parts of the Project can be access by a well developed network of unmaintained logging and exploration roads which remain in good condition, and numerous unmaintained roads which require minimal rehabilitation.

5. PHYSIOGRAPHY AND CLIMATE

PHOTO 1: DANSEY PROJECT ARE LOOKING SOUTHEAST TO LOGAN LAKE

The property is located in the Thompson Plateau of Southern British Columbia. Topography is generally mild to moderate, with elevations ranging between 1040m to 1380m above sea level within the boundaries five Dansey Project tenures. Photo 1 and Photo 2 exemplify the physiography of Dansey Project area.

Small seasonal creeks flow east draining the area into Guichon Creek, and numerous small swamps and lakes are located throughout the Dansey area tenures. Vegetation comprises of lodgepole pine with sporadic local fir, birch, poplar and spruce surrounding small intermittent open fields and meadows. The general area has been devastated by the Mountain Pine Beetle infestation and much of the property is littered with dead fall.

The local climate is typical of south central British Columbia. Annual temperatures range from 35^{o}C to -40^{o}C. Negative temperatures can be typically expected between late October and late March. Annual precipitation ranges around an average of 30 cm.

PHOTO 2: SOUTHERN DANSEY PROJECT AREA LOOKING NORTH

6. HISTORY

Mining and exploration has played a significant role in the Logan Lake area for well over a century. Heightened industry attention in the Dansey Project area coincided with the first production from the Bethlehem Copper Mine and the discovery of the Valley ore body in the early sixties. In the seventies the Town of Logan Lake was established to facilitate the workforce for the Lornex Mine, which today along with the Valley pit comprises the Highland Valley Mining complex.

Blue chip explorers such as Noranda Exploration Company and Cominco Limited along with half a dozen juniors have conducted exploration programs and identified significant geochemical and geophysical anomalies within the boundaries of the current Dansey Project area tenures. Subsequent historic drilling has intersected significant intervals of copper mineralization in a series of shallow drill percussion drill holes not exceeding 110 meters.

6.1. EXPLORATION HISTORY OF THE DANSEY PROJECT

The first recorded assessment work conducted in the area of the Dansey Project was carried out in 1965. A large geochemical survey was conducted on behalf of New Indian Mines Ltd. ("Indian Mines") and Vananda Explorations Ltd. ("Vananda Explorations") on their Eden mineral claims which partly overlaped the southwest corner of the Dansey Project area. 1507 soil samples were collected at 300 by 200 meter intervals roughly half of which were located on ground currently held by Logan Copper. The samples were tested using the qualitative rubeanic acid method in a field laboratory. "Although the soil samples did not show a pattern of anomalous values that could be contoured, the results were sufficiently encouraging to merit additional work in this area." (ARIS 711)

In 1967 Alwin Mining Company Ltd. ("Alwin") flew a magnetometer survey over their HJ and DAB tenure blocks located along the eastern edge of the Dansey Project tenures. The survey measured 4 by 2.5 miles at approximately 1/8 mile line intervals and covered most of the eastern half and much of the southern half of the current Dansey Project area.

The purpose of the survey was to identify bedrock structure. Richard O. Crosby, P. Eng. inferred the high magnetic anomalies, on the western portion of the survey, as disseminated magnetite within the igneous mass and consequently interpreted the contact zone between the Guichon Creek Batholith and Nicola Volcanics. The contact zone was identified running north northwest from the southeast corner of the current Dansey Project area to the RM MINFILE located north and center of the Dansey project area. This contact zone was interpreted as being intersected by three southwest to northeast running faults with the northern most fault being intersected by a minor fault near the Dab MINFILE area. (ARIS 1166)

In 1968 North Pacific Mines Ltd. (“North Pacific”) began its exploration program over its property, located adjacent to Alwin’s ground. North Pacific flew a large aeromagnetic survey wich stretched across the center and beyond the northwest and southeast corners of the current Dansey Project tenures. The survey consisted of 40 lines averaging 3 miles and spaced at about 545 feet. The author identified four anomalies within the surveyed area, three of which are located within the boundaries of the Dansey project area. (ARIS 1585)

In late 1968 Alwin followed up their earlier aeromagnetic survey with geochemical work. 911 soil samples were collected and shipped to Technical Service Laboratories in Vancouver for analysis. The survey indicated a single, >100 ppm, 150 by 1100 foot anomaly trending and open to the northwest. The anomaly is located approximately 800m northeast of the Dab MINFILE. (ARIS 1787)

Following its aeromagnetic survey, North Pacific optioned out the property to Thermochem Industries Ltd. which had a working agreement with Noranda Exploration Company (“Noranda”). That year Noranda conducted a comprehensive geochemical survey covering nearly the entire North Pacific property group. Samples were taken from multiple soil horizons and analyzed for copper and molybdenum. Results are summarized in assessment reports 1934, 1935 and 2066. While molybdenum results were relatively muted the survey identified a large area of geochemical copper anomalies ranging from 100ppm to 1600ppm. An 800m diameter area of >300ppm anomalies (“Noranda’s Central Geochemical Anomaly”) was identified centered near the Dansey MINFILE showing. Numerous smaller anomalies in the surrounding area were located as far as 3.8km from the Noranda’s Central Geochemical Anomaly.

Concurrently, Comet-Krain Mining Corp. (“Comet Mining”) carried out its own geochemical survey southeast of North Pacific’s ground. This survey indicated low order but discreet geochemical copper anomalies. Results from this survey were similar in magnitude and position to anomalies surrounding Noranda’s Central Geochemical Anomaly, identified by Noranda the same year. (ARIS 2024)

In late 1969 large portions of the Dansey project area were subjected to induced polarization (“IP”) surveys.

Indian Mines and Vananda Explorations commissioned an IP on its Eden property. North-south cut lines were located 300 feet apart with 200 foot and 400 foot electrode spacing. An area of elevated chargeability was measured approximately 600m west of Logan Copper’s “Midway Showing.” Jon G. Baird P.Eng., the author of the subject surveys assessment report concluded:

The present induced polarization survey has indicated one area at least 400' in width by 2000' in length which exhibits above normal chargeability responses. These responses are interpreted as being due to disseminations of from 1% to 2% by volume of metallically conducting

mineralization. In the present geological environment it appears that there is a real possibility that the chargeability increases may be due to concentrations of sulfide mineralization. (ARIS 2114)

Noranda also conducted IP surveys on three grids surrounding Noranda's Central Geochemical anomaly. A series of high order anomalies were identified on the eastern grid overlying a lowland swamp along Guichon Creek, on the eastern half of the Dansey project area. The larges consistent anomaly in the area measures 550 feet by 1200 feet with a general anomalies trend running for over 2km northsouth. It appears that no IP survey was conducted or data was not disclosed on the Noranda's Central Geochemical Anomaly itself. (ARIS 2282)

In the spring of 1971 Comet Mining conducted a ground magnetometer survey on the same points as its earlier geochemical survey. Results were mostly inconclusive. Recommendations included further geophysical and geochemical investigations. (ARIS 3184)

Alwin also conducted a ground magnetometer survey on its property the same year. The southwest portion of the survey returned greater magnetic variation then the northeast portion. The author W. S. Read P.Eng., interpreted this zone of variation as the contact between the Guichon Creek Batholith and the Nicola Volcanics with the embayments along the zone interpreted as a serious of northeast trending faults. This is congruent with the conclusions of Alwin's aeromagnetic survey four years earlier. (ARIS 3459)

In 1973 Indian Mines, which changed its name to Azure Resources Ltd. ("Azure") in 1972, also performed a ground magnetometer survey on their Eden and Ezra claim groups. The Ezra claim group was located south of the Eden claim block, off ground currently held Logan Copper. No significant anomalies were encountered indicating no significant changes in bedrock geology or structure. (ARIS 4321)

1973 to 1975 percussion drilling was conducted by North Pacific, Comet Mining and a privet operator.

Following 1975 little work was recorded in the area and much of the ground described above was dropped. In 1982 Cominco Ltd. ("Cominco") conducted approximately 29.4km of reconnaissance scale muliseparation, induced polarization survey work on their Forge property. The Forge property was located on the southern portion of today's Dansey Project covering approximately the same ground as Azure's Eden claim block. Cominco's work identified a 400m by 850m anomaly open to the north along its long axis and coincident with Indian Mines 1969 IP anomaly (ARIS 10783). Ground check was recommended however no further work is recorded until the property was acquired by Logan Copper Inc., then SNL Enterprises Ltd.

Logan Copper Inc. carried out a large Modile Metal Ion ("MMI") Survey in the area of the Dansey Minfile. The survey identified a 1700m by 800m geochemical anomaly centered south of the Dansey Minfile (ARIS 30458). Fallowing the completion of the MMI Survey Logan Copper Inc. carried out a program of reconnaissance prospecting, targeting historically significant geological, geophysical and geochemical anomalies located on the Dansey Project area and within the MMI Central Anomaly identifying many recorded historical showings and numerous unrecorded surface expressions of hydrothermal-porphyry copper mineralization within the Dansey Project area.

6.2. HISTORICAL DRILLING ON THE DANSEY PROJECT

In 1974 North Pacific and Comet Mining carried out a 21 percussion drill-hole program. Drilling was concentrated in three areas. The 21 holes totaled 5230 feet.

Nine of the 21 holes were drilled to a maximum depth of 320 feet along a northsouth running road 1.5 km northwest of the Dab MINFILE. No significant mineralization was intersected. (ARIS 5065)

Drill-holes R.A.-10 through R.A.-14 were drilled immediately south of the Dansey MINFILE. Hole R.A.-14 was terminated after only 50 feet of drilling with the remaining holes reaching depths between 270 and 350 feet and intersecting significant mineralization. According to the assessment report's cost statement all holes were drilled vertically, however little further information is given. No description of the recovered cuttings is provided and it is uncertain what type of mineralization or lithology was intersected by the drill-holes. (ARIS 4984)

The final seven holes were drilled in the southeast corner of the Dansey project area, approximately 1.2km south-southeast of Logan Copper's southern most drilling on the North Zone and approximately 850m east-southeast of Logan Copper's eastern most Midway zone drilling on the southeastern fringe of the MMI Central Anomaly (see section 10.1 MMI PROGRAM). As with holes R.A.-10 through R.A.-14, aside from a hand drawn field map no drill-hole locations are provided and no description is given regarding the percussion drill-hole cuttings.

Assay results from these holes were on average significantly lower than those drilled immediately south of the Dansey MINFILE. However, hole R.A.-17 located at the northern extent of this drill area returned with "2000+" ppm over 30 feet. (ARIS 4983)

In assessment report 5851 the author Dr. L. E. Ross described a four percussion drill-hole program conducted on ground located east of the Dansey MINFILE and west of Guichon Creek. Drilling was conducted to test sporadic geochemical highs on a slope covered with heavy overburden. Drilling encountered overburden between 40 and 120 feet. No significant

mineralization was encountered. Maximum depth on the four dill-holes was 140 feet with total drill footage being 480 feet.

Numerous other drilling has been referenced in assessment reports however little to no information has been found regarding these drill holes. Prior to 1972 at least four diamond drill-holes were drilled on Alwin's RM claim block located east of their DAB and HJ claim blocks. (ARIS 3459) No locations, results or descriptions of the drilling were disclosed and it is unclear where information on this drilling maybe available.

In 2008 SNL Enterprises drilled 7 diamond drill holes and intersepted copper mineralization in all holes, largely located in a sereas of faults as vainlets and disseminated with some masive sulfide. One hole also intersected some limited molybdemum. Follow up drilling was recommended for 2009.

7. REGIONAL GEOLOGY

The Logan Copper property is located on the southern Intermontane Belt of British Columbia on the southern extent of the Quesnel Trench. The central geological features of this region are the Late Triassic island-arc volcanic rocks of the Nicola Group, and Late Triassic mudstone, siltstone and shale clastic sedimentary rocks located to the east, and intruded granodioritic rocks of the Late Triassic to early Jurassic. The Nicola Group is a succession of Late Triassic island-arc volcanic rocks. The Nicola Group volcanic rocks form part of a 30km to 60km wide northwest-trending belt extending from southern B.C. into the southern Yukon. This belt is enclosed by older rocks and intruded by batholiths and smaller intrusive rocks. Major batholiths in the area of the Logan Copper Property include the Guichon Creek Batholith to the west, the Wild Horse Batholith to the east, and the Iron Mask Batholith to the north northeast. Figure 5 shows the regional geology. The Guichon Creek batholith is a large, composite intrusion with a surface area of about 1,000 square kilometers. A cluster of nine major porphyry copper deposits lie within a 15 square kilometer zone in the center of the batholith. The Dansey Project area is situated eastern edge of the Guichon Creek Batholith, just northeast of these deposits.

The batholith is a semi-concordant composite intrusive that is elliptical and elongated slightly west of north. A central, steeply plunging root or feeder zone is inferred under Highland Valley, and the major deposits lie around the projection of the feeder zone to the surface. The batholiths has intruded and metamorphosed island-arc volcanic and associated sedimentary rocks of the Nicola Group, and a metamorphic halo up to 500 meters wide is developed adjacent to the contact. Rocks along the edge of the batholith are older and more mafic, and successive phases moving inward toward the core are younger and more felsic. Although contacts can be sharp, they are generally gradational and chilled contacts are not common. Variations in the batholiths geochemistry indicate local areas of assimilated country rock in the

border zone and roof pendants in the intrusion. Outcrop areas have inclusions of amphibolite and “granitized” metamorphic rocks and compositional variations.

Two younger volcanic-dominated successions are important in the area. First, a northwest trending belt of Cretaceous continental volcanic and sedimentary rocks of the Spences Bridge Group unconformably overlie both the Nicola Group country rock and intrusive rocks along the southwest flank of the batholith. Distribution of the Spences Bridge Group rocks was locally controlled by reactivation of older faults that were important mineralization conduits in the batholith, such as the Lornex fault. Second, continental volcanic and sedimentary rocks of the Tertiary Kamloops Group cover extensive areas of the batholith and also overlie Triassic and Jurassic rocks from north of Highland Valley to the Thompson River. These also form isolated outliers and local intrusive centers south of the Highland Valley.

8. PROPERTY GEOLOGY

The Dansey Project area of the Logan Copper property is situated at the eastern edge of the Guichon Creek batholith and overlies the contact between the Highland Valley Phase and the Border Phase of the Guichon Batholith. Three main rock types are evident and are comprised of diorite, quartz diorite and granodiorite with in two phases of the Guichon Creek Batholith. Figure 4 shows the local geology of the Dansey Project Area.

The North Zone lies within the border phase of the Guichon Creek Batholiths (dioritic intrusive bodies), close to the contact zone between the Guichon Creek Batholith and the Nicola Geroup Volcanics. The intersected Nicola Volcanic consists mainly of dark to black fine-grained and cryptocrystalline mafic rock.

Most of this zone is covered by overburden. The main types of intrusive rocks seen in the outcrops and in the drill core are diorite and quartz diorite with chlorite-epidote, potassic, quartz, carbonate and hematite alterations. Cataclastic diorite, cataclastics, breccias and fault gouge are seen in this zone.

Surface mapping and surface drilling indicated northeast and northwest-striking faults are well-developed in the area (Figure 6). Both holes described in this report were located in the block confined by these two groups of faults. Most of the copper mineralization intervals intercepted in the drill holes in this zone fall within the fault zones.

The Midway Showing located 1.3km south of the two drill holes lies within the Highland Valley Phase of the Guichon Creek Batholith and is close to the contact between the Highland Valley Phase and the Border phase. Surface mapping indicated that there is a joint of faults, striking northwest, southeast, and southwest, in the intrusive body near this area.

Much of this area is also covered by overburden. The main types of intrusive rocks seen in the outcrops are diorite and quartz diorite with chlorite, potassic, quartz, carbonate and hematite alterations. Northeast striking quartz veins, ranging from several meters to 150 meters in width, are only distributed west of the northeast-striking faults. Cataclastic diorite, cataclastics, breccias and fault gouge are also seen in this area.

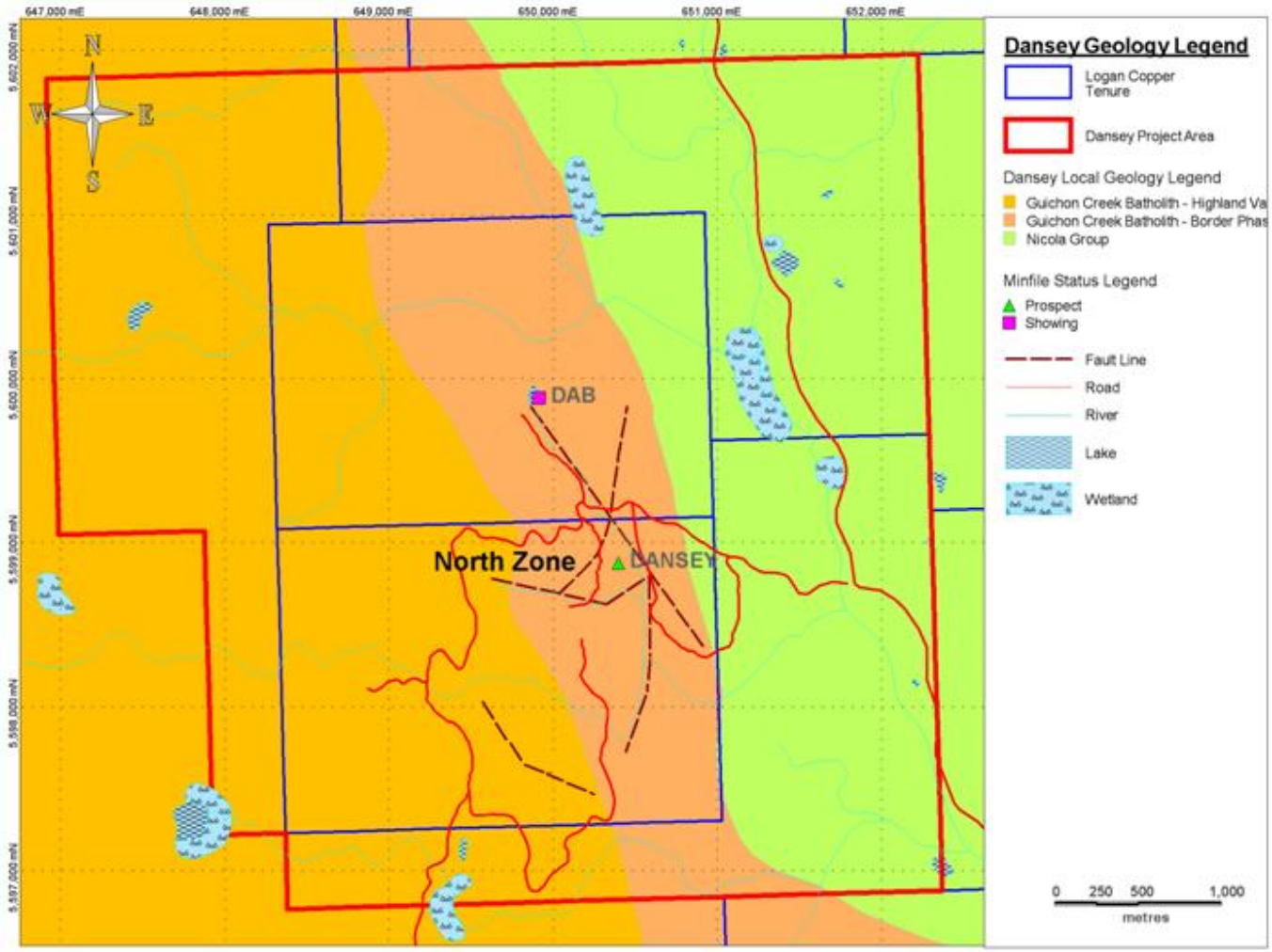

FIGURE 4: LOCAL GEOLOGY DANSEY PROJECT AREA

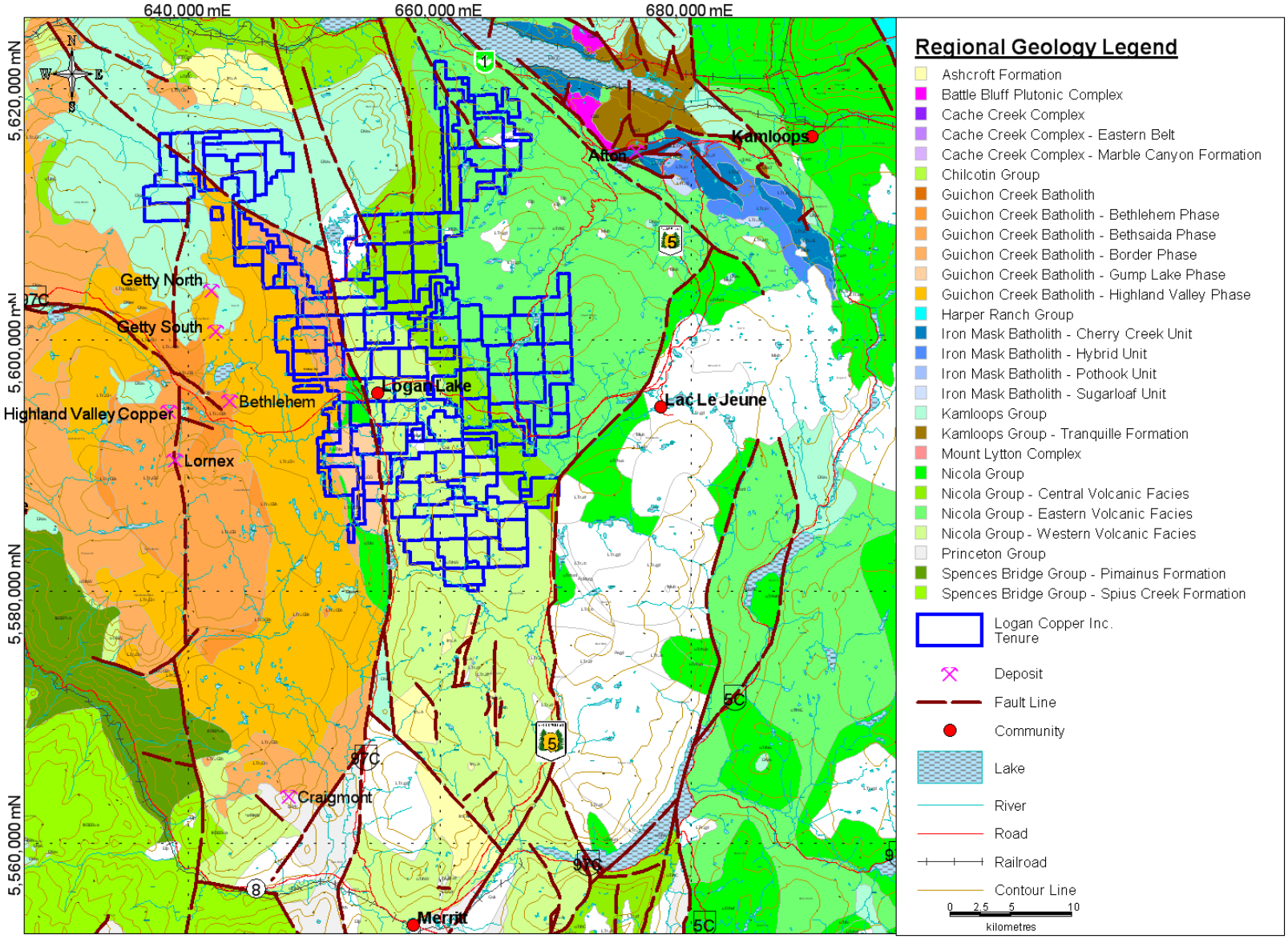

FIGURE 5: REGIONAL GEOLOGY

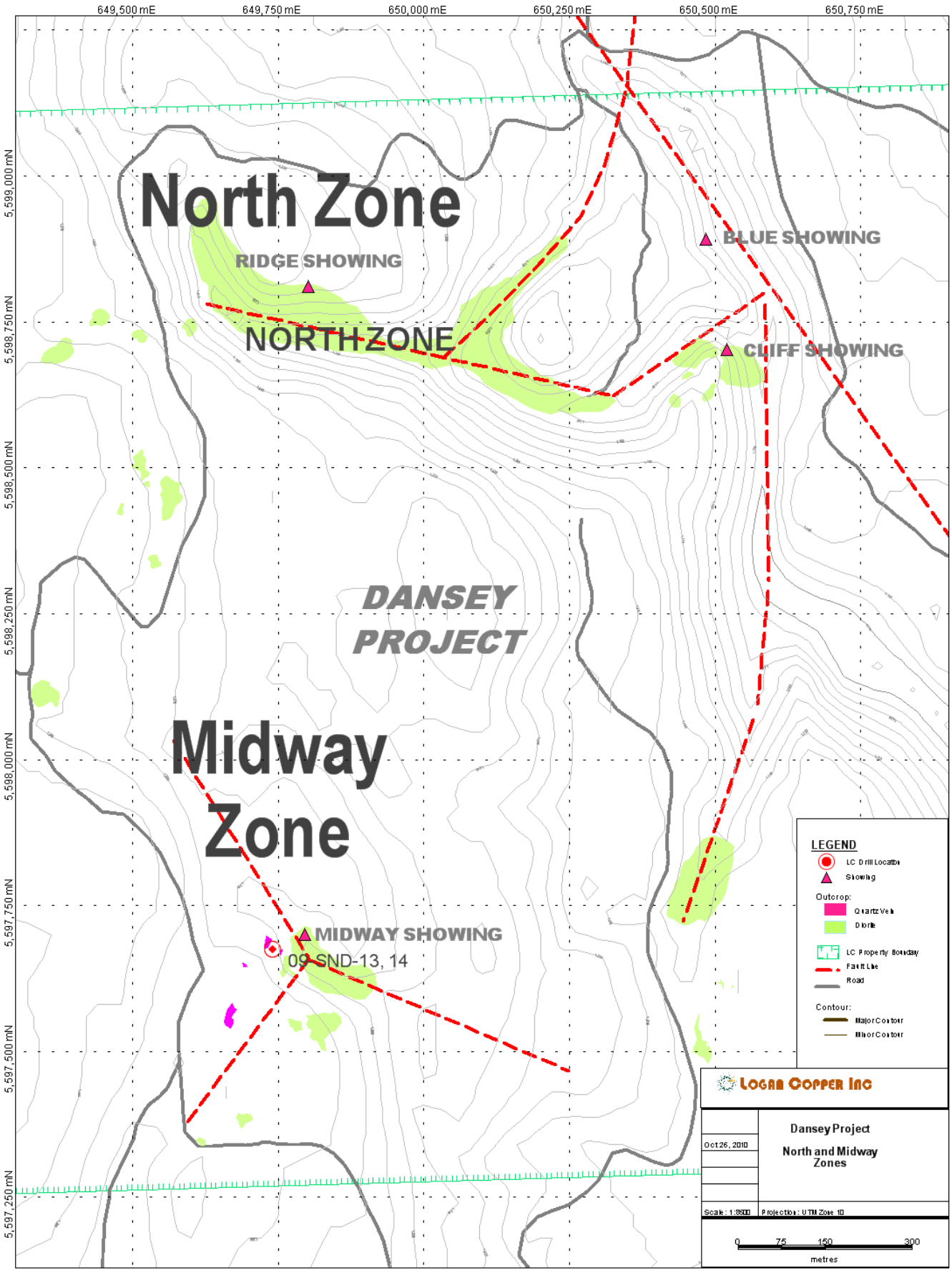

FIGURE 6: GEOLOGICAL MAPING

9. MINERALIZATION

Copper mineralization on the Dansey Project area is characterized by hydrothermal-porphyry style mineralization. The main primary minerals on the North Zone includes chalcopyrite and pyrite, with minor amounts of bornite and molybdenite. Chalcopyrite and pyrite occur mainly as veinlet, stringer, dissemination, batches, and massive structures in the chlorite-altered diorite, chlorite-epidote altered diorite, and chlorite-quartz altered diorite. Bornite is seen in limited locations on surface and in drill holes. Molybdenite is only seen at two locations: from 46.10 m to 46.20m and from 47.30m to 47.40m in drill hole 08-SND-06, drilled in 2008, as dissemination in pyrite and chalcopyrite veinlets. The main secondary mineral in this area is malachite and azurite. Malachite is widely distributed in oxide zones or in the fractures, occurring as blebs, splashes and dissemination, and usually accompanied by iron oxides. Azurite occurs as dissemination, massive structures and is distributed along the fractures and in breccias. The copper mineralization intercepted in the North Zone is distributed irregularly in space much of the significant copper mineralization intervals fall within a series of fault zones which are still open to depth with minor sulfide mineralization.

10. 2008 DRILLING AND RE-ASSAY

NQ diamond drilling on the Dansey project area commenced on September 27th, 2008. The drill program targeted MMI copper highs within the MMI Central Anomaly. All seven drill holes drilled in 2008 were located on the North Zone of the Dansey Project.

Table 3 below summarizes significant intercepts of mineralization in diamond drill holes completed in 2008. In early 2009 all seven 2008 drill holes were re-logged and re-assayed in greater detail. Significant mineralized and altered intervals were quartered and submitted for laboratory testing. All re-assay results are available in the Appendix III.

TABLE 3: 2008 DRILL PROGRAM SIGNIFICANT COPPER MINERALIZATION INTERVALS

Drill hole #		Start (m)	End (m)	Interval (m)	Copper (%)
08-SND-01		79.25	85.34	6.10	0.18
		137.16	140.21	3.05	0.19
		152.40	170.69	18.29	0.15
	including	167.64	170.69	3.05	0.38
08-SND-02		15.24	106.68	91.44	0.16
	including	15.24	85.34	70.10	0.20
	and	79.25	82.30	3.05	1.90
		172.40	176.78	4.38	0.14

Drill hole #		Start (m)	End (m)	Interval (m)	Copper (%)
		207.26	210.31	3.05	0.21
08-SND-03		23.77	32.92	9.15	0.15
	including	26.47	26.82	0.35	1.33
		51.21	57.30	6.09	0.14
	including	53.61	54.25	0.64	0.67
08-SND-04		7.62	39.01	31.39	0.15
	including	27.57	27.77	0.20	4.79
	and	36.88	37.15	0.27	3.18
	and	35.97	39.01	3.04	0.81
		60.35	72.54	12.19	0.15
	including	61.80	62.15	0.35	1.70
		81.69	87.78	6.09	0.14
		124.36	157.89	33.53	0.14
	including	127.00	128.20	1.20	0.74
08-SND-05		119.76	182.27	62.51	0.10
	including	119.76	121.41	1.65	1.10
	and	121.00	121.31	0.31	2.22
	and	154.84	155.88	1.04	0.90
		194.46	209.70	15.24	0.10
08-SND-06		42.37	109.42	67.06	0.11
	including	54.56	88.09	33.53	0.16
	including	57.61	57.83	0.22	1.12
	including	60.66	78.94	18.29	0.20
	including	72.85	75.90	3.05	0.23
08-SND-07		19.27	19.70	0.43	0.21
		35.20	36.80	1.60	0.13
		61.00	61.67	0.67	0.12

The most significant copper mineralization intercepted in 2008 includes intervals from drill hole 08-SND-02 and 08-SND-04 and constitutes the strongest mineralization intercepted on the North Zone to date. These intervals include: 91m of 0.16% Cu in drill hole 08-SND-02, and approximate 44m of 0.15% Cu and 40m of 0.14% Cu with local grades greater than 1.00% Cu in drill-hole 08-SND-04.

08-SND-07, the last hole drilled in 2008 was drilled to a depth of 67m before being terminated due to poor weather conditions at the end of the season. 2008 laboratory results on this hole returned all intervals below 1000ppm copper, with no other significant elements. In early 2009 the halved core was re-logging and re-sampling in greater detail, and resultantly returned three mineralized copper intervals. Significant pyrite, alteration and minor copper mineralization remain open at depth in this drill hole. Deeper drilling might be required in this area.

Half of the drill holes completed on the North Zone remain open at depth to copper mineralization. These holes include 08-SND-02, 08-SND-04, 08-SND-05, and 08-SND-06 completed in 2008 and drill hole 09-SND-09 and 09-SND-12 completed in 2009. Fault zones encountered in North Zone drilling, containing minor sulphides also remain open to depth.

11. 2009 EXPLORATION

The 2009 Dansey exploration program included the drilling of five holes on the North Zone and three holes on the Midway Zone. Phase I included 2 follow-up drill holes on the North Zone near 2008 drilling while Phase II drilling included three step-out holes east of 2008 North Zone drilling and three holes on the Midway Zone.

11.1 North Zone drilling

The North Zone is located in the north-central portion of the geochemical MMI Central Anomaly. 2009 drilling on the North Zone was conducted in two phases and summarized as follows:

PHASE I

Phase I drilling on the North Zone was designed to better assess the apparent zone of oxide hydrothermal mineralization within that target. Phase I drilling, which consisted of diamond drill holes 09-SND-08 and 09-SND-09, comprised easterly step-outs from 2008 holes 08-SND-01 and 08-SND-05.

Drill hole 09-SDN-09 was designed to confirm the extent of mineralization encountered by earlier drill holes in 2008 and 2009. 09-SDN-09 exhibited moderate carbonate alteration and significant malachite - chlorite mineralization.

Results of selected intervals from drill holes 09-SND-08 and 09-SND-09 are highlighted by Table 4 below.

TABLE 4: 09-SND-08 AND 09-SND-09 SIGNIFICANT COPPER MINERALIZATION INTERVALS

Drill hole #		Start (m)	End (m)	Interval (m)	Copper (%)
09-SND-08		92.04	95.39	3.35	0.10
		105.33	106.03	0.7	0.13
		114.23	129.13	14.90	0.20
		132.85	133.90	1.05	0.15
		135.65	136.70	1.05	0.16
		139.66	140.83	1.17	0.12
		145.41	149.75	4.34	0.16
		152.65	156.05	3.40	0.12
		173.74	174.79	1.05	0.21
09-SND-09		36.04	45.40	9.36	0.30
	including	44.20	45.40	1.20	1.02*
		50.58	51.86	1.28	0.20
		230.36	230.66	0.30	0.11

** See assay certificate from Dansey Project Technical Report, top to bottom respective report number and corresponding (sample number): 2092352(280730), in APPENDIX III – HIGH GRADE SAMPLE ASSAY CERTIFICATES*

In 09-SND-08 some of significant copper mineralization intervals fall within fault zones. In 09-SND-09 from 30.00m to 58.50m all of the significant copper mineralization lies within fault zones.

PHASE II

Phase II drilling on the North Zone explored the copper mineralization in the area of the Blue Showing. These holes also served as northeastern step-outs from 08-SND-05 and 09-SND-09. Phase II drilling consisted of three holes, 09-SND-10 through 09-SND-12. Significant copper mineralization intervals in these holes are shown in Table 5.

TABLE 5: 09-SND-10 THROUGH 09-SND-12 SIGNIFICANT COPPER MINERALIZATION INTERVALS

Drill hole #		Start (m)	End (m)	Interval (m)	Copper (%)
09-SND-10		9.12	12.16	3.04	0.17
		29.90	31.10	1.20	0.10
		43.98	45.62	1.64	0.32
		58.57	71.20	12.63	0.12
		83.34	98.10	14.76	0.17
	including	93.32	94.26	0.94	0.35
		112.50	120.35	7.85	0.37
	including	118.58	119.48	0.90	0.79
		133.13	135.30	2.17	0.27
09-SND-11		10.37	12.80	2.43	0.17
		25.97	26.49	0.52	0.25
		42.56	45.60	3.04	0.16
		77.45	96.45	19.00	0.14
	including	93.93	94.34	0.41	1.46*
		128.88	129.75	0.87	0.12
		147.61	156.00	8.39	0.29
	including	152.17	152.60	0.43	1.20*
		163.17	163.76	0.59	0.14
		168.23	168.98	0.75	0.11
		186.20	186.93	0.73	0.13
09-SND-12		35.10	49.64	14.54	0.17
	including	41.32	42.36	1.04	1.28*
		56.65	57.30	0.65	0.16
		60.25	60.45	0.20	0.52
		62.85	63.30	0.45	0.16
		70.90	71.96	1.06	0.13
		76.00	76.90	0.90	0.17
		94.70	95.90	1.20	0.49
		113.00	115.40	2.40	0.55
	including	113.40	114.00	0.60	1.81*
		122.60	123.60	1.00	0.24
		128.90	134.30	5.40	0.21
		159.60	160.30	0.70	0.11
		161.70	163.00	1.30	0.14

** See assay certificate from Dansey Project Technical Report, top to bottom respective report number and corresponding (sample number): 2092409(287272), 2092409(287352), 2092438(287444), 2102603(287536) in APPENDIX III – HIGH GRADE SAMPLE ASSAY CERTIFICATES*

Phase II drilling on the North Zone intercepted a series of fault zones. Most of the significant copper mineralization lies within these fault zones: including 7.40m to 135.30m in 09-SND-10; from 10.37m to 57.76m in 09-SND-11; and from 10.37m to 135.50m in 09-SND-12.

To date, significant copper mineralization has been encountered in all 12 drill holes completed on the North Zone. North Zone drilling covers an area of approximate 450 by 500 meters.

11.2 Midway Zone drilling

The Company drilled three holes on the Midway Zone. The first hole drilled on the Midway Zone 09-SND-13, targeted surface copper and gold mineralization hosted in a silicified diorite on the Midway Showing, located approximately 40 meters east of the drill site. Visible copper and zinc mineralization was observed within the first 30 meters of core. The hole was completed to its target depth at 85.12 meters. 09-SND-13 results are listed in table 6.

TABLE 6: 09-SND-13 SIGNIFICANT COPPER AND ZINC MINERALIZATION INTERVALS

Drill hole #		Start (m)	End (m)	Interval (m)	Copper (%)	Zinc (%)
09-SND-13	total	0.00	85.10(EOH)	85.10	0.05	0.10
		2.80	24.30	21.60	0.11	0.22
	including	7.90	16.00	8.10	0.15	0.31
	and	9.50	15.20	5.70	0.16	0.42
		46.70	54.70	8.00	0.05	0.11

Drill-hole 09-SND-13 also intersected anomalous concentrations of lead, including:

- 1.0 meters of 0.15% lead at 2.5 meters in depth
- 4.7 meters of 0.10% lead at 19.7 meters in depth

The second hole drilled on the Midway 09-SND-14, is the deepest and the most heavily mineralized drill hole drilled to date on the Dansey Project. Drilled from the same pad as 09-SND-13, at a steeper dip (70˚), this drill hole was abandoned due to drilling difficulties at 285 meters, with visible copper mineralization extending to the end of hole. An intersect of 168 meters beginning at 117 meters and continuing to 285 meters at the end of the holes returned 0.17% copper and included an 85 meter interval grading 0.24% copper, and a 17.9 meter interval grading 0.41% copper (Table 7).

Table 7: 09-SND-14 significant copper and Zinc mineralization INTERVALS

Drill hole #		Start (m)	End (m)	Interval (m)	Copper (%)	Zinc (%)
09-SND-14	total	0.00	285.20(EOH)	285.20	0.12	0.04
		2.70	14.20	11.50	0.03	0.20
	including	2.70	7.20	4.50	0.04	0.28
		28.50	49.70	21.10	0.05	0.11
	including	28.50	32.80	4.20	0.13	0.18
	and	42.80	49.70	6.90	0.05	0.17
09-SND-14		80.60	97.30	16.70	0.05	0.10
	including	89.10	97.30	8.20	0.07	0.11
		116.90	285.20(EOH)	168.30	0.17	0.02
	including	200.20	285.20(EOH)	85.00	0.24	0.01
	and	217.36	218.05	0.69	1.36*	0.01
	and	252.20	270.10	17.90	0.41	0.01
	and	263.25	263.96	0.71	1.68*	0.02
	and	274.55	276.23	1.70	0.87	0.01
	and	275.00	275.30	0.30	2.91*	0.00

** See assay certificate, top to bottom respective report number and corresponding (sample number): 2102569(286802), 2102569(286867), 2102569(286885) in APPENDIX V – ASSAY CERTIFICATES*

Drill-hole 09-SND-14 also intersected several anomalous concentrations of other metals, including:

- 1.4 meters of 0.22% lead at 4.1- meter depth
- 0.7 meters of 0.13 g/t gold at 36.8-meter depth
- 0.6 meters of 0.15 g/t gold at 40.3-meter depth
- 1.1 meters of 0.02% molybdenum at 280.7- meter depth

The Midway Zone lies within the Highland Valley Phase of the intrusive body and near the contact between the Highland Valley Phase and the Border Phase of the Guichon Creek Batholith. Surface mapping and surface drilling indicated there is a joint of three faults, striking northwest, southeast, and southwest, in the current drilling area of the Midway Zone (Figure 6). The most significant copper mineralization that has been intercepted on the Dansey Project area was intersected by drill hole 09-SND-14 of the Midway Zone. As on the North Zone, most of the mineralization lies within fault zones (Figure 7).

The primary minerals in the Midway Zone include chalcopyrite and pyrite, with minor amounts of sphalerite and galena. Chalcopyrite and pyrite occur mainly in chlorite-altered diorite and cataclastic diorite as dissemination, massive, stringers and veinlets. Chalcopyrite and pyrite also occure in massive quartz or quartz veins as disseminated and small massive structure with minor stringers and veinlets. Spalerite and galena occur in quartz veins as batches or dissemination, and occasionally also occure in quartz-carbonate veins. This sphalerite-galena

mineralization has only been intersected at depths to 60 meters. Secondary minerals in this zone are malachite and azurite. Malachite is widely distributed in oxide zones or in the fractures, occurring as blebs, splashes and dissemination, and usually accompanied by iron oxides. Azurite occurs as dissemination, massive structures and is distributed along the fractures and in the breccias

Most of the significant copper mineralization drilled within this zone has been intercepted at depths greater than 100m and remains open at depth. (Figure 7). It is highly recommended that deeper drilling is undertaken in this area.

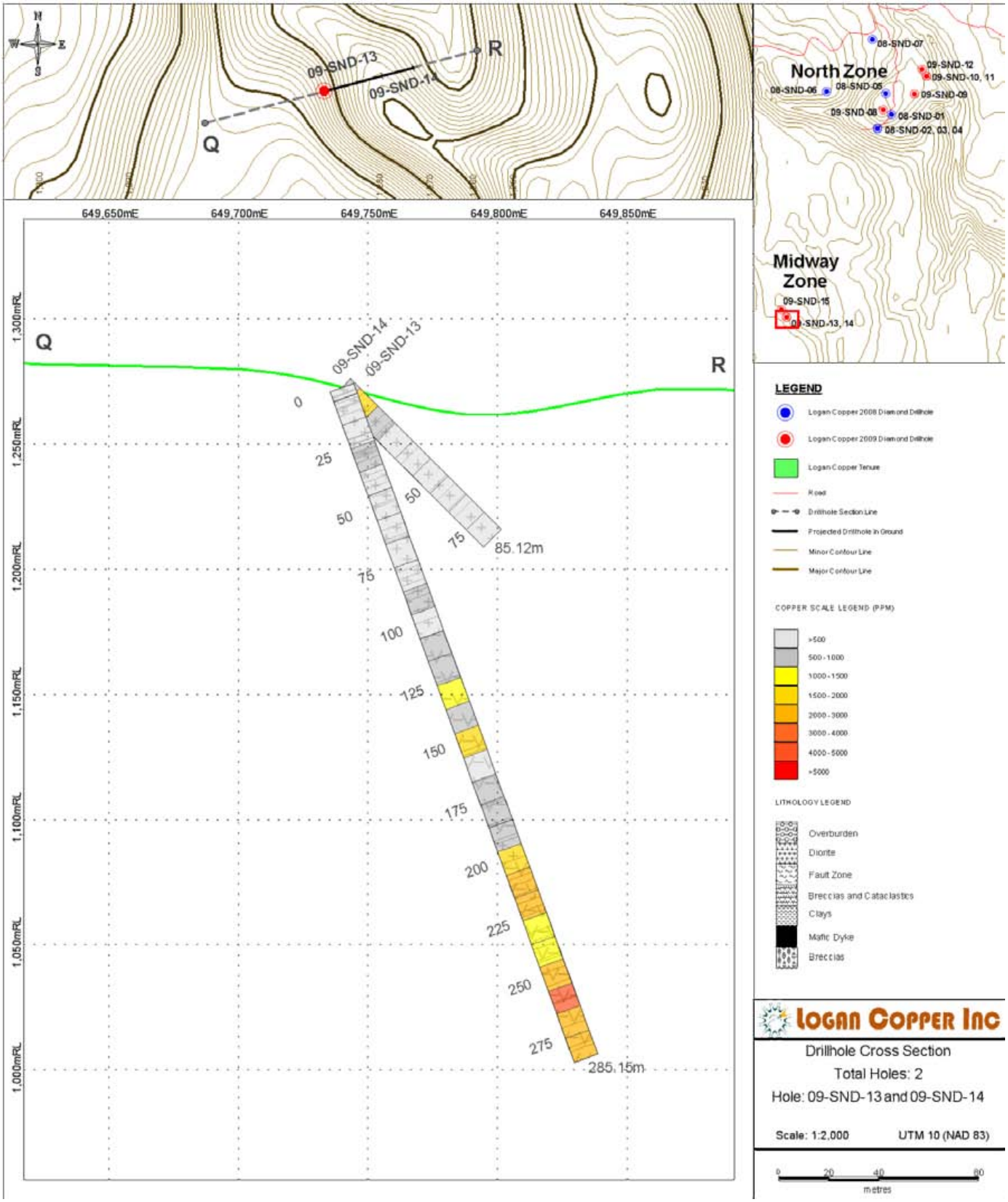

FIGURE 7: CROSS SECTION OF 09-SND-13 AND 09-SND-14
(Grades shown in this figure are interval weighted averages)

12. SAMPLING METHOD AND APPROACH

In 2009, diamond drilling was performed by Rampart Ventures Ltd using NQ size core. The drill core was preliminarily quickly logged on site and then was brought from the drill site by truck to a rented storage and core shack in Lower Nicola, west of Merritt, B.C, where the core was logged in detail and photographed before samples were split using an electrical rock saw. Half of the core was archived in the core shack, the other half of the core and a sample tag were placed into 12X20 inch plastic bags, and prepared for transport Pioneer Laboratories Inc. for analysis.

At Pioneer Laboratories samples were lined according to numerical sequence and dried at 60 degrees Celsius. The dried samples were crushed and split with a riffle splitter. For analysis, 250 gram of the split sample was pulverized to -100 mesh (≥90%). The residual crushed sample are retained in the original bag and returned to the client.

Multi-element ICP Analysis - 0.500 gram sample is digested with 3 ml of aqua regia, diluted to 10 ml with water. This leach is partial for B, Ba, Cr, Fe, Mg, Mn, Na, P, S, Sn, Ti and limited for Na, K and Al. Elements in solution are determined by ICP/ES.

Cu, Pb, Zn Analysis: 1.000 gm sample is digested with 50 ml of aqua regia, diluted to 100 ml with water. Cu, Pb and Zn contents are determined by atomic absorption spectrometer.

Au Analysis: 20 gram sample is digested with 60 ml of aqua regia, diluted to 150 ml with water. Gold in solution is concentrated with MIBK. Au content in MIBK is determined by atomic absorption spectrometer or graphite furnace AA.

Logan Copper Inc. implemented a Quality Assurance and Quality Control program for the Dansey drill program. This program consisted of inserting a series of Blanks and Reference Standards into the core sample batches submitted to the Pioneer Lab for analysis.

Blanks

Two types of diorite sourced from outcrops in the Dansey Project area were used as blank material, referenced as Blank 1 and Blank 2. Blank 1 was a light to medium pinkish medium-grained diorite, and Blank 2 was a light-dark grey fine-grained diorite without visible alteration.

Blank 2 had been used in most of the sample batches since the lack of copper, silver, zinc, lead and gold in this blank has been established by repeating assaying (Figure 8 & 9).

