YEIP
2001-054
2001

AURORA GEOSCIENCES LTD.

GEOLOGICAL AND GEOPHYSICAL CONSULTANTS
YELLOWKNIFE, NT, CANADA
WHITEHORSE, YT, CANADA

2001 EXPLORATION PROGRAM
on the
HYLAND RIVER