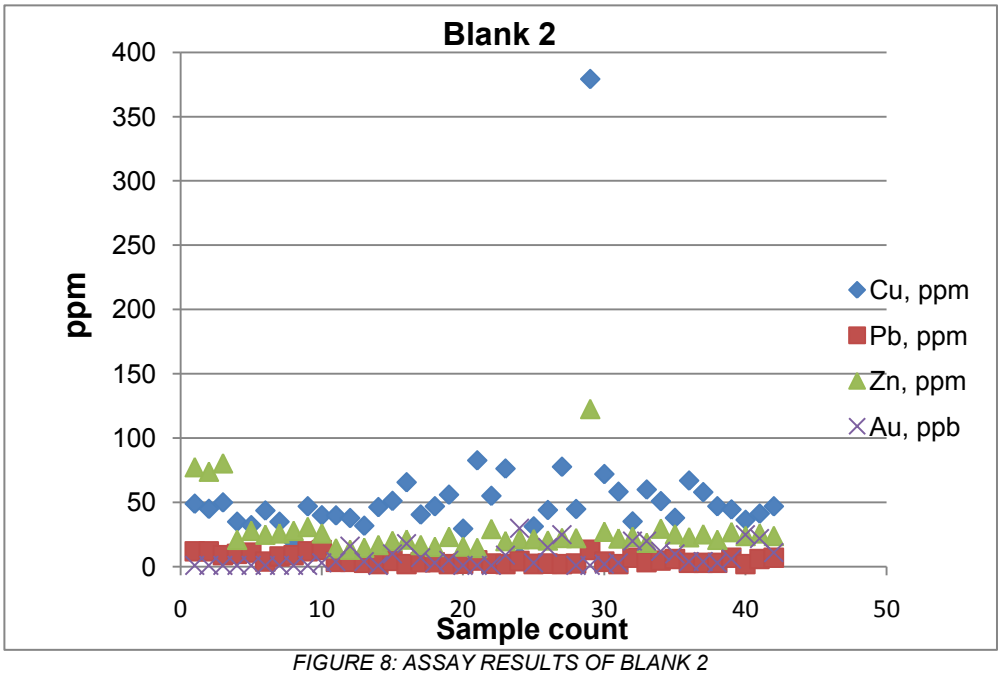

FIGURE 8: ASSAY RESULTS OF BLANK 2

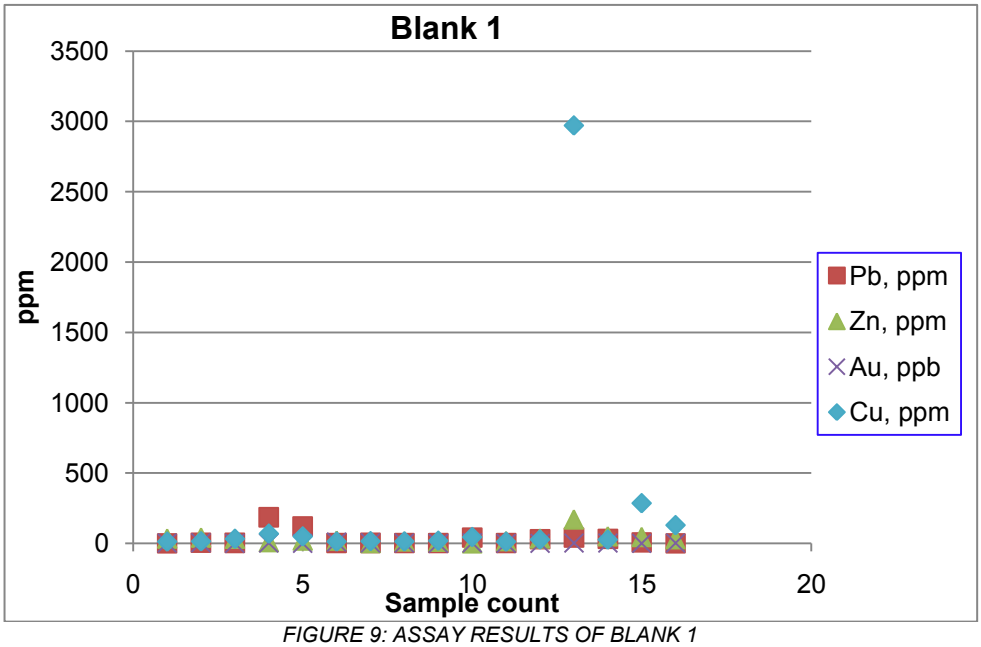

FIGURE 9: ASSAY RESULTS OF BLANK 1

A total of 58 blanks (including 42 of "Blank 2" and 16 of "Blank 1") have been inserted in 09-SND-10 through 09-SND-14. 41 "Blank 2" returned values <100ppm Cu, and only one "Blank 2" had returned value of 379ppm Cu. All of the 42 "Blank 2" had returned values of less than 30ppb Au. 13 "Blank 1" had returned with less than 70ppm Cu, two "Blank 1" returned 125 and 285ppm Cu, and one "Blank 1" has 2,970ppm Cu. The anomalous assay values for the three

“Blank 1” are interpreted to have slight to significant copper mineralization locally for the batches of “Blank 1”. We will stop using Blank 1 as blank material.

Reference Standards

Reference Standards used were: CDN-CGS-16 and CDN-CGS-18. The values of copper and gold are 0.112±0.005% and 0.14±0.0046g/t in CDN-CGS-16Au; 0.319 ±0.016% and 0.297±0.040g/t in CDN-CGS-18.

The standards and blanks mentioned above are inserted after every 15 samples in the sample batches. Both of the standards are inserted alternatively based on the estimated grades of the copper mineralization.

The reported value for each individual standard assay is reviewed upon receipt and the data is also analyzed graphically by the use of an X-Chart (c.f. Hoskins, 1995). Both accuracy and precision can be demonstrated on such graphs. Also known as control charts, these graphs plot repeated measurements of copper or gold values for each standard against time on the x axis.

Superimposed on the individual results of the X-Chart are two horizontal lines, one represents the average (mean) value of the measurement, and the other represents accepted normal copper content for the Standards. Four other horizontal lines, or “control levels”, representing ± 2 standard deviations (SD) from the mean (known as the upper and lower warning limits, or UWL and LWL), and ± 3 SD (the upper and lower control limits, or UCL and LCL) are also plotted.

In a normally distributed sample population ± 2 SD represents a 95% confidence interval and ± 3 SD corresponds to a 99% confidence interval. Ideally all the standard assay results will plot between the UWL and LWL scattered about the accepted value. An individual value plotting between the UWL and UCL, is considered acceptable, although two or more in a row are an unacceptable result. A single value outside the UCL or LCL is also considered unacceptable.

Figures 10 & 11 below shows example control charts for the analytical standards, CDN-CGS-16 and CDN-CGS-18 used in the Dansey drilling program, (CDN-CGS-16, accepted normal values of 1120ppm Cu and 0.14g/t Au; CDN-CGS-18, 3190pp Cu and 0.297g/t Au).

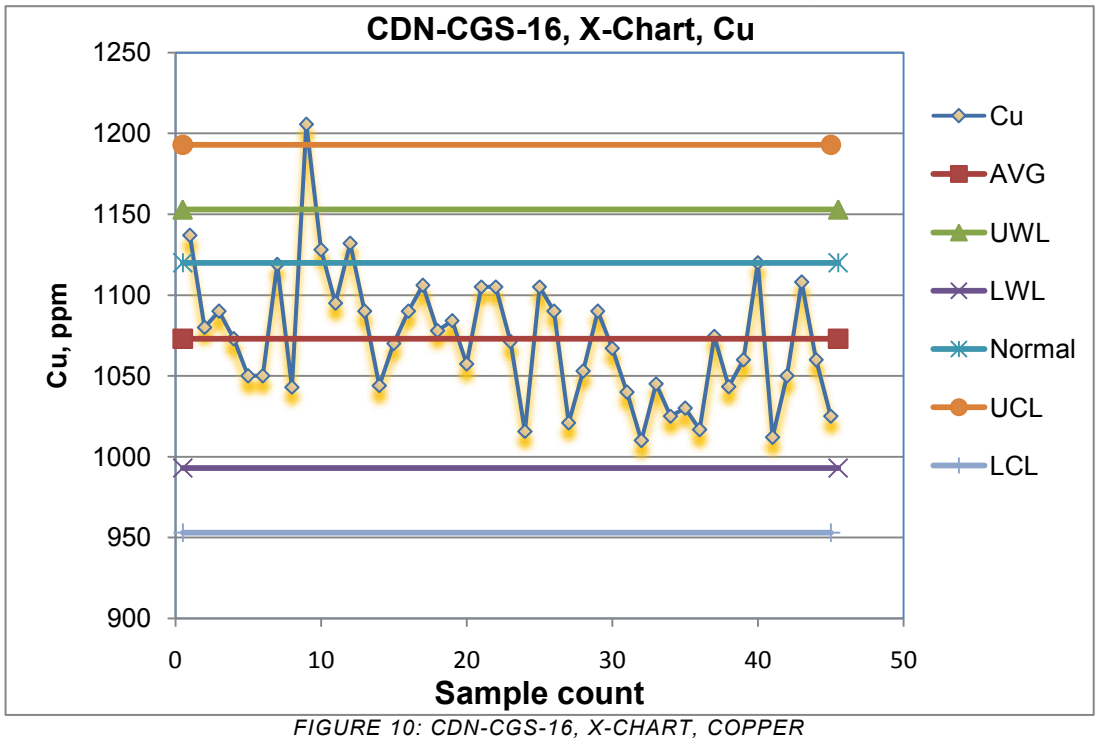

FIGURE 10: CDN-CGS-16, X-CHART, COPPER

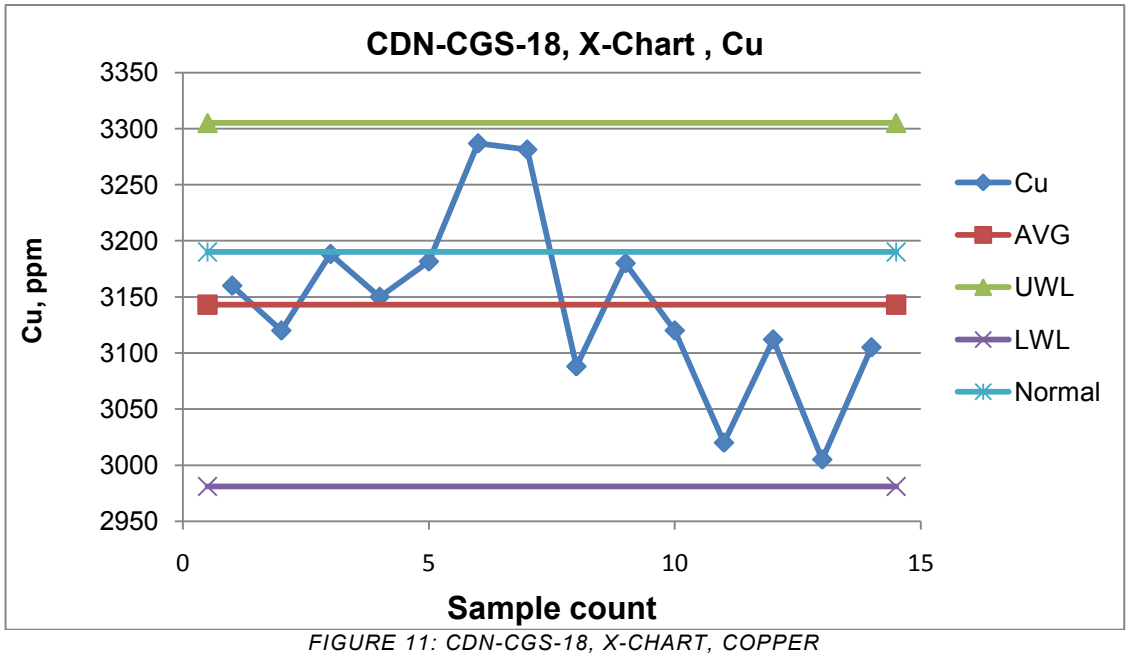

FIGURE 11: CDN-CGS-18, X-CHART, COPPER

In the analysis shown in (Figure 10), all but one copper value lie between the UWL and LWL. The graph does not show a significant bias in the analysis. One copper value is outside the UCL level. In the analysis shown in (Figure 11), the entire copper values data set lies between the UWL and LWL. The graph shows a slight high bias in the analysis of the last seven samples, but no control levels were breached.

13. INTERPRETATION AND CONCLUSIONS

Drill hole 09-SND-13 and 09-SND-14 drilled on the Dansey Project area contained significant copper mineralization. These drill holes are located on a copper-gold-molybdenum-silver geochemical MMI Anomaly discovered by the Company in 2008. Additionally the drilling is located near a regionally significant contact on the eastern edge of the Guichon Creek Batholith, a Jurassic-age intrusive hosting numerous significant mineral deposits.

In summary, we believe the Dansey Project area provides several interesting and promising targets for significant hydrothermal-porphyry copper mineralization.

13.1. RECOMMENDATIONS

The following are recommendations based on the interpretation of current exploration results on the Dansey Project area:

Significantly deeper drill holes will be of priority in the coming drilling program. Deeper drilling will test for more significant copper mineralization at depth. The potential for stronger copper mineralization at depth is supported by the presence of copper mineralization open at depth in hole 09-SND-14.

Although the northcentral part (North Zone drilling) of the MMI Central Anomaly has been subjected to preliminary drilling by Logan Copper Inc., a large area of the anomaly remains covered by overburded and untested. This area overlies the contact between the Highland Valley Phase and the Border Phase of the Guichon Creek Batholith and is located at the center of the MMI Central Anomaly. This area requires extensive exploration including trenching to expose bedrock and potentially an Induced Polarization survey to define future drill targets.

14. REFERENCES

Hemsworth, Fred J. *Geochemical survey of the Eden Claims for New Indian Mines Ltd, Vananda explorations Ltd*. Highland Valley, BC. 1966 (***ARIS 711)***

Crosby, Richard O. *Aeromagnetic survey on some HJ and DAS mineral claims Tunkwa Lake area, British Columbia*. British Columbia. 1968 (***ARIS 1166***)

Cochrane, D. R. *Aeromagnetic Survey of the AB, Bill, Mike, J.B., Tom and XY Claims, west of Guichon Creek on Bose Hill*. Highland Valley, BC. 1968

Pringle, D. W. *Physical work required for present Airborne Magnetometer Survey and future Geological and Geophysical Surveys on Mineral Claims or North Pacific Mines Ltd*. Highland Valley, BC. 1968 (***ARIS 1585***)

Crowhurst, J. J. *Geochemical Survey on the R.M. and DAB Claim groups*. Highland Valley, BC. 1969 (***ARIS 1787***)

Knauer, J. D. *Geochemical Soil Survey, Mike 1 & 2 Fractions & Mike 1-10, Bill 2-11, JB 20-21 Mineral Claims*. Kamloops Mining Division, BC. 1969 (***ARIS 1934***)

Knauer, J. D. *Geochemical Soil Survey, JB 1-4, JB 7-10, Tom 3-10, IG #1 Fraction*. Kamloops Mining Division, BC. 1969 (***ARIS 1935***)

Pringle, D. W. *Geochemical Survey on X-Y Claims*. Highland Valley, BC. 1969 (***ARIS 2024***)

Knauer, J. D. *Geochemical Soil Survey, Tom 1-2, Tom 9-20, JB 2-17, JB 9-12, JB 20-23, JB 25-28 and I.G. #1 Fraction Mineral Claims*. Kamloops Mining Division, BC. 1969 (***ARIS 2066***)

Baird, Jon G. *Induced Polarization Survey on some CL Claims*. Highland Valley, BC. 1969 (***ARIS 2114***)

Fountain, David K. *Induced Polarization and Resistivity Survey on the Dansey property*. Highland Valley, BC. 1969 (***ARIS 2282***)

Pierre, W. H. Magnetometer Survey of the XY Claims, Four way corner area. Highland Valley, BC. 1970 (***ARIS 3184***)

Read, W. S. *Geophysical Report, J.T. 1 Fr., R.M. 1, 2 Fr., R.M. 1-6, R.M. 25-27 Mineral Claims*. BC. 1972 (***ARIS 3459***)

Scott, John W. *Percussion Drilling report on the XY group of Mineral Claims of Comet Industries*. Kamloops Mining Division, BC. 1973 (***ARIS 4983***)

Scott, John W. *Percussion Drilling report on the Tom group of Mineral Claims of North Pacific Mines Ltd*. Kamloops Mining Division, BC. 1973 (***ARIS 4984***)

Scott, John W. *Percussion Drilling report on the #1 BCD group of Mineral Claims of Comet Industries*. Kamloops Mining Division, BC. 1973 (***ARIS 5065***)

Ross, Lorne E. *Percussion Drilling report on WA #1 Mineral Claim*. Kamloops Mining Division, BC. 1975 (***ARIS 5851***)

Klein, J. *Geophysical Report on Induced Polarization and Resistivity Surveys on Forge Property*. Highland Valley, BC. 1982 (***ARIS 10783***)

Mark, David G. *Geochemistry report on MMI soil sampling surveys on the Dansey, Noname, and Last SNL grids within the Logan Lake area*. Kamloops mining division, BC. 2008 (***ARIS 30458***)

Dr Pan, Zhonghua. *Drill Report on the Dansey Project*. Kamloops mining division, BC, 2010 (***ARIS 31466***)

Dr Pan, Zhonghua. *Diamond Drilling and Re-Assay Report on the Dansey Project*. Kamloops mining division, BC, 2011 (***ARIS 31903***)

Sookochoff, Laurence and Zhonghua Pan. *Dansey Project Technical Report*. 21st July 2010. Ladner: Logan Copper Inc. 2010

Bergy, William R. *Geological Report on the Highland Valley Property*. Highland Valley, BC.2009

Ager, C.A., McMillan, W.J and Ulrych, T.J. *Gravity Magnetics and Geology of the Guichon Creek Batholith*. British Columbia Department of mines and Petroleum Resources. Bulletin 62. 1972

Peterson, Nathan T et al. "Provenance of Jurassic sedimentary rocks of south-central Quesnellia, British Columbia: Implications for Paleogeography". *Canadian Journal of Earth Science* 41 (2004): 103-125. NRC Canada.

Moore, John M. *Nicola Horst, Southern British Columbia Window into the pre- Triassic margin of North America*. Geological Survey of Canada. Vancouver, 2000

Dr Anderson, Corby G. *Getty Copper Receives a Positive Preliminary Feasibility Study from West Coast Environmental and Engineering on the Getty Project*. 22nd July 2009. Getty Copper Inc. 7th April 2010 < http://www.gettycopper.com/index.php?view=article&catid=14%3A2009&id=109%3A2009+Pre-Feasibility+Results&option=com_content&Itemid=18>

Freberg, Mark. *Teck Reviewing Further Mine Life Extension at Highland Valley Copper*. 14 May 2009. Teck Highland Valley Copper Corporation. 7th April 2010 < http://www.teck.com/Generic.aspx?PAGE=Operations+Pages%2FCopper+Pages%2FHighland+Valley+Copper&portalName=tc>

Teck Resources Limited. *2008 Annual Report*. 7th April 2010 < *http://www.teck.com/Generic.aspx?PAGE=Investors%20Pages/Annual%20Financial%20Report&portalName=tc>*

Teck Resources Limited. *Annual Information Form March 13.2009*. 7th April 2010 < http://www.teck.com/Generic.aspx?PAGE=Investors+Pages%2fPublic+Filings&portalName=tc>

15. CERTIFICATES

I, Zhonghua Pan, Ph.D in Geology of 22-6233 Birch Street, Richmond, British Columbia., hereby certify that:

1. I was a consulting geologist to Logan Copper Inc. during the period of May 2009 through May 2010.
2. I supervised and directed the exploration program on the Dansey area in 2009.
3. In 1993 I completed a Ph.D. in Geology from the Institute of Geology, Chinese Academy of Sciences, in 1985 a Master's of Science in Geology from China University of Geosciences, Beijing, and in 1982 a Bachelor's of Engineering in Geology from Changchun College of Geology (Jilin University), China.
4. I have over 10 years combined experience in mineral resource exploration in Canada and China, and have worked as Geologist for several Canadian exploration and mining companies.
5. This certificate applies to the report describing NQ diamond drilling exploration conducted on Logan Copper Inc.'s Dansey Project area in 2009.
6. I have no interest in the Property as described herein.
7. I am not aware of any material fact or material change with respect to the subject matter of this report that is not reflected in this report, the omission to disclose which makes this report misleading.

Zhonghua Pan, Ph.D

March 31, 2011

Date

APPENDIX I - DRILL-HOLE CORE RECOVERY

09-SND-13				
From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)
0.00	2.46	2.46	0.00	casing
2.46	2.76	0.30		
2.76	2.93	0.17		
2.93	3.04	0.11		
3.04	3.45	0.41	3.04	100.00
3.45	3.90	0.45		
3.90	4.53	0.63		
4.53	5.28	0.75		
5.28	6.08	0.80		
6.08	6.31	0.23	3.00	98.68
6.31	6.80	0.49		
6.80	7.26	0.46		
7.26	7.91	0.65		
7.91	8.49	0.58		
8.49	8.95	0.46		
8.95	9.12	0.17		
9.12	9.51	0.39	3.00	98.68
9.51	10.06	0.55		
10.06	10.61	0.55		
10.61	11.30	0.69		
11.30	12.16	0.86		
12.16	12.73	0.57	3.02	99.34
12.73	13.53	0.80		
13.53	14.25	0.72		
14.25	14.35	0.10		
14.35	15.20	0.85		
15.20	16.00	0.80	2.95	97.04
16.00	16.65	0.65		
16.65	17.45	0.80		
17.45	18.24	0.79		
18.24	19.24	1.00	3.00	98.68
19.24	19.69	0.45		
19.69	20.09	0.40		
20.09	20.39	0.30		
20.39	20.44	0.05		
20.44	20.86	0.42		
20.86	21.28	0.42		
21.28	21.85	0.57	3.00	98.68
21.85	22.67	0.82		
22.67	23.20	0.53		
23.20	23.80	0.60		
23.80	24.22	0.42		
24.22	24.32	0.10		
24.32	25.13	0.81	3.85	93.75
25.13	25.66	0.53		
25.66	26.46	0.80		
26.46	27.36	0.90		
27.36	28.36	1.00	3.04	100.00
28.36	28.75	0.39		
28.75	29.50	0.75		
29.50	29.88	0.38		
29.88	30.40	0.52		
30.4	30.47	0.07	3.04	100.00

09-SND-13				
From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)
30.47	30.95	0.48		
30.95	31.57	0.62		
31.57	32.32	0.75		
32.32	32.97	0.65		
32.97	33.44	0.47		
33.44	33.52	0.08	2.80	92.11
33.52	34.10	0.58		
34.10	35.05	0.95		
35.05	35.85	0.80		
35.85	36.05	0.20		
36.05	36.48	0.43		
36.48	37.10	0.62	3.03	99.67
37.10	37.80	0.70		
37.80	38.40	0.60		
38.40	39.14	0.74		
39.14	39.52	0.38		
39.52	39.80	0.28	3.00	98.68
39.80	40.45	0.65		
40.45	41.10	0.65		
41.10	41.75	0.65		
41.75	42.20	0.45		
42.20	42.56	0.36		
42.56	43.08	0.52	2.90	95.39
43.08	44.30	1.22		
44.30	45.00	0.70		
45.00	45.60	0.60		
45.60	46.20	0.60	2.95	97.04
46.20	46.70	0.50		
46.70	47.30	0.60		
47.30	47.80	0.50		
47.80	48.30	0.50		
48.30	48.64	0.34		
48.65	48.90	0.25	2.85	93.75
48.90	49.30	0.40		
49.30	49.90	0.60		
49.90	50.88	0.98		
50.88	51.10	0.22		
51.10	51.68	0.58		
51.68	52.35	0.67	2.90	95.39
52.35	52.90	0.55		
52.90	53.59	0.69		
53.59	54.12	0.53		
54.12	54.72	0.60		
54.72	54.90	0.18	2.85	93.75
54.90	55.80	0.90		
55.80	56.73	0.93		
56.73	57.40	0.67		
57.40	57.76	0.36		
57.76	58.10	0.34	2.95	97.04
58.10	58.73	0.63		
58.73	59.15	0.42		
59.15	59.65	0.50		
59.65	60.40	0.75		
60.40	60.80	0.40		
60.8	61.12	0.32	2.88	94.74
61.12	62.30	1.18		

09-SND-13				
From (m)	**To (m)**	**Interval (m)**	**Recovery (m)**	**Recovery (%)**
62.30	63.00	0.70		
63.00	63.84	0.84		
63.84	64.52	0.68	3.04	100.00
64.52	65.35	0.83		
65.35	66.35	1.00		
66.35	66.88	0.53		
66.88	68.10	1.22	2.15	70.72
68.10	68.50	0.40		
68.50	68.95	0.45		
68.95	69.92	0.97		
69.92	70.95	1.03	2.98	98.03
70.95	71.68	0.73		
71.68	72.45	0.77		
72.45	72.96	0.51		
72.96	74.00	1.04	2.95	97.04
74.00	75.28	1.28		
75.28	76.00	0.72		
76	76.50	0.50	2.94	96.71
76.50	77.70	1.20		
77.70	79.04	1.34		
79.04	80.20	1.16	3.04	100.00
80.20	81.40	1.20		
81.40	82.08	0.68		
82.08	82.63	0.55	3.04	100.00
82.63	84.00	1.37		
84.00	85.12	1.12		
EOH	**85.12**		**Average Recovery**	**96.48 %**

09-SND-14				
From (m)	**To (m)**	**Interval (m)**	**Recovery (m)**	**Recovery (%)**
0.00	1.90	1.90	0.00	casing
1.90	2.25	0.35		
2.25	2.70	0.45		
2.70	3.04	0.34		
3.04	3.44	0.40	3.02	99.34
3.44	4.05	0.61		
4.05	4.20	0.15		
4.20	5.10	0.90		
5.10	5.45	0.35		
5.45	6.08	0.63		
6.08	7.22	1.14	3.01	99.01
7.22	7.65	0.43		
7.65	8.55	0.90		
8.55	9.12	0.57		
9.12	9.67	0.55	3.04	100.00
9.67	10.62	0.95		
10.62	11.17	0.55		
11.17	11.62	0.45		
11.62	12.16	0.54		
12.16	12.38	0.22	2.94	96.71
12.38	13.33	0.95		
13.33	14.32	0.99		
14.32	15.20	0.88		
15.20	16.00	0.80	3.04	100.00
16.00	16.87	0.87		

09-SND-14				
From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)
16.87	17.94	1.07		
17.94	18.24	0.30		
18.24	18.90	0.66	3.04	100.00
18.90	19.93	1.03		
19.93	20.38	0.45		
20.38	20.68	0.30		
20.68	21.28	0.60		
21.28	22.00	0.72	3.04	100.00
22.00	22.75	0.75		
22.75	23.05	0.30		
23.05	23.65	0.60		
23.65	24.32	0.67		
24.32	25.32	1.00	2.95	97.04
25.32	26.26	0.94		
26.26	26.83	0.57		
26.83	27.36	0.53		
27.36	27.66	0.30	3.00	98.68
27.66	28.53	0.87		
28.53	29.05	0.52		
29.05	29.80	0.75		
29.80	30.40	0.60		
30.40	31.22	0.82	3.02	99.34
31.22	32.04	0.82		
32.04	32.77	0.73		
32.77	32.92	0.15		
32.92	33.44	0.52		
33.44	33.87	0.43	3.04	100.00
33.87	34.30	0.43		
34.30	35.25	0.95		
35.25	36.00	0.75		
36.00	36.48	0.48		
36.48	36.79	0.31	2.99	98.36
36.79	37.46	0.67		
37.46	38.06	0.60		
38.06	38.76	0.70		
38.76	39.44	0.68		
39.44	39.52	0.08		
39.52	40.27	0.75	3.01	99.01
40.27	40.89	0.62		
40.89	41.57	0.68		
41.57	42.15	0.58		
42.15	42.56	0.41		
42.56	42.76	0.20	3.04	100.00
42.76	43.36	0.60		
43.36	44.25	0.89		
44.25	45.30	1.05		
45.30	45.60	0.30		
45.6	46.30	0.70	3.02	99.34
46.30	47.30	1.00		
47.30	48.05	0.75		
48.05	48.64	0.59		
48.64	48.76	0.12	2.86	94.08
48.76	49.65	0.89		
49.65	50.36	0.71		
50.36	51.10	0.74		
51.10	51.68	0.58		

09-SND-14				
From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)
51.68	51.98	0.30	3.04	100.00
51.98	52.60	0.62		
52.60	53.10	0.50		
53.10	53.95	0.85		
53.95	54.72	0.77		
54.72	54.74	0.02	3.01	99.01
54.74	55.70	0.96		
55.70	56.53	0.83		
56.53	57.76	1.23		
57.76	57.78	0.02	3.04	100.00
57.78	59.15	1.37		
59.15	59.94	0.79		
59.94	60.80	0.86		
60.8	60.82	0.02	3.02	99.34
60.82	61.77	0.95		
61.77	62.15	0.38		
62.15	63.15	1.00		
63.15	63.84	0.69		
63.84	64.26	0.42	3.03	99.67
64.26	64.95	0.69		
64.95	65.86	0.91		
65.86	66.88	1.02		
66.88	67.53	0.65	2.95	97.04
67.53	68.55	1.02		
68.55	69.62	1.07		
69.62	69.92	0.30		
69.92	70.22	0.30	2.95	97.04
70.22	70.95	0.73		
70.95	72.00	1.05		
72.00	72.96	0.96		
72.96	72.98	0.02	3.04	100.00
72.98	74.05	1.07		
74.05	74.95	0.90		
74.95	76.00	1.05		
76.00	76.64	0.64	3.04	100.00
76.64	77.06	0.42		
77.06	78.00	0.94		
78.00	78.90	0.90		
78.90	79.04	0.14		
79.04	79.40	0.36	2.86	94.08
79.40	80.10	0.70		
80.10	80.60	0.50		
80.60	82.08	1.48		
82.08	82.83	0.75	3.00	98.68
82.83	84.12	1.29		
84.12	85.12	1.00		
85.12	85.14	0.02	3.03	99.67
85.14	86.65	1.51		
86.65	87.90	1.25		
87.90	88.16	0.26		
88.16	89.10	0.94	3.00	98.68
89.10	90.38	1.28		
90.38	91.20	0.82		
91.2	91.75	0.55	2.80	92.11
91.75	93.05	1.30		
93.05	93.95	0.90		

09-SND-14				
From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)
93.95	94.24	0.29		
94.24	94.40	0.16	2.40	78.95
94.40	94.80	0.40		
94.80	95.80	1.00		
95.80	97.28	1.48		
97.28	98.00	0.72	2.65	87.17
98.00	98.25	0.25		
98.25	98.95	0.70		
98.95	100.32	1.37		
100.32	101.37	1.05	3.00	98.68
101.37	102.25	0.88		
102.25	103.00	0.75		
103.00	103.36	0.36		
103.36	103.90	0.54	2.34	76.97
103.90	105.00	1.10		
105.00	192.55	87.55		
105.00	106.00	1.00		
106.00	106.40	0.40		
106.4	106.50	0.10	1.80	59.21
106.50	106.85	0.35		
106.85	108.00	1.15		
108.00	109.44	1.44		
109.44	110.10	0.66	2.00	65.79
110.10	110.90	0.80		
110.90	111.95	1.05		
111.95	112.48	0.53		
112.48	112.98	0.50	2.71	89.14
112.98	113.80	0.82		
113.80	114.65	0.85		
114.65	115.52	0.87		
115.52	116.10	0.58	2.80	92.11
116.10	116.88	0.78		
116.88	118.56	1.68		
118.56	119.40	0.84	2.90	95.39
119.40	120.30	0.90		
120.30	121.60	1.30		
121.60	122.55	0.95	2.50	82.24
122.55	123.00	0.45		
123.00	123.90	0.90		
123.90	124.64	0.74		
124.64	125.05	0.41	3.04	100.00
125.05	126.10	1.05		
126.10	127.18	1.08		
127.18	127.68	0.50		
127.68	128.50	0.82	2.20	72.37
128.50	129.90	1.40		
129.90	130.72	0.82		
130.72	130.80	0.08	3.04	100.00
130.80	131.51	0.71		
131.51	132.30	0.79		
132.30	133.53	1.23		
133.53	133.76	0.23		
133.76	135.15	1.39	2.85	93.75
135.15	136.15	1.00		
136.15	136.80	0.65		
136.8	137.20	0.40	3.02	99.34

09-SND-14				
From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)
137.20	138.25	1.05		
138.25	139.10	0.85		
139.10	139.84	0.74		
139.84	140.12	0.28	2.85	93.75
140.12	141.00	0.88		
141.00	141.93	0.93		
141.93	142.88	0.95		
142.88	144.05	1.17	3.04	100.00
144.05	144.61	0.56		
144.61	145.37	0.76		
145.37	145.92	0.55		
145.92	146.80	0.88	2.97	97.70
146.80	147.20	0.40		
147.20	147.65	0.45		
147.65	148.57	0.92		
148.57	148.96	0.39		
148.96	149.70	0.74	2.85	93.75
149.70	150.45	0.75		
150.45	151.81	1.36		
151.81	152.00	0.19		
152	152.38	0.38	3.04	100.00
152.38	153.13	0.75		
153.13	153.66	0.53		
153.66	154.90	1.24		
154.90	155.04	0.14		
155.04	155.70	0.66	2.90	95.39
155.70	156.80	1.10		
156.80	158.08	1.28		
158.08	159.00	0.92	2.85	93.75
159.00	159.85	0.85		
159.85	160.60	0.75		
160.60	161.12	0.52		
161.12	161.50	0.38	2.88	94.74
161.50	162.65	1.15		
162.65	163.35	0.70		
163.35	164.06	0.71		
164.06	164.16	0.10		
164.16	165.06	0.90	2.96	97.37
165.06	166.03	0.97		
166.03	166.59	0.56		
166.59	167.20	0.61		
167.2	167.77	0.57	2.86	94.08
167.77	168.65	0.88		
168.65	169.60	0.95		
169.60	170.24	0.64		
170.24	170.40	0.16	3.11	100.00
170.40	171.42	1.02		
171.42	172.12	0.70		
172.12	173.06	0.94		
173.06	173.28	0.22		
173.28	174.10	0.82	2.88	94.74
174.10	174.98	0.88		
174.98	175.70	0.72		
175.70	176.32	0.62		
176.32	177.25	0.93	2.95	97.04
177.25	178.40	1.15		

09-SND-14				
From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)
178.40	179.36	0.96		
179.36	180.36	1.00	2.40	78.95
180.36	181.60	1.24		
181.60	182.40	0.80		
182.40	183.20	0.80	3.04	100.00
183.20	183.87	0.67		
183.87	184.42	0.55		
184.42	184.92	0.50		
184.92	185.44	0.52		
185.44	186.05	0.61	3.02	99.34
186.05	186.95	0.90		
186.95	187.75	0.80		
187.75	188.48	0.73		
188.48	189.48	1.00	2.90	95.39
189.48	190.10	0.62		
190.10	191.20	1.10		
191.20	191.52	0.32		
191.52	192.55	1.03	2.60	85.53
192.55	193.80	1.25		
193.80	194.47	0.67		
194.47	194.56	0.09		
194.56	195.05	0.49	2.90	95.39
195.05	195.57	0.52		
195.57	196.50	0.93		
196.50	197.50	1.00		
197.50	197.60	0.10		
197.6	198.12	0.52	3.04	100.00
198.12	198.67	0.55		
198.67	199.21	0.54		
199.21	200.19	0.98		
200.19	214.78	14.59		
200.19	200.64	0.45		
200.64	200.78	0.14	3.04	100.00
200.78	201.58	0.80		
201.58	202.34	0.76		
202.34	203.20	0.86		
203.20	203.68	0.48		
203.68	204.00	0.32	2.86	94.08
204.00	204.95	0.95		
204.95	205.77	0.82		
205.77	206.27	0.50		
206.27	206.72	0.45		
206.72	207.32	0.60	3.04	100.00
207.32	207.92	0.60		
207.92	208.52	0.60		
208.52	209.35	0.83		
209.35	209.51	0.16		
209.51	209.76	0.25		
209.76	210.55	0.79	2.92	96.05
210.55	211.38	0.83		
211.38	212.15	0.77		
212.15	212.80	0.65		
212.80	213.20	0.40	2.80	92.11
213.20	214.00	0.80		
214.00	214.65	0.65		
214.65	215.35	0.70		

09-SND-14				
From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)
215.35	215.84	0.49		
215.84	216.00	0.16	3.00	98.68
216.00	216.74	0.74		
216.74	217.36	0.62		
217.36	218.05	0.69		
218.05				
218.05	218.88	0.83		
218.88	219.76	0.88	2.88	94.74
219.76	220.57	0.81		
220.57	221.49	0.92		
221.49	221.92	0.43		
221.92	223.00	1.08	2.95	97.04
223.00	223.50	0.50		
223.50	224.33	0.83		
224.33	224.96	0.63		
224.96	225.10	0.14	3.07	100.00
225.10	226.15	1.05		
226.15	227.15	1.00		
227.15	228.00	0.85		
228.00	229.00	1.00	3.04	100.00
229.00	229.85	0.85		
229.85	230.70	0.85		
230.70	231.04	0.34		
231.04	231.24	0.20	3.04	100.00
231.24	232.30	1.06		
232.30	233.40	1.10		
233.40	234.08	0.68		
234.08	235.05	0.97	2.85	93.75
235.05	235.78	0.73		
235.78	236.76	0.98		
236.76	237.12	0.36		
237.12	237.76	0.64	2.30	75.66
237.76	238.50	0.74		
238.50	240.00	1.50		
240.00	240.16	0.16		
240.16	240.63	0.47	2.90	95.39
240.63	241.37	0.74		
241.37	241.97	0.60		
241.97	242.93	0.96		
242.93	243.20	0.27		
243.2	243.80	0.60	3.04	100.00
243.80	244.63	0.83		
244.63	244.78	0.15		
244.78	246.00	1.22		
246.00	246.24	0.24		
246.24	246.85	0.61	2.92	96.05
246.85	247.42	0.57		
247.42	248.20	0.78		
248.20	249.00	0.80		
249.00	249.28	0.28		
249.28	250.14	0.86	2.98	98.03
250.14	250.80	0.66		
250.80	251.52	0.72		
251.52	252.17	0.65		
252.17	252.32	0.15		
252.32	253.08	0.76	3.00	98.68

09-SND-14				
From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)
253.08	254.08	1.00		
254.08	255.03	0.95		
255.03	255.36	0.33		
255.36	255.91	0.55	3.04	100.00
255.91	256.91	1.00		
256.91	257.74	0.83		
257.74	258.40	0.66		
258.40	259.00	0.60	3.06	100.00
259.00	259.95	0.95		
259.95	260.60	0.65		
260.60	261.20	0.60		
261.20	261.44	0.24		
261.44	261.85	0.41	2.90	95.39
261.85	262.60	0.75		
262.60	263.25	0.65		
263.25	263.96	0.71		
263.96	264.48	0.52		
264.48	264.58	0.10	3.09	100.00
264.58	265.50	0.92		
265.50	266.05	0.55		
266.05	266.63	0.58		
266.63	267.12	0.49		
267.12	267.52	0.40		
267.52	268.08	0.56	3.10	100.00
268.08	269.08	1.00		
269.08	270.10	1.02		
270.10	270.56	0.46		
270.56	270.70	0.14	2.95	97.04
270.70	271.36	0.66		
271.36	272.12	0.76		
272.12	272.78	0.66		
272.78	273.60	0.82		
273.6	273.70	0.10	2.95	97.04
273.70	274.55	0.85		
274.55	275.00	0.45		
275.00	275.30	0.30		
275.30	276.23	0.93		
276.23	276.64	0.41		
276.64	277.05	0.41	2.98	98.03
277.05	278.20	1.15		
278.20	278.95	0.75		
278.95	279.48	0.53		
279.48	279.68	0.20		
279.68	280.14	0.46	2.96	97.37
280.14	280.74	0.60		
280.74	281.80	1.06		
281.80	282.56	0.76		
282.56	282.72	0.16		
282.72	283.50	0.78	2.25	92.59
283.50	284.22	0.72		
284.22	284.72	0.50		
284.72	285.15	0.43		
EOH	**285.15**		**Average Recovery**	**95.29 %**

APPENDIX II - DRILL-HOLE LOGGING

Logan Copper Inc	Dansey Project		
Drill Hole ID	09-SND-13		
Collar	649740m E	5597676m N	1200m Elevation
Azimuth	75 degree		
Dip	-45 degree		
Length	85.12m		
Starting date	18-Oct-09		
Ending date	30-Oct-09		
Logged by	Zhonghua (John) Pan		
Date	30-Oct-09		

Glossary of Terms
chl: chlorite
ep: epidote
cpy: chalcopyrite
py: pyrite
qz: quartz
hem: hemetite
cc: calcite
kspar: potassic feldspar
carb: carbonate
diss: disseminated
str.: stinger

09-SND-13							
From (m)	To (m)	Rock Type	Structures	Mineralization Type	Minerals	Mag. Susceptibility	Description
2.46	2.76	silicified diorite	veinning, veinlet. Diss	sulfide	qz, kspar, galena, sph., py and cpy. Oxide		dark pinkish and brownish silicified diorite and qz veins with local diss galena (sphalerite?) and py and cpy. Rusty surface seen locally
2.76	2.93						
2.93	3.04						
3.04	3.45						
3.45	3.90						
3.90	4.53						
4.53	5.28						
5.28	6.08						
6.08	6.31						
6.31	6.80						
6.80	7.26						
7.26	7.91	silicified diorite	veinlet, diss	oxide, sulfide, carbonate	hem, qz, cpy, py, malachite		dark grey, brown and dark reddish silicified diorite (massive and veinleted qz) with local diss cpy,py and malachite. Occ galena (and spalerite?)
7.91	8.49						
8.49	8.95						
8.95	9.12						
9.12	9.51						
9.51	10.06						
10.06	10.61						
10.61	11.30						
11.30	12.16						
12.16	12.73						
12.73	13.53						
13.53	14.25	silicified	veinlets, massive	iron oxide, minor	qz, iron oxide,		dark grey and brownish silicified diorite (massive and veinleted qz) with

From (m)	To (m)	Rock Type	Structures	Mineralization Type	Minerals	Mag. Susceptibility	Description
14.25	14.35	diorite		sulfide	gal.		iron oxide rust on the surface and in the caves of qz veins. Occ galena (and spalerite?)
14.35	15.20						
15.20	16.00	silicified diorite	diss	iron oxide, minor sulfide	qz, iron oxide, py+cpy		dark grey to dark pinkish silicified diorite with rusty surface and local diss py+cpy
16.00	16.65						
16.65	17.45						
17.45	18.24						
18.24	19.24						
19.24	19.69	silicified diorite	diss	iron oxide, minor sulfide	hem, kspar, qz, py, gal		dark reddish and dark pinkish silicified diorite with local diss py, galena and spalerite (?)
19.69	20.09						
20.09	20.39						
20.39	20.44						
20.44	20.86						
20.86	21.28						
21.28	21.85						
21.85	22.67						
22.67	23.20						
23.20	23.80	diorite	diss, veinlet	minor sulfide	kspar, qz, sph, py+cpy		dark pinkish diorite with qz veinlets and local diss/veinletd sphalerite, local diss py+cpy
23.80	24.22						
24.22	24.32	diorite	diss	minor sulfide	kspar, qz, py+cpy		dark pinkish diorite with qz veinlets and local diss py+cpy
24.32	25.13						
25.13	25.66						
25.66	26.46						
26.46	27.36						
27.36	28.36						
28.36	28.75						
28.75	29.50						
29.50	29.88						
29.88	30.40						
30.4	30.47						
30.47	30.95						
30.95	31.57						
31.57	32.32						
32.32	32.97						
32.97	33.44						
33.44	33.52						
33.52	34.10						
34.10	35.05						
35.05	35.85						
35.85	36.05						
36.05	36.48						
36.48	37.10						
37.10	37.80						

From (m)	To (m)	Rock Type	Structures	Mineralization Type	Minerals	Mag. Susceptibility	Description
37.80	38.40						
38.40	39.14	diorite	veinlets, diss	minor sulfide	kspar, qz, py/cpy		dark pinkish diorite with local chl alteration of feldspar. Occ diss py/cpy in qz veinlets.
39.14	39.52						
39.52	39.80						
39.80	40.45						
40.45	41.10						
41.10	41.75						
41.75	42.20						
42.20	42.56						
42.56	43.08						
43.08	44.30						
44.30	45.00						
45.00	45.60						
45.60	46.20						
46.20	46.70						
46.70	47.30						
47.30	47.80						
47.80	48.30						
48.30	48.64						
48.65	48.90						
48.90	49.30						
49.30	49.90						
49.90	50.88						
50.88	51.10						
51.10	51.68						
51.68	52.35						
52.35	52.90						
52.90	53.59						
53.59	54.12						
54.12	54.72	diorite, silicified diorite	diss, stockworks	sulfide, carbonate oxide	ksapr, qz, mal, zau, py+cpy, iron oxide		dark grey with local dark pinkish and brownish diorite and silicified diorite. Malachite, azurite, stockworks of py+cpy and iron rust seen locally
54.72	54.90						
54.90	55.80						
55.80	56.73						
56.73	57.40						
57.40	57.76						
57.76	58.10						
58.10	58.73						
58.73	59.15	diorite	veinlets	oxide	kspar, iron oxide		dark pinkish and dark grey diorite with local brownish diorite and iron oxide veinlets.
59.15	59.65						
59.65	60.40						
60.40	60.80						
60.8	61.12						

09-SND-13 LOGAN COPPER INC							
From (m)	**To (m)**	**Rock Type**	**Structures**	**Mineralization Type**	**Minerals**	**Mag. Susceptibility**	**Description**
61.12	62.30						
62.30	63.00						
63.00	63.84						
63.84	64.52						
64.52	65.35	Fault zone	cataclastic	oxide	clays,chl, iron oxide, kspar		grey-light greenish gouge, dark brownish cataclastics and gouge with fragments and sandof dark grey/pinkish diorite
65.35	66.35						
66.35	66.88						
66.88	68.10						
68.10	68.50						
68.50	68.95	diorite			kspar		dark pinkish diorite
68.95	69.92						
69.92	70.95						
70.95	71.68						
71.68	72.45						
72.45	72.96						
72.96	74.00						
74.00	75.28						
75.28	76.00						
76	76.50						
76.50	77.70						
77.70	79.04						
79.04	80.20						
80.20	81.40						
81.40	82.08						
82.08	82.63						
82.63	84.00						
84.00	85.12						
EOH	**85.12**						

09-SND-14

Logan Copper Inc	Dansey Project		
Drill Hole ID	09-SND-14		
Collar	0649740m E	5597676m N	1200m Elevation
Azimuth	75 degree		
Dip	-70 degree		
Length	285.15m		
Starting date	01-Nov-09		
Ending date	15-Nov-09		
Logged by	Zhonghua (John) Pan		
Date	30-Nov-09		

Glossary of Terms
chl: chlorite
ep: epidote
cpy: chalcopyrite
py: pyrite
qz: quartz
hem: hemetite
cc: calcite
kspar: potassic feldspar
carb: carbonate
diss: disseminated
str.: stinger

09-SND-14							
From (m)	To (m)	Rock Type	Structures	Mineralization Type	Minerals	Mag. Susceptibility	Description
0.00	1.90	diorite			kspar		0.00-1.90m Casing. 25cm fragments of core. dark pinkish diorite.
1.90	2.25						
2.25	2.70	diorite	diss	minor sulfide	chl, kspar, py (cpy?)		dark greenish with dark pinkish diorite. Diss py (cpy?) seen in limited locations.
2.70	3.04	diorite			kspar		dark pinkish diorite
3.04	3.44						
3.44	4.05						
4.05	4.20	silicified diorite	veinlets, massive, diss	minor sulfide and copper carbonate	qz, chl, galena, sphalerite, malachite		dark greenish silicified diorite with qz veinlets and cavities. Small massive/diss Galena and sphalerite seen in qz veinlets. Malachite seen in the cavities.
4.20	5.10	silicified diorite	veinlets, diss	minor sulfide	kspar, qz, cpy, py, galena, sphalerite		dark pinkish diorite cut by qz veinlets or stockwork (1mm-1cm sized). Sparsely diss cpy, py, galena and sphalerite (?) seen in qz veinlets.
5.10	5.45						
5.45	6.08	diorite	veinlets		kspar, qz		dak pinkish diorite with local light brownish diorite and mm-sized qz veinlets.
6.08	7.22						
7.22	7.65	diorite	veinlets, diss	minor sulfide	kspar, qz, hem, py+cpy		dark pinkish diorite cut by 1-5mm sized qz veinlets. Diss py+cpy seen in the qz veinlets. Hematite veinlets seen locally.
7.65	8.55	diorite			kspar		dark pinkish diorite
8.55	9.12						
9.12	9.67						
9.67	10.62						
10.62	11.17	diorite	veinlets, diss	minor sulfide	kspar, qz, py/cpy		dark pinkish diorite with local qz veinlets. Occ diss py/cpy in qz veinlets.
11.17	11.62						

From (m)	To (m)	Rock Type	Structures	Mineralization Type	Minerals	Mag. Susceptibility	Description
11.62	12.16						
12.16	12.38						
12.38	13.33						
13.33	14.32						
14.32	15.20						
15.20	16.00						
16.00	16.87						
16.87	17.94						
17.94	18.24						
18.24	18.90						
18.90	19.93						
19.93	20.38						
20.38	20.68	diorite	veinlets, diss	minor sulfide	qz, kspar, malachite, py+cpy		qz veins and dark pinkish diorite with diss. Malachite, py and sphalerite (?). Qz vein is 45 degrees to CA.
20.68	21.28	diorite			kspar, chl, clay		dark pinkish diorite with chl-clay alteration of feldspar
21.28	22.00						
22.00	22.75						
22.75	23.05	diorite	veinlets, diss		kspar, chl, clay, py		dark pinkishdiorite with qz veinlets and chl-clay alt'n. Sparsely diss py in qz veinlets or nearby.
23.05	23.65	diorite			kspar, qz		dark pinkish diorite with local qz veinlets.
23.65	24.32						
24.32	25.32						
25.32	26.26						
26.26	26.83	diorite	veinlet, massive, diss	minor sulfide	kspar,qz, chl, py/cpy		dark pinkish diorite with strong silicification (veinlet and massive qz) and local diss py/cpy in qz v and chl-altered place
26.83	27.36	diorite					dark pinkish diorite
27.36	27.66						
27.66	28.53	diorite	veinlets, diss	minor carbonate	kspar, qz, carb, chl, clays, malachite		dark pinkish diorite with local qz and carb veinlets, chl-clay alteration. Diss malachite seen in the last 15cm.
28.53	29.05	qz, silicified diorite	veinlet, diss	sulfide	qz, py+cpy		qz veins or silicified diorite with diss py+cpy and galena
29.05	29.80						
29.80	30.40						
30.40	31.22	diorite	diss	minor sulfide	kspar,qz, carb, py+cpy, galena		dark pinkish diorite with local qz and carb veinlets, and local diss py+cpy and galena.
31.22	32.04						
32.04	32.77						
32.77	32.92						
32.92	33.44						
33.44	33.87						
33.87	34.30						
34.30	35.25						
35.25	36.00						
36.00	36.48						

From (m)	To (m)	Rock Type	Structures	Mineralization Type	Minerals	Mag. Susceptibility	Description
36.48	36.79	diorite	massive, diss	minor sulfide	chl, hem, qz, carb, py (cpy?)		dark grey, light greenish and light reddish diorite and silicified diorite with local qz and carb veinlets and massive /diss py (cpy?)
36.79	37.46						
37.46	38.06						
38.06	38.76						
38.76	39.44	diorite	diss		chl,hem, clay, qz,carb,py		light greenish and light reddish diorite with chl-clay alteration of feldspar and local qz/carb veinlets. Occ diss py
39.44	39.52						
39.52	40.27						
40.27	40.89						
40.89	41.57						
41.57	42.15	diorite	diss, veinlets	minor sulfide	kspar,hem,qz/carb, py+cpy, galena		light-dark pinkish and reddish diorite with local qz/carb veinlets and diss. py+cpy and galena
42.15	42.56						
42.56	42.76						
42.76	43.36						
43.36	44.25						
44.25	45.30	silicified diorite	diss., massive	minor sulfide	qz, kspar, py+cpy		dark grey to dark silicified diorite (local dark pinkish diorite) with a 2-7mm qz veinlet and massive qz. Diss cpy+py seen in the qz. The Qz veinlet is 20 degrees to CA
45.30	45.60	diorite	veinlet, diss	minor sulfide	kspar,qz, hem, py,cpy, sph(?)		dark pinkish diorite with local mm sized qz veinlets and hematite veinlets. Local diss py+cpy and sphalerite(?)
45.6	46.30						
46.30	47.30						
47.30	48.05						
48.05	48.64						
48.64	48.76						
48.76	49.65	diorite	massive, diss	sulfide	qz, kspar, gal, sph, cpy		dark pinkish silicified diorite (veinlet and massive qz) with massive/diss galena (sphalerite) and cpy in qz
49.65	50.36	dark pinkish diorite	stockwork, diss		kspar, qz, chl, cpy		dark pinkish diorite with qz stockwork and local chl alt'n of feldspar. Occ diss cpy in qz
50.36	51.10						
51.10	51.68						
51.68	51.98						
51.98	52.60						
52.60	53.10						
53.10	53.95						
53.95	54.72						
54.72	54.74						
54.74	55.70						
55.70	56.53						
56.53	57.76						
57.76	57.78						
57.78	59.15						
59.15	59.94	dark pinkish diorite	diss	minor sulfide	kspar, qz, cpy, galena,		dark pinkish diorite with local silicification and diss cpy+galena. Light to dark greenish diorite seen locally.
59.94	60.80						
60.8	60.82						

From (m)	To (m)	Rock Type	Structures	Mineralization Type	Minerals	Mag. Susceptibility	Description
60.82	61.77						
61.77	62.15						
62.15	63.15						
64.26	64.95	dark grey diorite	diss	sulfide	kspar,qz, py/cpy		dark pinkish diorite with local qz veinlets. Occ diss py/cpy
64.95	65.86						
65.86	66.88						
66.88	67.53						
67.53	68.55						
68.55	69.62						
69.62	69.92						
69.92	70.22						
70.22	70.95						
70.95	72.00						
72.00	72.96						
72.96	72.98						
72.98	74.05						
74.05	74.95						
74.95	76.00						
76.00	76.64						
76.64	77.06						
77.06	78.00	silicified diorite	diss	sulfide	chl, kspar, cpy+py		dark grey, dark greenish and dark pinkish silicified diorite with diss cpy+py
78.00	78.90						
78.90	79.04						
79.04	79.40						
79.40	80.10						
80.10	80.60	dark pinkish diorite			kspar, chl		light/dark pinkish and light grey-brownish diorite with weak wearhering and weak chl alt'n
80.60	82.08						
82.08	82.83						
82.83	84.12	dark pinkish diorite			kspar		dark pinkish diorite
84.12	85.12						
85.12	85.14						
85.14	86.65						
86.65	87.90						
87.90	88.16	pinkish /greenish diorite			kspar, chl, qz		dark pinkish/light greenish diorite with local silicification
88.16	89.10						
89.10	90.38	dark pinkish diorite			kspar,qz, chl		dark pinkish diorite with local qz veinlets and weak chl alt'n
90.38	91.20						
91.2	91.75						
91.75	93.05						
93.05	93.95						
93.95	94.24	Fault zone	cataclastic		chl, kspar		grey/dark grey, light/dark greenish and dark pinkish silicified

From (m)	To (m)	Rock Type	Structures	Mineralization Type	Minerals	Mag. Susceptibility	Description
94.24	94.40						cataclasticsand cataclastic diorite
94.40	94.80						
94.80	95.80						
95.80	97.28						
97.28	98.00						
98.00	98.25						
98.25	98.95						
98.95	100.32	dark pinkish diorite			kspar, chl		dark pinkish diorite with chl alteration of feldspar
100.32	101.37						
101.37	102.25						
102.25	103.00						
103.00	103.36						
103.36	103.90						
103.90	105.00						
105.00	192.55	Fault zone					
105.00	106.00	cataclastic diorite, cataclastics, breccia and gouge	cataclastic, diss		chl, hem, kspar, clays		light greenish and light pinkish cataclastics, breccaited silicified diorite; grey- brownish cataclastics, gouge and breccia with local hematite; dark greenish/dark reddish cataclastics and gouge
106.00	106.40						
106.4	106.50						
106.50	106.85						
106.85	108.00						
108.00	109.44						
109.44	110.10						
110.10	110.90						
110.90	111.95						
111.95	112.48						
112.48	112.98						
112.98	113.80						
113.80	114.65						
114.65	115.52						
115.52	116.10						
116.10	116.88						
116.88	118.56						
118.56	119.40						
119.40	120.30						
120.30	121.60						
121.60	122.55						
122.55	123.00						
123.00	123.90						
123.90	124.64	cataclastic diorite, cataclastics, breccia and					
124.64	125.05		cataclastic, diss	sulfide	chl, hem, kspar, clays, cpy+py		mineralized zone: dark greenish cataclastics and cataclastic diorite with local dark reddish/dark pinkish cataclastics and local breccia. Diss cpy+py
125.05	126.10						
126.10	127.18						

From (m)	To (m)	Rock Type	Structures	Mineralization Type	Minerals	Mag. Susceptibility	Description
127.18	127.68	gouge					
127.68	128.50						
128.50	129.90						
129.90	130.72						
130.72	130.80						
130.80	131.51						
131.51	132.30						
132.30	133.53						
133.53	133.76						
133.76	135.15						
135.15	136.15						
136.15	136.80						
136.8	137.20						
137.20	138.25						
138.25	139.10						
139.10	139.84						
139.84	140.12						
140.12	141.00						
141.00	141.93						
141.93	142.88						
142.88	144.05						
144.05	144.61						
144.61	145.37						
145.37	145.92						
145.92	146.80						
146.80	147.20						
147.20	147.65						
147.65	148.57						
148.57	148.96						
148.96	149.70						
149.70	150.45						
150.45	151.81						
151.81	152.00						
152	152.38						
152.38	153.13						
153.13	153.66	cataclastic diorite, cataclastics, breccia	cataclastic		chl, hem, kspar		light greenish/dark reddish/dark pinkish cataclastics, cataclastic diorite and breccias
153.66	154.90						
154.90	155.04	cataclastic diorite, breccia	cataclastic, diss, veinlet	minor sulfide	chl, kspar,qz, cpy+py		light-dark greenish/dark pinkish cataclastic diorite with local qz veinlet, breccias and diss cpy+py
155.04	155.70						
155.70	156.80						

From (m)	To (m)	Rock Type	Structures	Mineralization Type	Minerals	Mag. Susceptibility	Description
156.80	158.08						
158.08	159.00						
159.00	159.85						
159.85	160.60						
160.60	161.12						
161.12	161.50						
161.50	162.65						
162.65	163.35						
163.35	164.06						
164.06	164.16						
164.16	165.06						
165.06	166.03						
166.03	166.59						
166.59	167.20	cataclastic diorite, cataclastics, breccia	cataclastic, diss, massive	sulfide	chl,hem,cpy+py, kspar		light-dark greenish/dark reddish cataclastics, cataclastic diorite, breccias and diss cpy+py, local massive cpy+py. Dark pinkish cataclastic diorite seen locally
167.2	167.77						
167.77	168.65						
168.65	169.60						
169.60	170.24						
170.24	170.40						
170.40	171.42						
171.42	172.12						
172.12	173.06						
173.06	173.28						
173.28	174.10						
174.10	174.98						
174.98	175.70						
175.70	176.32						
176.32	177.25	cataclastic diorite	cataclastic		chl, kspar		light-dark greenish/dark pinkish cataclastic diorite
177.25	178.40	diorite, cataclastic diorite	cataclastic, diss	sulfide	chl, kspar, cpy+py, qz		light-dark greenish/dark pinkish diorite and cataclastic diorite with diss cpy+py and local qz veinlets
178.40	179.36						
179.36	180.36						
180.36	181.60						
181.60	182.40						
182.40	183.20						
183.20	183.87						
183.87	184.42						
184.42	184.92	cataclastic diorite, cataclastics,	cataclastic		chl, kspar, hem		light-dark greenish/dark pinkish diorite and cataclastic diorite with local reddish cataclastics and hemtite veinlets
184.92	185.44						
185.44	186.05	cataclastic s, breccias	cataclastic, diss	sulfide	chl,kspar, hem, cpy+py		dark geenish cataclastics and breccias with local dark pinkish/reddish cataclastics and diss cpy+py
186.05	186.95						

From (m)	To (m)	Rock Type	Structures	Mineralization Type	Minerals	Mag. Susceptibility	Description
186.95	187.75						
187.75	188.48						
188.48	189.48						
189.48	190.10						
190.10	191.20						
191.20	191.52	cataclastic diorite, cataclastics,	cataclastic		kspar, chl		dark pinkish/dark greenish cataclastic diorite and cataclastics
191.52	192.55						
192.55	193.80	diorite	diss	sulfide	chl, kspar, qz, cpy+py		dark greenish/dark pinkish diorite with local diss cpy+py and silicification
193.80	194.47						
194.47	194.56						
194.56	195.05						
195.05	195.57						
195.57	196.50						
196.50	197.50						
197.50	197.60						
197.6	198.12						
198.12	198.67						
198.67	199.21						
199.21	200.19						
200.19	214.78	Fault zone					
200.19	200.64	diorite, cataclastic diorite and cataclastics	cataclastic, diss, massive, veinlet	sulfide	chl,cpy+py, qz		dark greenish-dark grey diorite, cataclastic diorite and cataclastics with diss and local massive cpy+py and local massive/veinleted qz.
200.64	200.78						
200.78	201.58						
201.58	202.34						
202.34	203.20						
203.20	203.68						
203.68	204.00						
204.00	204.95						
204.95	205.77						
205.77	206.27						
206.27	206.72						
206.72	207.32						
207.32	207.92						
207.92	208.52	cataclastic silicifide diorite	cataclastic, diss, massive,	sulfide	chl,qz, cpy+py		dark greenish-dark grey cataclastic silicified diorite with diss massive cpy+py
208.52	209.35						
209.35	209.51						
209.51	209.76						
209.76	210.55						
210.55	211.38	cataclastic diorite, cataclastics	cataclastic, brecciated, diss,	sulfide	chl, cpy+py, local qz, and occ carb		dark greenish-dark grey cataclastics, cataclastic diorite and breccias with diss cpy+py. Local qz veinlets and occ carb veinlets.
211.38	212.15						
212.15	212.80						

From (m)	To (m)	Rock Type	Structures	Mineralization Type	Minerals	Mag. Susceptibility	Description
212.80	213.20	and breccia					
213.20	214.00						
214.00	214.65						
214.65	215.35	silicified diorite	diss/massive	sulfide	chl, qz, cpy+py		dark greenish-dark grey silicified diorite with diss/massive cpy+py.
215.35	215.84						
215.84	216.00						
216.00	216.74						
216.74	217.36						
217.36	218.05						
218.05		Fault zone					
218.05	218.88	cataclastics	cataclastic	minor sulfide	chl, qz, cpy+py		dark grey-dark greenish cataclastics with local qz veinlets and diss cpy+py
218.88	219.76						
219.76	220.57						
220.57	221.49						
221.49	221.92	cataclastics, clays	cataclastic		chl, clays		dark greenish-dark grey and brownish gouge and cataclastics
221.92	223.00						
223.00	223.50						
223.50	224.33	cataclastics, clays	cataclastic, diss/massive	sulfide	hem ,chl, clays, kspar, cpp+py, qz		dark grey-dark reddish, light-dark greenish cataclastics, breccias and gouge with local dark pinkish cataclastics and diss/massive cpy+py. Veinleted/massive qz seen locally
224.33	224.96						
224.96	225.10						
225.10	226.15						
226.15	227.15						
227.15	228.00						
228.00	229.00						
229.00	229.85						
229.85	230.70						
230.70	231.04	cataclastic diorite, cataclastics	cataclastic, diss/massive	minor sulfide	chl, kspar, qz, cpy+py		dark greenish/dark pinkish cataclastics and cataclastic diorite with silicification and diss/massive cpy+py
231.04	231.24						
231.24	232.30						
232.30	233.40						
233.40	234.08						
234.08	235.05	cataclastic diorite, cataclastics, breccia	cataclastic, diss/massive	sulfide	chl, qz, cpy+py		dark -light greenish cataclastics and cataclastic diorite with local silicification and brecciated diorite. diss/massive cpy+py
235.05	235.78						
235.78	236.76						
236.76	237.12						
237.12	237.76						
237.76	238.50	cataclastic diorite, cataclastics,	cataclastic, diss/massive	sulfide	chl, hem, qz, cpy+py		dark-light greenish with local light-dark reddish cataclastics, cataclastic diorite and local silicification and. Diss/massive cpy+py
238.50	240.00						
240.00	240.16						
240.16	240.63						
240.63	241.37						
241.37	241.97						

From (m)	To (m)	Rock Type	Structures	Mineralization Type	Minerals	Mag. Susceptibility	Description
241.97	242.93	clays, cataclastics	cataclastic		clays, hem		grey-brownish with local dark reddish gouge and cataclastics
242.93	243.20	cataclastic diorite, clays	cataclastic		chl, hem, kspar, clays, carb		light-dark greenish with local light-dark reddish and dark pinkish cataclastic diorite and gouge. A 15cm calcite vein seen at 244.63-244.78m.
243.2	243.80						
243.80	244.63						
244.63	244.78						
244.78	246.00						
246.00	246.24						
246.24	246.85						
246.85	247.42						
247.42	248.20	cataclastic diorite, cataclastics, breccia and gouge	cataclastic, brecciated, diss	minor sulfide	chl, hem, clays, qz, cpy+py		dark-light greenish, grey -dark reddish cataclastics, breccias and gouge with local silicification and diss cpy+py.
248.20	249.00						
249.00	249.28						
249.28	250.14						
250.14	250.80						
250.80	251.52						
251.52	252.17						
252.17	252.32						
252.32	253.08						
253.08	254.08	cataclastic diorite	cataclastic, str/diss /massive	sulfide	chl, qz, cpy+py		dark greenish cataclastic diorite with str/diss/massive cpy+py and local silicification
254.08	255.03						
255.03	255.36						
255.36	255.91						
255.91	256.91						
256.91	257.74						
257.74	258.40						
258.40	259.00						
259.00	259.95						
259.95	260.60	cataclastic diorite, cataclastics	cataclastic, diss /massive	sulfide	chl, hem, kspar, qz, cpy+py		dark greenish with local dark reddish and dark pinkish cataclastics and cataclastic diorite. Local silicification with diss/massive cpy+py
260.60	261.20	cataclastic diorite	cataclastic, diss /massive/str	sulfide	chl, kspar, qz, cpy+py		dark greenish-dark pinkish cataclastic diorite with local diss/massive/str cpy+py. Local silicification and qz/carb veinlets
261.20	261.44						
261.44	261.85						
261.85	262.60						
262.60	263.25						
263.25	263.96						
263.96	264.48						
264.48	264.58						
264.58	265.50						
265.50	266.05						
266.05	266.63						

From (m)	To (m)	Rock Type	Structures	Mineralization Type	Minerals	Mag. Susceptibility	Description
266.63	267.12						
267.12	267.52						
267.52	268.08						
268.08	269.08						
269.08	270.10						
270.10	270.56						
270.56	270.70						
270.70	271.36	cataclastic diorite	cataclastic, diss /massive	sulfide	chl, qz, cpy+py, carb		dark greenish-dark grey cataclastic diorite with local silisification and diss/massive cpy+py. Local 2mm-1.5cm calcite veins with diss cpy+py.
271.36	272.12						
272.12	272.78						
272.78	273.60						
273.6	273.70						
273.70	274.55						
274.55	275.00						
275.00	275.30						
275.30	276.23						
276.23	276.64						
276.64	277.05						
277.05	278.20						
278.20	278.95						
278.95	279.48	cataclastic diorite	cataclastic, diss /massive	sulfide	chl, kspar, qz, cpy+py		dark greenish-dark pinkish cataclastic diorite with local silicification and diss/massive cpy+py
279.48	279.68						
279.68	280.14						
280.14	280.74						
280.74	281.80	cataclastic diorite	cataclastic, diss /str	sulfide	chl, qz, hem, cpy+py		dark greenish-dark grey cataclastic diorite local silicification, hematite veinlets and diss/str cpy+py
281.80	282.56						
282.56	282.72						
282.72	283.50						
283.50	284.22						
284.22	284.72						
284.72	285.15						
	285.15						EOH

APPENDIX III - DRILL HOLE CORE ASSAYS

Tables presented in this appendix have been modified from the original to include sample intervals, maintain sample interval order and include fire assays results for Cu samples over 10,000ppm.

Pioneer Laboratories Inc. Report Numbers: 2092465 (Samples: 287616-287657); 2092479 (Samples: 287658-287739); 2092518 (Samples: 287740-287754)

09-SND-13																			
Sample		From	To	Interval	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn
No.		metres	metres	metres	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm
287616	1/2 core	0.00	2.46	2.46	.1	.63	11	<5	246	<10	.13	4	16	44	541	3.65	.24	.24	1086
287617	1/2 core	2.46	2.76	0.30	.4	.68	15	<5	122	<10	.10	15	14	54	970	3.45	.25	.27	1149
287618	1/2 core	2.76	2.93	0.17	1.9	.23	9	<5	581	<10	.07	134	10	96	1246	1.90	.22	.02	535
287619	1/2 core	2.93	3.45	0.52	.1	.37	15	<5	57	<10	.08	9	6	21	135	2.99	.09	.23	511
287620	1/2 core	3.45	3.90	0.45	.9	.98	17	5	110	<10	.07	8	20	49	1244	4.98	.22	.37	879
287621	1/2 core	3.90	4.53	0.63	.1	.92	8	<5	151	<10	.10	6	13	47	659	3.03	.19	.44	843
287622	1/2 core	4.53	5.28	0.75	.4	1.09	10	<5	96	<10	.09	4	16	62	592	3.64	.19	.47	994
287623	1/2 core	5.28	6.08	0.80	.3	1.09	11	<5	136	<10	.08	2	17	61	629	3.65	.17	.48	1166
287624	1/2 core	6.08	6.31	0.23	1.3	1.12	35	<5	159	<10	.09	3	19	86	1368	4.37	.23	.45	935
287625	1/2 core	6.31	6.80	0.49	.4	.84	38	<5	233	<10	.08	5	51	49	959	5.40	.21	.32	2078
287626	1/2 core	6.80	7.26	0.46	.3	.67	14	<5	270	<10	.07	3	21	75	1758	3.16	.25	.24	936
287627	1/2 core	7.26	7.91	0.65	2.8	.50	61	<5	63	<10	.04	1	5	71	3183	4.02	.18	.10	227
287628	1/2 core	7.91	8.49	0.58	1.7	.22	121	<5	42	<10	.04	4	6	65	546	5.17	.20	.02	81
287629	1/2 core	8.49	8.95	0.46	2.7	.39	38	<5	68	<10	.04	2	3	94	1228	3.28	.18	.05	91
287630	1/2 core	8.95	9.51	0.56	.7	.87	21	<5	102	<10	.02	5	18	53	3668	4.21	.23	.29	767
287631	1/2 core	9.51	10.06	0.55	.9	.55	23	<5	111	<10	.03	10	24	103	1791	3.94	.13	.18	1214
287632	1/2 core	10.06	10.61	0.55	.8	.35	18	7	42	<10	.08	24	22	81	2239	5.51	.16	.17	1404
287633	standard 1: CDN-CGS-16				1.0	1.88	53	5	147	<10	4.52	2	21	36	1090	4.81	.33	1.87	802
287634	blank2				.1	2.46	17	<5	74	<10	1.80	<1	8	46	67	2.83	.09	.43	201
287635	1/2 core	10.61	11.30	0.69	1.6	.28	125	<5	549	<10	.06	59	26	108	2708	3.43	.22	.05	1345
287636	1/2 core	11.30	12.16	0.86	.7	.31	33	<5	38	<10	.07	33	16	75	1356	3.53	.22	.07	1119
287637	1/2 core	12.16	12.73	0.57	.6	.30	29	6	74	<10	.06	27	15	88	1606	3.48	.21	.06	1089
287638	1/2 core	12.73	13.53	0.80	.8	.73	27	5	141	<10	.08	23	19	74	1574	4.69	.18	.41	1471
287639	1/2 core	13.53	14.25	0.72	1.8	.61	43	<5	91	<10	.07	50	28	63	2015	4.23	.19	.26	1247
287640	1/2 core	14.25	14.35	0.10	.4	.32	42	<5	339	<10	.60	391	29	164	312	2.93	.09	.38	1640
287641	1/2 core	14.35	15.20	0.85	.3	1.30	41	<5	179	<10	.10	28	28	51	154	5.65	.18	.61	1817
287642	1/2 core	15.20	16.00	0.80	.1	1.05	5	<5	740	<10	.58	5	16	53	235	4.31	.22	.62	1614
287643	1/2 core	16.00	16.65	0.65	.5	1.35	24	<5	231	<10	.34	2	17	60	443	4.78	.19	.71	1503
287644	1/2 core	16.65	17.45	0.80	.1	.93	9	<5	129	<10	.55	1	14	64	310	2.89	.20	.52	1039
287645	1/2 core	17.45	18.24	0.79	.3	1.00	18	<5	123	<10	.53	<1	10	51	298	2.95	.20	.57	1041
287646	1/2 core	18.24	19.24	1.00	.4	1.02	5	<5	181	<10	.49	<1	12	55	434	2.83	.19	.52	913
287647	1/2 core	19.24	19.69	0.45	1.6	.42	49	<5	336	<10	.36	17	15	64	2017	2.29	.19	.16	729
287648	1/2 core	19.69	20.09	0.40	1.8	1.02	102	<5	106	<10	.17	79	38	62	2548	4.68	.16	.55	1427
287649	1/2 core	20.09	20.39	0.30	.1	.33	26	<5	271	<10	1.03	4	9	73	303	1.68	.23	.34	706
287650	standard 1: CDN-CGS-16				1.1	1.91	52	<5	135	<10	3.87	2	21	34	1067	4.77	.30	1.76	747
287651	blank2				.1	2.52	5	<5	101	<10	1.49	<1	8	41	58	2.37	.09	.40	176
287652	1/2 core	20.39	20.44	0.05	1.4	.33	11	<5	110	<10	.41	139	14	110	965	2.22	.26	.36	717
287653	1/2 core	20.44	20.86	0.42	.1	.41	18	<5	109	<10	.62	1	10	63	439	1.95	.19	.43	724
287654	1/2 core	20.86	21.28	0.42	.5	.72	31	<5	31	<10	.55	42	11	60	204	1.94	.17	.48	798
287655	1/2 core	21.28	21.85	0.57	1.2	.88	49	<5	137	<10	.32	4	22	65	830	2.57	.18	.46	974
287656	1/2 core	21.85	22.67	0.82	.5	.52	25	<5	344	<10	.68	8	6	58	256	1.51	.17	.36	600

Sample		From	To	Interval	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn
No.		metres	metres	metres	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm
287657	1/2 core	22.67	23.20	0.53	.1	.51	36	<5	125	<10	.99	16	7	52	321	1.60	.15	.39	716
287658	1/2 core	23.20	23.80	0.60	.1	.43	25	5	611	<10	.87	47	7	71	438	1.55	.19	.29	604
287659	1/2 core	23.80	24.22	0.42	.2	.63	19	<5	129	<10	.62	13	9	69	323	1.94	.23	.32	639
287660	1/2 core	24.22	24.32	0.10	6.0	.61	117	<5	45	12	.10	213	121	213	10715	3.65	.10	.21	539
287661	1/2 core	24.32	25.13	0.81	.1	.73	11	<5	86	<10	.99	3	9	86	240	2.01	.16	.46	780
287662	1/2 core	25.13	25.66	0.53	.2	.92	12	<5	219	<10	.71	2	13	93	300	2.39	.22	.48	941
287663	1/2 core	25.66	26.46	0.80	3.7	.72	10	<5	125	<10	1.12	1	7	87	473	1.99	.19	.45	784
287664	1/2 core	26.46	27.36	0.90	.1	.55	22	<5	104	<10	1.30	3	6	92	280	1.80	.20	.35	635
287665	1/2 core	27.36	28.36	1.00	.1	.51	14	<5	179	<10	1.14	1	7	84	203	1.76	.19	.42	602
287666	1/2 core	28.36	28.75	0.39	.4	.76	39	<5	110	<10	.51	2	36	99	480	4.19	.20	.51	1165
287667	1/2 core	28.75	29.50	0.75	.1	.52	5	5	73	<10	2.17	3	6	78	297	1.58	.23	.24	793
287668	standard 1: CDN-CGS-16				1.3	1.92	52	6	151	<10	4.62	4	22	45	1040	5.39	.34	1.94	803
287669	blank2				.1	2.88	8	<5	71	<10	1.83	1	6	61	47	2.22	.07	.42	165
287670	1/2 core	29.50	29.88	0.38	1.0	.73	28	<5	466	<10	.89	3	9	92	702	2.10	.22	.30	541
287671	1/2 core	29.88	30.47	0.59	.1	.57	9	<5	976	<10	2.30	1	6	72	173	1.48	.21	.30	768
287672	1/2 core	30.47	30.95	0.48	.8	1.17	14	5	92	12	.67	4	47	88	450	4.46	.20	.51	1127
287673	1/2 core	30.95	31.57	0.62	.1	.71	16	<5	217	<10	.81	2	7	91	166	1.93	.13	.58	558
287674	1/2 core	31.57	32.32	0.75	.1	.77	9	<5	163	<10	.88	1	6	94	150	2.05	.14	.57	690
287675	1/2 core	32.32	32.97	0.65	.2	.78	14	<5	134	<10	.99	2	7	98	122	1.96	.16	.51	770
287676	1/2 core	32.97	33.52	0.55	.5	1.19	16	<5	179	<10	.87	20	11	118	596	2.78	.23	.59	1235
287677	1/2 core	33.52	34.10	0.58	1.0	1.14	26	<5	131	<10	.96	3	16	138	417	2.76	.25	.46	1077
287678	1/2 core	34.10	35.05	0.95	.5	.94	19	<5	123	<10	.94	4	19	97	278	2.05	.24	.47	814
287679	1/2 core	35.05	35.85	0.80	.1	.74	17	<5	214	<10	1.44	2	7	83	163	1.80	.18	.49	666
287680	1/2 core	35.85	36.05	0.20	.2	.14	6	<5	12	<10	.10	4	2	21	180	.31	.04	.06	92
287681	1/2 core	36.05	37.10	1.05	.1	.82	12	<5	153	<10	1.33	2	6	84	252	1.82	.17	.58	806
287682	1/2 core	37.10	37.80	0.70	1.2	1.04	52	<5	137	<10	.49	11	10	83	470	2.32	.22	.44	908
287683	1/2 core	37.80	38.40	0.60	1.1	.75	28	<5	399	<10	.95	3	11	105	647	2.00	.26	.34	822
287684	1/2 core	38.40	39.14	0.74	.6	.42	17	<5	647	<10	.66	4	10	57	183	2.61	.22	.21	602
287685	standard 1: CDN-CGS-16				1.2	1.99	50	<5	147	<10	4.66	5	23	45	1010	5.30	.34	1.94	820
287686	blank2				.1	2.53	6	<5	275	<10	1.77	1	9	61	45	2.58	.08	.46	212
287687	1/2 core	39.14	39.80	0.66	.1	.65	5	5	80	<10	.25	2	5	83	74	1.13	.25	.28	228
287688	1/2 core	39.80	40.45	0.65	.2	.89	14	<5	362	<10	.88	4	8	94	129	2.05	.19	.54	614
287689	1/2 core	40.45	41.10	0.65	.1	.76	6	<5	327	<10	.92	2	6	73	97	1.81	.13	.58	511
287690	1/2 core	41.10	41.75	0.65	.2	.78	13	<5	498	<10	.83	3	7	91	135	1.87	.12	.62	527
287691	1/2 core	41.75	42.20	0.45	.1	.86	5	<5	819	<10	.93	7	8	95	160	2.07	.19	.55	665
287692	1/2 core	42.20	43.08	0.88	.1	.67	8	<5	155	<10	.52	8	5	69	166	1.39	.22	.32	520
287693	1/2 core	43.08	44.30	1.22	.2	.89	9	<5	577	<10	.61	7	7	68	201	2.08	.16	.59	770
287694	1/2 core	44.30	45.00	0.70	.8	.74	18	<5	881	<10	1.19	3	6	79	140	1.89	.18	.51	599
287695	1/2 core	45.00	45.60	0.60	.1	.82	5	<5	62	<10	2.05	4	7	78	155	1.97	.17	.55	854
287696	1/2 core	45.60	46.20	0.60	.2	.76	4	<5	379	<10	.86	6	8	81	196	1.88	.20	.45	792
287697	1/2 core	46.20	46.70	0.50	.1	.69	19	<5	121	<10	.20	7	7	65	221	1.63	.18	.44	552
287698	1/2 core	46.70	47.30	0.60	.2	.76	6	<5	172	<10	.25	4	8	52	366	1.72	.21	.33	614
287699	1/2 core	47.30	47.80	0.50	.1	.85	9	5	211	<10	.28	3	7	65	581	1.79	.25	.26	573
287700	1/2 core	47.80	48.30	0.50	.2	.66	5	<5	150	<10	.31	4	5	70	569	1.29	.26	.16	496
287701	standard 1: CDN-CGS-16				1.1	1.86	58	6	147	<10	4.76	2	23	40	1045	5.25	.34	1.94	824
287702	blank2				.1	2.30	12	<5	62	<10	1.76	2	6	50	36	2.18	.08	.39	162
287703	1/2 core	48.30	48.90	0.60	.5	.91	11	<5	144	<10	.26	4	7	67	716	2.11	.24	.43	627

Sample		From	To	Interval	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn
No.		metres	metres	metres	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm
287704	1/2 core	48.90	49.30	0.40	.3	.95	5	<5	115	<10	.27	3	8	56	608	2.06	.23	.48	586
287705	1/2 core	49.30	49.90	0.60	1.1	.73	9	6	124	<10	.40	5	7	54	393	1.49	.30	.21	450
287706	1/2 core	49.90	50.88	0.98	.3	.92	12	<5	166	<10	.23	6	12	67	518	2.20	.27	.39	773
287707	1/2 core	50.88	51.10	0.22	1.1	.98	19	<5	246	<10	.10	4	23	121	644	2.36	.17	.43	732
287708	1/2 core	51.10	51.68	0.58	1.2	1.49	62	<5	108	<10	.13	9	44	96	600	4.12	.24	.64	1194
287709	1/2 core	51.68	52.35	0.67	.7	1.02	11	<5	97	<10	.17	5	12	76	406	2.41	.22	.61	940
287710	1/2 core	52.35	52.90	0.55	.3	1.44	7	<5	99	<10	.16	6	14	84	405	3.43	.25	.69	1294
287711	1/2 core	52.90	53.59	0.69	.5	1.26	6	<5	58	<10	.17	4	23	55	411	2.87	.24	.62	1004
287712	1/2 core	53.59	54.12	0.53	.8	1.31	11	<5	72	<10	.25	6	21	88	395	3.46	.27	.48	798
287713	1/2 core	54.12	54.72	0.60	1.2	1.06	57	6	1136	<10	1.17	21	63	63	897	3.90	.26	.28	3420
287714	1/2 core	54.72	54.90	0.18	1.5	.51	27	5	426	<10	.20	5	12	154	463	1.26	.23	.10	504
287715	1/2 core	54.90	55.80	0.90	.6	.94	23	<5	1064	<10	.13	4	11	78	326	2.16	.28	.32	490
287716	1/2 core	55.80	56.73	0.93	.4	1.11	5	<5	417	<10	.14	3	13	87	392	2.32	.29	.55	885
287717	standard 1: CDN-CGS-16				1.2	1.93	50	5	145	<10	4.99	2	25	45	1025	4.96	.35	1.99	803
287718	blank2				.1	2.96	10	<5	74	<10	2.12	2	7	73	41	2.44	.09	.48	186
287719	1/2 core	56.73	57.40	0.67	.2	1.09	15	<5	141	<10	.14	3	19	126	302	2.43	.29	.43	845
287720	1/2 core	57.40	58.10	0.70	.3	1.18	26	<5	71	<10	.13	4	13	87	377	2.76	.25	.56	944
287721	1/2 core	58.10	58.73	0.63	.5	1.24	17	<5	46	<10	.12	5	15	77	403	2.90	.26	.57	1097
287722	1/2 core	58.73	59.15	0.42	.3	.97	6	<5	60	<10	.14	3	9	98	416	2.11	.25	.59	905
287723	1/2 core	59.15	59.65	0.50	.4	.98	11	<5	78	<10	.16	5	8	115	356	1.85	.31	.58	777
287724	1/2 core	59.65	60.40	0.75	.3	1.39	22	<5	38	<10	.13	4	13	76	296	3.05	.26	.70	1266
287725	1/2 core	60.40	61.12	0.72	.6	1.23	24	<5	103	<10	.14	6	16	101	481	2.98	.24	.54	982
287726	1/2 core	61.12	62.30	1.18	.2	.91	19	<5	53	<10	.18	4	11	73	413	2.28	.20	.61	667
287727	1/2 core	62.30	63.00	0.70	.4	1.30	33	<5	100	<10	.16	5	16	71	521	3.23	.23	.67	1049
287728	1/2 core	63.00	63.84	0.84	.2	.75	19	6	2676	<10	.18	4	11	87	391	1.96	.22	.34	622
287729	1/2 core	63.84	64.52	0.68	.1	.37	14	5	90	<10	.17	3	6	70	445	1.20	.23	.12	402
287730	1/2 core	64.52	65.35	0.83	.2	1.05	16	<5	54	<10	.51	5	10	26	457	2.01	.31	.32	355
287731	1/2 core	65.35	66.35	1.00	.1	2.74	25	<5	49	<10	.35	8	30	18	713	6.15	.28	1.15	1489
287732	1/2 core	66.35	66.88	0.53	.4	.77	14	<5	125	<10	.32	4	6	37	527	1.09	.23	.35	545
287733	standard 1: CDN-CGS-16				1.1	1.75	52	<5	142	<10	4.72	5	20	39	1030	4.80	.33	1.84	802
287734	blank2				.1	2.13	6	<5	35	<10	1.65	2	6	49	47	1.70	.06	.31	145
287735	1/2 core	66.88	68.10	1.22	.3	.65	11	<5	204	<10	.26	4	7	46	388	1.27	.20	.37	855
287736	1/2 core	68.10	68.50	0.40	.1	1.00	9	<5	220	<10	.44	5	11	37	335	1.89	.16	.70	933
287737	1/2 core	68.50	68.95	0.45	.1	1.07	15	<5	77	<10	.31	4	9	65	389	2.32	.15	.76	439
287738	1/2 core	68.95	69.92	0.97	.2	1.00	18	<5	42	<10	.30	5	10	63	247	2.62	.12	.78	361
287739	1/2 core	69.92	70.95	1.03	.1	.89	15	<5	68	<10	.29	6	9	90	196	2.53	.11	.69	330
287740	1/2 core	70.95	71.68	0.73	1.4	.84	<5	<5	156	<10	.28	3	7	90	240	2.32	.10	.71	487
287741	1/2 core	71.68	72.45	0.77	.9	1.08	10	<5	114	<10	.21	2	9	76	518	2.89	.11	.75	1128
287742	1/2 core	72.45	72.96	0.51	1.0	1.40	9	<5	100	<10	.19	4	11	88	862	3.72	.15	.78	1583
287743	1/2 core	72.96	74.00	1.04	.8	.93	18	<5	202	<10	.28	3	7	76	378	2.61	.08	.72	724
287744	1/2 core	74.00	75.28	1.28	1.7	.74	11	<5	572	<10	.30	2	5	80	196	2.19	.09	.63	401
287745	1/2 core	75.28	76.50	1.22	.7	.80	8	<5	310	<10	.27	3	6	96	245	2.18	.11	.66	474
287746	1/2 core	76.50	77.70	1.20	.6	.83	<5	<5	148	<10	.31	3	7	97	292	2.26	.14	.65	551
287747	1/2 core	77.70	79.04	1.34	.5	.93	9	<5	290	<10	.29	2	6	102	374	2.37	.15	.67	713
287748	1/2 core	79.04	80.20	1.16	.6	.83	14	<5	207	<10	.26	3	7	94	253	2.25	.13	.63	549
287749	standard 1: CDN-CGS-16				1.2	1.70	56	<5	147	<10	3.69	2	17	38	1017	4.71	.32	1.53	814
287750	blank2				missing														

Sample		From	To	Interval	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn
No.		metres	metres	metres	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm
287751	1/2 core	80.20	81.40	1.20	.7	.72	11	<5	278	<10	.36	3	6	103	174	2.10	.12	.50	377
287752	1/2 core	81.40	82.63	1.23	.5	.81	<5	5	193	<10	.33	2	5	100	235	2.37	.14	.52	635
287753	1/2 core	82.63	84.00	1.37	.4	.73	15	<5	236	<10	.65	3	6	86	191	2.12	.11	.50	369
287754	1/2 core	84.00	85.12	1.12	.5	.82	<5	<5	202	<10	.97	4	4	114	188	2.18	.17	.57	450

Pioneer Laboratories Inc. Report Numbers: 2092465 (Samples: 287616-287657); 2092479 (Samples: 287658-287739); 2092518 (Samples: 287740-287754); 2092496 (Samples: 287618; 287640; 287652; 287660)

09-SND-13																			
Sample		From	To	Interval	Mo	Na	Ni	P	Pb	S	Sb	Sn	Sr	Te	Ti	Tl	V	Zn	Au*
No.		metres	metres	metres	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
287616	1/2 core	0.00	2.46	2.46	7	.02	5	.05	19	.26	<2	<2	6	6	.01	<5	11	497	10
287617	1/2 core	2.46	2.76	0.30	15	.02	5	.05	81	.12	<2	<2	4	7	.01	<5	9	2083	8
287618	1/2 core	2.76	2.93	0.17	23	.02	4	.03	8365	.14	2	<2	9	12	.01	<5	3	15000	63
287619	1/2 core	2.93	3.45	0.52	1	.01	4	.02	16	.02	<2	<2	2	6	.01	<5	3	790	4
287620	1/2 core	3.45	3.90	0.45	28	.01	6	.04	29	.73	<2	<2	3	6	.01	<5	6	1229	70
287621	1/2 core	3.90	4.53	0.63	5	.02	6	.06	28	.10	<2	<2	4	<5	.01	<5	22	809	205
287622	1/2 core	4.53	5.28	0.75	20	.02	6	.05	30	.25	<2	<2	4	<5	.01	<5	18	434	25
287623	1/2 core	5.28	6.08	0.80	8	.02	5	.05	29	.22	<2	<2	4	<5	.01	<5	15	365	43
287624	1/2 core	6.08	6.31	0.23	18	.02	7	.05	42	.65	<2	<2	5	6	.01	<5	15	385	64
287625	1/2 core	6.31	6.80	0.49	11	.02	5	.06	34	.03	<2	<2	4	6	.01	<5	10	635	19
287626	1/2 core	6.80	7.26	0.46	13	.02	5	.06	56	.07	<2	<2	5	6	.01	<5	12	721	43
287627	1/2 core	7.26	7.91	0.65	36	.02	3	.03	480	.22	88	<2	4	<5	.01	<5	2	303	61
287628	1/2 core	7.91	8.49	0.58	28	.01	4	.04	127	.09	31	<2	9	9	.01	<5	<1	717	48
287629	1/2 core	8.49	8.95	0.46	24	.02	2	.03	92	.13	7	<2	7	7	.01	<5	3	299	53
287630	1/2 core	8.95	9.51	0.56	28	.02	5	.05	59	.52	4	<2	3	5	.01	<5	6	666	23
287631	1/2 core	9.51	10.06	0.55	22	.02	6	.03	461	.34	13	<2	2	5	.01	<5	4	1647	24
287632	1/2 core	10.06	10.61	0.55	26	.01	5	.03	80	.42	<2	<2	3	10	.01	<5	<1	2639	11
287633	standard 1: CDN-CGS-16				12	.12	28	.22	18	1.55	<2	<2	131	12	.03	<5	120	115	130
287634	blank2				1	.28	5	.09	3	.01	<2	<2	125	<5	.08	<5	175	23	4
287635	1/2 core	10.61	11.30	0.69	15	.02	6	.04	73	.34	71	<2	11	12	.01	<5	3	7155	25
287636	1/2 core	11.30	12.16	0.86	20	.02	6	.04	586	.24	18	<2	3	7	.01	<5	5	3397	10
287637	1/2 core	12.16	12.73	0.57	15	.02	4	.04	307	.34	9	<2	4	7	.01	<5	4	2738	21
287638	1/2 core	12.73	13.53	0.80	24	.01	5	.04	44	.53	10	<2	5	<5	.01	<5	7	1951	20
287639	1/2 core	13.53	14.25	0.72	28	.02	6	.04	89	.78	56	<2	3	11	.01	<5	5	5401	46
287640	1/2 core	14.25	14.35	0.10	23	.02	6	.01	3559	.48	<2	<2	9	22	.01	<5	<1	35700	48
287641	1/2 core	14.35	15.20	0.85	11	.02	4	.05	48	.69	<2	<2	4	5	.01	<5	7	3447	65
287642	1/2 core	15.20	16.00	0.80	5	.01	6	.06	22	.30	<2	<2	21	6	.01	<5	11	748	48
287643	1/2 core	16.00	16.65	0.65	13	.01	7	.06	59	.47	<2	<2	9	7	.01	<5	11	394	23
287644	1/2 core	16.65	17.45	0.80	8	.02	6	.06	24	.34	<2	<2	9	<5	.01	<5	17	191	7
287645	1/2 core	17.45	18.24	0.79	6	.02	7	.07	20	.19	<2	<2	10	<5	.01	<5	21	147	17
287646	1/2 core	18.24	19.24	1.00	6	.02	7	.07	22	.34	<2	<2	11	<5	.01	<5	22	155	4
287647	1/2 core	19.24	19.69	0.45	42	.02	6	.06	451	.40	7	<2	11	<5	.01	<5	10	2116	70
287648	1/2 core	19.69	20.09	0.40	21	.01	5	.04	2990	1.48	4	<2	5	13	.01	<5	6	8096	75
287649	1/2 core	20.09	20.39	0.30	5	.02	4	.07	37	.10	<2	<2	28	<5	.01	<5	15	715	4
287650	standard 1: CDN-CGS-16				13	.11	26	.22	15	1.48	3	<2	123	10	.03	<5	121	118	135
287651	blank2				1	.25	5	.09	3	.01	<2	<2	163	<5	.07	<5	156	25	4
287652	1/2 core	20.39	20.44	0.05	8	.02	7	.06	13600	1.25	<2	<2	15	15	.01	<5	10	17700	110
287653	1/2 core	20.44	20.86	0.42	4	.02	6	.07	40	.18	6	<2	16	<5	.01	<5	14	194	34
287654	1/2 core	20.86	21.28	0.42	10	.02	6	.06	1595	.42	13	<2	10	<5	.01	<5	11	4844	28
287655	1/2 core	21.28	21.85	0.57	33	.02	7	.05	250	.41	15	<2	8	<5	.01	<5	10	747	150
287656	1/2 core	21.85	22.67	0.82	4	.02	5	.07	88	.09	20	<2	19	<5	.01	<5	17	948	5
287657	1/2 core	22.67	23.20	0.53	4	.03	5	.06	310	.18	5	<2	22	<5	.01	<5	20	2059	18

Sample		From	To	Interval	Mo	Na	Ni	P	Pb	S	Sb	Sn	Sr	Te	Ti	Tl	V	Zn	Au*
No.		metres	metres	metres	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
287658	1/2 core	23.20	23.80	0.60	9	.02	5	.04	923	.24	11	<2	19	<5	.02	<5	20	4719	40
287659	1/2 core	23.80	24.22	0.42	7	.03	4	.05	42	.18	9	<2	12	6	.01	<5	16	1880	5
287660	1/2 core	24.22	24.32	0.10	82	.02	6	.01	8623	3.25	32	<2	5	26	.01	<5	<1	27900	445
287661	1/2 core	24.32	25.13	0.81	7	.04	7	.05	27	.08	<2	<2	15	5	.02	<5	31	372	16
287662	1/2 core	25.13	25.66	0.53	27	.03	6	.04	14	.28	3	<2	13	<5	.01	<5	22	131	8
287663	1/2 core	25.66	26.46	0.80	7	.04	5	.05	11	.10	7	<2	17	5	.01	<5	32	108	4
287664	1/2 core	26.46	27.36	0.90	5	.03	6	.04	27	.08	6	<2	18	<5	.02	<5	31	297	14
287665	1/2 core	27.36	28.36	1.00	6	.04	7	.05	10	.10	7	<2	25	<5	.01	<5	27	98	3
287666	1/2 core	28.36	28.75	0.39	18	.02	4	.03	35	1.79	4	<2	13	10	.02	<5	5	166	38
287667	1/2 core	28.75	29.50	0.75	6	.03	5	.06	8	.02	5	<2	24	<5	.01	<5	22	137	9
287668	standard 1: CDN-CGS-16				16	.13	28	.18	15	1.54	3	<2	136	12	.03	<5	145	114	140
287669	blank2				1	.36	4	.08	3	.01	<2	<2	110	<5	.06	<5	155	21	3
287670	1/2 core	29.50	29.88	0.38	7	.03	7	.04	38	.28	33	<2	20	<5	.01	<5	11	318	46
287671	1/2 core	29.88	30.47	0.59	4	.02	6	.05	13	.05	5	<2	41	<5	.02	<5	26	144	6
287672	1/2 core	30.47	30.95	0.48	22	.03	5	.04	273	2.04	<2	<2	11	9	.01	<5	16	346	26
287673	1/2 core	30.95	31.57	0.62	5	.06	7	.06	7	.04	<2	<2	25	<5	.02	<5	52	145	10
287674	1/2 core	31.57	32.32	0.75	6	.05	6	.05	27	.05	<2	<2	23	<5	.03	<5	50	124	2
287675	1/2 core	32.32	32.97	0.65	5	.04	7	.06	24	.04	<2	<2	17	<5	.01	<5	41	167	12
287676	1/2 core	32.97	33.52	0.55	13	.03	8	.05	1194	.45	<2	<2	14	9	.02	<5	25	1766	85
287677	1/2 core	33.52	34.10	0.58	14	.02	7	.04	29	.47	35	<2	10	6	.01	<5	16	295	52
287678	1/2 core	34.10	35.05	0.95	9	.03	6	.05	62	.22	27	<2	14	<5	.02	<5	20	371	18
287679	1/2 core	35.05	35.85	0.80	6	.04	7	.06	9	.06	3	<2	22	<5	.01	<5	37	118	2
287680	1/2 core	35.85	36.05	0.20	2	.02	3	.01	6	.08	3	<2	2	<5	.01	<5	2	338	110
287681	1/2 core	36.05	37.10	1.05	5	.04	7	.06	12	.10	4	<2	22	<5	.02	<5	34	193	8
287682	1/2 core	37.10	37.80	0.70	19	.02	8	.05	196	.38	91	<2	9	6	.01	<5	11	1127	10
287683	1/2 core	37.80	38.40	0.60	21	.01	4	.04	19	.37	44	<2	18	<5	.03	<5	9	307	12
287684	1/2 core	38.40	39.14	0.74	20	.03	5	.06	201	.08	7	<2	17	5	.01	<5	11	418	15
287685	standard 1: CDN-CGS-16				16	.13	28	.19	18	1.60	4	<2	133	<5	.03	<5	145	116	130
287686	blank2				1	.29	5	.07	7	.01	<2	<2	58	<5	.08	<5	172	27	6
287687	1/2 core	39.14	39.80	0.66	2	.04	6	.06	8	.01	3	<2	6	<5	.02	<5	25	349	4
287688	1/2 core	39.80	40.45	0.65	3	.03	7	.05	14	.04	7	<2	15	<5	.01	<5	38	288	5
287689	1/2 core	40.45	41.10	0.65	2	.06	6	.06	7	.01	<2	<2	20	<5	.01	<5	48	130	8
287690	1/2 core	41.10	41.75	0.65	4	.05	7	.05	5	.02	<2	<2	24	<5	.02	<5	47	119	9
287691	1/2 core	41.75	42.20	0.45	5	.04	8	.06	11	.01	5	<2	15	<5	.01	<5	43	224	17
287692	1/2 core	42.20	43.08	0.88	2	.03	4	.07	17	.01	6	<2	9	<5	.02	<5	27	308	5
287693	1/2 core	43.08	44.30	1.22	3	.04	5	.06	16	.02	2	<2	12	<5	.01	<5	38	249	15
287694	1/2 core	44.30	45.00	0.70	2	.03	7	.05	19	.01	3	<2	19	<5	.03	<5	33	104	7
287695	1/2 core	45.00	45.60	0.60	3	.04	5	.06	9	.01	<2	<2	23	<5	.01	<5	28	106	28
287696	1/2 core	45.60	46.20	0.60	2	.03	6	.05	10	.02	3	<2	15	<5	.02	<5	27	376	6
287697	1/2 core	46.20	46.70	0.50	1	.05	5	.06	8	.01	<2	<2	7	<5	.01	<5	25	640	3
287698	1/2 core	46.70	47.30	0.60	2	.03	6	.07	18	.01	3	<2	8	<5	.01	<5	18	1132	7
287699	1/2 core	47.30	47.80	0.50	3	.04	8	.06	26	.02	6	<2	9	<5	.02	<5	12	1641	3
287700	1/2 core	47.80	48.30	0.50	2	.03	5	.09	19	.01	7	<2	7	<5	.01	<5	13	1123	11
287701	standard 1: CDN-CGS-16				15	.13	26	.18	20	1.41	6	<2	135	8	.03	<5	122	118	135
287702	blank2				1	.31	4	.07	2	.02	<2	<2	90	<5	.05	<5	124	24	25
287703	1/2 core	48.30	48.90	0.60	2	.04	10	.08	19	.01	7	<2	7	<5	.01	<5	25	1333	6
287704	1/2 core	48.90	49.30	0.40	1	.03	8	.07	11	.01	9	<2	6	<5	.02	<5	24	1264	3

Sample		From	To	Interval	Mo	Na	Ni	P	Pb	S	Sb	Sn	Sr	Te	Ti	Tl	V	Zn	Au*
No.		metres	metres	metres	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
287705	1/2 core	49.30	49.90	0.60	3	.02	6	.15	36	.02	35	<2	7	5	.01	<5	15	670	11
287706	1/2 core	49.90	50.88	0.98	4	.03	8	.07	42	.01	30	<2	6	<5	.01	<5	23	766	4
287707	1/2 core	50.88	51.10	0.22	11	.02	7	.04	116	.01	36	<2	5	<5	.02	<5	21	443	80
287708	1/2 core	51.10	51.68	0.58	7	.03	9	.06	161	.02	124	<2	4	6	.03	<5	22	718	29
287709	1/2 core	51.68	52.35	0.67	3	.04	7	.07	21	.01	11	<2	6	<5	.01	<5	31	626	8
287710	1/2 core	52.35	52.90	0.55	4	.03	8	.06	22	.02	8	<2	5	<5	.01	<5	26	1954	15
287711	1/2 core	52.90	53.59	0.69	1	.02	6	.07	55	<10	9	<2	3	<5	.02	<5	20	801	7
287712	1/2 core	53.59	54.12	0.53	3	.01	7	.12	35	<10	10	<2	4	<5	.01	<5	21	919	23
287713	1/2 core	54.12	54.72	0.60	6	.02	9	.64	150	.01	110	<2	12	<5	.03	17	24	1388	25
287714	1/2 core	54.72	54.90	0.18	9	.01	6	.09	332	.01	65	<2	5	<5	.02	<5	29	913	95
287715	1/2 core	54.90	55.80	0.90	17	.01	9	.05	557	.03	55	<2	7	<5	.01	<5	11	835	38
287716	1/2 core	55.80	56.73	0.93	6	.02	8	.06	342	.01	12	<2	4	<5	.01	<5	14	655	8
287717	standard 1: CDN-CGS-16				17	.14	31	.21	16	1.66	5	<2	130	7	.03	<5	131	115	140
287718	blank2				1	.43	4	.08	6	.01	<2	<2	110	<5	.06	<5	145	26	22
287719	1/2 core	56.73	57.40	0.67	6	.03	9	.05	239	.01	26	<2	5	<5	.01	<5	13	430	24
287720	1/2 core	57.40	58.10	0.70	4	.02	8	.06	90	.02	29	<2	2	<5	.02	<5	16	534	12
287721	1/2 core	58.10	58.73	0.63	2	.01	7	.05	43	.01	38	<2	3	<5	.01	<5	17	479	29
287722	1/2 core	58.73	59.15	0.42	4	.04	8	.06	17	.02	5	<2	6	<5	.01	<5	23	558	7
287723	1/2 core	59.15	59.65	0.50	3	.03	7	.05	16	.01	<2	<2	5	<5	.02	<5	24	578	20
287724	1/2 core	59.65	60.40	0.75	1	.01	9	.04	29	.01	15	<2	4	<5	.01	<5	18	532	6
287725	1/2 core	60.40	61.12	0.72	7	.02	10	.05	26	.02	34	<2	5	<5	.02	<5	25	570	12
287726	1/2 core	61.12	62.30	1.18	2	.03	12	.07	18	.01	4	<2	6	<5	.01	<5	50	563	5
287727	1/2 core	62.30	63.00	0.70	3	.02	10	.06	57	.02	18	<2	5	<5	.02	<5	30	707	19
287728	1/2 core	63.00	63.84	0.84	4	.03	11	.08	92	.05	8	<2	11	<5	.01	<5	32	590	17
287729	1/2 core	63.84	64.52	0.68	3	.02	6	.07	164	.01	25	<2	6	<5	.01	<5	28	442	4
287730	1/2 core	64.52	65.35	0.83	2	.01	10	.20	27	.01	43	<2	11	5	.02	<5	18	577	14
287731	1/2 core	65.35	66.35	1.00	1	.01	24	.14	89	.01	52	<2	10	<5	.01	<5	57	1123	48
287732	1/2 core	66.35	66.88	0.53	1	.02	5	.09	29	.02	25	<2	11	<5	.01	<5	17	523	8
287733	standard 1: CDN-CGS-16				14	.13	26	.19	16	1.56	8	<2	130	7	.03	<5	123	115	130
287734	blank2				2	.29	3	.07	7	.02	3	<2	50	<5	.04	<5	134	24	11
287735	1/2 core	66.88	68.10	1.22	2	.02	8	.08	20	.01	15	<2	11	<5	.02	<5	27	379	8
287736	1/2 core	68.10	68.50	0.40	1	.03	12	.08	9	.01	9	<2	20	<5	.01	<5	54	731	13
287737	1/2 core	68.50	68.95	0.45	1	.04	11	.07	3	.02	4	<2	14	<5	.01	<5	65	725	9
287738	1/2 core	68.95	69.92	0.97	2	.05	13	.08	5	.01	5	<2	12	<5	.02	<5	75	743	5
287739	1/2 core	69.92	70.95	1.03	3	.06	11	.07	6	.01	4	<2	13	<5	.04	<5	77	617	30
287740	1/2 core	70.95	71.68	0.73	2	.05	13	.09	18	.01	8	<2	17	<5	.08	<5	73	515	3
287741	1/2 core	71.68	72.45	0.77	1	.03	14	.10	8	.01	7	<2	16	<5	.02	<5	61	1050	46
287742	1/2 core	72.45	72.96	0.51	3	.02	10	.08	106	.02	13	<2	13	<5	.01	<5	51	828	20
287743	1/2 core	72.96	74.00	1.04	1	.04	11	.10	5	.01	9	<2	22	<5	.08	<5	76	835	7
287744	1/2 core	74.00	75.28	1.28	2	.06	10	.09	3	.01	8	<2	24	<5	.09	<5	77	413	4
287745	1/2 core	75.28	76.50	1.22	2	.05	12	.10	6	.01	5	<2	23	<5	.08	<5	71	484	3
287746	1/2 core	76.50	77.70	1.20	5	.06	12	.10	6	.01	5	<2	26	<5	.09	5	76	624	1
287747	1/2 core	77.70	79.04	1.34	4	.05	13	.09	4	.01	3	<2	28	<5	.09	<5	71	608	20
287748	1/2 core	79.04	80.20	1.16	3	.05	12	.10	3	.01	4	<2	23	<5	.06	<5	75	441	3
287749	standard 1: CDN-CGS-16				14	.13	26	.20	15	1.20	7	<2	132	5	.03	<5	124	115	140
287750	blank2				missing														
287751	1/2 core	80.20	81.40	1.20	4	.07	10	.10	5	.01	3	<2	24	<5	.09	<5	81	170	2

Sample		From	To	Interval	Mo	Na	Ni	P	Pb	S	Sb	Sn	Sr	Te	Ti	Tl	V	Zn	Au*
No.		metres	metres	metres	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
287752	1/2 core	81.40	82.63	1.23	2	.06	11	.09	3	.01	2	<2	20	<5	.09	7	80	147	3
287753	1/2 core	82.63	84.00	1.37	1	.05	12	.10	6	.01	3	<2	26	<5	.09	<5	81	62	7
287754	1/2 core	84.00	85.12	1.12	4	.06	11	.11	4	.01	3	<2	30	<5	.05	<5	79	74	2

Pioneer Laboratories Inc. Report Numbers: 2092518 (Samples: 287755-287839); 2092528 (Samples: 287840-287908); 2092536 (Samples: 286701-286900; 287909-287950); 2102569 (Sample: 286802; 286867; 286885)

09-SND-14																			
Sample		**From**	**To**	**Interval**	**Ag**	**Al**	**As**	**B**	**Ba**	**Bi**	**Ca**	**Cd**	**Co**	**Cr**	**Cu**	**Fe**	**K**	**Mg**	**Mn**
No.		**metres**	**metres**	**metres**	**ppm**	**%**	**ppm**	**ppm**	**ppm**	**ppm**	**%**	**ppm**	**ppm**	**ppm**	**ppm**	**%**	**%**	**%**	**ppm**
287755	1/2 core	0.00	1.90	1.90	.8	.39	<5	5	351	<10	.46	2	6	115	356	1.87	.26	.10	636
287756	1/2 core	1.90	2.25	0.35	.5	.52	<5	5	194	<10	.71	3	4	100	157	1.61	.23	.32	530
287757	1/2 core	2.25	2.70	0.45	.8	1.07	<5	<5	322	<10	.29	2	8	92	354	2.70	.22	.45	1178
287758	1/2 core	2.70	3.44	0.74	7.7	.58	13	<5	601	<10	.52	4	5	80	233	1.59	.24	.35	700
287759	1/2 core	3.44	4.05	0.61	.6	.60	8	<5	216	<10	.53	37	9	79	278	1.84	.19	.38	810
287760	1/2 core	4.05	4.20	0.15	3.2	.65	28	<5	71	<10	.10	14	10	140	1962	2.16	.17	.31	594
287761	1/2 core	4.20	5.10	0.90	1.1	.42	14	<5	133	<10	.38	44	9	119	638	1.70	.19	.21	608
287762	1/2 core	5.10	5.45	0.35	1.0	.26	<5	<5	647	<10	.36	24	4	138	434	1.26	.18	.05	324
287763	1/2 core	5.45	6.08	0.63	.4	.33	<5	<5	498	<10	.93	23	4	61	235	1.28	.20	.06	482
287764	1/2 core	6.08	7.22	1.14	.3	.34	<5	6	243	<10	.90	3	3	95	190	1.32	.23	.34	421
287765	1/2 core	7.22	7.65	0.43	.7	.32	22	<5	327	<10	.81	15	8	86	363	1.76	.21	.35	701
287766	1/2 core	7.65	8.55	0.90	.5	.50	<5	<5	236	<10	.77	6	5	73	174	1.51	.15	.31	827
287767	1/2 core	8.55	9.12	0.57	.7	.53	10	<5	289	<10	.56	11	4	80	295	1.37	.18	.30	632
287768	1/2 core	9.12	9.67	0.55	.4	.61	8	<5	178	<10	.44	8	5	90	294	1.47	.19	.35	589
287769	1/2 core	9.67	10.62	0.95	.1	.53	7	<5	94	<10	.46	7	4	72	289	1.32	.16	.37	621
287770	standard 1: CDN-CGS-16				1.0	1.78	53	<5	147	<10	3.80	4	18	38	1060	4.58	.31	1.65	830
287771	blank2				.7	2.21	10	<5	76	<10	1.54	2	8	66	86	2.77	.03	.72	544
287772	1/2 core	10.62	11.17	0.55	.3	.57	11	<5	155	<10	.16	28	12	92	265	1.88	.18	.31	1100
287773	1/2 core	11.17	11.62	0.45	.8	.41	15	<5	412	<10	.18	27	4	98	478	.94	.17	.15	387
287774	1/2 core	11.62	12.38	0.76	.6	.68	<5	<5	64	<10	.66	12	5	80	195	1.60	.16	.44	529
287775	1/2 core	12.38	13.33	0.95	.7	.60	13	<5	71	<10	.27	5	6	88	342	1.75	.19	.37	623
287776	1/2 core	13.33	14.32	0.99	.6	.54	<5	<5	61	<10	.85	6	4	90	182	1.32	.14	.31	497
287777	1/2 core	14.32	15.20	0.88	.7	.37	<5	<5	143	<10	.47	5	5	66	321	1.75	.16	.14	557
287778	1/2 core	15.20	16.00	0.80	.6	.32	14	6	251	<10	.87	9	3	71	299	1.19	.21	.06	899
287779	1/2 core	16.00	16.87	0.87	1.0	.34	26	<5	257	<10	.76	2	4	71	142	1.32	.18	.05	852
287780	1/2 core	16.87	17.94	1.07	.5	.35	11	<5	126	<10	.67	3	5	62	330	2.03	.17	.15	656
287781	1/2 core	17.94	18.90	0.96	2.8	.29	8	<5	30	<10	.71	2	4	78	530	1.57	.19	.13	233
287782	1/2 core	18.90	19.93	1.03	1.7	.40	7	<5	207	<10	1.20	3	3	66	306	1.68	.13	.28	568
287783	1/2 core	19.93	20.38	0.45	.8	.57	38	<5	137	<10	.16	2	10	78	505	3.10	.16	.31	835
287784	1/2 core	20.38	20.68	0.30	1.5	.21	43	<5	122	<10	.18	20	4	158	1541	.61	.10	.07	130
287785	1/2 core	20.68	21.28	0.60	.5	.63	9	<5	35	<10	.71	4	3	97	274	1.32	.21	.37	363
287786	1/2 core	21.28	22.00	0.72	.8	.54	12	<5	55	<10	.61	3	4	66	211	1.25	.16	.34	328
287787	standard 1: CDN-CGS-16				1.4	1.75	60	<5	147	<10	3.87	4	18	37	1063	4.38	.30	1.57	805
287788	blank2				1.0	2.10	<5	<5	86	<10	1.64	1	10	64	108	2.38	.02	.73	557
287789	1/2 core	22.00	22.75	0.75	.9	.58	<5	<5	123	<10	.77	2	5	72	163	1.29	.14	.42	374
287790	1/2 core	22.75	23.05	0.30	1.2	.64	13	<5	85	<10	.53	1	3	131	147	1.23	.21	.36	517
287791	1/2 core	23.05	23.65	0.60	.7	.56	<5	<5	81	<10	.66	2	4	72	127	1.16	.15	.40	330
287792	1/2 core	23.65	24.32	0.67	.2	.61	<5	<5	78	<10	.82	3	5	77	142	1.42	.13	.50	417
287793	1/2 core	24.32	25.32	1.00	.1	.59	18	<5	154	<10	1.11	2	3	110	296	1.40	.16	.44	633
287794	1/2 core	25.32	26.26	0.94	.6	.52	<5	<5	81	<10	1.25	2	4	115	276	1.28	.15	.34	564
287795	1/2 core	26.26	26.83	0.57	1.4	.31	8	<5	295	<10	.94	3	6	132	297	1.21	.25	.21	553
287796	1/2 core	26.83	27.66	0.83	.2	.39	<5	<5	835	<10	1.09	1	5	85	177	1.30	.19	.34	478

Sample		From	To	Interval	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn
No.		metres	metres	metres	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm
287797	1/2 core	27.66	28.53	0.87	1.0	.58	<5	<5	39	<10	.79	8	4	68	224	1.36	.13	.37	486
287798	1/2 core	28.53	29.05	0.52	1.6	.18	41	<5	342	<10	.65	47	18	170	1110	.87	.08	.04	495
287799	1/2 core	29.05	29.80	0.75	3.2	.60	100	<5	51	<10	.05	14	52	166	4402	2.77	.12	.26	535
287800	1/2 core	29.80	30.40	0.60	1.7	.87	32	<5	27	<10	.13	9	14	124	1766	2.56	.14	.35	992
287801	1/2 core	30.40	31.22	0.82	.7	.52	<5	<5	149	<10	1.01	7	5	66	177	1.42	.18	.39	636
287802	1/2 core	31.22	32.04	0.82	.6	.67	<5	<5	507	<10	1.00	13	6	116	343	1.56	.19	.42	782
287803	1/2 core	32.04	32.77	0.73	.1	.40	<5	<5	72	<10	1.05	15	4	56	342	1.26	.15	.34	622
287804	standard 2: CDN-CGS-18				3.7	1.88	58	<5	93	<10	.78	3	13	58	3229	4.28	.13	.80	724
287805	blank2				.9	2.15	8	<5	85	<10	1.59	2	11	61	128	2.64	.02	.81	639
287806	1/2 core	32.77	32.92	0.15	1.1	.67	9	<5	50	<10	.84	28	9	149	216	1.66	.27	.35	724
287807	1/2 core	32.92	33.87	0.95	.8	.57	10	<5	139	<10	1.03	8	5	84	178	1.37	.15	.41	620
287808	1/2 core	33.87	34.30	0.43	1.5	.82	25	<5	246	<10	.93	5	8	101	1130	1.84	.19	.49	1256
287809	1/2 core	34.30	35.25	0.95	1.0	.65	10	<5	173	<10	.85	1	5	77	189	1.54	.14	.52	682
287810	1/2 core	35.25	36.00	0.75	.1	.59	9	<5	126	<10	1.02	9	4	103	185	1.45	.16	.43	638
287811	1/2 core	36.00	36.48	0.48	1.5	.83	23	<5	91	<10	.64	3	7	88	186	2.19	.23	.40	872
287812	1/2 core	36.48	36.79	0.31	1.8	2.07	9	<5	86	<10	.14	7	53	77	538	6.75	.15	.62	2147
287813	1/2 core	36.79	37.46	0.67	.9	.54	12	<5	114	<10	.81	1	4	106	271	1.24	.22	.30	472
287814	1/2 core	37.46	38.06	0.60	1.0	.38	8	<5	233	<10	1.16	4	3	85	292	1.04	.23	.28	474
287815	1/2 core	38.06	38.76	0.70	.7	.60	<5	<5	112	<10	1.23	2	5	79	190	1.47	.16	.47	532
287816	1/2 core	38.76	39.44	0.68	.9	.46	<5	7	91	<10	1.07	3	4	62	147	1.18	.26	.31	452
287817	1/2 core	39.44	40.27	0.83	.7	.34	<5	<5	395	<10	.80	1	6	46	164	1.49	.21	.30	565
287818	1/2 core	40.27	40.89	0.62	2.0	.33	22	<5	1569	<10	.66	2	4	76	413	.84	.23	.15	226
287819	1/2 core	40.89	41.57	0.68	2.2	.55	<5	5	3497	<10	1.10	2	5	112	268	1.14	.29	.16	276
287820	1/2 core	41.57	42.15	0.58	3.6	.56	26	6	518	<10	.64	6	4	52	447	1.16	.28	.15	182
287821	standard 1: CDN-CGS-16				1.5	1.85	62	<5	147	<10	3.92	3	19	38	1004	5.38	.31	1.62	826
287822	blank2				.8	2.33	<5	<5	68	<10	1.36	1	12	65	185	2.51	.02	.55	447
287823	1/2 core	42.15	42.76	0.61	.1	.72	<5	<5	50	<10	1.06	2	6	101	276	1.87	.26	.38	592
287824	1/2 core	42.76	43.36	0.60	1.5	.65	8	<5	122	<10	.72	15	5	100	472	1.73	.20	.28	500
287825	1/2 core	43.36	44.25	0.89	.7	.61	<5	<5	47	<10	2.06	1	4	74	186	1.63	.16	.35	742
287826	1/2 core	44.25	45.30	1.05	2.8	1.01	43	<5	104	<10	.48	4	10	71	1243	2.69	.17	.42	994
287827	1/2 core	45.30	46.30	1.00	1.3	.73	14	<5	94	<10	.67	1	5	55	107	1.51	.26	.35	423
287828	1/2 core	46.30	47.30	1.00	1.4	.88	17	<5	90	<10	.45	2	6	112	131	2.05	.25	.41	660
287829	1/2 core	47.30	48.05	0.75	.7	.85	14	<5	204	<10	.64	3	7	85	175	2.15	.20	.47	719
287830	1/2 core	48.05	48.76	0.71	.6	.74	8	<5	53	<10	.77	1	6	74	153	1.96	.15	.49	636
287831	1/2 core	48.76	49.65	0.89	.8	.61	12	<5	52	<10	.65	75	16	108	986	1.66	.13	.33	601
287832	1/2 core	49.65	50.36	0.71	.7	.62	9	<5	125	<10	1.21	1	5	83	203	1.64	.16	.47	541
287833	1/2 core	50.36	51.10	0.74	.6	.59	12	<5	133	<10	1.55	2	4	92	276	1.37	.19	.33	488
287834	1/2 core	51.10	51.98	0.88	.5	.68	6	<5	80	<10	1.03	1	5	88	176	1.60	.14	.49	477
287835	1/2 core	51.98	52.60	0.62	.7	.73	<5	<5	460	<10	1.15	1	7	79	105	1.94	.15	.52	586
287836	1/2 core	52.60	53.10	0.50	1.1	.97	10	<5	94	<10	.56	2	8	86	240	2.55	.17	.51	838
287837	1/2 core	53.10	53.95	0.85	.5	.73	6	5	197	<10	.87	1	6	90	96	1.85	.16	.47	416
287838	standard 2: CDN-CGS-18				3.6	1.91	58	<5	100	<10	.77	2	14	62	3190	4.56	.14	.81	747
287839	blank2				.4	2.40	6	<5	38	<10	1.45	1	7	65	66	2.86	.02	.60	474
287840	1/2 core	53.95	54.74	0.79	2.9	.77	<5	<5	79	<10	.98	1	6	53	105	2.04	.12	.62	635
287841	1/2 core	54.74	55.70	0.96	.5	.75	<5	<5	95	<10	1.03	1	6	59	153	1.91	.10	.66	607
287842	1/2 core	55.70	56.53	0.83	.4	.74	<5	<5	44	<10	.96	1	5	65	152	1.97	.14	.57	601
287843	1/2 core	56.53	57.78	1.25	.3	.66	<5	<5	49	<10	.78	<1	6	77	145	2.02	.11	.64	401

Sample		From	To	Interval	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn
No.		metres	metres	metres	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm
287844	1/2 core	57.78	59.15	1.37	.4	.83	16	<5	43	<10	1.11	1	8	46	732	2.53	.13	.73	634
287845	1/2 core	59.15	59.94	0.79	.9	1.22	<5	<5	66	<10	.98	2	12	74	313	3.49	.16	.96	1147
287846	1/2 core	59.94	60.82	0.88	1.4	.89	<5	<5	101	<10	.50	15	7	80	184	2.39	.17	.67	765
287847	1/2 core	60.82	61.77	0.95	1.5	1.06	<5	<5	284	<10	.28	6	13	64	653	3.19	.15	.62	1053
287848	1/2 core	61.77	62.15	0.38	.4	.71	6	6	114	<10	.97	2	6	82	219	2.42	.14	.51	597
287849	1/2 core	62.15	63.15	1.00	.7	.69	<5	6	66	<10	.86	1	5	62	191	1.96	.10	.54	605
287850	1/2 core	63.15	64.26	1.11	.6	1.26	25	<5	80	<10	.46	3	15	57	388	3.55	.16	.69	1392
287851	1/2 core	64.26	64.95	0.69	.4	1.24	<5	<5	79	<10	.29	3	10	50	158	3.23	.15	.75	1221
287852	1/2 core	64.95	65.86	0.91	.3	1.05	<5	<5	66	<10	.82	2	9	53	135	3.06	.14	.77	1168
287853	1/2 core	65.86	66.88	1.02	.3	1.14	6	<5	43	<10	1.37	3	11	56	180	3.16	.16	.90	1490
287854	1/2 core	66.88	67.53	0.65	.5	1.92	<5	<5	855	<10	.85	2	17	52	251	5.43	.18	1.11	2652
287855	standard 2: CDN-CGS-18				3.1	1.86	50	<5	95	<10	.75	3	14	38	3163	4.41	.15	.91	734
287856	blank2				.1	2.57	<5	<5	42	<10	1.65	2	10	47	45	2.80	.03	.81	388
287857	1/2 core	67.53	68.55	1.02	.2	.99	<5	<5	120	<10	1.30	2	10	69	217	2.58	.15	.83	1236
287858	1/2 core	68.55	69.62	1.07	.3	1.07	<5	<5	97	<10	1.20	2	10	55	167	2.91	.14	.83	1446
287859	1/2 core	69.62	70.22	0.60	.1	1.36	39	<5	68	<10	1.51	2	14	65	122	3.54	.17	.95	1821
287860	1/2 core	70.22	70.95	0.73	.2	1.14	<5	6	101	<10	1.14	2	10	48	196	3.33	.19	.78	1133
287861	1/2 core	70.95	72.00	1.05	.6	1.25	<5	<5	393	<10	.98	3	13	53	1002	3.70	.14	1.00	1392
287862	1/2 core	72.00	72.98	0.98	.7	1.09	<5	<5	179	<10	.60	3	10	56	246	3.01	.13	.79	1202
287863	1/2 core	72.98	74.05	1.07	.5	1.49	9	<5	285	<10	.33	3	16	68	330	4.03	.16	.91	1939
287864	1/2 core	74.05	74.95	0.90	.4	1.53	<5	<5	370	<10	.26	3	12	76	262	3.89	.21	.87	1841
287865	1/2 core	74.95	76.00	1.05	.3	1.49	<5	<5	939	<10	.20	3	14	61	241	3.58	.18	.93	2076
287866	1/2 core	76.00	76.64	0.64	.1	1.24	<5	<5	389	<10	.81	2	10	65	146	3.38	.21	.79	1447
287867	1/2 core	76.64	77.06	0.42	.4	1.33	<5	5	82	<10	.83	7	10	65	153	3.56	.23	.81	1586
287868	1/2 core	77.06	78.00	0.94	.9	1.83	<5	<5	231	<10	.15	3	18	67	421	4.45	.27	.95	1865
287869	1/2 core	78.00	78.90	0.90	.6	1.78	12	<5	1867	<10	.11	12	22	73	328	4.51	.25	.80	1721
287870	1/2 core	78.90	79.40	0.50	1.1	.46	13	<5	1119	<10	.06	3	8	96	325	1.14	.14	.16	710
287871	1/2 core	79.40	80.10	0.70	.5	1.00	<5	7	94	<10	.17	5	11	54	583	2.30	.28	.31	712
287872	standard 2: CDN-CGS-18				3.3	1.96	55	<5	103	<10	.80	3	15	62	3208	4.56	.16	.95	781
287873	blank1				.3	.35	<5	6	70	<10	.86	<1	4	39	33	1.63	.07	.08	310
287874	1/2 core	80.10	80.60	0.50	.2	1.03	5	7	100	<10	.26	3	8	41	801	2.14	.22	.44	514
287875	1/2 core	80.60	82.08	1.48	.1	.89	5	<5	147	<10	.21	4	8	38	419	2.04	.20	.53	894
287876	1/2 core	82.08	82.83	0.75	.1	.82	<5	<5	97	<10	.17	4	8	69	181	1.92	.27	.43	741
287877	1/2 core	82.83	84.12	1.29	.1	.96	<5	<5	144	<10	.27	5	9	69	281	2.39	.18	.72	904
287878	1/2 core	84.12	85.14	1.02	.4	.90	<5	<5	85	<10	.39	5	8	45	201	2.18	.19	.64	585
287879	1/2 core	85.14	86.65	1.51	.3	.87	<5	<5	91	<10	.21	3	7	66	160	1.95	.23	.52	602
287880	1/2 core	86.65	87.90	1.25	.2	.89	<5	<5	115	<10	.21	3	9	35	352	2.01	.21	.51	812
287881	1/2 core	87.90	89.10	1.20	.2	.94	7	<5	188	<10	.19	4	9	35	615	2.07	.22	.49	1112
287882	1/2 core	89.10	90.38	1.28	.1	1.06	<5	<5	129	<10	.21	4	9	42	857	2.23	.21	.61	889
287883	1/2 core	90.38	91.75	1.37	.2	.80	<5	<5	125	<10	.19	9	8	36	794	1.96	.19	.44	951
287884	1/2 core	91.75	93.05	1.30	3.3	.77	<5	<5	89	<10	.21	6	7	44	835	1.70	.23	.36	671
287885	1/2 core	93.05	93.95	0.90	.2	.88	<5	<5	93	<10	.21	5	8	33	786	2.06	.21	.42	682
287886	1/2 core	93.95	94.40	0.45	.1	.95	<5	6	192	<10	.43	7	8	37	604	1.99	.28	.39	964
287887	1/2 core	94.40	94.80	0.40	.2	1.13	<5	6	38	<10	.12	3	13	69	367	2.51	.21	.52	930
287888	1/2 core	94.80	95.80	1.00	.2	1.00	<5	<5	120	<10	.20	3	10	35	548	2.15	.22	.45	874
287889	standard 1: CDN-CGS-16				1.1	1.82	52	<5	143	<10	4.30	3	22	40	1074	5.07	.34	1.77	820
287890	blank1				.2	.29	<5	<5	180	<10	.92	<1	4	50	129	1.53	.03	.08	292

Sample		From	To	Interval	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn
No.		metres	metres	metres	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm
287891	1/2 core	95.80	97.28	1.48	.1	1.12	7	6	92	<10	1.07	15	9	31	696	1.99	.27	.49	599
287892	1/2 core	97.28	98.00	0.72	.3	.98	19	8	119	<10	1.14	15	9	41	406	1.90	.26	.45	875
287893	1/2 core	98.00	98.25	0.25	.2	.45	<5	7	37	<10	.08	1	4	138	115	1.03	.16	.21	271
287894	1/2 core	98.25	98.95	0.70	.6	.69	<5	6	39	<10	.34	6	6	45	248	1.55	.25	.29	336
287895	1/2 core	98.95	100.32	1.37	.2	.74	<5	5	91	<10	.17	3	7	56	253	1.78	.26	.28	475
287896	1/2 core	100.32	101.37	1.05	.1	.60	<5	5	97	<10	.21	2	5	33	237	1.41	.26	.24	420
287897	1/2 core	101.37	102.25	0.88	.1	.91	9	6	129	<10	.23	4	10	29	517	2.22	.26	.47	687
287898	1/2 core	102.25	103.00	0.75	.2	.72	<5	<5	66	<10	.21	3	6	36	277	1.67	.26	.31	480
287899	1/2 core	103.00	103.90	0.90	.1	.52	<5	<5	133	<10	.24	2	4	23	221	1.25	.24	.22	475
287900	1/2 core	103.90	105.00	1.10	.4	.91	<5	<5	215	<10	.33	3	8	29	351	1.72	.21	.45	847
287901	1/2 core	105.00	106.00	1.00	.5	.90	<5	<5	101	<10	.25	3	9	31	434	2.08	.21	.50	584
287902	1/2 core	106.00	106.50	0.50	.1	.77	17	<5	92	<10	.28	4	7	33	388	1.97	.22	.37	586
287903	1/2 core	106.50	106.85	0.35	.5	.71	12	6	79	<10	.15	3	9	53	272	1.89	.22	.35	643
287904	1/2 core	106.85	108.00	1.15	.4	.59	19	<5	175	<10	.23	4	12	25	430	1.96	.24	.20	770
287905	1/2 core	108.00	109.44	1.44	.4	.61	17	5	149	<10	.22	4	9	26	480	1.80	.25	.23	746
287906	standard 1: CDN-CGS-16				1.1	1.79	50	<5	143	<10	4.26	3	22	39	1043	4.89	.33	1.75	795
287907	blank 1				.1	.32	<5	<5	107	<10	.80	<1	5	53	11	1.43	.12	.09	368
287908	1/2 core	109.44	110.10	0.66	.8	.77	26	8	143	<10	.97	15	11	48	536	2.25	.29	.31	903
287909	1/2 core	110.10	110.90	0.80	.3	.19	36	<5	99	<10	.26	7	11	49	825	2.24	.24	.23	684
287910	1/2 core	110.90	111.95	1.05	.3	.76	23	<5	117	<10	.20	4	8	68	526	1.79	.23	.16	696
287911	1/2 core	111.95	112.98	1.03	1.4	.45	50	<5	55	<10	.12	3	6	121	532	1.08	.24	.06	237
287912	1/2 core	112.98	113.80	0.82	.5	.09	10	<5	65	<10	.06	2	2	110	234	.37	.18	.03	319
287913	1/2 core	113.80	114.65	0.85	.8	2.84	<5	<5	618	<10	.15	4	17	67	825	2.07	.22	.42	2656
287914	1/2 core	114.65	115.52	0.87	.1	1.16	7	<5	291	<10	.19	3	12	49	930	2.55	.21	.62	1635
287915	1/2 core	115.52	116.10	0.58	.2	2.06	<5	<5	156	<10	.20	2	14	40	626	2.72	.23	.67	1421
287916	1/2 core	116.10	116.88	0.78	.1	2.18	<5	<5	147	<10	.24	3	11	41	928	2.19	.22	.52	1450
287917	1/2 core	116.88	118.56	1.68	.2	2.57	<5	<5	131	<10	.20	2	12	37	395	2.60	.21	.55	1235
287918	1/2 core	118.56	119.40	0.84	.5	2.51	<5	<5	133	<10	.21	3	11	44	425	2.69	.22	.69	1476
287919	1/2 core	119.40	120.30	0.90	.4	2.58	<5	<5	194	<10	.19	2	12	64	360	2.67	.26	.68	1370
287920	1/2 core	120.30	121.60	1.30	.3	2.87	<5	<5	204	<10	.16	1	14	68	630	2.92	.24	.70	1951
287921	1/2 core	121.60	122.55	0.95	.6	.50	27	<5	235	<10	.29	3	20	70	726	3.52	.25	.69	1625
287922	1/2 core	122.55	123.00	0.45	.8	2.05	53	<5	374	<10	.23	1	18	90	1305	3.54	.27	.64	2405
287923	standard 1: CDN-CGS-16				1.2	1.78	49	<5	142	<10	4.20	2	20	38	1060	4.36	.35	1.57	766
287924	blank 1				.1	.24	<5	<5	123	<10	.95	<1	6	86	14	1.41	.11	.07	390
287925	1/2 core	123.00	123.90	0.90	.6	1.38	60	<5	945	<10	.13	3	25	64	826	4.96	.21	.85	1532
287926	1/2 core	123.90	125.05	1.15	.6	1.40	14	<5	854	<10	.68	2	20	89	276	3.48	.27	.70	1076
287927	1/2 core	125.05	126.10	1.05	.6	1.04	38	<5	71	<10	.86	1	19	55	1132	3.17	.29	.69	1094
287928	1/2 core	126.10	127.18	1.08	1.1	1.61	51	<5	292	<10	.73	2	24	48	1325	3.66	.28	1.13	1182
287929	1/2 core	127.18	127.68	0.50	.5	1.29	<5	<5	346	<10	.37	<1	16	82	1320	2.96	.29	.76	724
287930	1/2 core	127.68	128.50	0.82	.6	1.70	25	<5	563	<10	.92	1	22	53	1560	3.79	.28	.97	1098
287931	1/2 core	128.50	129.90	1.40	2.1	1.61	10	<5	128	<10	.41	2	29	66	425	3.95	.27	.74	890
287932	1/2 core	129.90	130.80	0.90	1.0	1.85	<5	<5	380	<10	.65	<1	36	47	529	4.59	.24	.83	1131
287933	1/2 core	130.80	131.51	0.71	1.5	1.70	<5	<5	61	<10	1.10	2	22	62	1710	3.57	.27	.95	1206
287934	1/2 core	131.51	132.30	0.79	4.8	1.96	56	<5	143	<10	1.31	5	25	56	3260	4.25	.29	1.12	1501
287935	1/2 core	132.30	133.53	1.23	.5	2.20	8	<5	317	<10	.78	1	24	53	525	4.54	.28	1.36	1484
287936	1/2 core	133.53	133.76	0.23	3.1	.53	91	<5	109	<10	8.37	4	13	42	432	1.99	.25	.57	3989
287937	1/2 core	133.76	135.15	1.39	2.1	1.19	122	<5	19	<10	1.85	3	29	72	840	3.42	.29	.38	1026

Sample No.		From metres	To metres	Interval metres	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm
287938	1/2 core	135.15	136.15	1.00	1.0	1.08	105	<5	52	<10	1.19	2	22	58	542	2.84	.28	.31	648
287939	1/2 core	136.15	137.20	1.05	1.1	1.63	70	<5	493	<10	.85	1	18	47	536	3.83	.29	.48	544
287940	standard 2: CDN-CGS-18				3.2	1.73	78	<5	105	<10	.72	2	14	68	3088	4.23	.16	.80	725
287941	blank 1				.1	.33	<5	<5	155	<10	.65	<1	6	107	31	1.62	.11	.11	359
287942	1/2 core	137.20	138.25	1.05	3.5	1.33	70	<5	560	<10	1.50	3	16	56	1105	2.96	.27	.42	792
287943	1/2 core	138.25	139.10	0.85	1.5	1.94	39	<5	128	<10	1.85	2	23	79	420	4.43	.26	.69	1071
287944	1/2 core	139.10	140.12	1.02	.7	1.58	33	<5	176	<10	1.47	2	18	82	510	3.74	.28	.54	854
287945	1/2 core	140.12	141.00	0.88	.6	1.22	46	<5	420	<10	1.75	1	24	92	725	3.04	.29	.39	868
287946	1/2 core	141.00	141.93	0.93	.1	1.39	<5	<5	982	<10	1.86	<1	13	91	426	3.03	.31	.42	816
287947	1/2 core	141.93	142.88	0.95	1.6	1.39	173	<5	419	<10	1.60	4	19	59	2830	3.39	.26	.43	752
287948	1/2 core	142.88	144.05	1.17	1.4	.92	92	<5	101	<10	1.65	2	14	72	726	2.16	.28	.34	747
287949	1/2 core	144.05	144.61	0.56	1.5	1.30	78	<5	346	<10	2.29	2	20	76	1420	3.17	.27	.44	1060
287950	1/2 core	144.61	145.37	0.76	1.3	.99	139	<5	383	<10	1.67	3	16	72	1210	2.42	.28	.32	798
286701	1/2 core	145.37	145.92	0.55	.5	1.78	82	<5	347	<10	1.49	1	12	44	1710	2.24	.24	.29	1394
286702	1/2 core	145.92	146.80	0.88	.2	.74	30	<5	443	<10	1.92	2	11	60	799	2.25	.28	.32	809
286703	1/2 core	146.80	147.20	0.40	.5	1.62	17	<5	901	<10	2.44	1	15	66	290	4.03	.24	.61	868
286704	1/2 core	147.20	147.65	0.45	.5	1.55	<5	<5	364	<10	.95	3	6	64	621	1.31	.23	.19	1278
286705	1/2 core	147.65	148.57	0.92	.5	1.84	20	<5	1008	<10	2.13	2	17	52	810	3.28	.25	.49	1327
286706	1/2 core	148.57	149.70	1.13	.8	1.46	38	<5	96	<10	1.46	3	15	96	1230	1.60	.28	.19	654
286707	standard 1: CDN-CGS-16				1.0	1.90	51	<5	138	<10	3.94	2	18	38	1120	4.63	.30	1.69	787
286708	blank 1				.8	1.70	<5	<5	178	<10	1.42	1	5	77	68	1.47	.08	.14	1660
286709	1/2 core	149.70	150.45	0.75	.8	1.61	<5	<5	294	<10	1.80	1	20	70	835	3.54	.24	.82	1278
286710	1/2 core	150.45	151.81	1.36	1.5	1.58	<5	<5	189	<10	1.05	2	31	68	6850	4.52	.24	.62	1315
286711	1/2 core	151.81	152.38	0.57	.6	1.99	<5	<5	1151	<10	1.89	1	24	96	2435	4.04	.25	.73	1469
286712	1/2 core	152.38	153.13	0.75	1.8	.53	<5	<5	157	<10	.72	<1	21	91	1760	3.18	.27	.48	695
286713	1/2 core	153.13	153.66	0.53	1.6	.44	12	<5	394	<10	3.03	2	6	76	2510	1.69	.25	.18	854
286714	1/2 core	153.66	154.96	1.30	.1	.50	<5	<5	254	<10	3.52	<1	5	58	210	1.53	.26	.21	1177
286715	1/2 core	154.96	155.70	0.74	.2	.83	<5	<5	737	<10	3.31	2	7	68	325	1.86	.24	.30	992
286716	1/2 core	155.70	156.80	1.10	.2	1.22	<5	<5	465	<10	3.81	<1	8	58	167	1.87	.25	.29	1326
286717	1/2 core	156.80	158.08	1.28	.3	.81	<5	<5	112	<10	3.04	<1	9	70	171	2.35	.26	.41	1014
286718	1/2 core	158.08	159.00	0.92	.2	1.32	<5	<5	64	<10	2.86	1	8	56	196	1.88	.25	.33	1131
286719	1/2 core	159.00	159.85	0.85	1.5	1.86	<5	<5	91	<10	1.32	<1	6	50	1160	.99	.32	.13	790
286720	1/2 core	159.85	160.60	0.75	.8	1.21	<5	<5	222	<10	2.70	1	19	44	295	4.19	.28	.86	1364
286721	1/2 core	160.60	161.50	0.90	.1	.77	<5	<5	377	<10	3.37	<1	9	62	303	2.13	.27	.35	1023
286722	1/2 core	161.50	162.65	1.15	1.5	1.18	8	<5	130	<10	2.76	2	16	50	720	3.16	.26	.48	947
286723	1/2 core	162.65	163.35	0.70	.1	1.05	<5	<5	87	<10	3.38	<1	10	54	275	2.35	.24	.49	1474
286724	standard 1: CDN-CGS-16				1.1	1.90	57	<5	146	<10	4.05	2	20	38	1012	4.79	.31	1.65	812
286725	blank 1				.1	1.31	<5	<5	157	<10	.98	<1	5	71	48	1.65	.08	.12	898
286726	1/2 core	163.35	164.06	0.71	1.4	1.13	<5	<5	156	<10	2.30	1	20	49	1020	3.80	.22	.72	1192
286727	1/2 core	164.06	165.06	1.00	.1	1.07	<5	<5	161	<10	2.99	2	9	85	259	2.13	.27	.35	1251
286728	1/2 core	165.06	166.03	0.97	.9	.61	14	<5	738	<10	3.06	1	10	58	497	2.13	.26	.32	965
286729	1/2 core	166.03	166.59	0.56	1.5	1.89	60	<5	477	<10	3.05	3	14	49	1030	2.38	.25	.30	2087
286730	1/2 core	166.59	167.77	1.18	1.4	1.46	<5	<5	425	<10	2.70	<1	11	35	422	1.82	.24	.26	1725
286731	1/2 core	167.77	168.65	0.88	1.1	1.54	8	<5	78	<10	2.49	2	13	55	246	1.99	.38	.38	1670
286732	1/2 core	168.65	169.60	0.95	1.5	2.99	5	<5	3246	<10	1.79	1	17	84	810	3.83	.29	.65	2662
286733	1/2 core	169.60	170.40	0.80	1.4	1.58	6	<5	1291	<10	1.90	<1	14	42	573	3.04	.28	.51	1770
286734	1/2 core	170.40	171.42	1.02	.3	2.57	7	<5	270	<10	1.04	2	17	64	1428	3.08	.22	.45	2287

Sample		From	To	Interval	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn
No.		metres	metres	metres	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm
286735	1/2 core	171.42	172.12	0.70	.2	.44	16	<5	823	<10	3.07	1	9	41	930	1.91	.26	.55	993
286736	1/2 core	172.12	173.06	0.94	1.0	2.35	<5	<5	619	<10	.79	1	26	71	549	3.91	.25	.51	1697
286737	1/2 core	173.06	174.10	1.04	.8	.24	12	<5	29	<10	.52	<1	32	36	480	4.45	.22	.56	1056
286738	1/2 core	174.10	174.98	0.88	3.7	.34	<5	<5	56	<10	1.08	2	23	77	410	4.62	.25	.59	1332
286739	1/2 core	174.98	175.70	0.72	.2	.23	<5	<5	27	<10	1.25	1	22	56	720	3.71	.24	.47	1223
286740	1/2 core	175.70	176.32	0.62	1.0	.33	<5	<5	33	<10	1.62	2	19	91	1852	3.53	.26	.44	1248
286741	standard 2: CDN-CGS-18				3.0	1.78	50	<5	100	<10	.79	3	13	60	3180	4.05	.15	.84	694
286742	blank 1				.1	.25	6	<5	126	<10	1.29	<1	5	76	12	1.47	.11	.09	459
286743	1/2 core	176.32	177.25	0.93	.2	.29	<5	<5	34	<10	1.82	2	12	60	650	2.73	.23	.36	1143
286744	1/2 core	177.25	178.40	1.15	.9	.43	<5	<5	38	<10	1.93	1	13	67	910	2.92	.25	.43	1287
286745	1/2 core	178.40	179.36	0.96	.3	.41	25	<5	469	<10	1.58	2	12	64	520	3.12	.23	.48	1266
286746	1/2 core	179.36	180.36	1.00	1.2	.47	<5	<5	88	<10	1.30	1	14	82	543	3.14	.25	.50	1253
286747	1/2 core	180.36	181.60	1.24	.2	.42	14	<5	29	<10	1.44	2	12	56	430	3.01	.23	.49	1155
286748	1/2 core	181.60	182.40	0.80	.3	.41	<5	<5	35	<10	1.68	<1	11	95	416	2.34	.25	.40	1087
286749	1/2 core	182.40	183.20	0.80	.2	.61	10	<5	584	<10	2.29	1	12	72	715	2.52	.24	.51	1344
286750	1/2 core	183.20	183.87	0.67	.3	.80	16	<5	364	<10	1.52	<1	13	71	2330	3.02	.22	.60	1381
286751	1/2 core	183.87	184.42	0.55	1.2	.85	11	<5	363	<10	.99	2	12	73	425	2.63	.23	.61	1140
286752	1/2 core	184.42	184.92	0.50	.2	.96	<5	<5	345	<10	1.11	1	17	86	716	3.37	.24	.62	1269
286753	1/2 core	184.92	185.44	0.52	.1	1.01	<5	<5	59	<10	.94	2	15	73	450	3.53	.23	.65	1345
286754	1/2 core	185.44	186.05	0.61	5.1	.78	36	<5	64	<10	.92	4	25	113	6580	3.54	.26	.43	1043
286755	1/2 core	186.05	186.95	0.90	1.1	.80	7	<5	207	<10	1.09	1	14	74	925	3.18	.23	.54	1267
286756	1/2 core	186.95	187.75	0.80	1.2	.61	6	<5	367	<10	1.61	2	17	105	372	2.42	.43	.45	1243
286757	1/2 core	187.75	188.48	0.73	.3	.69	<5	<5	329	<10	1.17	<1	9	88	313	2.28	.23	.49	999
286758	standard 2: CDN-CGS-18				3.1	1.67	46	<5	103	<10	.78	3	14	59	3120	4.03	.14	.84	704
286759	blank 1				.1	.27	<5	<5	144	<10	1.18	<1	5	81	15	1.36	.09	.09	300
286760	1/2 core	188.48	189.48	1.00	1.9	.68	<5	<5	602	<10	1.21	2	10	75	455	2.66	.23	.49	1221
286761	1/2 core	189.48	190.10	0.62	.5	.31	12	<5	96	<10	1.05	<1	6	96	14	1.60	.11	.11	427
286762	1/2 core	190.10	191.20	1.10	1.4	1.06	<5	<5	296	<10	1.08	2	16	47	621	3.04	.24	.65	1208
286763	1/2 core	191.20	192.55	1.35	1.0	1.01	8	<5	31	<10	1.99	2	10	117	499	2.49	.27	.57	1304
286764	1/2 core	192.55	193.80	1.25	.9	.91	<5	<5	1327	<10	1.67	<1	11	62	510	2.42	.21	.50	1191
286765	1/2 core	193.80	194.47	0.67	.2	.96	8	<5	268	<10	1.13	2	12	103	1715	2.77	.22	.45	1008
286766	1/2 core	194.47	195.05	0.58	1.0	.95	7	<5	629	<10	1.18	<1	13	66	720	2.47	.23	.49	877
286767	1/2 core	195.05	195.57	0.52	.8	1.31	26	<5	1291	<10	1.96	1	16	66	358	3.46	.22	.62	1534
286768	1/2 core	195.57	196.50	0.93	1.0	.91	6	<5	176	<10	.95	2	21	121	1830	2.65	.24	.43	827
286769	1/2 core	196.50	197.50	1.00	1.4	1.37	7	<5	582	<10	1.52	3	19	74	575	3.45	.28	.66	1196
286770	1/2 core	197.50	198.12	0.62	1.6	1.65	6	<5	274	<10	1.56	1	34	69	658	4.43	.26	.77	1538
286771	1/2 core	198.12	198.67	0.55	.1	1.49	<5	<5	943	<10	2.22	<1	21	74	733	3.94	.28	.76	1637
286772	1/2 core	198.67	199.21	0.54	1.5	1.50	<5	<5	332	<10	1.60	1	25	66	475	4.13	.27	.74	1418
286773	1/2 core	199.21	200.19	0.98	.2	1.57	<5	<5	320	<10	1.34	<1	28	86	229	4.32	.26	.71	1452
286774	1/2 core	200.19	200.78	0.59	1.2	1.45	<5	<5	64	<10	.55	1	53	62	1720	4.41	.20	.75	1131
286775	standard 2: CDN-CGS-18				3.2	1.88	55	<5	96	<10	.76	3	14	59	3020	4.28	.14	.81	720
286776	blank 1				.1	.24	<5	<5	139	<10	1.33	<1	5	82	12	1.31	.10	.15	509
286777	1/2 core	200.78	201.58	0.80	.9	1.58	16	<5	96	<10	.71	2	49	108	6315	4.98	.26	.80	1192
286778	1/2 core	201.58	202.34	0.76	.6	1.68	17	<5	91	<10	.65	2	30	69	4920	4.92	.23	.89	1302
286779	1/2 core	202.34	203.20	0.86	.7	1.60	12	<5	94	<10	.67	1	33	77	3125	4.70	.21	.84	1282
286780	1/2 core	203.20	204.00	0.80	.6	1.55	<5	<5	190	<10	.65	2	29	51	2210	4.40	.22	.82	1141
286781	1/2 core	204.00	204.95	0.95	.3	1.25	13	<5	547	<10	1.23	1	22	91	425	3.60	.21	.60	1178

Sample		From	To	Interval	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn
No.		metres	metres	metres	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm
286782	1/2 core	204.95	205.77	0.82	.2	1.21	<5	<5	251	<10	1.37	1	24	74	830	3.24	.24	.63	1200
286783	1/2 core	205.77	206.27	0.50	.3	2.26	13	<5	2973	<10	2.86	2	26	78	425	5.13	.26	.82	1618
286784	1/2 core	206.27	207.32	1.05	.2	1.08	7	<5	464	<10	1.50	<1	16	55	1730	2.69	.27	.43	1023
286785	1/2 core	207.32	207.92	0.60	1.3	.85	<5	<5	117	<10	1.64	2	21	29	4725	2.87	.21	.33	950
286786	1/2 core	207.92	208.52	0.60	1.6	.84	9	<5	165	<10	.71	<1	24	96	5490	2.72	.29	.31	568
286787	1/2 core	208.52	209.35	0.83	.2	1.22	<5	<5	75	<10	2.77	1	19	62	1985	3.45	.28	.40	1485
286788	1/2 core	209.35	209.51	0.16	4.9	.87	6	<5	47	<10	.92	2	80	144	9720	6.01	.29	.27	520
286789	1/2 core	209.51	210.55	1.04	2.2	.90	15	<5	325	<10	2.11	1	21	75	4330	2.97	.25	.33	1003
286790	1/2 core	210.55	211.38	0.83	1.5	1.10	<5	<5	51	<10	1.48	2	29	74	4020	3.71	.27	.36	744
286791	1/2 core	211.38	212.15	0.77	.1	1.35	11	<5	40	<10	1.28	1	40	96	725	4.28	.28	.41	728
286792	standard 1: CDN-CGS-16				1.0	1.76	55	<5	149	<10	4.12	3	21	38	1050	4.45	.31	1.56	787
286793	blank 1				.1	.36	9	<5	151	<10	1.32	<1	6	82	18	1.43	.11	.33	530
286794	1/2 core	212.15	212.80	0.65	.2	1.58	<5	<5	94	<10	1.88	2	26	66	2560	4.41	.24	.57	1081
286795	1/2 core	212.80	213.20	0.40	.2	1.18	<5	<5	65	<10	1.30	<1	17	135	2052	3.02	.30	.38	661
286796	1/2 core	213.20	214.00	0.80	.3	.70	16	<5	325	<10	1.55	1	9	77	2125	1.99	.22	.22	609
286797	1/2 core	214.00	214.65	0.65	.2	.67	<5	<5	202	<10	1.27	<1	10	91	3446	2.00	.23	.25	615
286798	1/2 core	214.65	215.35	0.70	.3	1.03	<5	<5	74	<10	.82	2	17	122	1425	2.93	.31	.42	631
286799	1/2 core	215.35	216.00	0.65	.1	1.52	9	<5	95	<10	1.14	1	20	74	1780	3.95	.28	.60	866
286800	1/2 core	216.00	216.74	0.74	.3	1.39	<5	<5	85	<10	1.20	2	19	91	966	3.83	.27	.52	822
286801	1/2 core	216.74	217.36	0.62	.3	1.43	8	<5	89	<10	1.60	2	21	118	4276	4.21	.28	.55	1031
286802	1/2 core	217.36	218.05	0.69	2.6	1.06	<5	<5	53	<10	.88	2	65	86	13600	5.80	.25	.47	661
286803	1/2 core	218.05	218.88	0.83	1.0	1.51	6	<5	102	<10	1.40	1	30	87	1860	4.25	.27	.60	913
286804	1/2 core	218.88	219.76	0.88	.2	1.58	<5	<5	50	<10	1.51	<1	23	68	735	4.44	.24	.57	817
286805	1/2 core	219.76	220.57	0.81	.5	1.16	15	<5	54	<10	1.34	2	24	114	3960	3.69	.26	.41	731
286806	1/2 core	220.57	221.49	0.92	1.8	1.83	12	<5	43	<10	1.37	2	33	91	1536	5.56	.25	.73	1007
286807	1/2 core	221.49	221.92	0.43	1.0	1.14	<5	<5	58	<10	1.81	<1	25	61	560	3.14	.30	.46	961
286808	1/2 core	221.92	223.00	1.08	.4	.68	8	<5	322	<10	1.36	1	7	21	1572	1.34	.29	.23	536
286809	standard 2: CDN-CGS-18				3.2	1.82	56	<5	104	<10	.79	3	14	52	3112	4.18	.15	.77	762
286810	blank 1				.1	2.49	<5	<5	120	<10	.75	<1	4	81	44	1.38	.07	.07	665
286811	1/2 core	223.00	223.50	0.50	.2	2.08	<5	<5	816	<10	2.85	2	5	83	1215	1.03	.27	.15	1247
286812	1/2 core	223.50	224.33	0.83	1.5	6.66	<5	<5	314	<10	2.03	1	8	42	1430	1.06	.25	.14	2642
286813	1/2 core	224.33	225.10	0.77	1.3	7.83	<5	<5	102	<10	1.43	1	12	17	1125	1.14	.29	.18	2681
286814	1/2 core	225.10	226.15	1.05	.2	.72	<5	<5	90	<10	2.04	2	10	26	1030	1.23	.33	.19	681
286815	1/2 core	226.15	227.15	1.00	1.8	1.83	<5	<5	43	<10	.83	1	30	75	2560	4.63	.32	.89	910
286816	1/2 core	227.15	228.00	0.85	.1	.68	<5	<5	54	<10	1.73	<1	14	36	726	1.79	.23	.33	670
286817	1/2 core	228.00	229.00	1.00	1.4	1.62	<5	<5	48	<10	2.47	1	13	53	1020	2.02	.25	.37	1083
286818	1/2 core	229.00	229.85	0.85	.2	1.84	<5	<5	50	<10	2.69	1	14	64	825	2.41	.25	.41	1260
286819	1/2 core	229.85	230.70	0.85	1.4	1.61	20	<5	38	<10	1.10	2	43	96	4052	4.37	.24	.56	814
286820	1/2 core	230.70	231.24	0.54	2.8	.88	<5	<5	84	<10	2.31	<1	12	78	920	2.11	.30	.35	938
286821	1/2 core	231.24	232.30	1.06	.2	.90	<5	<5	77	<10	2.69	1	11	94	1010	2.19	.29	.34	1062
286822	1/2 core	232.30	233.40	1.10	.2	.86	<5	<5	90	<10	1.39	<1	14	56	1320	2.23	.28	.33	594
286823	1/2 core	233.40	234.08	0.68	1.2	.77	<5	<5	59	<10	1.99	<1	12	77	1125	2.16	.27	.29	821
286824	1/2 core	234.08	235.05	0.97	1.3	.65	11	<5	58	<10	1.08	2	18	73	1620	2.38	.26	.31	600
286825	1/2 core	235.05	235.78	0.73	2.1	1.14	27	<5	125	<10	1.98	1	20	113	1625	3.07	.30	.37	899
286826	standard 1: CDN-CGS-16				1.2	1.72	52	<5	139	<10	3.95	2	21	38	1108	4.66	.33	1.58	816
286827	blank 1				.1	.28	<5	<5	133	<10	1.96	<1	6	82	11	1.43	.13	.15	552
286828	1/2 core	235.78	236.76	0.98	1.6	.88	13	<5	50	<10	.74	1	16	108	1860	2.31	.31	.35	492

Sample		From	To	Interval	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn
No.		metres	metres	metres	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm
286829	1/2 core	236.76	237.76	1.00	.2	1.01	15	<5	56	<10	2.74	<1	16	78	1530	2.71	.31	.42	1078
286830	1/2 core	237.76	238.50	0.74	.2	1.25	<5	<5	812	<10	3.09	2	21	62	1875	3.64	.27	.43	1282
286831	1/2 core	238.50	240.00	1.50	.8	1.44	<5	<5	68	<10	1.98	<1	25	79	1030	4.13	.26	.55	885
286832	1/2 core	240.00	240.63	0.63	.2	.70	<5	<5	48	<10	2.25	2	11	100	2160	2.11	.25	.34	1039
286833	1/2 core	240.63	241.37	0.74	1.6	.93	6	<5	40	<10	1.35	1	15	95	2310	2.74	.23	.48	935
286834	1/2 core	241.37	241.97	0.60	1.0	.53	47	<5	77	<10	3.05	2	7	86	4960	1.91	.26	.33	1092
286835	1/2 core	241.97	242.93	0.96	.2	.57	6	<5	83	<10	4.28	<1	8	43	266	1.54	.27	.31	1430
286836	1/2 core	242.93	243.80	0.87	.3	.34	6	<5	72	<10	2.44	1	7	69	215	.94	.26	.25	728
286837	1/2 core	243.80	244.63	0.83	.2	.66	<5	<5	67	<10	4.13	2	7	67	105	1.82	.28	.28	1334
286838	1/2 core	244.63	244.78	0.15	.2	.67	8	<5	3357	<10	8.28	<1	8	71	122	1.60	.22	.31	2744
286839	1/2 core	244.78	246.00	1.22	.3	.87	<5	<5	766	<10	3.72	1	10	48	146	2.13	.28	.38	1229
286840	1/2 core	246.00	246.85	0.85	2.3	.52	6	<5	282	<10	3.37	1	5	67	307	1.45	.27	.24	1096
286841	1/2 core	246.85	247.42	0.57	1.2	.63	<5	<5	648	<10	2.79	2	10	55	470	2.37	.29	.32	1055
286842	1/2 core	247.42	248.20	0.78	.8	.61	7	<5	592	<10	3.12	<1	15	76	652	2.50	.26	.41	1189
286843	standard 1: CDN-CGS-16				1.5	1.65	52	<5	146	<10	3.95	2	18	38	1060	4.69	.34	1.67	775
286844	blank 1				.1	.87	<5	<5	109	<10	.98	<1	5	65	26	1.42	.08	.08	584
286845	1/2 core	248.20	249.00	0.80	.3	.59	<5	<5	1033	<10	5.17	2	9	62	525	1.68	.24	.36	1366
286846	1/2 core	249.00	249.28	0.28	2.4	2.18	25	<5	68	<10	2.02	3	10	88	1180	1.47	.30	.25	962
286847	1/2 core	249.28	250.14	0.86	1.5	4.44	<5	8	684	<10	3.35	2	9	52	1735	1.97	.24	.31	2078
286848	1/2 core	250.14	250.80	0.66	3.5	3.10	<5	<5	528	<10	2.10	2	5	47	2520	1.20	.28	.19	1298
286849	1/2 core	250.80	251.52	0.72	.2	.61	<5	<5	2505	<10	4.60	<1	13	77	850	2.50	.32	.37	1512
286850	1/2 core	251.52	252.17	0.65	1.1	3.89	<5	<5	83	<10	2.01	2	12	59	2930	2.73	.26	.36	1036
286851	1/2 core	252.17	253.08	0.91	2.4	.70	34	<5	79	<10	2.12	2	18	73	3120	3.46	.30	.50	706
286852	1/2 core	253.08	254.08	1.00	1.2	2.75	<5	<5	152	<10	1.57	2	26	72	8215	4.33	.32	.56	915
286853	1/2 core	254.08	255.03	0.95	.8	.24	26	<5	176	<10	1.76	1	25	88	3925	4.37	.30	.66	720
286854	1/2 core	255.03	255.91	0.88	2.0	.30	<5	<5	319	<10	.90	<1	28	91	5360	4.98	.29	.72	555
286855	1/2 core	255.91	256.91	1.00	1.8	.54	14	<5	116	<10	1.72	1	26	66	3261	4.78	.31	.86	967
286856	1/2 core	256.91	257.74	0.83	.6	.43	7	<5	87	<10	1.28	2	31	80	5271	6.21	.30	1.10	960
286857	1/2 core	257.74	258.40	0.66	.2	.81	<5	<5	45	<10	2.04	1	30	58	7430	6.57	.34	1.05	1159
286858	1/2 core	258.40	259.00	0.60	.5	1.06	<5	<5	54	<10	.72	2	29	90	3421	5.22	.33	.98	762
286859	1/2 core	259.00	259.95	0.95	.2	.47	<5	<5	761	<10	.75	1	8	40	912	2.34	.27	.47	914
286860	standard 2: CDN-CGS-18				3.2	1.76	48	<5	105	<10	.78	2	13	60	3005	4.08	.16	.81	725
286861	blank 1				.4	.71	<5	<5	472	<10	2.14	<1	15	102	2970	3.05	.26	.36	926
286862	1/2 core	259.95	260.60	0.65	5.6	.17	19	<5	61	18	1.15	1	12	77	4225	2.97	.34	.37	449
286863	1/2 core	260.60	261.20	0.60	.2	.32	7	<5	88	<10	1.48	2	24	79	1830	4.51	.36	.67	466
286864	1/2 core	261.20	261.85	0.65	.6	.30	<5	<5	75	<10	2.71	<1	19	40	1326	4.13	.29	.66	771
286865	1/2 core	261.85	262.60	0.75	1.3	1.06	16	<5	57	<10	1.98	2	20	89	4130	4.02	.32	.55	729
286866	1/2 core	262.60	263.25	0.65	1.2	.99	28	<5	46	<10	1.65	2	14	65	4625	3.13	.28	.40	801
286867	1/2 core	263.25	263.96	0.71	5.4	.19	107	<5	43	<10	1.89	3	33	94	16800	5.23	.32	.45	665
286868	1/2 core	263.96	264.58	0.62	1.8	.14	32	<5	55	11	2.21	1	15	61	2821	2.32	.33	.41	670
286869	1/2 core	264.58	265.50	0.92	1.2	.58	7	<5	154	<10	3.19	2	16	48	1820	3.60	.30	.58	911
286870	1/2 core	265.50	266.05	0.55	.3	2.32	<5	<5	100	<10	2.61	2	18	101	4932	3.96	.26	.77	1343
286871	1/2 core	266.05	266.63	0.58	1.0	.23	<5	<5	74	<10	3.53	1	13	83	4025	2.88	.31	.39	832
286872	1/2 core	266.63	267.12	0.49	.4	.38	<5	<5	151	<10	3.22	<1	8	61	2420	2.10	.32	.31	799
286873	1/2 core	267.12	268.08	0.96	.3	.98	<5	<5	287	<10	4.00	<1	13	54	1032	2.30	.30	.42	1174
286874	1/2 core	268.08	269.08	1.00	.2	1.05	<5	<5	237	<10	4.24	1	16	49	825	2.51	.31	.47	1310
286875	1/2 core	269.08	270.10	1.02	.8	1.03	23	<5	133	<10	2.31	2	17	98	3932	2.69	.37	.41	823

Sample		From	To	Interval	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn
No.		metres	metres	metres	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm
286876	1/2 core	270.10	270.70	0.60	2.5	.92	6	<5	617	<10	1.96	<1	18	62	1260	2.67	.34	.40	867
286877	standard 1: CDN-CGS-16				1.2	1.80	51	<5	138	<10	4.10	3	22	38	1025	4.11	.33	1.62	780
286878	blank 1				.1	2.26	<5	<5	138	<10	1.06	<1	5	100	26	1.30	.12	.10	838
286879	1/2 core	270.70	271.36	0.66	7.4	1.37	<5	<5	1350	<10	2.96	2	20	77	1030	2.90	.26	.53	1421
286880	1/2 core	271.36	272.12	0.76	.2	2.33	<5	<5	54	<10	1.35	1	22	52	1316	3.31	.31	.61	1878
286881	1/2 core	272.12	272.78	0.66	.3	.59	<5	<5	63	<10	.87	<1	26	68	725	3.92	.30	.87	1004
286882	1/2 core	272.78	273.70	0.92	.3	.74	<5	<5	39	<10	1.01	1	22	66	726	3.41	.32	.80	1044
286883	1/2 core	273.70	274.55	0.85	.6	1.55	<5	<5	38	<10	1.34	<1	23	86	2130	3.35	.31	.77	1134
286884	1/2 core	274.55	275.00	0.45	.9	1.23	<5	<5	278	<10	1.04	2	24	79	6540	3.72	.25	.75	1120
286885	1/2 core	275.00	275.30	0.30	2.8	.31	6	<5	47	<10	2.01	1	12	128	29100	3.82	.17	.46	855
286886	1/2 core	275.30	276.23	0.93	2.4	.96	5	<5	38	<10	.95	2	19	59	3230	3.20	.28	.73	946
286887	1/2 core	276.23	277.05	0.82	.8	1.71	<5	<5	39	<10	.58	1	24	77	1925	3.70	.28	.89	1034
286888	1/2 core	277.05	278.20	1.15	.4	1.86	<5	<5	128	<10	.95	2	26	76	1420	4.72	.31	.95	1555
286889	1/2 core	278.20	278.95	0.75	.6	2.85	<5	<5	45	<10	.87	1	22	79	1130	4.32	.35	.77	1518
286890	1/2 core	278.95	279.48	0.53	.1	2.69	<5	<5	57	<10	1.92	2	19	60	241	3.57	.27	1.03	1482
286891	1/2 core	279.48	280.14	0.66	.7	.94	<5	<5	39	<10	.94	1	26	79	1325	3.94	.29	1.21	1231
286892	1/2 core	280.14	280.74	0.60	.3	2.13	<5	<5	44	<10	1.35	<1	23	61	526	3.99	.28	.98	1275
286893	1/2 core	280.74	281.80	1.06	1.8	2.74	<5	<5	34	<10	1.13	2	43	73	1430	6.38	.20	1.87	1721
286894	standard 2: CDN-CGS-18				3.2	1.88	52	<5	100	<10	.67	2	14	54	3105	4.38	.17	.81	747
286895	blank 1				.1	.14	<5	<5	120	<10	.86	<1	7	127	285	1.67	.16	.12	401
286896	1/2 core	281.80	282.56	0.76	.2	2.66	<5	<5	37	<10	1.14	1	28	62	129	4.31	.28	1.08	1424
286897	1/2 core	282.56	283.50	0.94	.2	2.96	<5	<5	36	<10	1.19	1	24	76	525	4.23	.28	.97	1627
286898	1/2 core	283.50	284.22	0.72	1.2	2.93	<5	<5	35	<10	1.52	<1	23	68	2130	3.80	.24	.84	2013
286899	1/2 core	284.22	284.72	0.50	.4	2.31	<5	<5	33	<10	.85	2	25	61	726	3.98	.25	.95	1297
286900	1/2 core	284.72	285.15	0.43	.4	1.78	<5	<5	27	<10	.81	<1	19	132	530	2.57	.23	.64	992

Pioneer Laboratories Inc. Report Numbers: 2092518 (Samples: 287755-287839); 2092528 (Samples: 287840-287908); 2092536 (Samples: 286701-286900; 287909-287950): 2102603 (Sample: 287831)

09-SND-14																			
Sample		From	To	Interval	Mo	Na	Ni	P	Pb	S	Sb	Sn	Sr	Te	Ti	Tl	V	Zn	Au*
No.		metres	metres	metres	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
287755	1/2 core	0.00	1.90	1.90	10	.04	6	.08	6	.03	3	<2	16	<5	.01	<5	23	260	25
287756	1/2 core	1.90	2.25	0.35	7	.05	7	.07	12	.01	<2	<2	15	<5	.01	<5	29	138	5
287757	1/2 core	2.25	2.70	0.45	10	.03	6	.08	11	.10	<2	<2	12	<5	.01	<5	28	159	4
287758	1/2 core	2.70	3.44	0.74	5	.02	5	.06	4	.02	<2	<2	18	<5	.01	<5	22	356	3
287759	1/2 core	3.44	4.05	0.61	4	.04	7	.08	32	.03	6	<2	11	<5	.01	<5	26	5796	18
287760	1/2 core	4.05	4.20	0.15	122	.02	4	.04	9842	.36	18	<2	4	<5	.01	<5	8	2100	51
287761	1/2 core	4.20	5.10	0.90	35	.04	6	.08	568	.10	9	<2	7	<5	.01	<5	23	6769	18
287762	1/2 core	5.10	5.45	0.35	7	.03	4	.06	3188	.09	8	<2	16	<5	.01	<5	12	2142	6
287763	1/2 core	5.45	6.08	0.63	4	.03	5	.08	16	.01	3	<2	16	<5	.01	<5	20	1925	6
287764	1/2 core	6.08	7.22	1.14	6	.05	6	.07	5	.02	2	<2	25	<5	.01	<5	24	351	3
287765	1/2 core	7.22	7.65	0.43	11	.03	5	.08	68	.17	15	<2	26	<5	.01	<5	18	1662	12
287766	1/2 core	7.65	8.55	0.90	4	.05	7	.06	18	.01	5	<2	21	<5	.01	8	33	662	7
287767	1/2 core	8.55	9.12	0.57	2	.04	5	.08	216	.02	6	<2	12	<5	.01	<5	26	809	12
287768	1/2 core	9.12	9.67	0.55	4	.03	6	.07	76	.01	5	<2	11	<5	.01	6	25	917	10
287769	1/2 core	9.67	10.62	0.95	2	.04	7	.08	162	.02	<2	<2	9	<5	.01	5	26	806	7
287770	standard 1: CDN-CGS-16				16	.13	28	.18	18	1.21	5	<2	136	7	.03	<5	125	120	135
287771	blank2				1	.30	5	.08	6	.01	2	<2	47	<5	.05	<5	145	31	28
287772	1/2 core	10.62	11.17	0.55	3	.04	8	.08	1708	.02	4	<2	7	<5	.01	5	28	5962	8
287773	1/2 core	11.17	11.62	0.45	4	.03	4	.07	1040	.03	13	<2	9	<5	.01	<5	16	4038	52
287774	1/2 core	11.62	12.38	0.76	2	.05	7	.08	32	.01	5	<2	11	<5	.01	6	35	1067	4
287775	1/2 core	12.38	13.33	0.95	4	.04	6	.06	210	.01	4	<2	6	<5	.01	<5	24	1473	8
287776	1/2 core	13.33	14.32	0.99	2	.03	6	.04	9	.01	3	<2	13	<5	.01	<5	29	585	6
287777	1/2 core	14.32	15.20	0.88	3	.04	3	.03	17	<10	11	<2	9	<5	.01	<5	19	565	3
287778	1/2 core	15.20	16.00	0.80	4	.03	4	.04	10	.01	10	<2	8	<5	.01	7	17	414	2
287779	1/2 core	16.00	16.87	0.87	3	.04	3	.05	7	.01	7	<2	7	<5	.01	<5	15	312	3
287780	1/2 core	16.87	17.94	1.07	4	.05	6	.04	20	.01	12	<2	9	<5	.01	<5	12	331	6
287781	1/2 core	17.94	18.90	0.96	5	.03	4	.03	12	.02	17	<2	12	<5	.01	<5	14	171	12
287782	1/2 core	18.90	19.93	1.03	4	.04	3	.05	6	.02	11	<2	15	<5	.01	<5	20	216	7
287783	1/2 core	19.93	20.38	0.45	5	.03	7	.04	93	.01	32	<2	8	<5	.01	<5	23	526	5
287784	1/2 core	20.38	20.68	0.30	11	.02	3	.02	399	.19	48	<2	4	<5	.01	<5	4	1790	32
287785	1/2 core	20.68	21.28	0.60	2	.04	7	.04	52	.02	10	<2	8	<5	.01	<5	21	552	1
287786	1/2 core	21.28	22.00	0.72	1	.03	4	.03	15	.01	7	<2	9	<5	.01	5	22	367	1
287787	standard 1: CDN-CGS-16				14	.12	24	.14	18	1.25	8	<2	136	8	.03	<5	117	125	130
287788	blank2				1	.28	4	.04	13	.02	5	<2	47	<5	.05	9	98	26	4
287789	1/2 core	22.00	22.75	0.75	2	.04	6	.05	35	.01	7	<2	13	<5	.01	6	26	306	1
287790	1/2 core	22.75	23.05	0.30	6	.03	7	.04	52	.01	10	<2	9	<5	.01	<5	18	243	5
287791	1/2 core	23.05	23.65	0.60	1	.04	6	.05	10	.01	6	<2	13	<5	.01	<5	24	195	7
287792	1/2 core	23.65	24.32	0.67	1	.05	7	.06	8	.01	<2	<2	20	<5	.01	<5	33	149	2
287793	1/2 core	24.32	25.32	1.00	7	.05	7	.03	6	.02	<2	<2	21	<5	.01	7	27	168	3
287794	1/2 core	25.32	26.26	0.94	5	.05	6	.04	5	.02	5	<2	22	<5	.01	<5	28	240	1
287795	1/2 core	26.26	26.83	0.57	10	.03	8	.03	27	.05	17	<2	20	<5	.01	<5	16	332	2
287796	1/2 core	26.83	27.66	0.83	2	.05	7	.04	9	.03	4	<2	44	<5	.01	10	26	160	1

Sample		From	To	Interval	Mo	Na	Ni	P	Pb	S	Sb	Sn	Sr	Te	Ti	Tl	V	Zn	Au*
No.		metres	metres	metres	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
287797	1/2 core	27.66	28.53	0.87	1	.04	4	.05	6	.02	7	<2	13	<5	.01	<5	25	914	1
287798	1/2 core	28.53	29.05	0.52	13	.02	2	.02	29	.15	46	<2	8	<5	.01	<5	1	5784	7
287799	1/2 core	29.05	29.80	0.75	48	.03	6	.01	526	1.06	37	<2	3	<5	.01	<5	9	1633	40
287800	1/2 core	29.80	30.40	0.60	22	.02	3	.02	25	.46	14	<2	2	<5	.01	<5	15	746	8
287801	1/2 core	30.40	31.22	0.82	4	.04	4	.05	47	.06	4	<2	20	<5	.01	<5	26	702	2
287802	1/2 core	31.22	32.04	0.82	7	.04	7	.04	555	.15	7	<2	24	<5	.01	7	28	1561	4
287803	1/2 core	32.04	32.77	0.73	1	.03	3	.03	81	.08	<2	<2	22	<5	.01	<5	17	1595	8
287804	standard 2: CDN-CGS-18				41	.09	121	.07	84	.74	8	<2	35	5	.07	8	54	330	305
287805	blank2				1	.29	7	.04	10	.02	<2	<2	47	<5	.06	9	129	30	10
287806	1/2 core	32.77	32.92	0.15	18	.04	9	.03	2200	.20	8	<2	20	<5	.01	9	30	2962	20
287807	1/2 core	32.92	33.87	0.95	2	.05	6	.04	615	.08	4	<2	24	<5	.01	<5	32	1040	38
287808	1/2 core	33.87	34.30	0.43	18	.04	7	.04	22	.26	5	<2	22	<5	.01	8	23	662	12
287809	1/2 core	34.30	35.25	0.95	2	.05	6	.03	17	.04	2	<2	25	<5	.01	<5	36	123	19
287810	1/2 core	35.25	36.00	0.75	6	.06	7	.04	542	.10	<2	<2	24	<5	.01	<5	34	1202	5
287811	1/2 core	36.00	36.48	0.48	5	.04	6	.02	190	.07	9	<2	12	<5	.01	5	33	439	3
287812	1/2 core	36.48	36.79	0.31	18	.02	3	.03	77	1.44	21	<2	4	<5	.01	<5	36	735	27
287813	1/2 core	36.79	37.46	0.67	6	.03	7	.04	12	.04	8	<2	17	<5	.01	<5	21	84	130
287814	1/2 core	37.46	38.06	0.60	5	.03	4	.03	39	.10	7	<2	22	<5	.01	6	14	641	7
287815	1/2 core	38.06	38.76	0.70	4	.06	6	.05	6	.03	6	<2	23	<5	.01	<5	35	143	2
287816	1/2 core	38.76	39.44	0.68	2	.03	4	.06	10	.03	8	<2	19	<5	.01	5	18	218	4
287817	1/2 core	39.44	40.27	0.83	3	.02	3	.04	4	.06	6	<2	34	<5	.01	<5	17	155	1
287818	1/2 core	40.27	40.89	0.62	2	.03	4	.03	24	.13	50	<2	66	<5	.01	5	10	138	150
287819	1/2 core	40.89	41.57	0.68	4	.02	6	.08	25	.09	31	<2	114	<5	.01	6	13	137	2
287820	1/2 core	41.57	42.15	0.58	3	.03	5	.07	196	.10	78	<2	20	<5	.01	<5	12	652	8
287821	standard 1: CDN-CGS-16				15	.13	26	.20	17	1.22	7	<2	136	7	.03	<5	119	115	135
287822	blank2				1	.30	5	.08	7	.08	5	<2	56	<5	.04	<5	81	38	8
287823	1/2 core	42.15	42.76	0.61	8	.05	7	.07	20	.05	8	<2	18	<5	.01	7	32	165	1
287824	1/2 core	42.76	43.36	0.60	4	.03	6	.08	32	.20	31	<2	16	<5	.01	<5	17	2707	23
287825	1/2 core	43.36	44.25	0.89	3	.04	5	.06	12	.04	12	<2	33	<5	.01	<5	26	83	8
287826	1/2 core	44.25	45.30	1.05	21	.03	5	.06	258	.31	67	<2	8	<5	.01	<5	18	346	10
287827	1/2 core	45.30	46.30	1.00	3	.02	6	.08	22	.03	9	<2	14	<5	.01	9	20	134	9
287828	1/2 core	46.30	47.30	1.00	7	.03	8	.05	409	.04	17	<2	12	<5	.01	6	23	225	7
287829	1/2 core	47.30	48.05	0.75	6	.04	7	.08	19	.04	6	<2	14	<5	.01	<5	30	188	4
287830	1/2 core	48.05	48.76	0.71	3	.04	6	.07	10	.03	5	<2	13	<5	.01	<5	28	141	3
287831	1/2 core	48.76	49.65	0.89	10	.03	5	.06	100	.69	17	<2	10	<5	.01	8	20	13600	75
287832	1/2 core	49.65	50.36	0.71	3	.06	6	.08	12	.03	8	<2	42	<5	.01	8	27	104	6
287833	1/2 core	50.36	51.10	0.74	2	.04	5	.06	20	.05	7	<2	22	<5	.01	7	23	225	70
287834	1/2 core	51.10	51.98	0.88	6	.05	8	.08	7	.02	8	<2	26	<5	.01	5	27	60	9
287835	1/2 core	51.98	52.60	0.62	2	.05	8	.08	5	.02	6	<2	29	<5	.01	6	34	91	3
287836	1/2 core	52.60	53.10	0.50	7	.04	7	.06	24	.09	20	<2	12	<5	.01	<5	31	134	13
287837	1/2 core	53.10	53.95	0.85	4	.05	8	.08	100	.02	2	<2	21	<5	.01	7	30	81	2
287838	standard 2: CDN-CGS-18				42	.10	134	.14	98	.74	6	<2	43	7	.08	<5	56	341	310
287839	blank2				1	.34	5	.08	11	.01	2	<2	60	<5	.05	15	131	23	11
287840	1/2 core	53.95	54.74	0.79	3	.05	6	.04	11	.03	3	<2	20	<5	.02	<5	32	80	2
287841	1/2 core	54.74	55.70	0.96	3	.05	6	.04	7	.02	<2	<2	24	<5	.04	<5	36	102	1
287842	1/2 core	55.70	56.53	0.83	2	.05	6	.04	40	.02	2	<2	16	<5	.02	<5	32	175	2
287843	1/2 core	56.53	57.78	1.25	2	.06	8	.04	6	.02	<2	<2	19	<5	.08	<5	57	52	1

Sample		From	To	Interval	Mo	Na	Ni	P	Pb	S	Sb	Sn	Sr	Te	Ti	Tl	V	Zn	Au*
No.		metres	metres	metres	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
287844	1/2 core	57.78	59.15	1.37	1	.05	8	.06	12	.10	12	<2	18	<5	.05	<5	61	120	2
287845	1/2 core	59.15	59.94	0.79	4	.04	12	.07	30	.08	7	<2	14	<5	.03	<5	76	265	1
287846	1/2 core	59.94	60.82	0.88	3	.04	8	.05	857	.15	<2	<2	11	<5	.02	<5	38	1853	2
287847	1/2 core	60.82	61.77	0.95	9	.04	6	.04	177	.35	5	<2	11	<5	.01	<5	30	815	8
287848	1/2 core	61.77	62.15	0.38	6	.05	7	.05	53	.06	7	<2	17	<5	.01	<5	40	203	1
287849	1/2 core	62.15	63.15	1.00	3	.05	5	.05	3	.04	6	<2	16	<5	.02	<5	33	111	2
287850	1/2 core	63.15	64.26	1.11	28	.03	6	.04	54	.47	2	<2	7	<5	.01	<5	30	416	8
287851	1/2 core	64.26	64.95	0.69	1	.04	10	.05	79	.03	2	<2	7	<5	.01	<5	41	359	1
287852	1/2 core	64.95	65.86	0.91	2	.04	11	.06	18	.04	4	<2	14	<5	.01	<5	59	236	2
287853	1/2 core	65.86	66.88	1.02	3	.04	11	.07	12	.06	5	<2	20	<5	.01	<5	68	337	1
287854	1/2 core	66.88	67.53	0.65	2	.03	13	.08	29	.15	2	<2	25	<5	.01	<5	74	330	2
287855	standard 2: CDN-CGS-18				37	.10	124	.08	100	.83	2	<2	34	<5	.10	<5	52	344	290
287856	blank2				1	.35	4	.05	23	.01	<2	<2	51	<5	.06	<5	135	35	2
287857	1/2 core	67.53	68.55	1.02	5	.05	11	.07	8	.04	<2	<2	24	<5	.02	<5	60	182	5
287858	1/2 core	68.55	69.62	1.07	3	.04	10	.06	8	.07	3	<2	21	<5	.01	<5	57	205	3
287859	1/2 core	69.62	70.22	0.60	4	.04	11	.07	11	.22	8	<2	23	<5	.01	<5	56	280	6
287860	1/2 core	70.22	70.95	0.73	1	.04	11	.07	14	.02	9	<2	14	<5	.01	<5	59	237	2
287861	1/2 core	70.95	72.00	1.05	2	.04	14	.08	13	.05	4	<2	19	<5	.03	<5	74	293	6
287862	1/2 core	72.00	72.98	0.98	1	.04	11	.07	11	.01	5	<2	14	<5	.02	<5	68	291	16
287863	1/2 core	72.98	74.05	1.07	3	.03	12	.06	22	.01	13	<2	10	<5	.01	<5	54	286	3
287864	1/2 core	74.05	74.95	0.90	1	.03	11	.06	18	.01	5	<2	9	<5	.01	<5	53	200	1
287865	1/2 core	74.95	76.00	1.05	1	.03	11	.07	22	.03	13	<2	12	<5	.01	<5	46	205	2
287866	1/2 core	76.00	76.64	0.64	3	.04	10	.06	12	.04	5	<2	15	<5	.01	<5	59	158	1
287867	1/2 core	76.64	77.06	0.42	2	.03	11	.07	22	.11	7	<2	12	<5	.01	<5	59	975	5
287868	1/2 core	77.06	78.00	0.94	4	.03	10	.05	40	.52	7	<2	5	<5	.01	<5	32	543	5
287869	1/2 core	78.00	78.90	0.90	6	.03	11	.05	81	.11	16	<2	8	<5	.01	<5	29	623	3
287870	1/2 core	78.90	79.40	0.50	5	.03	7	.02	375	.03	59	<2	8	<5	.01	<5	9	523	2
287871	1/2 core	79.40	80.10	0.70	1	.03	12	.06	36	.01	20	<2	7	<5	.01	<5	27	932	5
287872	standard 2: CDN-CGS-18				39	.10	132	.08	103	.86	6	<2	37	5	.11	<5	57	362	305
287873	blank1				1	.06	4	.09	15	.01	<2	<2	39	<5	.01	<5	30	46	2
287874	1/2 core	80.10	80.60	0.50	1	.03	9	.07	22	.01	10	<2	12	<5	.01	<5	50	1270	1
287875	1/2 core	80.60	82.08	1.48	1	.04	11	.07	12	.01	7	<2	11	<5	.01	<5	51	927	2
287876	1/2 core	82.08	82.83	0.75	1	.03	9	.07	22	.01	10	<2	7	<5	.01	<5	43	468	2
287877	1/2 core	82.83	84.12	1.29	1	.04	10	.07	14	.01	9	<2	13	<5	.01	<5	63	952	1
287878	1/2 core	84.12	85.14	1.02	1	.04	8	.07	12	.01	<2	<2	12	<5	.01	<5	53	794	1
287879	1/2 core	85.14	86.65	1.51	2	.04	7	.06	9	.01	4	<2	10	<5	.01	<5	42	625	2
287880	1/2 core	86.65	87.90	1.25	1	.03	8	.07	22	.01	10	<2	9	<5	.01	<5	36	1191	1
287881	1/2 core	87.90	89.10	1.20	1	.03	8	.06	35	.01	16	<2	9	<5	.01	<5	34	974	6
287882	1/2 core	89.10	90.38	1.28	2	.03	10	.07	23	.01	16	<2	10	<5	.01	<5	42	1226	2
287883	1/2 core	90.38	91.75	1.37	1	.04	10	.07	15	.01	5	<2	8	<5	.01	<5	49	1575	5
287884	1/2 core	91.75	93.05	1.30	1	.03	9	.07	11	.01	11	<2	10	<5	.01	<5	42	1355	22
287885	1/2 core	93.05	93.95	0.90	1	.03	10	.07	10	.01	6	<2	10	<5	.01	<5	49	1435	2
287886	1/2 core	93.95	94.40	0.45	1	.03	8	.19	14	.01	17	<2	12	<5	.01	<5	37	739	4
287887	1/2 core	94.40	94.80	0.40	1	.03	10	.05	22	.01	28	<2	4	<5	.01	<5	23	576	1
287888	1/2 core	94.80	95.80	1.00	1	.03	10	.07	20	.01	24	<2	9	<5	.01	<5	26	633	2
287889	standard 1: CDN-CGS-16				16	.14	27	.17	24	1.41	7	<2	134	10	.03	<5	125	115	130
287890	blank1				1	.06	3	.09	<2	.01	<2	<2	30	<5	.01	<5	38	30	3

Sample		From	To	Interval	Mo	Na	Ni	P	Pb	S	Sb	Sn	Sr	Te	Ti	Tl	V	Zn	Au*
No.		metres	metres	metres	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
287891	1/2 core	95.80	97.28	1.48	1	.03	8	.54	15	.01	20	<2	17	<5	.01	<5	35	827	36
287892	1/2 core	97.28	98.00	0.72	1	.03	7	.60	23	.01	23	<2	14	<5	.01	<5	29	565	11
287893	1/2 core	98.00	98.25	0.25	3	.03	7	.03	7	.01	6	<2	4	<5	.01	<5	17	214	3
287894	1/2 core	98.25	98.95	0.70	1	.03	7	.17	20	.01	13	<2	8	<5	.01	<5	29	451	16
287895	1/2 core	98.95	100.32	1.37	3	.03	8	.07	18	.01	10	<2	7	<5	.01	<5	36	443	2
287896	1/2 core	100.32	101.37	1.05	1	.03	6	.07	9	.01	16	<2	9	<5	.01	<5	35	326	2
287897	1/2 core	101.37	102.25	0.88	1	.03	8	.08	17	.01	26	<2	11	<5	.01	<5	47	702	3
287898	1/2 core	102.25	103.00	0.75	1	.03	7	.07	12	.01	28	<2	9	<5	.01	<5	38	487	2
287899	1/2 core	103.00	103.90	0.90	1	.03	4	.08	3	.01	15	<2	12	<5	.01	<5	38	443	3
287900	1/2 core	103.90	105.00	1.10	1	.03	9	.09	16	.01	12	<2	18	<5	.01	<5	43	973	33
287901	1/2 core	105.00	106.00	1.00	1	.03	11	.08	20	.01	16	<2	12	<5	.01	<5	48	620	3
287902	1/2 core	106.00	106.50	0.50	1	.03	8	.12	14	.01	53	<2	10	<5	.01	<5	33	581	8
287903	1/2 core	106.50	106.85	0.35	1	.03	9	.07	17	.01	33	<2	6	<5	.01	<5	39	385	9
287904	1/2 core	106.85	108.00	1.15	1	.03	6	.08	23	.01	84	<2	11	<5	.01	<5	36	482	4
287905	1/2 core	108.00	109.44	1.44	1	.03	8	.08	29	.01	53	<2	10	<5	.01	<5	42	889	3
287906	standard 1: CDN-CGS-16				14	.14	25	.18	22	1.39	8	<2	132	9	.03	<5	124	118	120
287907	blank 1				1	.06	3	.09	<2	.01	<2	<2	25	<5	.01	<5	29	35	2
287908	1/2 core	109.44	110.10	0.66	1	.03	8	.52	20	.01	91	<2	13	<5	.01	<5	35	698	4
287909	1/2 core	110.10	110.90	0.80	3	.03	8	.10	44	.01	102	<2	10	<5	.01	<5	40	751	17
287910	1/2 core	110.90	111.95	1.05	3	.02	9	.06	25	.01	78	<2	9	<5	.01	<5	33	609	1
287911	1/2 core	111.95	112.98	1.03	3	.01	4	.03	26	.01	175	<2	6	<5	.01	<5	13	564	27
287912	1/2 core	112.98	113.80	0.82	3	.03	3	.02	11	<10	39	<2	4	<5	.01	<5	7	199	3
287913	1/2 core	113.80	114.65	0.85	3	.02	7	.04	105	.03	64	<2	22	<5	.01	<5	29	571	1
287914	1/2 core	114.65	115.52	0.87	2	.03	10	.04	50	.01	39	<2	19	<5	.01	<5	34	1590	9
287915	1/2 core	115.52	116.10	0.58	1	.01	8	.04	63	.01	35	<2	18	<5	.01	<5	33	1516	4
287916	1/2 core	116.10	116.88	0.78	3	.03	7	.05	67	.01	24	<2	20	<5	.01	<5	31	687	1
287917	1/2 core	116.88	118.56	1.68	1	.02	9	.04	55	.05	56	<2	18	<5	.01	<5	30	354	1
287918	1/2 core	118.56	119.40	0.84	1	.03	10	.04	62	<10	30	<2	21	<5	.01	<5	43	318	4
287919	1/2 core	119.40	120.30	0.90	2	.01	11	.04	44	<10	39	<2	18	<5	.01	<5	42	274	5
287920	1/2 core	120.30	121.60	1.30	2	.03	10	.04	95	<10	33	<2	15	<5	.01	<5	49	280	2
287921	1/2 core	121.60	122.55	0.95	2	.02	9	.04	20	.01	53	<2	13	<5	.01	<5	37	263	7
287922	1/2 core	122.55	123.00	0.45	5	.03	12	.04	62	.01	167	<2	15	<5	.01	<5	47	270	1
287923	standard 1: CDN-CGS-16				13	.13	24	.12	22	1.23	8	<2	136	10	.03	<5	119	121	130
287924	blank 1				2	.05	4	.06	4	.01	<2	<2	35	<5	.01	<5	33	42	5
287925	1/2 core	123.00	123.90	0.90	3	.03	10	.04	20	.10	45	<2	11	<5	.01	<5	29	237	3
287926	1/2 core	123.90	125.05	1.15	8	.01	9	.04	11	.22	33	<2	18	<5	.01	<5	32	189	1
287927	1/2 core	125.05	126.10	1.05	7	.03	11	.04	8	.17	33	<2	15	<5	.01	<5	24	198	1
287928	1/2 core	126.10	127.18	1.08	5	.02	17	.07	11	.13	47	<2	16	<5	.01	<5	35	225	8
287929	1/2 core	127.18	127.68	0.50	6	.03	11	.04	11	.15	6	<2	8	<5	.01	<5	24	144	2
287930	1/2 core	127.68	128.50	0.82	4	.01	14	.05	15	.18	18	<2	13	<5	.01	<5	29	259	3
287931	1/2 core	128.50	129.90	1.40	7	.03	11	.04	32	.25	5	<2	7	<5	.01	<5	23	203	15
287932	1/2 core	129.90	130.80	0.90	7	.03	9	.04	28	.34	7	<2	10	<5	.01	<5	27	209	1
287933	1/2 core	130.80	131.51	0.71	4	.02	15	.06	73	.21	24	<2	13	<5	.01	<5	29	420	4
287934	1/2 core	131.51	132.30	0.79	4	.03	16	.06	45	.30	114	<2	13	<5	.01	<5	36	510	22
287935	1/2 core	132.30	133.53	1.23	4	.01	15	.07	13	.07	19	<2	12	<5	.01	<5	43	357	1
287936	1/2 core	133.53	133.76	0.23	7	.03	3	.03	88	.17	145	<2	116	<5	.01	<5	14	331	3
287937	1/2 core	133.76	135.15	1.39	11	.02	10	.04	71	.39	138	<2	25	<5	.01	<5	24	563	1

Sample No.		From metres	To metres	Interval metres	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	Au* ppb
287938	1/2 core	135.15	136.15	1.00	7	.03	7	.04	51	.25	106	<2	17	<5	.01	<5	20	314	1
287939	1/2 core	136.15	137.20	1.05	3	.01	10	.05	15	.11	62	<2	15	<5	.01	<5	24	313	1
287940	standard 2: CDN-CGS-18				37	.09	116	.05	112	.71	5	<2	32	6	.08	<5	53	338	285
287941	blank 1				4	.07	5	.06	4	.01	2	<2	21	<5	.01	<5	36	34	1
287942	1/2 core	137.20	138.25	1.05	6	.03	9	.04	15	.15	128	<2	17	<5	.01	<5	21	285	1
287943	1/2 core	138.25	139.10	0.85	6	.01	11	.04	8	.13	55	<2	15	<5	.01	<5	29	339	1
287944	1/2 core	139.10	140.12	1.02	4	.03	9	.04	7	.09	54	<2	13	<5	.01	<5	26	253	1
287945	1/2 core	140.12	141.00	0.88	9	.02	8	.04	21	.38	58	<2	20	<5	.01	<5	21	213	2
287946	1/2 core	141.00	141.93	0.93	3	.03	9	.04	8	.08	12	<2	23	<5	.01	<5	23	176	1
287947	1/2 core	141.93	142.88	0.95	6	.01	11	.04	69	.42	240	<2	18	<5	.01	<5	20	310	1
287948	1/2 core	142.88	144.05	1.17	11	.03	7	.04	127	.24	148	<2	19	<5	.01	<5	17	207	1
287949	1/2 core	144.05	144.61	0.56	4	.02	9	.04	17	.33	132	<2	22	<5	.01	<5	23	278	1
287950	1/2 core	144.61	145.37	0.76	12	.03	8	.04	178	.28	201	<2	20	<5	.01	<5	21	244	4
286701	1/2 core	145.37	145.92	0.55	8	.03	6	.05	136	.31	206	<2	30	<5	.01	5	21	308	7
286702	1/2 core	145.92	146.80	0.88	6	.04	7	.05	36	.12	89	<2	40	<5	.01	<5	17	231	1
286703	1/2 core	146.80	147.20	0.40	5	.02	12	.05	19	.05	33	<2	35	14	.01	<5	25	328	1
286704	1/2 core	147.20	147.65	0.45	7	.04	5	.04	197	.09	68	<2	25	<5	.01	<5	19	119	1
286705	1/2 core	147.65	148.57	0.92	6	.03	9	.04	141	.22	111	<2	39	<5	.01	<5	23	273	1
286706	1/2 core	148.57	149.70	1.13	14	.04	6	.04	85	.40	127	<2	30	<5	.01	<5	15	151	4
286707	standard 1: CDN-CGS-16				13	.12	24	.13	27	1.23	<2	<2	135	10	.03	<5	116	115	130
286708	blank 1				5	.05	5	.06	186	.01	<2	<2	43	<5	.01	20	36	10	2
286709	1/2 core	149.70	150.45	0.75	7	.04	12	.06	78	.20	<2	<2	33	<5	.01	<5	29	160	2
286710	1/2 core	150.45	151.81	1.36	16	.03	9	.04	83	1.23	<2	<2	17	<5	.01	<5	20	113	5
286711	1/2 core	151.81	152.38	0.57	10	.02	10	.04	120	.34	<2	<2	36	<5	.01	<5	29	144	3
286712	1/2 core	152.38	153.13	0.75	9	.04	7	.04	23	.48	<2	<2	17	<5	.01	<5	15	73	2
286713	1/2 core	153.13	153.66	0.53	6	.03	4	.05	22	.29	7	<2	57	<5	.01	<5	14	38	2
286714	1/2 core	153.66	154.96	1.30	3	.02	5	.05	26	.03	<2	<2	70	<5	.01	<5	15	31	2
286715	1/2 core	154.96	155.70	0.74	4	.03	8	.05	6	.04	4	<2	68	<5	.01	<5	14	48	10
286716	1/2 core	155.70	156.80	1.10	3	.04	7	.05	52	.03	<2	<2	73	<5	.01	<5	20	73	11
286717	1/2 core	156.80	158.08	1.28	4	.02	9	.05	33	.02	<2	<2	51	<5	.01	<5	32	57	4
286718	1/2 core	158.08	159.00	0.92	2	.04	8	.05	56	.03	<2	<2	46	<5	.01	<5	29	60	4
286719	1/2 core	159.00	159.85	0.85	7	.03	4	.05	84	.15	<2	<2	44	<5	.01	8	15	25	1
286720	1/2 core	159.85	160.60	0.75	1	.04	17	.08	47	.06	<2	<2	59	<5	.01	<5	54	188	4
286721	1/2 core	160.60	161.50	0.90	2	.03	8	.05	6	.04	<2	<2	57	<5	.01	<5	30	64	3
286722	1/2 core	161.50	162.65	1.15	1	.04	10	.05	11	.12	3	<2	44	<5	.01	<5	20	115	20
286723	1/2 core	162.65	163.35	0.70	2	.02	9	.06	100	.02	<2	<2	65	<5	.01	8	34	88	4
286724	standard 1: CDN-CGS-16				17	.13	25	.14	25	1.33	6	<2	132	10	.03	<5	117	115	120
286725	blank 1				5	.06	4	.07	121	.01	<2	<2	44	<5	.01	<5	45	21	1
286726	1/2 core	163.35	164.06	0.71	1	.04	11	.05	56	.16	<2	<2	34	<5	.01	<5	29	116	2
286727	1/2 core	164.06	165.06	1.00	5	.02	9	.05	54	.03	<2	<2	46	<5	.01	<5	30	63	5
286728	1/2 core	165.06	166.03	0.97	4	.03	7	.05	6	.11	24	<2	62	<5	.01	<5	17	104	3
286729	1/2 core	166.03	166.59	0.56	6	.04	8	.05	121	.50	139	<2	66	<5	.01	<5	23	202	18
286730	1/2 core	166.59	167.77	1.18	2	.02	7	.05	102	.07	<2	<2	64	<5	.01	<5	18	70	3
286731	1/2 core	167.77	168.65	0.88	19	.03	15	.05	64	.02	<2	<2	48	<5	.01	43	50	42	16
286732	1/2 core	168.65	169.60	0.95	7	.04	11	.04	89	.14	<2	<2	77	<5	.01	6	30	315	3
286733	1/2 core	169.60	170.40	0.80	6	.03	8	.05	146	.12	<2	<2	55	<5	.01	<5	23	227	9
286734	1/2 core	170.40	171.42	1.02	13	.02	9	.04	263	.42	8	<2	30	<5	.01	<5	26	165	21

Sample No.		From metres	To metres	Interval metres	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	Au* ppb
286735	1/2 core	171.42	172.12	0.70	6	.04	6	.04	40	.19	18	<2	75	<5	.01	<5	15	288	2
286736	1/2 core	172.12	173.06	0.94	11	.02	9	.05	144	.33	<2	<2	23	<5	.01	<5	25	232	1
286737	1/2 core	173.06	174.10	1.04	12	.04	8	.05	23	.44	<2	<2	16	<5	.01	<5	17	186	3
286738	1/2 core	174.10	174.98	0.88	7	.03	10	.05	16	.20	<2	<2	22	<5	.01	<5	19	203	2
286739	1/2 core	174.98	175.70	0.72	10	.02	8	.05	32	.40	<2	<2	20	<5	.01	<5	17	216	4
286740	1/2 core	175.70	176.32	0.62	13	.04	7	.04	115	.54	6	<2	21	<5	.01	<5	24	344	2
286741	standard 2: CDN-CGS-18				42	.09	115	.07	106	.81	3	<2	31	9	.07	<5	53	350	290
286742	blank 1				2	.06	4	.08	2	.01	3	<2	40	<5	.01	<5	30	21	9
286743	1/2 core	176.32	177.25	0.93	7	.04	7	.05	33	.13	3	<2	22	<5	.01	<5	31	269	2
286744	1/2 core	177.25	178.40	1.15	5	.04	14	.05	19	.17	17	<2	22	<5	.01	<5	29	366	2
286745	1/2 core	178.40	179.36	0.96	4	.02	16	.05	20	.11	8	<2	21	<5	.01	<5	31	265	1
286746	1/2 core	179.36	180.36	1.00	6	.04	11	.05	34	.11	<2	<2	18	<5	.01	<5	30	325	1
286747	1/2 core	180.36	181.60	1.24	4	.02	10	.05	30	.09	<2	<2	19	<5	.01	<5	30	303	17
286748	1/2 core	181.60	182.40	0.80	7	.04	8	.05	21	.10	<2	<2	24	<5	.01	<5	26	182	1
286749	1/2 core	182.40	183.20	0.80	4	.03	9	.05	41	.14	<2	<2	32	<5	.01	<5	33	193	5
286750	1/2 core	183.20	183.87	0.67	7	.04	8	.04	32	.30	<2	<2	22	<5	.01	<5	28	228	1
286751	1/2 core	183.87	184.42	0.55	4	.02	10	.05	43	.10	3	<2	20	<5	.01	<5	26	235	1
286752	1/2 core	184.42	184.92	0.50	8	.04	9	.05	42	.24	6	<2	18	<5	.01	<5	28	237	1
286753	1/2 core	184.92	185.44	0.52	5	.03	8	.05	34	.21	6	<2	17	<5	.01	<5	26	281	8
286754	1/2 core	185.44	186.05	0.61	12	.03	8	.03	27	1.46	70	<2	18	<5	.01	<5	19	265	13
286755	1/2 core	186.05	186.95	0.90	8	.02	9	.04	25	.26	5	<2	21	<5	.01	<5	30	263	1
286756	1/2 core	186.95	187.75	0.80	12	.04	13	.04	62	.10	6	<2	24	<5	.01	14	32	237	1
286757	1/2 core	187.75	188.48	0.73	4	.02	8	.04	22	.06	2	<2	18	<5	.01	<5	25	221	2
286758	standard 2: CDN-CGS-18				41	.09	116	.07	108	.82	4	<2	37	8	.07	<5	50	352	290
286759	blank 1				2	.06	3	.07	4	.01	<2	<2	40	<5	.01	<5	31	3	4
286760	1/2 core	188.48	189.48	1.00	6	.02	7	.04	29	.12	3	<2	25	<5	.01	<5	24	270	6
286761	1/2 core	189.48	190.10	0.62	4	.07	6	.09	2	.01	8	<2	42	<5	.01	<5	37	24	1
286762	1/2 core	190.10	191.20	1.10	7	.03	9	.05	46	.25	5	<2	20	<5	.01	<5	24	241	1
286763	1/2 core	191.20	192.55	1.35	6	.02	8	.04	41	.09	<2	<2	24	<5	.01	<5	29	226	2
286764	1/2 core	192.55	193.80	1.25	2	.03	9	.04	50	.10	<2	<2	29	<5	.01	<5	24	232	5
286765	1/2 core	193.80	194.47	0.67	4	.02	8	.04	87	.34	3	<2	16	<5	.01	<5	22	203	20
286766	1/2 core	194.47	195.05	0.58	2	.03	7	.04	114	.17	3	<2	20	<5	.01	<5	21	250	1
286767	1/2 core	195.05	195.57	0.52	5	.02	9	.05	34	.10	2	<2	32	<5	.01	6	24	262	1
286768	1/2 core	195.57	196.50	0.93	31	.01	7	.04	106	.76	20	<2	16	<5	.01	<5	14	178	9
286769	1/2 core	196.50	197.50	1.00	36	.03	11	.05	22	.22	22	<2	25	<5	.01	<5	25	228	16
286770	1/2 core	197.50	198.12	0.62	19	.02	10	.05	17	.58	3	<2	22	<5	.01	<5	30	176	1
286771	1/2 core	198.12	198.67	0.55	6	.03	9	.05	12	.26	<2	<2	57	<5	.01	<5	34	140	3
286772	1/2 core	198.67	199.21	0.54	8	.02	10	.05	11	.34	<2	<2	22	<5	.01	<5	35	153	1
286773	1/2 core	199.21	200.19	0.98	11	.03	10	.05	12	.27	<2	<2	20	<5	.01	<5	30	109	1
286774	1/2 core	200.19	200.78	0.59	17	.04	8	.04	24	.98	<2	<2	9	<5	.01	<5	17	81	3
286775	standard 2: CDN-CGS-18				37	.09	112	.07	107	.79	3	<2	34	10	.07	<5	52	356	310
286776	blank 1				2	.06	3	.07	2	.01	<2	<2	42	<5	.01	<5	25	15	3
286777	1/2 core	200.78	201.58	0.80	23	.04	11	.05	23	1.36	4	<2	13	<5	.01	<5	22	93	2
286778	1/2 core	201.58	202.34	0.76	4	.02	8	.05	22	.60	<2	<2	15	<5	.01	<5	28	91	2
286779	1/2 core	202.34	203.20	0.86	7	.04	9	.05	18	.58	<2	<2	13	<5	.01	<5	26	90	3
286780	1/2 core	203.20	204.00	0.80	4	.03	10	.05	21	.38	3	<2	16	<5	.01	<5	28	122	14
286781	1/2 core	204.00	204.95	0.95	19	.04	9	.05	23	.23	2	<2	33	<5	.01	<5	26	100	6

Sample		From	To	Interval	Mo	Na	Ni	P	Pb	S	Sb	Sn	Sr	Te	Ti	Tl	V	Zn	Au*
No.		metres	metres	metres	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
286782	1/2 core	204.95	205.77	0.82	28	.04	10	.05	19	.35	<2	<2	30	<5	.01	<5	22	101	3
286783	1/2 core	205.77	206.27	0.50	2	.03	9	.05	5	.10	<2	<2	75	<5	.01	<5	34	218	2
286784	1/2 core	206.27	207.32	1.05	3	.02	8	.05	9	.28	<2	<2	32	<5	.01	<5	24	75	2
286785	1/2 core	207.32	207.92	0.60	2	.03	6	.04	38	.70	<2	<2	37	<5	.01	<5	20	66	6
286786	1/2 core	207.92	208.52	0.60	10	.04	8	.05	32	1.15	<2	<2	19	<5	.01	<5	16	39	4
286787	1/2 core	208.52	209.35	0.83	2	.03	10	.05	15	.24	<2	<2	47	<5	.01	<5	28	134	4
286788	1/2 core	209.35	209.51	0.16	47	.02	11	.04	568	4.92	<2	<2	24	<5	.01	<5	17	69	9
286789	1/2 core	209.51	210.55	1.04	22	.03	8	.04	26	.72	3	<2	50	<5	.01	<5	18	98	6
286790	1/2 core	210.55	211.38	0.83	16	.03	9	.05	10	1.01	4	<2	38	<5	.01	<5	17	127	5
286791	1/2 core	211.38	212.15	0.77	14	.02	12	.05	9	.81	5	<2	30	<5	.01	<5	27	175	5
286792	standard 1: CDN-CGS-16				16	.10	24	.14	19	1.31	6	<2	130	9	.02	<5	120	115	135
286793	blank 1				1	.06	4	.07	3	.01	<2	<2	50	<5	.01	<5	31	13	1
286794	1/2 core	212.15	212.80	0.65	5	.04	10	.04	17	.43	3	<2	34	<5	.01	<5	22	192	2
286795	1/2 core	212.80	213.20	0.40	7	.03	8	.04	11	.28	<2	<2	28	<5	.01	<5	15	116	1
286796	1/2 core	213.20	214.00	0.80	4	.04	6	.04	8	.28	37	<2	23	<5	.01	<5	9	70	1
286797	1/2 core	214.00	214.65	0.65	6	.02	7	.04	11	.44	9	<2	24	<5	.01	<5	11	36	1
286798	1/2 core	214.65	215.35	0.70	11	.04	10	.06	32	.32	3	<2	17	<5	.01	<5	25	83	5
286799	1/2 core	215.35	216.00	0.65	4	.03	9	.04	2	.29	<2	<2	24	<5	.01	<5	24	116	1
286800	1/2 core	216.00	216.74	0.74	5	.02	10	.04	5	.18	<2	<2	23	<5	.01	<5	28	122	1
286801	1/2 core	216.74	217.36	0.62	4	.03	12	.04	9	.58	3	<2	28	<5	.01	<5	27	113	10
286802	1/2 core	217.36	218.05	0.69	6	.02	11	.04	83	3.71	3	<2	15	<5	.01	<5	19	60	8
286803	1/2 core	218.05	218.88	0.83	54	.04	10	.05	15	.51	30	<2	23	<5	.01	<5	22	148	5
286804	1/2 core	218.88	219.76	0.88	5	.03	12	.05	7	.13	7	<2	22	<5	.01	<5	24	164	1
286805	1/2 core	219.76	220.57	0.81	17	.04	11	.05	8	.69	23	<2	21	<5	.01	<5	22	109	4
286806	1/2 core	220.57	221.49	0.92	5	.02	15	.06	10	.37	15	<2	24	<5	.01	<5	33	206	1
286807	1/2 core	221.49	221.92	0.43	5	.04	14	.06	9	.15	9	<2	40	<5	.01	<5	23	84	3
286808	1/2 core	221.92	223.00	1.08	5	.02	4	.05	7	.20	14	<2	50	<5	.01	<5	14	6	3
286809	standard 2: CDN-CGS-18				41	.10	124	.07	106	.78	3	<2	32	8	.09	<5	51	378	280
286810	blank 1				6	.07	6	.07	41	.01	9	<2	26	<5	.01	<5	34	1	4
286811	1/2 core	223.00	223.50	0.50	5	.04	4	.05	32	.14	32	<2	51	<5	.01	<5	13	6	1
286812	1/2 core	223.50	224.33	0.83	5	.03	7	.05	96	.25	20	<2	47	<5	.01	7	16	1	1
286813	1/2 core	224.33	225.10	0.77	6	.04	10	.05	117	.24	8	<2	52	<5	.01	12	21	8	3
286814	1/2 core	225.10	226.15	1.05	4	.02	6	.05	5	.13	10	<2	50	<5	.01	<5	12	43	3
286815	1/2 core	226.15	227.15	1.00	10	.04	12	.05	10	.35	<2	<2	19	<5	.01	<5	30	70	2
286816	1/2 core	227.15	228.00	0.85	4	.03	9	.05	13	.12	2	<2	32	<5	.01	<5	15	69	1
286817	1/2 core	228.00	229.00	1.00	2	.04	8	.05	24	.12	<2	<2	35	<5	.01	<5	16	48	2
286818	1/2 core	229.00	229.85	0.85	5	.04	10	.05	25	.12	4	<2	36	<5	.01	<5	18	62	1
286819	1/2 core	229.85	230.70	0.85	7	.02	12	.04	24	1.75	10	<2	14	<5	.01	<5	19	88	10
286820	1/2 core	230.70	231.24	0.54	2	.04	8	.04	4	.10	3	<2	39	<5	.01	<5	15	49	1
286821	1/2 core	231.24	232.30	1.06	6	.02	9	.04	11	.11	6	<2	38	<5	.01	<5	16	52	6
286822	1/2 core	232.30	233.40	1.10	4	.01	7	.04	4	.18	16	<2	25	<5	.01	<5	14	67	2
286823	1/2 core	233.40	234.08	0.68	5	.04	6	.04	5	.12	10	<2	31	<5	.01	<5	15	57	1
286824	1/2 core	234.08	235.05	0.97	6	.03	8	.04	4	.36	42	<2	21	<5	.01	<5	14	83	2
286825	1/2 core	235.05	235.78	0.73	6	.04	10	.04	11	.40	38	<2	32	<5	.01	<5	20	139	1
286826	standard 1: CDN-CGS-16				14	.14	25	.15	18	1.33	6	<2	134	10	.03	<5	117	120	130
286827	blank 1				4	.06	4	.07	2	.01	<2	<2	50	<5	.01	<5	27	17	1
286828	1/2 core	235.78	236.76	0.98	6	.03	9	.05	4	.36	43	<2	18	<5	.01	<5	18	74	2

Sample		From	To	Interval	Mo	Na	Ni	P	Pb	S	Sb	Sn	Sr	Te	Ti	Tl	V	Zn	Au*
No.		metres	metres	metres	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
286829	1/2 core	236.76	237.76	1.00	2	.04	9	.05	9	.24	<2	<2	37	<5	.01	<5	27	92	3
286830	1/2 core	237.76	238.50	0.74	4	.02	11	.05	10	.28	34	<2	57	<5	.01	<5	22	182	1
286831	1/2 core	238.50	240.00	1.50	2	.04	14	.05	9	.14	10	<2	43	<5	.01	<5	23	158	1
286832	1/2 core	240.00	240.63	0.63	5	.01	8	.04	4	.22	2	<2	39	<5	.01	<5	15	48	1
286833	1/2 core	240.63	241.37	0.74	5	.04	11	.04	6	.24	<2	<2	22	<5	.01	<5	23	52	1
286834	1/2 core	241.37	241.97	0.60	7	.03	6	.04	5	.47	94	<2	51	<5	.01	<5	13	101	2
286835	1/2 core	241.97	242.93	0.96	2	.04	5	.05	4	.04	13	<2	73	<5	.01	<5	15	43	1
286836	1/2 core	242.93	243.80	0.87	5	.01	6	.05	3	.08	7	<2	61	<5	.01	<5	10	24	1
286837	1/2 core	243.80	244.63	0.83	3	.04	8	.04	10	.02	5	<2	65	<5	.01	<5	19	56	2
286838	1/2 core	244.63	244.78	0.15	2	.03	7	.02	8	.07	4	<2	180	<5	.01	<5	17	63	73
286839	1/2 core	244.78	246.00	1.22	3	.04	10	.04	174	.03	6	<2	66	<5	.01	<5	22	84	4
286840	1/2 core	246.00	246.85	0.85	3	.04	4	.04	11	.04	14	<2	72	11	.01	<5	13	52	3
286841	1/2 core	246.85	247.42	0.57	5	.02	7	.05	5	.06	8	<2	71	<5	.01	<5	18	82	3
286842	1/2 core	247.42	248.20	0.78	6	.04	12	.04	8	.16	9	<2	74	<5	.01	<5	19	92	53
286843	standard 1: CDN-CGS-16				13	.14	24	.12	21	1.18	6	<2	131	11	.03	<5	118	121	120
286844	blank 1				2	.06	4	.06	30	.01	<2	<2	32	<5	.01	7	33	36	1
286845	1/2 core	248.20	249.00	0.80	4	.03	3	.03	11	.06	19	<2	84	<5	.01	<5	16	78	3
286846	1/2 core	249.00	249.28	0.28	9	.02	7	.04	32	.17	131	<2	32	<5	.01	10	15	117	11
286847	1/2 core	249.28	250.14	0.86	7	.03	8	.05	58	.21	8	<2	64	<5	.01	12	21	63	12
286848	1/2 core	250.14	250.80	0.66	3	.02	6	.05	50	.17	<2	<2	45	<5	.01	<5	15	37	1
286849	1/2 core	250.80	251.52	0.72	7	.01	9	.04	13	.15	<2	<2	130	<5	.01	<5	16	74	1
286850	1/2 core	251.52	252.17	0.65	7	.03	8	.05	55	.23	3	<2	36	<5	.01	13	28	85	1
286851	1/2 core	252.17	253.08	0.91	13	.03	11	.05	12	.38	63	<2	37	<5	.01	<5	21	138	3
286852	1/2 core	253.08	254.08	1.00	15	.02	13	.04	34	.94	60	<2	29	<5	.01	<5	29	162	2
286853	1/2 core	254.08	255.03	0.95	16	.03	10	.04	5	.70	24	<2	36	<5	.01	<5	27	109	3
286854	1/2 core	255.03	255.91	0.88	12	.01	11	.04	11	.67	5	<2	23	<5	.01	<5	30	98	5
286855	1/2 core	255.91	256.91	1.00	8	.03	10	.04	19	.45	7	<2	37	<5	.01	<5	29	85	1
286856	1/2 core	256.91	257.74	0.83	11	.02	12	.04	15	.63	6	<2	26	<5	.01	<5	38	88	3
286857	1/2 core	257.74	258.40	0.66	6	.03	11	.04	21	.85	<2	<2	35	<5	.01	<5	41	94	1
286858	1/2 core	258.40	259.00	0.60	9	.01	13	.04	47	.46	12	<2	14	<5	.01	<5	36	93	2
286859	1/2 core	259.00	259.95	0.95	4	.03	6	.02	2	.15	3	<2	40	<5	.01	<5	20	158	1
286860	standard 2: CDN-CGS-18				35	.10	127	.06	107	.79	7	<2	34	<5	.10	<5	53	326	310
286861	blank 1				8	.02	8	.03	41	.50	2	<2	32	<5	.01	<5	19	171	3
286862	1/2 core	259.95	260.60	0.65	4	.04	9	.05	10	.37	26	<2	27	10	.01	<5	23	85	1
286863	1/2 core	260.60	261.20	0.60	4	.03	15	.07	13	.17	10	<2	45	<5	.01	<5	38	167	1
286864	1/2 core	261.20	261.85	0.65	2	.02	13	.07	11	.10	6	<2	58	<5	.01	<5	26	141	2
286865	1/2 core	261.85	262.60	0.75	9	.03	12	.05	45	.49	24	<2	34	<5	.01	<5	25	124	1
286866	1/2 core	262.60	263.25	0.65	13	.01	8	.04	19	.43	62	<2	29	<5	.01	<5	20	113	6
286867	1/2 core	263.25	263.96	0.71	11	.03	10	.04	5	2.44	236	<2	25	<5	.01	<5	19	202	11
286868	1/2 core	263.96	264.58	0.62	7	.02	8	.05	7	.43	63	<2	36	<5	.01	<5	15	92	2
286869	1/2 core	264.58	265.50	0.92	5	.03	13	.07	16	.14	36	<2	57	<5	.01	<5	24	141	1
286870	1/2 core	265.50	266.05	0.55	5	.01	13	.04	57	.44	<2	<2	36	<5	.01	<5	32	119	5
286871	1/2 core	266.05	266.63	0.58	4	.03	12	.05	8	.33	37	<2	50	<5	.01	<5	22	103	3
286872	1/2 core	266.63	267.12	0.49	2	.02	7	.06	14	.21	12	<2	56	<5	.01	<5	20	62	3
286873	1/2 core	267.12	268.08	0.96	2	.03	9	.06	10	.08	7	<2	72	<5	.01	<5	22	82	5
286874	1/2 core	268.08	269.08	1.00	5	.01	11	.06	11	.08	9	<2	81	<5	.01	<5	27	105	2
286875	1/2 core	269.08	270.10	1.02	9	.03	14	.06	8	.33	19	<2	49	<5	.01	<5	26	97	1

Sample		From	To	Interval	Mo	Na	Ni	P	Pb	S	Sb	Sn	Sr	Te	Ti	Tl	V	Zn	Au*
No.		metres	metres	metres	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
286876	1/2 core	270.10	270.70	0.60	7	.02	10	.07	10	.14	12	<2	61	<5	.01	<5	28	98	2
286877	standard 1: CDN-CGS-16				15	.13	25	.11	28	1.14	3	<2	134	10	.03	<5	120	115	125
286878	blank 1				4	.07	5	.06	32	.01	3	<2	42	<5	.01	<5	35	51	3
286879	1/2 core	270.70	271.36	0.66	4	.03	8	.03	22	.16	<2	<2	195	<5	.01	<5	24	89	8
286880	1/2 core	271.36	272.12	0.76	3	.03	10	.04	48	.13	<2	<2	28	<5	.01	<5	25	105	3
286881	1/2 core	272.12	272.78	0.66	12	.01	9	.04	10	.12	5	<2	17	<5	.01	<5	29	92	3
286882	1/2 core	272.78	273.70	0.92	4	.03	8	.04	9	.09	4	<2	18	<5	.01	<5	27	81	1
286883	1/2 core	273.70	274.55	0.85	8	.02	11	.04	22	.25	<2	<2	23	<5	.01	<5	29	77	1
286884	1/2 core	274.55	275.00	0.45	12	.03	9	.03	17	.63	21	<2	17	<5	.01	<5	27	72	1
286885	1/2 core	275.00	275.30	0.30	10	.01	6	.02	14	2.11	20	<2	25	<5	.01	<5	15	27	9
286886	1/2 core	275.30	276.23	0.93	13	.03	9	.04	13	.28	31	<2	19	<5	.01	<5	24	87	6
286887	1/2 core	276.23	277.05	0.82	16	.03	10	.04	28	.22	9	<2	15	<5	.01	<5	29	91	1
286888	1/2 core	277.05	278.20	1.15	8	.02	11	.04	30	.17	8	<2	20	<5	.01	<5	36	102	1
286889	1/2 core	278.20	278.95	0.75	5	.03	10	.04	35	.13	<2	<2	19	<5	.01	<5	35	100	1
286890	1/2 core	278.95	279.48	0.53	4	.01	12	.06	33	.04	<2	<2	37	<5	.01	<5	38	79	1
286891	1/2 core	279.48	280.14	0.66	26	.03	13	.05	10	.14	5	<2	25	<5	.01	<5	34	73	5
286892	1/2 core	280.14	280.74	0.60	4	.02	11	.05	22	.10	<2	<2	29	<5	.01	<5	35	69	3
286893	1/2 core	280.74	281.80	1.06	220	.01	16	.04	40	.13	9	<2	28	<5	.01	<5	57	112	14
286894	standard 2: CDN-CGS-18				36	.09	119	.06	99	.71	5	<2	36	9	.10	<5	56	342	290
286895	blank 1				3	.07	5	.06	7	.05	3	<2	41	<5	.01	<5	34	46	1
286896	1/2 core	281.80	282.56	0.76	20	.03	11	.05	40	.01	<2	<2	30	<5	.01	<5	35	68	3
286897	1/2 core	282.56	283.50	0.94	13	.03	10	.05	61	.05	<2	<2	26	<5	.01	<5	37	82	3
286898	1/2 core	283.50	284.22	0.72	22	.02	9	.04	47	.17	<2	<2	27	<5	.01	<5	30	58	7
286899	1/2 core	284.22	284.72	0.50	10	.03	10	.04	44	.07	<2	<2	19	<5	.01	<5	33	61	10
286900	1/2 core	284.72	285.15	0.43	90	.02	9	.02	35	.09	7	<2	18	<5	.01	<5	22	51	16

APPENDIX IV – STATEMENT OF EXPENDITURES

LOGAN COPPER INC

Exploration Work type	Dates	Comment

Personnel Name (Position)	From	To	Field Days	Units		Rate	Subtotal
Dr. Jon Pan (Geologist)	13-Oct-09	14-Dec-09		58	Days	$ 500.00	$ 29,000.00
Peter Palikot (General Manager)	15-Oct-09	28-Jan-10		33	Days	$ 400.00	$ 13,200.00
Andrew McClosky (Core Cutter)	8-Dec-09	14-Dec-09		7	Days	$ 300.00	$ 2,100.00
							$ 44,300.00

Office Studies	From	To	Office Days	Units		Rate	Subtotal
Consultation							
Peter Palikot	26-Oct-09	15-Apr-10		40.0	Days	$ 300.00	$ 12,000.00
General research							
Dr. Jon Pan (Geologist)	1-Mar-10	15-Apr-10		30.0	Days	$ 400.00	$ 12,000.00
Report preparation & Database compilation							
Dr. Jon Pan (Geologist)	23-Dec-10	31-Dec-10		1		ARIS Report	$ 1,000.00
							$ 25,000.00

Geochemical Analysis	Procedure	No.		Rate	Subtotal
Pioneer Laboratories	Cu Assay	9	Samples	$ 8.50	$ 76.50
	Au Analysis 20 gm	535	Samples	$ 8.25	$ 4,413.75
	ICP Analysis	535	Samples	$ 8.50	$ 4,547.50
	Core Sample Preparation	535	Samples	$ 6.75	$ 3,611.25
	Assay Tag Books	12	Units	$ 7.00	$ 84.00
	Ties	1000	Units	$ 0.04	$ 35.00
	6ml 12" X 20" sample bags	1000	Units	$ 0.23	$ 230.00
					$ 12,998.00

Drilling	Description	No.		Rate	Subtotal
Diamond Drilling	Super 38 longyear, Two holes, NQ Core	1222.0	Feet	$ 60.00	$ 73,320.00
Bulldozer	D4 Caterpillar and operator *(for mobilization of drill rig and recolomation)*	18.0	Hours	$ 150.00	$ 2,700.00

							$ 76,020.00
Transportation	**From**	**To**	**No.**		**Rate**	**Subtotal**	
Truck Rental							
Ford F-150 Crew	16-Oct-09	31-Dec-09	2.50	Months	$ 3,000.00	**$**	**7,500.00**
Ford F-150 Quad Cab	16-Oct-09	31-Dec-09	2.50	Months	$ 3,000.00	**$**	**7,500.00**
Ford F-150 Quad Cab	16-Oct-09	31-Dec-09	2.50	Months	$ 3,000.00	**$**	**7,500.00**
Ford F-150 Quad Cab	16-Oct-09	31-Dec-09	2.50	Months	$ 3,000.00	**$**	**7,500.00**
Fuel						**$**	**1,162.59**
						$	**31,162.59**
Accommodation & Food			**No.**		**Rate**	**Subtotal**	
Hotel	16-Oct-09	29-Jan-10				**$**	**8,466.50**
Meals	16-Oct-09	14-Dec-09	60.00	Days	$ 55.00	**$**	**3,300.00**
						$	**11,766.50**
Miscellaneous			**No.**		**Rate**	**Subtotal**	
Core Shack Rental	16-Oct-09	31-Dec-09	2.50		$ 300.00	**$**	**750.00**
Core Storage Rental	16-Oct-09	31-Dec-09	2.50		$ 100.00	**$**	**250.00**
						$	**1,000.00**
					TOTAL Expenditures		**$202,247.09**

APPENDIX V – ASSAY CERTIFICATES

PIONEER LABORATORIES INC.

#103-2691 VISCOUNT WAY RICHMOND, BC CANADA V6V 2R5

TELEPHONE (604) 231-8165

GEOCHEMICAL ANALYSIS CERTIFICATE

SNL ENTERPRISES LTD.
Project: Logan Copper
Sample Type: Cores

Multi-element ICP Analysis - 0.500 gram sample is digested with 3 ml of aqua regia, diluted to 10 ml with water. This leach is partial for B, Ba, Cr, Fe, Mg, Mn, Na, P, S, Sn, Ti and limited for Na, K and Al. *Au Analysis- 20 gram sample is digested with aqua regia, MIBK extracted, and is finished by AA or graphite furnace AA.

Analyst RSaini
Report No. 2092465
Date: October 27, 2009

ELEMENT / SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	*Au ppb
280917	.2	1.02	7	<5	34	<10	.14	2	10	44	2363	2.92	.23	.55	979	1	.02	8	.06	37	.05	9	<2	4	7	.01	<5	23	450	105
280918	2.0	1.21	48	<5	277	<10	.11	1	15	57	1434	4.23	.18	.58	1220	34	.02	5	.04	230	.43	18	<2	11	10	.01	<5	14	288	38
280919	.7	.31	19	<5	32	<10	.04	2	9	56	8370	3.41	.29	.02	219	9	.02	4	.06	130	.08	9	<2	2	8	.01	<5	4	768	25
280920	4.3	.27	62	<5	77	<10	.10	3	5	75	2704	1.19	.25	.02	250	1	.02	4	.05	64	.01	147	<2	4	<5	.01	<5	7	367	56
280921	12.5	1.02	12	<5	198	<10	.13	<1	7	67	1051	2.88	.21	.55	1166	3	.02	7	.06	17	.06	<2	<2	7	<5	.01	<5	22	201	7
280922	.1	.92	9	5	50	<10	.87	<1	8	84	430	2.15	.11	.69	352	1	.05	10	.07	7	.02	<2	<2	20	<5	.10	<5	65	47	3
287616	.1	.63	11	<5	246	<10	.13	4	16	44	541	3.65	.24	.24	1086	7	.02	5	.05	19	.26	<2	<2	6	6	.01	<5	11	497	10
287617	.4	.68	15	<5	122	<10	.10	15	14	54	970	3.45	.25	.27	1149	15	.02	5	.05	81	.12	<2	<2	4	7	.01	<5	9	2083	8
287618	1.9	.23	9	<5	581	<10	.07	134	10	96	1246	1.90	.22	.02	535	23	.02	4	.03	8365	.14	2	<2	9	12	.01	<5	3	>10,000	63
287619	.1	.37	15	<5	57	<10	.08	9	6	21	135	2.99	.09	.23	511	1	.01	4	.02	16	.02	<2	<2	2	6	.01	<5	3	790	4
287620	.9	.98	17	5	110	<10	.07	8	20	49	1244	4.98	.22	.37	879	28	.01	6	.04	29	.73	<2	<2	3	6	.01	<5	6	1229	70
287621	.1	.92	8	<5	151	<10	.10	6	13	47	659	3.03	.19	.44	843	5	.02	6	.06	28	.10	<2	<2	4	<5	.01	<5	22	809	205
287622	.4	1.09	10	<5	96	<10	.09	4	16	62	592	3.64	.19	.47	994	20	.02	6	.05	30	.25	<2	<2	4	<5	.01	<5	18	434	25
287623	.3	1.09	11	<5	136	<10	.08	2	17	61	629	3.65	.17	.48	1166	8	.02	5	.05	29	.22	<2	<2	4	<5	.01	<5	15	365	43
287624	1.3	1.12	35	<5	159	<10	.09	3	19	86	1368	4.37	.23	.45	935	18	.02	7	.05	42	.65	<2	<2	5	6	.01	<5	15	385	64
287625	.4	.84	38	<5	233	<10	.08	5	51	49	959	5.40	.21	.32	2078	11	.02	5	.06	34	.03	<2	<2	4	6	.01	<5	10	635	19
287626	.3	.67	14	<5	270	<10	.07	3	21	75	1758	3.16	.25	.24	936	13	.02	5	.06	56	.07	<2	<2	5	6	.01	<5	12	721	43
287627	2.8	.50	61	<5	63	<10	.04	1	5	71	3183	4.02	.18	.10	227	36	.02	3	.03	480	.22	88	<2	4	<5	.01	<5	2	303	61
287628	1.7	.22	121	<5	42	<10	.04	4	6	65	546	5.17	.20	.02	81	28	.01	4	.04	127	.09	31	<2	9	9	.01	<5	<1	717	48
287629	2.7	.39	38	<5	68	<10	.04	2	3	94	1228	3.28	.18	.05	91	24	.02	2	.03	92	.13	7	<2	7	7	.01	<5	3	299	53
287630	.7	.87	21	<5	102	<10	.02	5	18	53	3668	4.21	.23	.29	767	28	.02	5	.05	59	.52	4	<2	3	5	.01	<5	6	666	23
287631	.9	.55	23	<5	111	<10	.03	10	24	103	1791	3.94	.13	.18	1214	22	.02	6	.03	461	.34	13	<2	2	5	.01	<5	4	1647	24
287632	.8	.35	18	7	42	<10	.08	24	22	81	2239	5.51	.16	.17	1404	26	.01	5	.03	80	.42	<2	<2	3	10	.01	<5	<1	2639	11
287633	1.0	1.88	53	5	147	<10	4.52	2	21	36	1090	4.81	.33	1.87	802	12	.12	28	.22	18	1.55	<2	<2	131	12	.03	<5	120	115	130
287634	.1	2.46	17	<5	74	<10	1.80	<1	8	46	67	2.83	.09	.43	201	1	.28	5	.09	3	.01	<2	<2	125	<5	.08	<5	175	23	4
287635	1.6	.28	125	<5	549	<10	.06	59	26	108	2708	3.43	.22	.05	1345	15	.02	6	.04	73	.34	71	<2	11	12	.01	<5	3	7155	25
287636	.7	.31	33	<5	38	<10	.07	33	16	75	1356	3.53	.22	.07	1119	20	.02	6	.04	586	.24	18	<2	3	7	.01	<5	5	3397	10
287637	.6	.30	29	6	74	<10	.06	27	15	88	1606	3.48	.21	.06	1089	15	.02	4	.04	307	.34	9	<2	4	7	.01	<5	4	2738	21
287638	.8	.73	27	5	141	<10	.08	23	19	74	1574	4.69	.18	.41	1471	24	.01	5	.04	44	.53	10	<2	5	<5	.01	<5	7	1951	20
287639	1.8	.61	43	<5	91	<10	.07	50	28	63	2015	4.23	.19	.26	1247	28	.02	6	.04	89	.78	56	<2	3	11	.01	<5	5	5401	46
287640	.4	.32	42	<5	339	<10	.60	391	29	164	312	2.93	.09	.38	1640	23	.02	6	.01	3559	.48	<2	<2	9	22	.01	<5	<1	>10,000	48
287641	.3	1.30	41	<5	179	<10	.10	28	28	51	154	5.65	.18	.61	1817	11	.02	4	.05	48	.69	<2	<2	4	5	.01	<5	7	3447	65
287642	.1	1.05	5	<5	740	<10	.58	5	16	53	235	4.31	.22	.62	1614	5	.01	6	.06	22	.30	<2	<2	21	6	.01	<5	11	748	48
287643	.5	1.35	24	<5	231	<10	.34	2	17	60	443	4.78	.19	.71	1503	13	.01	7	.06	59	.47	<2	<2	9	7	.01	<5	11	394	23
287644	.1	.93	9	<5	129	<10	.55	1	14	64	310	2.89	.20	.52	1039	8	.02	6	.06	24	.34	<2	<2	9	<5	.01	<5	17	191	7

ELEMENT / SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	*Au ppb
287645	.3	1.00	18	<5	123	<10	.53	<1	10	51	298	2.95	.20	.57	1041	6	.02	7	.07	20	.19	<2	<2	10	<5	.01	<5	21	147	17
287646	.4	1.02	5	<5	181	<10	.49	<1	12	55	434	2.83	.19	.52	913	6	.02	7	.07	22	.34	<2	<2	11	<5	.01	<5	22	155	4
287647	1.6	.42	49	<5	336	<10	.36	17	15	64	2017	2.29	.19	.16	729	42	.02	6	.06	451	.40	7	<2	11	<5	.01	<5	10	2116	70
287648	1.8	1.02	102	<5	106	<10	.17	79	38	62	2548	4.68	.16	.55	1427	21	.01	5	.04	2990	1.48	4	<2	5	13	.01	<5	6	8096	75
287649	.1	.33	26	<5	271	<10	1.03	4	9	73	303	1.68	.23	.34	706	5	.02	4	.07	37	.10	<2	<2	28	<5	.01	<5	15	715	4
287650	1.1	1.91	52	<5	135	<10	3.87	2	21	34	1067	4.77	.30	1.76	747	13	.11	26	.22	15	1.48	3	<2	123	10	.03	<5	121	118	135
287651	.1	2.52	5	<5	101	<10	1.49	<1	8	41	58	2.37	.09	.40	176	1	.25	5	.09	3	.01	<2	<2	163	<5	.07	<5	156	25	4
287652	1.4	.33	11	<5	110	<10	.41	139	14	110	965	2.22	.26	.36	717	8	.02	7	.06	>10,000	1.25	<2	<2	15	15	.01	<5	10	>10,000	110
287653	.1	.41	18	<5	109	<10	.62	1	10	63	439	1.95	.19	.43	724	4	.02	6	.07	40	.18	6	<2	16	<5	.01	<5	14	194	34
287654	.5	.72	31	<5	31	<10	.55	42	11	60	204	1.94	.17	.48	798	10	.02	6	.06	1595	.42	13	<2	10	<5	.01	<5	11	4844	28
287655	1.2	.88	49	<5	137	<10	.32	4	22	65	830	2.57	.18	.46	974	33	.02	7	.05	250	.41	15	<2	8	<5	.01	<5	10	747	150
287656	.5	.52	25	<5	344	<10	.68	8	6	58	256	1.51	.17	.36	600	4	.02	5	.07	88	.09	20	<2	19	<5	.01	<5	17	948	5
287657	.1	.51	36	<5	125	<10	.99	16	7	52	321	1.60	.15	.39	716	4	.03	5	.06	310	.18	5	<2	22	<5	.01	<5	20	2059	18

PIONEER LABORATORIES INC.

#103-2691 VISCOUNT WAY RICHMOND, BC CANADA V6V 2R5

TELEPHONE (604) 231-8165

SNL ENTERPRISES LTD.

Project: Logan Copper
Sample Type: Cores

GEOCHEMICAL ANALYSIS CERTIFICAT

Multi-element ICP Analysis - 0.500 gram sample is digested with 3 ml of aqua regia, diluted to 10 ml with water. This leach is partial for B, Ba, Cr, Fe, Mg, Mn, Na, P, S, Sn, Ti and limited for Na, K and Al. *Au Analysis- 20 gram sample is digested with aqua regia, MIBK extracted, and is finished by AA or graphite furnace AA.

Analyst RSam
Report No. 2092479
Date: November 9, 2009

ELEMENT / SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	Au* ppb
287658	.1	.43	25	5	611	<10	.87	47	7	71	438	1.55	.19	.29	604	9	.02	5	.04	923	.24	11	<2	19	<5	.02	<5	20	4719	40
287659	.2	.63	19	<5	129	<10	.62	13	9	69	323	1.94	.23	.32	639	7	.03	4	.05	42	.18	9	<2	12	6	.01	<5	16	1880	5
287660	6.0	.61	117	<5	45	12	.10	213	121	213	10715	3.65	.10	.21	539	82	.02	6	.01	8623	3.25	32	<2	5	26	.01	<5	<1	>10000	445
287661	.1	.73	11	<5	86	<10	.99	3	9	86	240	2.01	.16	.46	780	7	.04	7	.05	27	.08	<2	<2	15	5	.02	<5	31	372	16
287662	.2	.92	12	<5	219	<10	.71	2	13	93	300	2.39	.22	.48	941	27	.03	6	.04	14	.28	3	<2	13	<5	.01	<5	22	131	8
287663	3.7	.72	10	<5	125	<10	1.12	1	7	87	473	1.99	.19	.45	784	7	.04	5	.05	11	.10	7	<2	17	5	.01	<5	32	108	4
287664	.1	.55	22	<5	104	<10	1.30	3	6	92	280	1.80	.20	.35	635	5	.03	6	.04	27	.08	6	<2	18	<5	.02	<5	31	297	14
287665	.1	.51	14	<5	179	<10	1.14	1	7	84	203	1.76	.19	.42	602	6	.04	7	.05	10	.10	7	<2	25	<5	.01	<5	27	98	3
287666	.4	.76	39	<5	110	<10	.51	2	36	99	480	4.19	.20	.51	1165	18	.02	4	.03	35	1.79	4	<2	13	10	.02	<5	5	166	38
287667	.1	.52	5	5	73	<10	2.17	3	6	78	297	1.58	.23	.24	793	6	.03	5	.06	8	.02	5	<2	24	<5	.01	<5	22	137	9
287668	1.3	1.92	52	6	151	<10	4.62	4	22	45	1040	5.39	.34	1.94	803	16	.13	28	.18	15	1.54	3	<2	136	12	.03	<5	145	114	140
287669	.1	2.88	8	<5	71	<10	1.83	1	6	61	47	2.22	.07	.42	165	1	.36	4	.08	3	.01	<2	<2	110	<5	.06	<5	155	21	3
287670	1.0	.73	28	<5	466	<10	.89	3	9	92	702	2.10	.22	.30	541	7	.03	7	.04	38	.28	33	<2	20	<5	.01	<5	11	318	46
287671	.1	.57	9	<5	976	<10	2.30	1	6	72	173	1.48	.21	.30	768	4	.02	6	.05	13	.05	5	<2	41	<5	.02	<5	26	144	6
287672	.8	1.17	14	5	92	12	.67	4	47	88	450	4.46	.20	.51	1127	22	.03	5	.04	273	2.04	<2	<2	11	9	.01	<5	16	346	26
287673	.1	.71	16	<5	217	<10	.81	2	7	91	166	1.93	.13	.58	558	5	.06	7	.06	7	.04	<2	<2	25	<5	.02	<5	52	145	10
287674	.1	.77	9	<5	163	<10	.88	1	6	94	150	2.05	.14	.57	690	6	.05	6	.05	27	.05	<2	<2	23	<5	.03	<5	50	124	2
287675	.2	.78	14	<5	134	<10	.99	2	7	98	122	1.96	.16	.51	770	5	.04	7	.06	24	.04	<2	<2	17	<5	.01	<5	41	167	12
287676	.5	1.19	16	<5	179	<10	.87	20	11	118	596	2.78	.23	.59	1235	13	.03	8	.05	1194	.45	<2	<2	14	9	.02	<5	25	1766	85
287677	1.0	1.14	26	<5	131	<10	.96	3	16	138	417	2.76	.25	.46	1077	14	.02	7	.04	29	.47	35	<2	10	6	.01	<5	16	295	52
287678	.5	.94	19	<5	123	<10	.94	4	19	97	278	2.05	.24	.47	814	9	.03	6	.05	62	.22	27	<2	14	<5	.02	<5	20	371	18
287679	.1	.74	17	<5	214	<10	1.44	2	7	83	163	1.80	.18	.49	666	6	.04	7	.06	9	.06	3	<2	22	<5	.01	<5	37	118	2
287680	.2	.14	6	<5	12	<10	.10	4	2	21	180	.31	.04	.06	92	2	.02	3	.01	6	.08	3	<2	2	<5	.01	<5	2	338	110
287681	.1	.82	12	<5	153	<10	1.33	2	6	84	252	1.82	.17	.58	806	5	.04	7	.06	12	.10	4	<2	22	<5	.02	<5	34	193	8
287682	1.2	1.04	52	<5	137	<10	.49	11	10	83	470	2.32	.22	.44	908	19	.02	8	.05	196	.38	91	<2	9	6	.01	<5	11	1127	10
287683	1.1	.75	28	<5	399	<10	.95	3	11	105	647	2.00	.26	.34	822	21	.01	4	.04	19	.37	44	<2	18	<5	.03	<5	9	307	12
287684	.6	.42	17	<5	647	<10	.66	4	10	57	183	2.61	.22	.21	602	20	.03	5	.06	201	.08	7	<2	17	5	.01	<5	11	418	15
287685	1.2	1.99	50	<5	147	<10	4.66	5	23	45	1010	5.30	.34	1.94	820	16	.13	28	.19	18	1.60	4	<2	133	<5	.03	<5	145	116	130
287686	.1	2.53	6	<5	275	<10	1.77	1	9	61	45	2.58	.08	.46	212	1	.29	5	.07	7	.01	<2	<2	58	<5	.08	<5	172	27	6
287687	.1	.65	5	5	80	<10	.25	2	5	83	74	1.13	.25	.28	228	2	.04	6	.06	8	.01	3	<2	6	<5	.02	<5	25	349	4
287688	.2	.89	14	<5	362	<10	.88	4	8	94	129	2.05	.19	.54	614	3	.03	7	.05	14	.04	7	<2	15	<5	.01	<5	38	288	5
287689	.1	.76	6	<5	327	<10	.92	2	6	73	97	1.81	.13	.58	511	2	.06	6	.06	7	.01	<2	<2	20	<5	.01	<5	48	130	8
287690	.2	.78	13	<5	498	<10	.83	3	7	91	135	1.87	.12	.62	527	4	.05	7	.05	5	.02	<2	<2	24	<5	.02	<5	47	119	9
287691	.1	.86	5	<5	819	<10	.93	7	8	95	160	2.07	.19	.55	665	5	.04	8	.06	11	.01	5	<2	15	<5	.01	<5	43	224	17
287692	.1	.67	8	<5	155	<10	.52	8	5	69	166	1.39	.22	.32	520	2	.03	4	.07	17	.01	6	<2	9	<5	.02	<5	27	308	5

ELEMENT / SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	Au* ppb
287693	.2	.89	9	<5	577	<10	.61	7	7	68	201	2.08	.16	.59	770	3	.04	5	.06	16	.02	2	<2	12	<5	.01	<5	38	249	15
287694	.8	.74	18	<5	881	<10	1.19	3	6	79	140	1.89	.18	.51	599	2	.03	7	.05	19	.01	3	<2	19	<5	.03	<5	33	104	7
287695	.1	.82	5	<5	62	<10	2.05	4	7	78	155	1.97	.17	.55	854	3	.04	5	.06	9	.01	<2	<2	23	<5	.01	<5	28	106	28
287696	.2	.76	4	<5	379	<10	.86	6	8	81	196	1.88	.20	.45	792	2	.03	6	.05	10	.02	3	<2	15	<5	.02	<5	27	376	6
287697	.1	.69	19	<5	121	<10	.20	7	7	65	221	1.63	.18	.44	552	1	.05	5	.06	8	.01	<2	<2	7	<5	.01	<5	25	640	3
287698	.2	.76	6	<5	172	<10	.25	4	8	52	366	1.72	.21	.33	614	2	.03	6	.07	18	.01	3	<2	8	<5	.01	<5	18	1132	7
287699	.1	.85	9	5	211	<10	.28	3	7	65	581	1.79	.25	.26	573	3	.04	8	.06	26	.02	6	<2	9	<5	.02	<5	12	1641	3
287700	.2	.66	5	<5	150	<10	.31	4	5	70	569	1.29	.26	.16	496	2	.03	5	.09	19	.01	7	<2	7	<5	.01	<5	13	1123	11
287701	1.1	1.86	58	6	147	<10	4.76	2	23	40	1045	5.25	.34	1.94	824	15	.13	26	.18	20	1.41	6	<2	135	8	.03	<5	122	118	135
287702	.1	2.30	12	<5	62	<10	1.76	2	6	50	36	2.18	.08	.39	162	1	.31	4	.07	2	.02	<2	<2	90	<5	.05	<5	124	24	25
287703	.5	.91	11	<5	144	<10	.26	4	7	67	716	2.11	.24	.43	627	2	.04	10	.08	19	.01	7	<2	7	<5	.01	<5	25	1333	6
287704	.3	.95	5	<5	115	<10	.27	3	8	56	608	2.06	.23	.48	586	1	.03	8	.07	11	.01	9	<2	6	<5	.02	<5	24	1264	3
287705	1.1	.73	9	6	124	<10	.40	5	7	54	393	1.49	.30	.21	450	3	.02	6	.15	36	.02	35	<2	7	5	.01	<5	15	670	11
287706	.3	.92	12	<5	166	<10	.23	6	12	67	518	2.20	.27	.39	773	4	.03	8	.07	42	.01	30	<2	6	<5	.01	<5	23	766	4
287707	1.1	.98	19	<5	246	<10	.10	4	23	121	644	2.36	.17	.43	732	11	.02	7	.04	116	.01	36	<2	5	<5	.02	<5	21	443	80
287708	1.2	1.49	62	<5	108	<10	.13	9	44	96	600	4.12	.24	.64	1194	7	.03	9	.06	161	.02	124	<2	4	6	.03	<5	22	718	29
287709	.7	1.02	11	<5	97	<10	.17	5	12	76	406	2.41	.22	.61	940	3	.04	7	.07	21	.01	11	<2	6	<5	.01	<5	31	626	8
287710	.3	1.44	7	<5	99	<10	.16	6	14	84	405	3.43	.25	.69	1294	4	.03	8	.06	22	.02	8	<2	5	<5	.01	<5	26	1954	15
287711	.5	1.26	6	<5	58	<10	.17	4	23	55	411	2.87	.24	.62	1004	1	.02	6	.07	55	<10	9	<2	3	<5	.02	<5	20	801	7
287712	.8	1.31	11	<5	72	<10	.25	6	21	88	395	3.46	.27	.48	798	3	.01	7	.12	35	<10	10	<2	4	<5	.01	<5	21	919	23
287713	1.2	1.06	57	6	1136	<10	1.17	21	63	63	897	3.90	.26	.28	3420	6	.02	9	.64	150	.01	110	<2	12	<5	.03	17	24	1388	25
287714	1.5	.51	27	5	426	<10	.20	5	12	154	463	1.26	.23	.10	504	9	.01	6	.09	332	.01	65	<2	5	<5	.02	<5	29	913	95
287715	.6	.94	23	<5	1064	<10	.13	4	11	78	326	2.16	.28	.32	490	17	.01	9	.05	557	.03	55	<2	7	<5	.01	<5	11	835	38
287716	.4	1.11	5	<5	417	<10	.14	3	13	87	392	2.32	.29	.55	885	6	.02	8	.06	342	.01	12	<2	4	<5	.01	<5	14	655	8
287717	1.2	1.93	50	5	145	<10	4.99	2	25	45	1025	4.96	.35	1.99	803	17	.14	31	.21	16	1.66	5	<2	130	7	.03	<5	131	115	140
287718	.1	2.96	10	<5	74	<10	2.12	2	7	73	41	2.44	.09	.48	186	1	.43	4	.08	6	.01	<2	<2	110	<5	.06	<5	145	26	22
287719	.2	1.09	15	<5	141	<10	.14	3	19	126	302	2.43	.29	.43	845	6	.03	9	.05	239	.01	26	<2	5	<5	.01	<5	13	430	24
287720	.3	1.18	26	<5	71	<10	.13	4	13	87	377	2.76	.25	.56	944	4	.02	8	.06	90	.02	29	<2	2	<5	.02	<5	16	534	12
287721	.5	1.24	17	<5	46	<10	.12	5	15	77	403	2.90	.26	.57	1097	2	.01	7	.05	43	.01	38	<2	3	<5	.01	<5	17	479	29
287722	.3	.97	6	<5	60	<10	.14	3	9	98	416	2.11	.25	.59	905	4	.04	8	.06	17	.02	5	<2	6	<5	.01	<5	23	558	7
287723	.4	.98	11	<5	78	<10	.16	5	8	115	356	1.85	.31	.58	777	3	.03	7	.05	16	.01	<2	<2	5	<5	.02	<5	24	578	20
287724	.3	1.39	22	<5	38	<10	.13	4	13	76	296	3.05	.26	.70	1266	1	.01	9	.04	29	.01	15	<2	4	<5	.01	<5	18	532	6
287725	.6	1.23	24	<5	103	<10	.14	6	16	101	481	2.98	.24	.54	982	7	.02	10	.05	26	.02	34	<2	5	<5	.02	<5	25	570	12
287726	.2	.91	19	<5	53	<10	.18	4	11	73	413	2.28	.20	.61	667	2	.03	12	.07	18	.01	4	<2	6	<5	.01	<5	50	563	5
287727	.4	1.30	33	<5	100	<10	.16	5	16	71	521	3.23	.23	.67	1049	3	.02	10	.06	57	.02	18	<2	5	<5	.02	<5	30	707	19
287728	.2	.75	19	6	2676	<10	.18	4	11	87	391	1.96	.22	.34	622	4	.03	11	.08	92	.05	8	<2	11	<5	.01	<5	32	590	17
287729	.1	.37	14	5	90	<10	.17	3	6	70	445	1.20	.23	.12	402	3	.02	6	.07	164	.01	25	<2	6	<5	.01	<5	28	442	4
287730	.2	1.05	16	<5	54	<10	.51	5	10	26	457	2.01	.31	.32	355	2	.01	10	.20	27	.01	43	<2	11	5	.02	<5	18	577	14
287731	.1	2.74	25	<5	49	<10	.35	8	30	18	713	6.15	.28	1.15	1489	1	.01	24	.14	89	.01	52	<2	10	<5	.01	<5	57	1123	48
287732	.4	.77	14	<5	125	<10	.32	4	6	37	527	1.09	.23	.35	545	1	.02	5	.09	29	.02	25	<2	11	<5	.01	<5	17	523	8

ELEMENT / SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	Au* ppb
287733	1.1	1.75	52	<5	142	<10	4.72	5	20	39	1030	4.80	.33	1.84	802	14	.13	26	.19	16	1.56	8	<2	130	7	.03	<5	123	115	130
287734	.1	2.13	6	<5	35	<10	1.65	2	6	49	47	1.70	.06	.31	145	2	.29	3	.07	7	.02	3	<2	50	<5	.04	<5	134	24	11
287735	.3	.65	11	<5	204	<10	.26	4	7	46	388	1.27	.20	.37	855	2	.02	8	.08	20	.01	15	<2	11	<5	.02	<5	27	379	8
287736	.1	1.00	9	<5	220	<10	.44	5	11	37	335	1.89	.16	.70	933	1	.03	12	.08	9	.01	9	<2	20	<5	.01	<5	54	731	13
287737	.1	1.07	15	<5	77	<10	.31	4	9	65	389	2.32	.15	.76	439	1	.04	11	.07	3	.02	4	<2	14	<5	.01	<5	65	725	9
287738	.2	1.00	18	<5	42	<10	.30	5	10	63	247	2.62	.12	.78	361	2	.05	13	.08	5	.01	5	<2	12	<5	.02	<5	75	743	5
287739	.1	.89	15	<5	68	<10	.29	6	9	90	196	2.53	.11	.69	330	3	.06	11	.07	6	.01	4	<2	13	<5	.04	<5	77	617	30

PIONEER LABORATORIES INC #103-2691 VISCOUNT WAY RICHMOND, BC CANADA V6V 2R5 TEL.(604)231-8165

ASSAY CERTIFICATE

Pb,Zn Analysis - 1.000 gm sample is digested with 50 ml of aqua regia, diluted to 100 ml with water and finished by AA.

SNL ENTERPRISES LTD.
Project: Logan Copper
Report No. 2092496
Sample Type: Pulps
Date: November 27, 2009

ELEMENT SAMPLE	Pb %	Zn %
2092241 284467	-	2.24
2092314 284499	-	4.09
2092314 284500	-	3.98
2092314 285314	-	1.61
2092308 284498	-	3.49
2092465 287618	-	1.50
2092465 287640	-	3.57
2092465 287652	1.36	1.77
2092479 287660	-	2.79

PIONEER LABORATORIES INC.

#103-2691 VISCOUNT WAY RICHMOND, BC CANADA V6V 2R5

TELEPHONE (604) 231-8165

SNL ENTERPRISES LTD.

GEOCHEMICAL ANALYSIS CERTIFICATE

Project: Logan Copper
Sample Type: Cores

Multi-element ICP Analysis - 0.500 gram sample is digested with 3 ml of aqua regia, diluted to 10 ml with water. This leach is partial for B, Ba, Cr, Fe, Mg, Mn, Na, P, S, Sn, Ti and limited for Na, K and Al. *Au Analysis- 20 gram sample is digested with aqua regia, MIBK extracted, and is finished by AA or graphite furnace AA.

Analyst _____
Report No. 2092518
Date: December 04, 2009

ELEMENT / SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	Au* ppb
287740	1.4	.84	<5	<5	156	<10	.28	3	7	90	240	2.32	.10	.71	487	2	.05	13	.09	18	.01	8	<2	17	<5	.08	<5	73	515	3
287741	.9	1.08	10	<5	114	<10	.21	2	9	76	518	2.89	.11	.75	1128	1	.03	14	.10	8	.01	7	<2	16	<5	.02	<5	61	1050	46
287742	1.0	1.40	9	<5	100	<10	.19	4	11	88	862	3.72	.15	.78	1583	3	.02	10	.08	106	.02	13	<2	13	<5	.01	<5	51	828	20
287743	.8	.93	18	<5	202	<10	.28	3	7	76	378	2.61	.08	.72	724	1	.04	11	.10	5	.01	9	<2	22	<5	.08	<5	76	835	7
287744	1.7	.74	11	<5	572	<10	.30	2	5	80	196	2.19	.09	.63	401	2	.06	10	.09	3	.01	8	<2	24	<5	.09	<5	77	413	4
287745	.7	.80	8	<5	310	<10	.27	3	6	96	245	2.18	.11	.66	474	2	.05	12	.10	6	.01	5	<2	23	<5	.08	<5	71	484	3
287746	.6	.83	<5	<5	148	<10	.31	3	7	97	292	2.26	.14	.65	551	5	.06	12	.10	6	.01	5	<2	26	<5	.09	5	76	624	1
287747	.5	.93	9	<5	290	<10	.29	2	6	102	374	2.37	.15	.67	713	4	.05	13	.09	4	.01	3	<2	28	<5	.09	<5	71	608	20
287748	.6	.83	14	<5	207	<10	.26	3	7	94	253	2.25	.13	.63	549	3	.05	12	.10	3	.01	4	<2	23	<5	.06	<5	75	441	3
287749	1.2	1.70	56	<5	147	<10	3.69	2	17	38	1017	4.71	.32	1.53	814	14	.13	26	.20	15	1.20	7	<2	132	5	.03	<5	124	115	140
287751	.7	.72	11	<5	278	<10	.36	3	6	103	174	2.10	.12	.50	377	4	.07	10	.10	5	.01	3	<2	24	<5	.09	<5	81	170	2
287752	.5	.81	<5	5	193	<10	.33	2	5	100	235	2.37	.14	.52	635	2	.06	11	.09	3	.01	2	<2	20	<5	.09	7	80	147	3
287753	.4	.73	15	<5	236	<10	.65	3	6	86	191	2.12	.11	.50	369	1	.05	12	.10	6	.01	3	<2	26	<5	.09	<5	81	62	7
287754	.5	.82	<5	<5	202	<10	.97	4	4	114	188	2.18	.17	.57	450	4	.06	11	.11	4	.01	3	<2	30	<5	.05	<5	79	74	2
287755	.8	.39	<5	5	351	<10	.46	2	6	115	356	1.87	.26	.10	636	10	.04	6	.08	6	.03	3	<2	16	<5	.01	<5	23	260	25
287756	.5	.52	<5	5	194	<10	.71	3	4	100	157	1.61	.23	.32	530	7	.05	7	.07	12	.01	<2	<2	15	<5	.01	<5	29	138	5
287757	.8	1.07	<5	<5	322	<10	.29	2	8	92	354	2.70	.22	.45	1178	10	.03	6	.08	11	.10	<2	<2	12	<5	.01	<5	28	159	4
287758	7.7	.58	13	<5	601	<10	.52	4	5	80	233	1.59	.24	.35	700	5	.02	5	.06	4	.02	<2	<2	18	<5	.01	<5	22	356	3
287759	.6	.60	8	<5	216	<10	.53	37	9	79	278	1.84	.19	.38	810	4	.04	7	.08	32	.03	6	<2	11	<5	.01	<5	26	5796	18
287760	3.2	.65	28	<5	71	<10	.10	14	10	140	1962	2.16	.17	.31	594	122	.02	4	.04	9842	.36	18	<2	4	<5	.01	<5	8	2100	51
287761	1.1	.42	14	<5	133	<10	.38	44	9	119	638	1.70	.19	.21	608	35	.04	6	.08	568	.10	9	<2	7	<5	.01	<5	23	6769	18
287762	1.0	.26	<5	<5	647	<10	.36	24	4	138	434	1.26	.18	.05	324	7	.03	4	.06	3188	.09	8	<2	16	<5	.01	<5	12	2142	6
287763	.4	.33	<5	<5	498	<10	.93	23	4	61	235	1.28	.20	.06	482	4	.03	5	.08	16	.01	3	<2	16	<5	.01	<5	20	1925	6
287764	.3	.34	<5	6	243	<10	.90	3	3	95	190	1.32	.23	.34	421	6	.05	6	.07	5	.02	2	<2	25	<5	.01	<5	24	351	3
287765	.7	.32	22	<5	327	<10	.81	15	8	86	363	1.76	.21	.35	701	11	.03	5	.08	68	.17	15	<2	26	<5	.01	<5	18	1662	12
287766	.5	.50	<5	<5	236	<10	.77	6	5	73	174	1.51	.15	.31	827	4	.05	7	.06	18	.01	5	<2	21	<5	.01	8	33	662	7
287767	.7	.53	10	<5	289	<10	.56	11	4	80	295	1.37	.18	.30	632	2	.04	5	.08	216	.02	6	<2	12	<5	.01	<5	26	809	12
287768	.4	.61	8	<5	178	<10	.44	8	5	90	294	1.47	.19	.35	589	4	.03	6	.07	76	.01	5	<2	11	<5	.01	6	25	917	10
287769	.1	.53	7	<5	94	<10	.46	7	4	72	289	1.32	.16	.37	621	2	.04	7	.08	162	.02	<2	<2	9	<5	.01	5	26	806	7
287770	1.0	1.78	53	<5	147	<10	3.80	4	18	38	1060	4.58	.31	1.65	830	16	.13	28	.18	18	1.21	5	<2	136	7	.03	<5	125	120	135
287771	.7	2.21	10	<5	76	<10	1.54	2	8	66	86	2.77	.03	.72	544	1	.30	5	.08	6	.01	2	<2	47	<5	.05	<5	145	31	28
287772	.3	.57	11	<5	155	<10	.16	28	12	92	265	1.88	.18	.31	1100	3	.04	8	.08	1708	.02	4	<2	7	<5	.01	5	28	5962	8
287773	.8	.41	15	<5	412	<10	.18	27	4	98	478	.94	.17	.15	387	4	.03	4	.07	1040	.03	13	<2	9	<5	.01	<5	16	4038	52
287774	.6	.68	<5	<5	64	<10	.66	12	5	80	195	1.60	.16	.44	529	2	.05	7	.08	32	.01	5	<2	11	<5	.01	6	35	1067	4
287775	.7	.60	13	<5	71	<10	.27	5	6	88	342	1.75	.19	.37	623	4	.04	6	.06	210	.01	4	<2	6	<5	.01	<5	24	1473	8

ELEMENT / SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	Au* ppb
287776	.6	.54	<5	<5	61	<10	.85	6	4	90	182	1.32	.14	.31	497	2	.03	6	.04	9	.01	3	<2	13	<5	.01	<5	29	585	6
287777	.7	.37	<5	<5	143	<10	.47	5	5	66	321	1.75	.16	.14	557	3	.04	3	.03	17	<10	11	<2	9	<5	.01	<5	19	565	3
287778	.6	.32	14	6	251	<10	.87	9	3	71	299	1.19	.21	.06	899	4	.03	4	.04	10	.01	10	<2	8	<5	.01	7	17	414	2
287779	1.0	.34	26	<5	257	<10	.76	2	4	71	142	1.32	.18	.05	852	3	.04	3	.05	7	.01	7	<2	7	<5	.01	<5	15	312	3
287780	.5	.35	11	<5	126	<10	.67	3	5	62	330	2.03	.17	.15	656	4	.05	6	.04	20	.01	12	<2	9	<5	.01	<5	12	331	6
287781	2.8	.29	8	<5	30	<10	.71	2	4	78	530	1.57	.19	.13	233	5	.03	4	.03	12	.02	17	<2	12	<5	.01	<5	14	171	12
287782	1.7	.40	7	<5	207	<10	1.20	3	3	66	306	1.68	.13	.28	568	4	.04	3	.05	6	.02	11	<2	15	<5	.01	<5	20	216	7
287783	.8	.57	38	<5	137	<10	.16	2	10	78	505	3.10	.16	.31	835	5	.03	7	.04	93	.01	32	<2	8	<5	.01	<5	23	526	5
287784	1.5	.21	43	<5	122	<10	.18	20	4	158	1541	.61	.10	.07	130	11	.02	3	.02	399	.19	48	<2	4	<5	.01	<5	4	1790	32
287785	.5	.63	9	<5	35	<10	.71	4	3	97	274	1.32	.21	.37	363	2	.04	7	.04	52	.02	10	<2	8	<5	.01	<5	21	552	1
287786	.8	.54	12	<5	55	<10	.61	3	4	66	211	1.25	.16	.34	328	1	.03	4	.03	15	.01	7	<2	9	<5	.01	5	22	367	1
287787	1.4	1.75	60	<5	147	<10	3.87	4	18	37	1063	4.38	.30	1.57	805	14	.12	24	.14	18	1.25	8	<2	136	8	.03	<5	117	125	130
287788	1.0	2.10	<5	<5	86	<10	1.64	1	10	64	108	2.38	.02	.73	557	1	.28	4	.04	13	.02	5	<2	47	<5	.05	9	98	26	4
287789	.9	.58	<5	<5	123	<10	.77	2	5	72	163	1.29	.14	.42	374	2	.04	6	.05	35	.01	7	<2	13	<5	.01	6	26	306	1
287790	1.2	.64	13	<5	85	<10	.53	1	3	131	147	1.23	.21	.36	517	6	.03	7	.04	52	.01	10	<2	9	<5	.01	<5	18	243	5
287791	.7	.56	<5	<5	81	<10	.66	2	4	72	127	1.16	.15	.40	330	1	.04	6	.05	10	.01	6	<2	13	<5	.01	<5	24	195	7
287792	.2	.61	<5	<5	78	<10	.82	3	5	77	142	1.42	.13	.50	417	1	.05	7	.06	8	.01	<2	<2	20	<5	.01	<5	33	149	2
287793	.1	.59	18	<5	154	<10	1.11	2	3	110	296	1.40	.16	.44	633	7	.05	7	.03	6	.02	<2	<2	21	<5	.01	7	27	168	3
287794	.6	.52	<5	<5	81	<10	1.25	2	4	115	276	1.28	.15	.34	564	5	.05	6	.04	5	.02	5	<2	22	<5	.01	<5	28	240	1
287795	1.4	.31	8	<5	295	<10	.94	3	6	132	297	1.21	.25	.21	553	10	.03	8	.03	27	.05	17	<2	20	<5	.01	<5	16	332	2
287796	.2	.39	<5	<5	835	<10	1.09	1	5	85	177	1.30	.19	.34	478	2	.05	7	.04	9	.03	4	<2	44	<5	.01	10	26	160	1
287797	1.0	.58	<5	<5	39	<10	.79	8	4	68	224	1.36	.13	.37	486	1	.04	4	.05	6	.02	7	<2	13	<5	.01	<5	25	914	1
287798	1.6	.18	41	<5	342	<10	.65	47	18	170	1110	.87	.08	.04	495	13	.02	2	.02	29	.15	46	<2	8	<5	.01	<5	1	5784	7
287799	3.2	.60	100	<5	51	<10	.05	14	52	166	4402	2.77	.12	.26	535	48	.03	6	.01	526	1.06	37	<2	3	<5	.01	<5	9	1633	40
287800	1.7	.87	32	<5	27	<10	.13	9	14	124	1766	2.56	.14	.35	992	22	.02	3	.02	25	.46	14	<2	2	<5	.01	<5	15	746	8
287801	.7	.52	<5	<5	149	<10	1.01	7	5	66	177	1.42	.18	.39	636	4	.04	4	.05	47	.06	4	<2	20	<5	.01	<5	26	702	2
287802	.6	.67	<5	<5	507	<10	1.00	13	6	116	343	1.56	.19	.42	782	7	.04	7	.04	555	.15	7	<2	24	<5	.01	7	28	1561	4
287803	.1	.40	<5	<5	72	<10	1.05	15	4	56	342	1.26	.15	.34	622	1	.03	3	.03	81	.08	<2	<2	22	<5	.01	<5	17	1595	8
287804	3.7	1.88	58	<5	93	<10	.78	3	13	58	3229	4.28	.13	.80	724	41	.09	121	.07	84	.74	8	<2	35	5	.07	8	54	330	305
287805	.9	2.15	8	<5	85	<10	1.59	2	11	61	128	2.64	.02	.81	639	1	.29	7	.04	10	.02	<2	<2	47	<5	.06	9	129	30	10
287806	1.1	.67	9	<5	50	<10	.84	28	9	149	216	1.66	.27	.35	724	18	.04	9	.03	2200	.20	8	<2	20	<5	.01	9	30	2962	20
287807	.8	.57	10	<5	139	<10	1.03	8	5	84	178	1.37	.15	.41	620	2	.05	6	.04	615	.08	4	<2	24	<5	.01	<5	32	1040	38
287808	1.5	.82	25	<5	246	<10	.93	5	8	101	1130	1.84	.19	.49	1256	18	.04	7	.04	22	.26	5	<2	22	<5	.01	8	23	662	12
287809	1.0	.65	10	<5	173	<10	.85	1	5	77	189	1.54	.14	.52	682	2	.05	6	.03	17	.04	2	<2	25	<5	.01	<5	36	123	19
287810	.1	.59	9	<5	126	<10	1.02	9	4	103	185	1.45	.16	.43	638	6	.06	7	.04	542	.10	<2	<2	24	<5	.01	<5	34	1202	5
287811	1.5	.83	23	<5	91	<10	.64	3	7	88	186	2.19	.23	.40	872	5	.04	6	.02	190	.07	9	<2	12	<5	.01	5	33	439	3
287812	1.8	2.07	9	<5	86	<10	.14	7	53	77	538	6.75	.15	.62	2147	18	.02	3	.03	77	1.44	21	<2	4	<5	.01	<5	36	735	27
287813	.9	.54	12	<5	114	<10	.81	1	4	106	271	1.24	.22	.30	472	6	.03	7	.04	12	.04	8	<2	17	<5	.01	<5	21	84	130
287814	1.0	.38	8	<5	233	<10	1.16	4	3	85	292	1.04	.23	.28	474	5	.03	4	.03	39	.10	7	<2	22	<5	.01	6	14	641	7
287815	.7	.60	<5	<5	112	<10	1.23	2	5	79	190	1.47	.16	.47	532	4	.06	6	.05	6	.03	6	<2	23	<5	.01	<5	35	143	2

ELEMENT / SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	Au* ppb
287816	.9	.46	<5	7	91	<10	1.07	3	4	62	147	1.18	.26	.31	452	2	.03	4	.06	10	.03	8	<2	19	<5	.01	5	18	218	4
287817	.7	.34	<5	<5	395	<10	.80	1	6	46	164	1.49	.21	.30	565	3	.02	3	.04	4	.06	6	<2	34	<5	.01	<5	17	155	1
287818	2.0	.33	22	<5	1569	<10	.66	2	4	76	413	.84	.23	.15	226	2	.03	4	.03	24	.13	50	<2	66	<5	.01	5	10	138	150
287819	2.2	.55	<5	5	3497	<10	1.10	2	5	112	268	1.14	.29	.16	276	4	.02	6	.08	25	.09	31	<2	114	<5	.01	6	13	137	2
287820	3.6	.56	26	6	518	<10	.64	6	4	52	447	1.16	.28	.15	182	3	.03	5	.07	196	.10	78	<2	20	<5	.01	<5	12	652	8
287821	1.5	1.85	62	<5	147	<10	3.92	3	19	38	1004	5.38	.31	1.62	826	15	.13	26	.20	17	1.22	7	<2	136	7	.03	<5	119	115	135
287822	.8	2.33	<5	<5	68	<10	1.36	1	12	65	185	2.51	.02	.55	447	1	.30	5	.08	7	.08	5	<2	56	<5	.04	<5	81	38	8
287823	.1	.72	<5	<5	50	<10	1.06	2	6	101	276	1.87	.26	.38	592	8	.05	7	.07	20	.05	8	<2	18	<5	.01	7	32	165	1
287824	1.5	.65	8	<5	122	<10	.72	15	5	100	472	1.73	.20	.28	500	4	.03	6	.08	32	.20	31	<2	16	<5	.01	<5	17	2707	23
287825	.7	.61	<5	<5	47	<10	2.06	1	4	74	186	1.63	.16	.35	742	3	.04	5	.06	12	.04	12	<2	33	<5	.01	<5	26	83	8
287826	2.8	1.01	43	<5	104	<10	.48	4	10	71	1243	2.69	.17	.42	994	21	.03	5	.06	258	.31	67	<2	8	<5	.01	<5	18	346	10
287827	1.3	.73	14	<5	94	<10	.67	1	5	55	107	1.51	.26	.35	423	3	.02	6	.08	22	.03	9	<2	14	<5	.01	9	20	134	9
287828	1.4	.88	17	<5	90	<10	.45	2	6	112	131	2.05	.25	.41	660	7	.03	8	.05	409	.04	17	<2	12	<5	.01	6	23	225	7
287829	.7	.85	14	<5	204	<10	.64	3	7	85	175	2.15	.20	.47	719	6	.04	7	.08	19	.04	6	<2	14	<5	.01	<5	30	188	4
287830	.6	.74	8	<5	53	<10	.77	1	6	74	153	1.96	.15	.49	636	3	.04	6	.07	10	.03	5	<2	13	<5	.01	<5	28	141	3
287831	.8	.61	12	<5	52	<10	.65	75	16	108	986	1.66	.13	.33	601	10	.03	5	.06	100	.69	17	<2	10	<5	.01	8	20	>10,000	75
287832	.7	.62	9	<5	125	<10	1.21	1	5	83	203	1.64	.16	.47	541	3	.06	6	.08	12	.03	8	<2	42	<5	.01	8	27	104	6
287833	.6	.59	12	<5	133	<10	1.55	2	4	92	276	1.37	.19	.33	488	2	.04	5	.06	20	.05	7	<2	22	<5	.01	7	23	225	70
287834	.5	.68	6	<5	80	<10	1.03	1	5	88	176	1.60	.14	.49	477	6	.05	8	.08	7	.02	8	<2	26	<5	.01	5	27	60	9
287835	.7	.73	<5	<5	460	<10	1.15	1	7	79	105	1.94	.15	.52	586	2	.05	8	.08	5	.02	6	<2	29	<5	.01	6	34	91	3
287836	1.1	.97	10	<5	94	<10	.56	2	8	86	240	2.55	.17	.51	838	7	.04	7	.06	24	.09	20	<2	12	<5	.01	<5	31	134	13
287837	.5	.73	6	5	197	<10	.87	1	6	90	96	1.85	.16	.47	416	4	.05	8	.08	100	.02	2	<2	21	<5	.01	7	30	81	2
287838	3.6	1.91	58	<5	100	<10	.77	2	14	62	3190	4.56	.14	.81	747	42	.10	134	.14	98	.74	6	<2	43	7	.08	<5	56	341	310
287839	.4	2.40	6	<5	38	<10	1.45	1	7	65	66	2.86	.02	.60	474	1	.34	5	.08	11	.01	2	<2	60	<5	.05	15	131	23	11

PIONEER LABORATORIES INC.

#103-2691 VISCOUNT WAY RICHMOND, BC CANADA V6V 2R5

TELEPHONE (604) 231-8165

SNL ENTERPRISES LTD.

Project: Logan Copper
Sample Type: Cores

GEOCHEMICAL ANALYSIS CERTIFICATE

Multi-element ICP Analysis - 0.500 gram sample is digested with 3 ml of aqua regia, diluted to 10 ml with water. This leach is partial for B, Ba, Cr, Fe, Mg, Mn, Na, P, S, Sn, Ti and limited for Na, K and Al. *Au Analysis- 20 gram sample is digested with aqua regia, MIBK extracted, and is finished by AA or graphite furnace AA.

Analyst R. Salm
Report No. 2092528
Date: December 22, 2009

ELEMENT / SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	Au* ppb
287840	2.9	.77	<5	<5	79	<10	.98	1	6	53	105	2.04	.12	.62	635	3	.05	6	.04	11	.03	3	<2	20	<5	.02	<5	32	80	2
287841	.5	.75	<5	<5	95	<10	1.03	1	6	59	153	1.91	.10	.66	607	3	.05	6	.04	7	.02	<2	<2	24	<5	.04	<5	36	102	1
287842	.4	.74	<5	<5	44	<10	.96	1	5	65	152	1.97	.14	.57	601	2	.05	6	.04	40	.02	2	<2	16	<5	.02	<5	32	175	2
287843	.3	.66	<5	<5	49	<10	.78	<1	6	77	145	2.02	.11	.64	401	2	.06	8	.04	6	.02	<2	<2	19	<5	.08	<5	57	52	1
287844	.4	.83	16	<5	43	<10	1.11	1	8	46	732	2.53	.13	.73	634	1	.05	8	.06	12	.10	12	<2	18	<5	.05	<5	61	120	2
287845	.9	1.22	<5	<5	66	<10	.98	2	12	74	313	3.49	.16	.96	1147	4	.04	12	.07	30	.08	7	<2	14	<5	.03	<5	76	265	1
287846	1.4	.89	<5	<5	101	<10	.50	15	7	80	184	2.39	.17	.67	765	3	.04	8	.05	857	.15	<2	<2	11	<5	.02	<5	38	1853	2
287847	1.5	1.06	<5	<5	284	<10	.28	6	13	64	653	3.19	.15	.62	1053	9	.04	6	.04	177	.35	5	<2	11	<5	.01	<5	30	815	8
287848	.4	.71	6	6	114	<10	.97	2	6	82	219	2.42	.14	.51	597	6	.05	7	.05	53	.06	7	<2	17	<5	.01	<5	40	203	1
287849	.7	.69	<5	6	66	<10	.86	1	5	62	191	1.96	.10	.54	605	3	.05	5	.05	3	.04	6	<2	16	<5	.02	<5	33	111	2
287850	.6	1.26	25	<5	80	<10	.46	3	15	57	388	3.55	.16	.69	1392	28	.03	6	.04	54	.47	2	<2	7	<5	.01	<5	30	416	8
287851	.4	1.24	<5	<5	79	<10	.29	3	10	50	158	3.23	.15	.75	1221	1	.04	10	.05	79	.03	2	<2	7	<5	.01	<5	41	359	1
287852	.3	1.05	<5	<5	66	<10	.82	2	9	53	135	3.06	.14	.77	1168	2	.04	11	.06	18	.04	4	<2	14	<5	.01	<5	59	236	2
287853	.3	1.14	6	<5	43	<10	1.37	3	11	56	180	3.16	.16	.90	1490	3	.04	11	.07	12	.06	5	<2	20	<5	.01	<5	68	337	1
287854	.5	1.92	<5	<5	855	<10	.85	2	17	52	251	5.43	.18	1.11	2652	2	.03	13	.08	29	.15	2	<2	25	<5	.01	<5	74	330	2
287855	3.1	1.86	50	<5	95	<10	.75	3	14	38	3163	4.41	.15	.91	734	37	.10	124	.08	100	.83	2	<2	34	<5	.10	<5	52	344	290
287856	.1	2.57	<5	<5	42	<10	1.65	2	10	47	45	2.80	.03	.81	388	1	.35	4	.05	23	.01	<2	<2	51	<5	.06	<5	135	35	2
287857	.2	.99	<5	<5	120	<10	1.30	2	10	69	217	2.58	.15	.83	1236	5	.05	11	.07	8	.04	<2	<2	24	<5	.02	<5	60	182	5
287858	.3	1.07	<5	<5	97	<10	1.20	2	10	55	167	2.91	.14	.83	1446	3	.04	10	.06	8	.07	3	<2	21	<5	.01	<5	57	205	3
287859	.1	1.36	39	<5	68	<10	1.51	2	14	65	122	3.54	.17	.95	1821	4	.04	11	.07	11	.22	8	<2	23	<5	.01	<5	56	280	6
287860	.2	1.14	<5	6	101	<10	1.14	2	10	48	196	3.33	.19	.78	1133	1	.04	11	.07	14	.02	9	<2	14	<5	.01	<5	59	237	2
287861	.6	1.25	<5	<5	393	<10	.98	3	13	53	1002	3.70	.14	1.00	1392	2	.04	14	.08	13	.05	4	<2	19	<5	.03	<5	74	293	6
287862	.7	1.09	<5	<5	179	<10	.60	3	10	56	246	3.01	.13	.79	1202	1	.04	11	.07	11	.01	5	<2	14	<5	.02	<5	68	291	16
287863	.5	1.49	9	<5	285	<10	.33	3	16	68	330	4.03	.16	.91	1939	3	.03	12	.06	22	.01	13	<2	10	<5	.01	<5	54	286	3
287864	.4	1.53	<5	<5	370	<10	.26	3	12	76	262	3.89	.21	.87	1841	1	.03	11	.06	18	.01	5	<2	9	<5	.01	<5	53	200	1
287865	.3	1.49	<5	<5	939	<10	.20	3	14	61	241	3.58	.18	.93	2076	1	.03	11	.07	22	.03	13	<2	12	<5	.01	<5	46	205	2
287866	.1	1.24	<5	<5	389	<10	.81	2	10	65	146	3.38	.21	.79	1447	3	.04	10	.06	12	.04	5	<2	15	<5	.01	<5	59	158	1
287867	.4	1.33	<5	5	82	<10	.83	7	10	65	153	3.56	.23	.81	1586	2	.03	11	.07	22	.11	7	<2	12	<5	.01	<5	59	975	5
287868	.9	1.83	<5	<5	231	<10	.15	3	18	67	421	4.45	.27	.95	1865	4	.03	10	.05	40	.52	7	<2	5	<5	.01	<5	32	543	5
287869	.6	1.78	12	<5	1867	<10	.11	12	22	73	328	4.51	.25	.80	1721	6	.03	11	.05	81	.11	16	<2	8	<5	.01	<5	29	623	3
287870	1.1	.46	13	<5	1119	<10	.06	3	8	96	325	1.14	.14	.16	710	5	.03	7	.02	375	.03	59	<2	8	<5	.01	<5	9	523	2
287871	.5	1.00	<5	7	94	<10	.17	5	11	54	583	2.30	.28	.31	712	1	.03	12	.06	36	.01	20	<2	7	<5	.01	<5	27	932	5
287872	3.3	1.96	55	<5	103	<10	.80	3	15	62	3208	4.56	.16	.95	781	39	.10	132	.08	103	.86	6	<2	37	5	.11	<5	57	362	305
287873	.3	.35	<5	6	70	<10	.86	<1	4	39	33	1.63	.07	.08	310	1	.06	4	.09	15	.01	<2	<2	39	<5	.01	<5	30	46	2
287874	.2	1.03	5	7	100	<10	.26	3	8	41	801	2.14	.22	.44	514	1	.03	9	.07	22	.01	10	<2	12	<5	.01	<5	50	1270	1
287875	.1	.89	5	<5	147	<10	.21	4	8	38	419	2.04	.20	.53	894	1	.04	11	.07	12	.01	7	<2	11	<5	.01	<5	51	927	2
287876	.1	.82	<5	<5	97	<10	.17	4	8	69	181	1.92	.27	.43	741	1	.03	9	.07	22	.01	10	<2	7	<5	.01	<5	43	468	2
287877	.1	.96	<5	<5	144	<10	.27	5	9	69	281	2.39	.18	.72	904	1	.04	10	.07	14	.01	9	<2	13	<5	.01	<5	63	952	1
287878	.4	.90	<5	<5	85	<10	.39	5	8	45	201	2.18	.19	.64	585	1	.04	8	.07	12	.01	<2	<2	12	<5	.01	<5	53	794	1
287879	.3	.87	<5	<5	91	<10	.21	3	7	66	160	1.95	.23	.52	602	2	.04	7	.06	9	.01	4	<2	10	<5	.01	<5	42	625	2

ELEMENT / SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	Au* ppb
287880	.2	.89	<5	<5	115	<10	.21	3	9	35	352	2.01	.21	.51	812	1	.03	8	.07	22	.01	10	<2	9	<5	.01	<5	36	1191	1
287881	.2	.94	7	<5	188	<10	.19	4	9	35	615	2.07	.22	.49	1112	1	.03	8	.06	35	.01	16	<2	9	<5	.01	<5	34	974	6
287882	.1	1.06	<5	<5	129	<10	.21	4	9	42	857	2.23	.21	.61	889	2	.03	10	.07	23	.01	16	<2	10	<5	.01	<5	42	1226	2
287883	.2	.80	<5	<5	125	<10	.19	9	8	36	794	1.96	.19	.44	951	1	.04	10	.07	15	.01	5	<2	8	<5	.01	<5	49	1575	5
287884	3.3	.77	<5	<5	89	<10	.21	6	7	44	835	1.70	.23	.36	671	1	.03	9	.07	11	.01	11	<2	10	<5	.01	<5	42	1355	22
287885	.2	.88	<5	<5	93	<10	.21	5	8	33	786	2.06	.21	.42	682	1	.03	10	.07	10	.01	6	<2	10	<5	.01	<5	49	1435	2
287886	.1	.95	<5	6	192	<10	.43	7	8	37	604	1.99	.28	.39	964	1	.03	8	.19	14	.01	17	<2	12	<5	.01	<5	37	739	4
287887	.2	1.13	<5	6	38	<10	.12	3	13	69	367	2.51	.21	.52	930	1	.03	10	.05	22	.01	28	<2	4	<5	.01	<5	23	576	1
287888	.2	1.00	<5	<5	120	<10	.20	3	10	35	548	2.15	.22	.45	874	1	.03	10	.07	20	.01	24	<2	9	<5	.01	<5	26	633	2
287889	1.1	1.82	52	<5	143	<10	4.30	3	22	40	1074	5.07	.34	1.77	820	16	.14	27	.17	24	1.41	7	<2	134	10	.03	<5	125	115	130
287890	.2	.29	<5	<5	180	<10	.92	<1	4	50	129	1.53	.03	.08	292	1	.06	3	.09	<2	.01	<2	<2	30	<5	.01	<5	38	30	3
287891	.1	1.12	7	6	92	<10	1.07	15	9	31	696	1.99	.27	.49	599	1	.03	8	.54	15	.01	20	<2	17	<5	.01	<5	35	827	36
287892	.3	.98	19	8	119	<10	1.14	15	9	41	406	1.90	.26	.45	875	1	.03	7	.60	23	.01	23	<2	14	<5	.01	<5	29	565	11
287893	.2	.45	<5	7	37	<10	.08	1	4	138	115	1.03	.16	.21	271	3	.03	7	.03	7	.01	6	<2	4	<5	.01	<5	17	214	3
287894	.6	.69	<5	6	39	<10	.34	6	6	45	248	1.55	.25	.29	336	1	.03	7	.17	20	.01	13	<2	8	<5	.01	<5	29	451	16
287895	.2	.74	<5	5	91	<10	.17	3	7	56	253	1.78	.26	.28	475	3	.03	8	.07	18	.01	10	<2	7	<5	.01	<5	36	443	2
287896	.1	.60	<5	5	97	<10	.21	2	5	33	237	1.41	.26	.24	420	1	.03	6	.07	9	.01	16	<2	9	<5	.01	<5	35	326	2
287897	.1	.91	9	6	129	<10	.23	4	10	29	517	2.22	.26	.47	687	1	.03	8	.08	17	.01	26	<2	11	<5	.01	<5	47	702	3
287898	.2	.72	<5	<5	66	<10	.21	3	6	36	277	1.67	.26	.31	480	1	.03	7	.07	12	.01	28	<2	9	<5	.01	<5	38	487	2
287899	.1	.52	<5	<5	133	<10	.24	2	4	23	221	1.25	.24	.22	475	1	.03	4	.08	3	.01	15	<2	12	<5	.01	<5	38	443	3
287900	.4	.91	<5	<5	215	<10	.33	3	8	29	351	1.72	.21	.45	847	1	.03	9	.09	16	.01	12	<2	18	<5	.01	<5	43	973	33
287901	.5	.90	<5	<5	101	<10	.25	3	9	31	434	2.08	.21	.50	584	1	.03	11	.08	20	.01	16	<2	12	<5	.01	<5	48	620	3
287902	.1	.77	17	<5	92	<10	.28	4	7	33	388	1.97	.22	.37	586	1	.03	8	.12	14	.01	53	<2	10	<5	.01	<5	33	581	8
287903	.5	.71	12	6	79	<10	.15	3	9	53	272	1.89	.22	.35	643	1	.03	9	.07	17	.01	33	<2	6	<5	.01	<5	39	385	9
287904	.4	.59	19	<5	175	<10	.23	4	12	25	430	1.96	.24	.20	770	1	.03	6	.08	23	.01	84	<2	11	<5	.01	<5	36	482	4
287905	.4	.61	17	5	149	<10	.22	4	9	26	480	1.80	.25	.23	746	1	.03	8	.08	29	.01	53	<2	10	<5	.01	<5	42	889	3
287906	1.1	1.79	50	<5	143	<10	4.26	3	22	39	1043	4.89	.33	1.75	795	14	.14	25	.18	22	1.39	8	<2	132	9	.03	<5	124	118	120
287907	.1	.32	<5	<5	107	<10	.80	<1	5	53	11	1.43	.12	.09	368	1	.06	3	.09	<2	.01	<2	<2	25	<5	.01	<5	29	35	2
287908	.8	.77	26	8	143	<10	.97	15	11	48	536	2.25	.29	.31	903	1	.03	8	.52	20	.01	91	<2	13	<5	.01	<5	35	698	4

PIONEER LABORATORIES INC.

#103-2691 VISCOUNT WAY RICHMOND, BC CANADA V6V 2R5

TELEPHONE (604) 231-8165

GEOCHEMICAL ANALYSIS CERTIFICATE

SNL ENTERPRISES LTD.
Project: Logan Copper
Sample Type: Rocks

Multi-element ICP Analysis - 0.500 gram sample is digested with 3 ml of aqua regia, diluted to 10 ml with water. This leach is partial for B, Ba, Cr, Fe, Mg, Mn, Na, P, S, Sn, Ti and limited for Na, K and Al. *Au Analysis- 20 gram sample is digested with aqua regia, MIBK extracted, and is finished by AA or graphite furnace AA.

Analyst [signature]
Report No. 2092536
Date: January 12, 2010

ELEMENT / SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	*Au ppb
286701	.5	1.78	82	<5	347	<10	1.49	1	12	44	1710	2.24	.24	.29	1394	8	.03	6	.05	136	.31	206	<2	30	<5	.01	5	21	308	7
286702	.2	.74	30	<5	443	<10	1.92	2	11	60	799	2.25	.28	.32	809	6	.04	7	.05	36	.12	89	<2	40	<5	.01	<5	17	231	1
286703	.5	1.62	17	<5	901	<10	2.44	1	15	66	290	4.03	.24	.61	868	5	.02	12	.05	19	.05	33	<2	35	14	.01	<5	25	328	1
286704	.5	1.55	<5	<5	364	<10	.95	3	6	64	621	1.31	.23	.19	1278	7	.04	5	.04	197	.09	68	<2	25	<5	.01	<5	19	119	1
286705	.5	1.84	20	<5	1008	<10	2.13	2	17	52	810	3.28	.25	.49	1327	6	.03	9	.04	141	.22	111	<2	39	<5	.01	<5	23	273	1
286706	.8	1.46	38	<5	96	<10	1.46	3	15	96	1230	1.60	.28	.19	654	14	.04	6	.04	85	.40	127	<2	30	<5	.01	<5	15	151	4
286707	1.0	1.90	51	<5	138	<10	3.94	2	18	38	1120	4.63	.30	1.69	787	13	.12	24	.13	27	1.23	<2	<2	135	10	.03	<5	116	115	130
286708	.8	1.70	<5	<5	178	<10	1.42	1	5	77	68	1.47	.08	.14	1660	5	.05	5	.06	186	.01	<2	<2	43	<5	.01	20	36	10	2
286709	.8	1.61	<5	<5	294	<10	1.80	1	20	70	835	3.54	.24	.82	1278	7	.04	12	.06	78	.20	<2	<2	33	<5	.01	<5	29	160	2
286710	1.5	1.58	<5	<5	189	<10	1.05	2	31	68	6850	4.52	.24	.62	1315	16	.03	9	.04	83	1.23	<2	<2	17	<5	.01	<5	20	113	5
286711	.6	1.99	<5	<5	1151	<10	1.89	1	24	96	2435	4.04	.25	.73	1469	10	.02	10	.04	120	.34	<2	<2	36	<5	.01	<5	29	144	3
286712	1.8	.53	<5	<5	157	<10	.72	<1	21	91	1760	3.18	.27	.48	695	9	.04	7	.04	23	.48	<2	<2	17	<5	.01	<5	15	73	2
286713	1.6	.44	12	<5	394	<10	3.03	2	6	76	2510	1.69	.25	.18	854	6	.03	4	.05	22	.29	7	<2	57	<5	.01	<5	14	38	2
286714	.1	.50	<5	<5	254	<10	3.52	<1	5	58	210	1.53	.26	.21	1177	3	.02	5	.05	26	.03	<2	<2	70	<5	.01	<5	15	31	2
286715	.2	.83	<5	<5	737	<10	3.31	2	7	68	325	1.86	.24	.30	992	4	.03	8	.05	6	.04	4	<2	68	<5	.01	<5	14	48	10
286716	.2	1.22	<5	<5	465	<10	3.81	<1	8	58	167	1.87	.25	.29	1326	3	.04	7	.05	52	.03	<2	<2	73	<5	.01	<5	20	73	11
286717	.3	.81	<5	<5	112	<10	3.04	<1	9	70	171	2.35	.26	.41	1014	4	.02	9	.05	33	.02	<2	<2	51	<5	.01	<5	32	57	4
286718	.2	1.32	<5	<5	64	<10	2.86	1	8	56	196	1.88	.25	.33	1131	2	.04	8	.05	56	.03	<2	<2	46	<5	.01	<5	29	60	4
286719	1.5	1.86	<5	<5	91	<10	1.32	<1	6	50	1160	.99	.32	.13	790	7	.03	4	.05	84	.15	<2	<2	44	<5	.01	8	15	25	1
286720	.8	1.21	<5	<5	222	<10	2.70	1	19	44	295	4.19	.28	.86	1364	1	.04	17	.08	47	.06	<2	<2	59	<5	.01	<5	54	188	4
286721	.1	.77	<5	<5	377	<10	3.37	<1	9	62	303	2.13	.27	.35	1023	2	.03	8	.05	6	.04	<2	<2	57	<5	.01	<5	30	64	3
286722	1.5	1.18	8	<5	130	<10	2.76	2	16	50	720	3.16	.26	.48	947	1	.04	10	.05	11	.12	3	<2	44	<5	.01	<5	20	115	20
286723	.1	1.05	<5	<5	87	<10	3.38	<1	10	54	275	2.35	.24	.49	1474	2	.02	9	.06	100	.02	<2	<2	65	<5	.01	8	34	88	4
286724	1.1	1.90	57	<5	146	<10	4.05	2	20	38	1012	4.79	.31	1.65	812	17	.13	25	.14	25	1.33	6	<2	132	10	.03	<5	117	115	120
286725	.1	1.31	<5	<5	157	<10	.98	<1	5	71	48	1.65	.08	.12	898	5	.06	4	.07	121	.01	<2	<2	44	<5	.01	<5	45	21	1
286726	1.4	1.13	<5	<5	156	<10	2.30	1	20	49	1020	3.80	.22	.72	1192	1	.04	11	.05	56	.16	<2	<2	34	<5	.01	<5	29	116	2
286727	.1	1.07	<5	<5	161	<10	2.99	2	9	85	259	2.13	.27	.35	1251	5	.02	9	.05	54	.03	<2	<2	46	<5	.01	<5	30	63	5
286728	.9	.61	14	<5	738	<10	3.06	1	10	58	497	2.13	.26	.32	965	4	.03	7	.05	6	.11	24	<2	62	<5	.01	<5	17	104	3
286729	1.5	1.89	60	<5	477	<10	3.05	3	14	49	1030	2.38	.25	.30	2087	6	.04	8	.05	121	.50	139	<2	66	<5	.01	<5	23	202	18
286730	1.4	1.46	<5	<5	425	<10	2.70	<1	11	35	422	1.82	.24	.26	1725	2	.02	7	.05	102	.07	<2	<2	64	<5	.01	<5	18	70	3
286731	1.1	1.54	8	<5	78	<10	2.49	2	13	55	246	1.99	.38	.38	1670	19	.03	15	.05	64	.02	<2	<2	48	<5	.01	43	50	42	16
286732	1.5	2.99	5	<5	3246	<10	1.79	1	17	84	810	3.83	.29	.65	2662	7	.04	11	.04	89	.14	<2	<2	77	<5	.01	6	30	315	3
286733	1.4	1.58	6	<5	1291	<10	1.90	<1	14	42	573	3.04	.28	.51	1770	6	.03	8	.05	146	.12	<2	<2	55	<5	.01	<5	23	227	9
286734	.3	2.57	7	<5	270	<10	1.04	2	17	64	1428	3.08	.22	.45	2287	13	.02	9	.04	263	.42	8	<2	30	<5	.01	<5	26	165	21
286735	.2	.44	16	<5	823	<10	3.07	1	9	41	930	1.91	.26	.55	993	6	.04	6	.04	40	.19	18	<2	75	<5	.01	<5	15	288	2

ELEMENT / SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	*Au ppb
286736	1.0	2.35	<5	<5	619	<10	.79	1	26	71	549	3.91	.25	.51	1697	11	.02	9	.05	144	.33	<2	<2	23	<5	.01	<5	25	232	1
286737	.8	.24	12	<5	29	<10	.52	<1	32	36	480	4.45	.22	.56	1056	12	.04	8	.05	23	.44	<2	<2	16	<5	.01	<5	17	186	3
286738	3.7	.34	<5	<5	56	<10	1.08	2	23	77	410	4.62	.25	.59	1332	7	.03	10	.05	16	.20	<2	<2	22	<5	.01	<5	19	203	2
286739	.2	.23	<5	<5	27	<10	1.25	1	22	56	720	3.71	.24	.47	1223	10	.02	8	.05	32	.40	<2	<2	20	<5	.01	<5	17	216	4
286740	1.0	.33	<5	<5	33	<10	1.62	2	19	91	1852	3.53	.26	.44	1248	13	.04	7	.04	115	.54	6	<2	21	<5	.01	<5	24	344	2
286741	3.0	1.78	50	<5	100	<10	.79	3	13	60	3180	4.05	.15	.84	694	42	.09	115	.07	106	.81	3	<2	31	9	.07	<5	53	350	290
286742	.1	.25	6	<5	126	<10	1.29	<1	5	76	12	1.47	.11	.09	459	2	.06	4	.08	2	.01	3	<2	40	<5	.01	<5	30	21	9
286743	.2	.29	<5	<5	34	<10	1.82	2	12	60	650	2.73	.23	.36	1143	7	.04	7	.05	33	.13	3	<2	22	<5	.01	<5	31	269	2
286744	.9	.43	<5	<5	38	<10	1.93	1	13	67	910	2.92	.25	.43	1287	5	.04	14	.05	19	.17	17	<2	22	<5	.01	<5	29	366	2
286745	.3	.41	25	<5	469	<10	1.58	2	12	64	520	3.12	.23	.48	1266	4	.02	16	.05	20	.11	8	<2	21	<5	.01	<5	31	265	1
286746	1.2	.47	<5	<5	88	<10	1.30	1	14	82	543	3.14	.25	.50	1253	6	.04	11	.05	34	.11	<2	<2	18	<5	.01	<5	30	325	1
286747	.2	.42	14	<5	29	<10	1.44	2	12	56	430	3.01	.23	.49	1155	4	.02	10	.05	30	.09	<2	<2	19	<5	.01	<5	30	303	17
286748	.3	.41	<5	<5	35	<10	1.68	<1	11	95	416	2.34	.25	.40	1087	7	.04	8	.05	21	.10	<2	<2	24	<5	.01	<5	26	182	1
286749	.2	.61	10	<5	584	<10	2.29	1	12	72	715	2.52	.24	.51	1344	4	.03	9	.05	41	.14	<2	<2	32	<5	.01	<5	33	193	5
286750	.3	.80	16	<5	364	<10	1.52	<1	13	71	2330	3.02	.22	.60	1381	7	.04	8	.04	32	.30	<2	<2	22	<5	.01	<5	28	228	1
286751	1.2	.85	11	<5	363	<10	.99	2	12	73	425	2.63	.23	.61	1140	4	.02	10	.05	43	.10	3	<2	20	<5	.01	<5	26	235	1
286752	.2	.96	<5	<5	345	<10	1.11	1	17	86	716	3.37	.24	.62	1269	8	.04	9	.05	42	.24	6	<2	18	<5	.01	<5	28	237	1
286753	.1	1.01	<5	<5	59	<10	.94	2	15	73	450	3.53	.23	.65	1345	5	.03	8	.05	34	.21	6	<2	17	<5	.01	<5	26	281	8
286754	5.1	.78	36	<5	64	<10	.92	4	25	113	6580	3.54	.26	.43	1043	12	.03	8	.03	27	1.46	70	<2	18	<5	.01	<5	19	265	13
286755	1.1	.80	7	<5	207	<10	1.09	1	14	74	925	3.18	.23	.54	1267	8	.02	9	.04	25	.26	5	<2	21	<5	.01	<5	30	263	1
286756	1.2	.61	6	<5	367	<10	1.61	2	17	105	372	2.42	.43	.45	1243	12	.04	13	.04	62	.10	6	<2	24	<5	.01	14	32	237	1
286757	.3	.69	<5	<5	329	<10	1.17	<1	9	88	313	2.28	.23	.49	999	4	.02	8	.04	22	.06	2	<2	18	<5	.01	<5	25	221	2
286758	3.1	1.67	46	<5	103	<10	.78	3	14	59	3120	4.03	.14	.84	704	41	.09	116	.07	108	.82	4	<2	37	8	.07	<5	50	352	290
286759	.1	.27	<5	<5	144	<10	1.18	<1	5	81	15	1.36	.09	.09	300	2	.06	3	.07	4	.01	<2	<2	40	<5	.01	<5	31	3	4
286760	1.9	.68	<5	<5	602	<10	1.21	2	10	75	455	2.66	.23	.49	1221	6	.02	7	.04	29	.12	3	<2	25	<5	.01	<5	24	270	6
286761	.5	.31	12	<5	96	<10	1.05	<1	6	96	14	1.60	.11	.11	427	4	.07	6	.09	2	.01	8	<2	42	<5	.01	<5	37	24	1
286762	1.4	1.06	<5	<5	296	<10	1.08	2	16	47	621	3.04	.24	.65	1208	7	.03	9	.05	46	.25	5	<2	20	<5	.01	<5	24	241	1
286763	1.0	1.01	8	<5	31	<10	1.99	2	10	117	499	2.49	.27	.57	1304	6	.02	8	.04	41	.09	<2	<2	24	<5	.01	<5	29	226	2
286764	.9	.91	<5	<5	1327	<10	1.67	<1	11	62	510	2.42	.21	.50	1191	2	.03	9	.04	50	.10	<2	<2	29	<5	.01	<5	24	232	5
286765	.2	.96	8	<5	268	<10	1.13	2	12	103	1715	2.77	.22	.45	1008	4	.02	8	.04	87	.34	3	<2	16	<5	.01	<5	22	203	20
286766	1.0	.95	7	<5	629	<10	1.18	<1	13	66	720	2.47	.23	.49	877	2	.03	7	.04	114	.17	3	<2	20	<5	.01	<5	21	250	1
286767	.8	1.31	26	<5	1291	<10	1.96	1	16	66	358	3.46	.22	.62	1534	5	.02	9	.05	34	.10	2	<2	32	<5	.01	6	24	262	1
286768	1.0	.91	6	<5	176	<10	.95	2	21	121	1830	2.65	.24	.43	827	31	.01	7	.04	106	.76	20	<2	16	<5	.01	<5	14	178	9
286769	1.4	1.37	7	<5	582	<10	1.52	3	19	74	575	3.45	.28	.66	1196	36	.03	11	.05	22	.22	22	<2	25	<5	.01	<5	25	228	16
286770	1.6	1.65	6	<5	274	<10	1.56	1	34	69	658	4.43	.26	.77	1538	19	.02	10	.05	17	.58	3	<2	22	<5	.01	<5	30	176	1
286771	.1	1.49	<5	<5	943	<10	2.22	<1	21	74	733	3.94	.28	.76	1637	6	.03	9	.05	12	.26	<2	<2	57	<5	.01	<5	34	140	3
286772	1.5	1.50	<5	<5	332	<10	1.60	1	25	66	475	4.13	.27	.74	1418	8	.02	10	.05	11	.34	<2	<2	22	<5	.01	<5	35	153	1
286773	.2	1.57	<5	<5	320	<10	1.34	<1	28	86	229	4.32	.26	.71	1452	11	.03	10	.05	12	.27	<2	<2	20	<5	.01	<5	30	109	1
286774	1.2	1.45	<5	<5	64	<10	.55	1	53	62	1720	4.41	.20	.75	1131	17	.04	8	.04	24	.98	<2	<2	9	<5	.01	<5	17	81	3
286775	3.2	1.88	55	<5	96	<10	.76	3	14	59	3020	4.28	.14	.81	720	37	.09	112	.07	107	.79	3	<2	34	10	.07	<5	52	356	310

ELEMENT / SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	*Au ppb
286776	.1	.24	<5	<5	139	<10	1.33	<1	5	82	12	1.31	.10	.15	509	2	.06	3	.07	2	.01	<2	<2	42	<5	.01	<5	25	15	3
286777	.9	1.58	16	<5	96	<10	.71	2	49	108	6315	4.98	.26	.80	1192	23	.04	11	.05	23	1.36	4	<2	13	<5	.01	<5	22	93	2
286778	.6	1.68	17	<5	91	<10	.65	2	30	69	4920	4.92	.23	.89	1302	4	.02	8	.05	22	.60	<2	<2	15	<5	.01	<5	28	91	2
286779	.7	1.60	12	<5	94	<10	.67	1	33	77	3125	4.70	.21	.84	1282	7	.04	9	.05	18	.58	<2	<2	13	<5	.01	<5	26	90	3
286780	.6	1.55	<5	<5	190	<10	.65	2	29	51	2210	4.40	.22	.82	1141	4	.03	10	.05	21	.38	3	<2	16	<5	.01	<5	28	122	14
286781	.3	1.25	13	<5	547	<10	1.23	1	22	91	425	3.60	.21	.60	1178	19	.04	9	.05	23	.23	2	<2	33	<5	.01	<5	26	100	6
286782	.2	1.21	<5	<5	251	<10	1.37	1	24	74	830	3.24	.24	.63	1200	28	.04	10	.05	19	.35	<2	<2	30	<5	.01	<5	22	101	3
286783	.3	2.26	13	<5	2973	<10	2.86	2	26	78	425	5.13	.26	.82	1618	2	.03	9	.05	5	.10	<2	<2	75	<5	.01	<5	34	218	2
286784	.2	1.08	7	<5	464	<10	1.50	<1	16	55	1730	2.69	.27	.43	1023	3	.02	8	.05	9	.28	<2	<2	32	<5	.01	<5	24	75	2
286785	1.3	.85	<5	<5	117	<10	1.64	2	21	29	4725	2.87	.21	.33	950	2	.03	6	.04	38	.70	<2	<2	37	<5	.01	<5	20	66	6
286786	1.6	.84	9	<5	165	<10	.71	<1	24	96	5490	2.72	.29	.31	568	10	.04	8	.05	32	1.15	<2	<2	19	<5	.01	<5	16	39	4
286787	.2	1.22	<5	<5	75	<10	2.77	1	19	62	1985	3.45	.28	.40	1485	2	.03	10	.05	15	.24	<2	<2	47	<5	.01	<5	28	134	4
286788	4.9	.87	6	<5	47	<10	.92	2	80	144	9720	6.01	.29	.27	520	47	.02	11	.04	568	4.92	<2	<2	24	<5	.01	<5	17	69	9
286789	2.2	.90	15	<5	325	<10	2.11	1	21	75	4330	2.97	.25	.33	1003	22	.03	8	.04	26	.72	3	<2	50	<5	.01	<5	18	98	6
286790	1.5	1.10	<5	<5	51	<10	1.48	2	29	74	4020	3.71	.27	.36	744	16	.03	9	.05	10	1.01	4	<2	38	<5	.01	<5	17	127	5
286791	.1	1.35	11	<5	40	<10	1.28	1	40	96	725	4.28	.28	.41	728	14	.02	12	.05	9	.81	5	<2	30	<5	.01	<5	27	175	5
286792	1.0	1.76	55	<5	149	<10	4.12	3	21	38	1050	4.45	.31	1.56	787	16	.10	24	.14	19	1.31	6	<2	130	9	.02	<5	120	115	135
286793	.1	.36	9	<5	151	<10	1.32	<1	6	82	18	1.43	.11	.33	530	1	.06	4	.07	3	.01	<2	<2	50	<5	.01	<5	31	13	1
286794	.2	1.58	<5	<5	94	<10	1.88	2	26	66	2560	4.41	.24	.57	1081	5	.04	10	.04	17	.43	3	<2	34	<5	.01	<5	22	192	2
286795	.2	1.18	<5	<5	65	<10	1.30	<1	17	135	2052	3.02	.30	.38	661	7	.03	8	.04	11	.28	<2	<2	28	<5	.01	<5	15	116	1
286796	.3	.70	16	<5	325	<10	1.55	1	9	77	2125	1.99	.22	.22	609	4	.04	6	.04	8	.28	37	<2	23	<5	.01	<5	9	70	1
286797	.2	.67	<5	<5	202	<10	1.27	<1	10	91	3446	2.00	.23	.25	615	6	.02	7	.04	11	.44	9	<2	24	<5	.01	<5	11	36	1
286798	.3	1.03	<5	<5	74	<10	.82	2	17	122	1425	2.93	.31	.42	631	11	.04	10	.06	32	.32	3	<2	17	<5	.01	<5	25	83	5
286799	.1	1.52	9	<5	95	<10	1.14	1	20	74	1780	3.95	.28	.60	866	4	.03	9	.04	2	.29	<2	<2	24	<5	.01	<5	24	116	1
286800	.3	1.39	<5	<5	85	<10	1.20	2	19	91	966	3.83	.27	.52	822	5	.02	10	.04	5	.18	<2	<2	23	<5	.01	<5	28	122	1
286801	.3	1.43	8	<5	89	<10	1.60	2	21	118	4276	4.21	.28	.55	1031	4	.03	12	.04	9	.58	3	<2	28	<5	.01	<5	27	113	10
286802	2.6	1.06	<5	<5	53	<10	.88	2	65	86	**>10,000**	5.80	.25	.47	661	6	.02	11	.04	83	3.71	3	<2	15	<5	.01	<5	19	60	8
286803	1.0	1.51	6	<5	102	<10	1.40	1	30	87	1860	4.25	.27	.60	913	54	.04	10	.05	15	.51	30	<2	23	<5	.01	<5	22	148	5
286804	.2	1.58	<5	<5	50	<10	1.51	<1	23	68	735	4.44	.24	.57	817	5	.03	12	.05	7	.13	7	<2	22	<5	.01	<5	24	164	1
286805	.5	1.16	15	<5	54	<10	1.34	2	24	114	3960	3.69	.26	.41	731	17	.04	11	.05	8	.69	23	<2	21	<5	.01	<5	22	109	4
286806	1.8	1.83	12	<5	43	<10	1.37	2	33	91	1536	5.56	.25	.73	1007	5	.02	15	.06	10	.37	15	<2	24	<5	.01	<5	33	206	1
286807	1.0	1.14	<5	<5	58	<10	1.81	<1	25	61	560	3.14	.30	.46	961	5	.04	14	.06	9	.15	9	<2	40	<5	.01	<5	23	84	3
286808	.4	.68	8	<5	322	<10	1.36	1	7	21	1572	1.34	.29	.23	536	5	.02	4	.05	7	.20	14	<2	50	<5	.01	<5	14	6	3
286809	3.2	1.82	56	<5	104	<10	.79	3	14	52	3112	4.18	.15	.77	762	41	.10	124	.07	106	.78	3	<2	32	8	.09	<5	51	378	280
286810	.1	2.49	<5	<5	120	<10	.75	<1	4	81	44	1.38	.07	.07	665	6	.07	6	.07	41	.01	9	<2	26	<5	.01	<5	34	1	4
286811	.2	2.08	<5	<5	816	<10	2.85	2	5	83	1215	1.03	.27	.15	1247	5	.04	4	.05	32	.14	32	<2	51	<5	.01	<5	13	6	1
286812	1.5	6.66	<5	<5	314	<10	2.03	1	8	42	1430	1.06	.25	.14	2642	5	.03	7	.05	96	.25	20	<2	47	<5	.01	7	16	1	1
286813	1.3	7.83	<5	<5	102	<10	1.43	1	12	17	1125	1.14	.29	.18	2681	6	.04	10	.05	117	.24	8	<2	52	<5	.01	12	21	8	3
286814	.2	.72	<5	<5	90	<10	2.04	2	10	26	1030	1.23	.33	.19	681	4	.02	6	.05	5	.13	10	<2	50	<5	.01	<5	12	43	3
286815	1.8	1.83	<5	<5	43	<10	.83	1	30	75	2560	4.63	.32	.89	910	10	.04	12	.05	10	.35	<2	<2	19	<5	.01	<5	30	70	2

ELEMENT / SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	*Au ppb
286816	.1	.68	<5	<5	54	<10	1.73	<1	14	36	726	1.79	.23	.33	670	4	.03	9	.05	13	.12	2	<2	32	<5	.01	<5	15	69	1
286817	1.4	1.62	<5	<5	48	<10	2.47	1	13	53	1020	2.02	.25	.37	1083	2	.04	8	.05	24	.12	<2	<2	35	<5	.01	<5	16	48	2
286818	.2	1.84	<5	<5	50	<10	2.69	1	14	64	825	2.41	.25	.41	1260	5	.04	10	.05	25	.12	4	<2	36	<5	.01	<5	18	62	1
286819	1.4	1.61	20	<5	38	<10	1.10	2	43	96	4052	4.37	.24	.56	814	7	.02	12	.04	24	1.75	10	<2	14	<5	.01	<5	19	88	10
286820	2.8	.88	<5	<5	84	<10	2.31	<1	12	78	920	2.11	.30	.35	938	2	.04	8	.04	4	.10	3	<2	39	<5	.01	<5	15	49	1
286821	.2	.90	<5	<5	77	<10	2.69	1	11	94	1010	2.19	.29	.34	1062	6	.02	9	.04	11	.11	6	<2	38	<5	.01	<5	16	52	6
286822	.2	.86	<5	<5	90	<10	1.39	<1	14	56	1320	2.23	.28	.33	594	4	.01	7	.04	4	.18	16	<2	25	<5	.01	<5	14	67	2
286823	1.2	.77	<5	<5	59	<10	1.99	<1	12	77	1125	2.16	.27	.29	821	5	.04	6	.04	5	.12	10	<2	31	<5	.01	<5	15	57	1
286824	1.3	.65	11	<5	58	<10	1.08	2	18	73	1620	2.38	.26	.31	600	6	.03	8	.04	4	.36	42	<2	21	<5	.01	<5	14	83	2
286825	2.1	1.14	27	<5	125	<10	1.98	1	20	113	1625	3.07	.30	.37	899	6	.04	10	.04	11	.40	38	<2	32	<5	.01	<5	20	139	1
286826	1.2	1.72	52	<5	139	<10	3.95	2	21	38	1108	4.66	.33	1.58	816	14	.14	25	.15	18	1.33	6	<2	134	10	.03	<5	117	120	130
286827	.1	.28	<5	<5	133	<10	1.96	<1	6	82	11	1.43	.13	.15	552	4	.06	4	.07	2	.01	<2	<2	50	<5	.01	<5	27	17	1
286828	1.6	.88	13	<5	50	<10	.74	1	16	108	1860	2.31	.31	.35	492	6	.03	9	.05	4	.36	43	<2	18	<5	.01	<5	18	74	2
286829	.2	1.01	15	<5	56	<10	2.74	<1	16	78	1530	2.71	.31	.42	1078	2	.04	9	.05	9	.24	<2	<2	37	<5	.01	<5	27	92	3
286830	.2	1.25	<5	<5	812	<10	3.09	2	21	62	1875	3.64	.27	.43	1282	4	.02	11	.05	10	.28	34	<2	57	<5	.01	<5	22	182	1
286831	.8	1.44	<5	<5	68	<10	1.98	<1	25	79	1030	4.13	.26	.55	885	2	.04	14	.05	9	.14	10	<2	43	<5	.01	<5	23	158	1
286832	.2	.70	<5	<5	48	<10	2.25	2	11	100	2160	2.11	.25	.34	1039	5	.01	8	.04	4	.22	2	<2	39	<5	.01	<5	15	48	1
286833	1.6	.93	6	<5	40	<10	1.35	1	15	95	2310	2.74	.23	.48	935	5	.04	11	.04	6	.24	<2	<2	22	<5	.01	<5	23	52	1
286834	1.0	.53	47	<5	77	<10	3.05	2	7	86	4960	1.91	.26	.33	1092	7	.03	6	.04	5	.47	94	<2	51	<5	.01	<5	13	101	2
286835	.2	.57	6	<5	83	<10	4.28	<1	8	43	266	1.54	.27	.31	1430	2	.04	5	.05	4	.04	13	<2	73	<5	.01	<5	15	43	1
286836	.3	.34	6	<5	72	<10	2.44	1	7	69	215	.94	.26	.25	728	5	.01	6	.05	3	.08	7	<2	61	<5	.01	<5	10	24	1
286837	.2	.66	<5	<5	67	<10	4.13	2	7	67	105	1.82	.28	.28	1334	3	.04	8	.04	10	.02	5	<2	65	<5	.01	<5	19	56	2
286838	.2	.67	8	<5	3357	<10	8.28	<1	8	71	122	1.60	.22	.31	2744	2	.03	7	.02	8	.07	4	<2	180	<5	.01	<5	17	63	73
286839	.3	.87	<5	<5	766	<10	3.72	1	10	48	146	2.13	.28	.38	1229	3	.04	10	.04	174	.03	6	<2	66	<5	.01	<5	22	84	4
286840	2.3	.52	6	<5	282	<10	3.37	1	5	67	307	1.45	.27	.24	1096	3	.04	4	.04	11	.04	14	<2	72	11	.01	<5	13	52	3
286841	1.2	.63	<5	<5	648	<10	2.79	2	10	55	470	2.37	.29	.32	1055	5	.02	7	.05	5	.06	8	<2	71	<5	.01	<5	18	82	3
286842	.8	.61	7	<5	592	<10	3.12	<1	15	76	652	2.50	.26	.41	1189	6	.04	12	.04	8	.16	9	<2	74	<5	.01	<5	19	92	53
286843	1.5	1.65	52	<5	146	<10	3.95	2	18	38	1060	4.69	.34	1.67	775	13	.14	24	.12	21	1.18	6	<2	131	11	.03	<5	118	121	120
286844	.1	.87	<5	<5	109	<10	.98	<1	5	65	26	1.42	.08	.08	584	2	.06	4	.06	30	.01	<2	<2	32	<5	.01	7	33	36	1
286845	.3	.59	<5	<5	1033	<10	5.17	2	9	62	525	1.68	.24	.36	1366	4	.03	3	.03	11	.06	19	<2	84	<5	.01	<5	16	78	3
286846	2.4	2.18	25	<5	68	<10	2.02	3	10	88	1180	1.47	.30	.25	962	9	.02	7	.04	32	.17	131	<2	32	<5	.01	10	15	117	11
286847	1.5	4.44	<5	8	684	<10	3.35	2	9	52	1735	1.97	.24	.31	2078	7	.03	8	.05	58	.21	8	<2	64	<5	.01	12	21	63	12
286848	3.5	3.10	<5	<5	528	<10	2.10	2	5	47	2520	1.20	.28	.19	1298	3	.02	6	.05	50	.17	<2	<2	45	<5	.01	<5	15	37	1
286849	.2	.61	<5	<5	2505	<10	4.60	<1	13	77	850	2.50	.32	.37	1512	7	.01	9	.04	13	.15	<2	<2	130	<5	.01	<5	16	74	1
286850	1.1	3.89	<5	<5	83	<10	2.01	2	12	59	2930	2.73	.26	.36	1036	7	.03	8	.05	55	.23	3	<2	36	<5	.01	13	28	85	1
286851	2.4	.70	34	<5	79	<10	2.12	2	18	73	3120	3.46	.30	.50	706	13	.03	11	.05	12	.38	63	<2	37	<5	.01	<5	21	138	3
286852	1.2	2.75	<5	<5	152	<10	1.57	2	26	72	8215	4.33	.32	.56	915	15	.02	13	.04	34	.94	60	<2	29	<5	.01	<5	29	162	2
286853	.8	.24	26	<5	176	<10	1.76	1	25	88	3925	4.37	.30	.66	720	16	.03	10	.04	5	.70	24	<2	36	<5	.01	<5	27	109	3
286854	2.0	.30	<5	<5	319	<10	.90	<1	28	91	5360	4.98	.29	.72	555	12	.01	11	.04	11	.67	5	<2	23	<5	.01	<5	30	98	5
286855	1.8	.54	14	<5	116	<10	1.72	1	26	66	3261	4.78	.31	.86	967	8	.03	10	.04	19	.45	7	<2	37	<5	.01	<5	29	85	1

ELEMENT / SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	*Au ppb
286856	.6	.43	7	<5	87	<10	1.28	2	31	80	5271	6.21	.30	1.10	960	11	.02	12	.04	15	.63	6	<2	26	<5	.01	<5	38	88	3
286857	.2	.81	<5	<5	45	<10	2.04	1	30	58	7430	6.57	.34	1.05	1159	6	.03	11	.04	21	.85	<2	<2	35	<5	.01	<5	41	94	1
286858	.5	1.06	<5	<5	54	<10	.72	2	29	90	3421	5.22	.33	.98	762	9	.01	13	.04	47	.46	12	<2	14	<5	.01	<5	36	93	2
286859	.2	.47	<5	<5	761	<10	.75	1	8	40	912	2.34	.27	.47	914	4	.03	6	.02	2	.15	3	<2	40	<5	.01	<5	20	158	1
286860	3.2	1.76	48	<5	105	<10	.78	2	13	60	3005	4.08	.16	.81	725	35	.10	127	.06	107	.79	7	<2	34	<5	.10	<5	53	326	310
286861	.4	.71	<5	<5	472	<10	2.14	<1	15	102	2970	3.05	.26	.36	926	8	.02	8	.03	41	.50	2	<2	32	<5	.01	<5	19	171	3
286862	5.6	.17	19	<5	61	18	1.15	1	12	77	4225	2.97	.34	.37	449	4	.04	9	.05	10	.37	26	<2	27	10	.01	<5	23	85	1
286863	.2	.32	7	<5	88	<10	1.48	2	24	79	1830	4.51	.36	.67	466	4	.03	15	.07	13	.17	10	<2	45	<5	.01	<5	38	167	1
286864	.6	.30	<5	<5	75	<10	2.71	<1	19	40	1326	4.13	.29	.66	771	2	.02	13	.07	11	.10	6	<2	58	<5	.01	<5	26	141	2
286865	1.3	1.06	16	<5	57	<10	1.98	2	20	89	4130	4.02	.32	.55	729	9	.03	12	.05	45	.49	24	<2	34	<5	.01	<5	25	124	1
286866	1.2	.99	28	<5	46	<10	1.65	2	14	65	4625	3.13	.28	.40	801	13	.01	8	.04	19	.43	62	<2	29	<5	.01	<5	20	113	6
286867	5.4	.19	107	<5	43	<10	1.89	3	33	94	>10,000	5.23	.32	.45	665	11	.03	10	.04	5	2.44	236	<2	25	<5	.01	<5	19	202	11
286868	1.8	.14	32	<5	55	11	2.21	1	15	61	2821	2.32	.33	.41	670	7	.02	8	.05	7	.43	63	<2	36	<5	.01	<5	15	92	2
286869	1.2	.58	7	<5	154	<10	3.19	2	16	48	1820	3.60	.30	.58	911	5	.03	13	.07	16	.14	36	<2	57	<5	.01	<5	24	141	1
286870	.3	2.32	<5	<5	100	<10	2.61	2	18	101	4932	3.96	.26	.77	1343	5	.01	13	.04	57	.44	<2	<2	36	<5	.01	<5	32	119	5
286871	1.0	.23	<5	<5	74	<10	3.53	1	13	83	4025	2.88	.31	.39	832	4	.03	12	.05	8	.33	37	<2	50	<5	.01	<5	22	103	3
286872	.4	.38	<5	<5	151	<10	3.22	<1	8	61	2420	2.10	.32	.31	799	2	.02	7	.06	14	.21	12	<2	56	<5	.01	<5	20	62	3
286873	.3	.98	<5	<5	287	<10	4.00	<1	13	54	1032	2.30	.30	.42	1174	2	.03	9	.06	10	.08	7	<2	72	<5	.01	<5	22	82	5
286874	.2	1.05	<5	<5	237	<10	4.24	1	16	49	825	2.51	.31	.47	1310	5	.01	11	.06	11	.08	9	<2	81	<5	.01	<5	27	105	2
286875	.8	1.03	23	<5	133	<10	2.31	2	17	98	3932	2.69	.37	.41	823	9	.03	14	.06	8	.33	19	<2	49	<5	.01	<5	26	97	1
286876	2.5	.92	6	<5	617	<10	1.96	<1	18	62	1260	2.67	.34	.40	867	7	.02	10	.07	10	.14	12	<2	61	<5	.01	<5	28	98	2
286877	1.2	1.80	51	<5	138	<10	4.10	3	22	38	1025	4.11	.33	1.62	780	15	.13	25	.11	28	1.14	3	<2	134	10	.03	<5	120	115	125
286878	.1	2.26	<5	<5	138	<10	1.06	<1	5	100	26	1.30	.12	.10	838	4	.07	5	.06	32	.01	3	<2	42	<5	.01	<5	35	51	3
286879	7.4	1.37	<5	<5	1350	<10	2.96	2	20	77	1030	2.90	.26	.53	1421	4	.03	8	.03	22	.16	<2	<2	195	<5	.01	<5	24	89	8
286880	.2	2.33	<5	<5	54	<10	1.35	1	22	52	1316	3.31	.31	.61	1878	3	.03	10	.04	48	.13	<2	<2	28	<5	.01	<5	25	105	3
286881	.3	.59	<5	<5	63	<10	.87	<1	26	68	725	3.92	.30	.87	1004	12	.01	9	.04	10	.12	5	<2	17	<5	.01	<5	29	92	3
286882	.3	.74	<5	<5	39	<10	1.01	1	22	66	726	3.41	.32	.80	1044	4	.03	8	.04	9	.09	4	<2	18	<5	.01	<5	27	81	1
286883	.6	1.55	<5	<5	38	<10	1.34	<1	23	86	2130	3.35	.31	.77	1134	8	.02	11	.04	22	.25	<2	<2	23	<5	.01	<5	29	77	1
286884	.9	1.23	<5	<5	278	<10	1.04	2	24	79	6540	3.72	.25	.75	1120	12	.03	9	.03	17	.63	21	<2	17	<5	.01	<5	27	72	1
286885	2.8	.31	6	<5	47	<10	2.01	1	12	128	>10,000	3.82	.17	.46	855	10	.01	6	.02	14	2.11	20	<2	25	<5	.01	<5	15	27	9
286886	2.4	.96	5	<5	38	<10	.95	2	19	59	3230	3.20	.28	.73	946	13	.03	9	.04	13	.28	31	<2	19	<5	.01	<5	24	87	6
286887	.8	1.71	<5	<5	39	<10	.58	1	24	77	1925	3.70	.28	.89	1034	16	.03	10	.04	28	.22	9	<2	15	<5	.01	<5	29	91	1
286888	.4	1.86	<5	<5	128	<10	.95	2	26	76	1420	4.72	.31	.95	1555	8	.02	11	.04	30	.17	8	<2	20	<5	.01	<5	36	102	1
286889	.6	2.85	<5	<5	45	<10	.87	1	22	79	1130	4.32	.35	.77	1518	5	.03	10	.04	35	.13	<2	<2	19	<5	.01	<5	35	100	1
286890	.1	2.69	<5	<5	57	<10	1.92	2	19	60	241	3.57	.27	1.03	1482	4	.01	12	.06	33	.04	<2	<2	37	<5	.01	<5	38	79	1
286891	.7	.94	<5	<5	39	<10	.94	1	26	79	1325	3.94	.29	1.21	1231	26	.03	13	.05	10	.14	5	<2	25	<5	.01	<5	34	73	5
286892	.3	2.13	<5	<5	44	<10	1.35	<1	23	61	526	3.99	.28	.98	1275	4	.02	11	.05	22	.10	<2	<2	29	<5	.01	<5	35	69	3
286893	1.8	2.74	<5	<5	34	<10	1.13	2	43	73	1430	6.38	.20	1.87	1721	220	.01	16	.04	40	.13	9	<2	28	<5	.01	<5	57	112	14
286894	3.2	1.88	52	<5	100	<10	.67	2	14	54	3105	4.38	.17	.81	747	36	.09	119	.06	99	.71	5	<2	36	9	.10	<5	56	342	290
286895	.1	.14	<5	<5	120	<10	.86	<1	7	127	285	1.67	.16	.12	401	3	.07	5	.06	7	.05	3	<2	41	<5	.01	<5	34	46	1

ELEMENT / SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	*Au ppb
286896	.2	2.66	<5	<5	37	<10	1.14	1	28	62	129	4.31	.28	1.08	1424	20	.03	11	.05	40	.01	<2	<2	30	<5	.01	<5	35	68	3
286897	.2	2.96	<5	<5	36	<10	1.19	1	24	76	525	4.23	.28	.97	1627	13	.03	10	.05	61	.05	<2	<2	26	<5	.01	<5	37	82	3
286898	1.2	2.93	<5	<5	35	<10	1.52	<1	23	68	2130	3.80	.24	.84	2013	22	.02	9	.04	47	.17	<2	<2	27	<5	.01	<5	30	58	7
286899	.4	2.31	<5	<5	33	<10	.85	2	25	61	726	3.98	.25	.95	1297	10	.03	10	.04	44	.07	<2	<2	19	<5	.01	<5	33	61	10
286900	.4	1.78	<5	<5	27	<10	.81	<1	19	132	530	2.57	.23	.64	992	90	.02	9	.02	35	.09	7	<2	18	<5	.01	<5	22	51	16
287909	.3	.19	36	<5	99	<10	.26	7	11	49	825	2.24	.24	.23	684	3	.03	8	.10	44	.01	102	<2	10	<5	.01	<5	40	751	17
287910	.3	.76	23	<5	117	<10	.20	4	8	68	526	1.79	.23	.16	696	3	.02	9	.06	25	.01	78	<2	9	<5	.01	<5	33	609	1
287911	1.4	.45	50	<5	55	<10	.12	3	6	121	532	1.08	.24	.06	237	3	.01	4	.03	26	.01	175	<2	6	<5	.01	<5	13	564	27
287912	.5	.09	10	<5	65	<10	.06	2	2	110	234	.37	.18	.03	319	3	.03	3	.02	11	<10	39	<2	4	<5	.01	<5	7	199	3
287913	.8	2.84	<5	<5	618	<10	.15	4	17	67	825	2.07	.22	.42	2656	3	.02	7	.04	105	.03	64	<2	22	<5	.01	<5	29	571	1
287914	.1	1.16	7	<5	291	<10	.19	3	12	49	930	2.55	.21	.62	1635	2	.03	10	.04	50	.01	39	<2	19	<5	.01	<5	34	1590	9
287915	.2	2.06	<5	<5	156	<10	.20	2	14	40	626	2.72	.23	.67	1421	1	.01	8	.04	63	.01	35	<2	18	<5	.01	<5	33	1516	4
287916	.1	2.18	<5	<5	147	<10	.24	3	11	41	928	2.19	.22	.52	1450	3	.03	7	.05	67	.01	24	<2	20	<5	.01	<5	31	687	1
287917	.2	2.57	<5	<5	131	<10	.20	2	12	37	395	2.60	.21	.55	1235	1	.02	9	.04	55	.05	56	<2	18	<5	.01	<5	30	354	1
287918	.5	2.51	<5	<5	133	<10	.21	3	11	44	425	2.69	.22	.69	1476	1	.03	10	.04	62	<10	30	<2	21	<5	.01	<5	43	318	4
287919	.4	2.58	<5	<5	194	<10	.19	2	12	64	360	2.67	.26	.68	1370	2	.01	11	.04	44	<10	39	<2	18	<5	.01	<5	42	274	5
287920	.3	2.87	<5	<5	204	<10	.16	1	14	68	630	2.92	.24	.70	1951	2	.03	10	.04	95	<10	33	<2	15	<5	.01	<5	49	280	2
287921	.6	.50	27	<5	235	<10	.29	3	20	70	726	3.52	.25	.69	1625	2	.02	9	.04	20	.01	53	<2	13	<5	.01	<5	37	263	7
287922	.8	2.05	53	<5	374	<10	.23	1	18	90	1305	3.54	.27	.64	2405	5	.03	12	.04	62	.01	167	<2	15	<5	.01	<5	47	270	1
287923	1.2	1.78	49	<5	142	<10	4.20	2	20	38	1060	4.36	.35	1.57	766	13	.13	24	.12	22	1.23	8	<2	136	10	.03	<5	119	121	130
287924	.1	.24	<5	<5	123	<10	.95	<1	6	86	14	1.41	.11	.07	390	2	.05	4	.06	4	.01	<2	<2	35	<5	.01	<5	33	42	5
287925	.6	1.38	60	<5	945	<10	.13	3	25	64	826	4.96	.21	.85	1532	3	.03	10	.04	20	.10	45	<2	11	<5	.01	<5	29	237	3
287926	.6	1.40	14	<5	854	<10	.68	2	20	89	276	3.48	.27	.70	1076	8	.01	9	.04	11	.22	33	<2	18	<5	.01	<5	32	189	1
287927	.6	1.04	38	<5	71	<10	.86	1	19	55	1132	3.17	.29	.69	1094	7	.03	11	.04	8	.17	33	<2	15	<5	.01	<5	24	198	1
287928	1.1	1.61	51	<5	292	<10	.73	2	24	48	1325	3.66	.28	1.13	1182	5	.02	17	.07	11	.13	47	<2	16	<5	.01	<5	35	225	8
287929	.5	1.29	<5	<5	346	<10	.37	<1	16	82	1320	2.96	.29	.76	724	6	.03	11	.04	11	.15	6	<2	8	<5	.01	<5	24	144	2
287930	.6	1.70	25	<5	563	<10	.92	1	22	53	1560	3.79	.28	.97	1098	4	.01	14	.05	15	.18	18	<2	13	<5	.01	<5	29	259	3
287931	2.1	1.61	10	<5	128	<10	.41	2	29	66	425	3.95	.27	.74	890	7	.03	11	.04	32	.25	5	<2	7	<5	.01	<5	23	203	15
287932	1.0	1.85	<5	<5	380	<10	.65	<1	36	47	529	4.59	.24	.83	1131	7	.03	9	.04	28	.34	7	<2	10	<5	.01	<5	27	209	1
287933	1.5	1.70	<5	<5	61	<10	1.10	2	22	62	1710	3.57	.27	.95	1206	4	.02	15	.06	73	.21	24	<2	13	<5	.01	<5	29	420	4
287934	4.8	1.96	56	<5	143	<10	1.31	5	25	56	3260	4.25	.29	1.12	1501	4	.03	16	.06	45	.30	114	<2	13	<5	.01	<5	36	510	22
287935	.5	2.20	8	<5	317	<10	.78	1	24	53	525	4.54	.28	1.36	1484	4	.01	15	.07	13	.07	19	<2	12	<5	.01	<5	43	357	1
287936	3.1	.53	91	<5	109	<10	8.37	4	13	42	432	1.99	.25	.57	3989	7	.03	3	.03	88	.17	145	<2	116	<5	.01	<5	14	331	3
287937	2.1	1.19	122	<5	19	<10	1.85	3	29	72	840	3.42	.29	.38	1026	11	.02	10	.04	71	.39	138	<2	25	<5	.01	<5	24	563	1
287938	1.0	1.08	105	<5	52	<10	1.19	2	22	58	542	2.84	.28	.31	648	7	.03	7	.04	51	.25	106	<2	17	<5	.01	<5	20	314	1
287939	1.1	1.63	70	<5	493	<10	.85	1	18	47	536	3.83	.29	.48	544	3	.01	10	.05	15	.11	62	<2	15	<5	.01	<5	24	313	1
287940	3.2	1.73	78	<5	105	<10	.72	2	14	68	3088	4.23	.16	.80	725	37	.09	116	.05	112	.71	5	<2	32	6	.08	<5	53	338	285
287941	.1	.33	<5	<5	155	<10	.65	<1	6	107	31	1.62	.11	.11	359	4	.07	5	.06	4	.01	2	<2	21	<5	.01	<5	36	34	1
287942	3.5	1.33	70	<5	560	<10	1.50	3	16	56	1105	2.96	.27	.42	792	6	.03	9	.04	15	.15	128	<2	17	<5	.01	<5	21	285	1
287943	1.5	1.94	39	<5	128	<10	1.85	2	23	79	420	4.43	.26	.69	1071	6	.01	11	.04	8	.13	55	<2	15	<5	.01	<5	29	339	1
287944	.7	1.58	33	<5	176	<10	1.47	2	18	82	510	3.74	.28	.54	854	4	.03	9	.04	7	.09	54	<2	13	<5	.01	<5	26	253	1
287945	.6	1.22	46	<5	420	<10	1.75	1	24	92	725	3.04	.29	.39	868	9	.02	8	.04	21	.38	58	<2	20	<5	.01	<5	21	213	2
287946	.1	1.39	<5	<5	982	<10	1.86	<1	13	91	426	3.03	.31	.42	816	3	.03	9	.04	8	.08	12	<2	23	<5	.01	<5	23	176	1
287947	1.6	1.39	173	<5	419	<10	1.60	4	19	59	2830	3.39	.26	.43	752	6	.01	11	.04	69	.42	240	<2	18	<5	.01	<5	20	310	1
287948	1.4	.92	92	<5	101	<10	1.65	2	14	72	726	2.16	.28	.34	747	11	.03	7	.04	127	.24	148	<2	19	<5	.01	<5	17	207	1
287949	1.5	1.30	78	<5	346	<10	2.29	2	20	76	1420	3.17	.27	.44	1060	4	.02	9	.04	17	.33	132	<2	22	<5	.01	<5	23	278	1
287950	1.3	.99	139	<5	383	<10	1.67	3	16	72	1210	2.42	.28	.32	798	12	.03	8	.04	178	.28	201	<2	20	<5	.01	<5	21	244	4

PIONEER LABORATORIES INC #103-2691 VISCOUNT WAY RICHMOND, BC CANADA V6V 2R5 TEL.(604)231-8165

A S S A Y C E R T I F I C A T E

Cu Analysis - 1.000 gm sample is digested with 50 ml of aqua regia, diluted to 100 ml with water and is finished by AA.

SNL ENTERPRISES LTD.
Project: Logan Copper
Sample Type: Cores

Analyst
Report No. 2102569
Date: January 15, 2010

SAMPLE	Cu %
286802	1.36
286867	1.68
286885	2.91

PIONEER LABORATORIES INC #103-2691 VISCOUNT WAY RICHMOND, BC CANADA V6V 2R5 TEL.(604)231-8165

A S S A Y C E R T I F I C A T E

Cu, Zn Analysis - 1.000 gm sample is digested with 50 ml of aqua regia, diluted to 100 ml with water and is finished by AA.

SNL ENTERPRISES LTD.
Project: Logan Copper
Sample Type: Pulps

Analyst RSelli
Report No. 2102603
Date: March 19, 2010

SAMPLE	Cu %	Zn %
2092339 284057	4.79	-
2092339 284064	3.18	-
2092339 284076	1.7	-
2092339 284117	1.33	-
2092339 284164	2.22	-
2092360 284237	4.85	-
2092360 284164	1.12	-
2092438 287536	1.81	-
2092518 287831	-	1.36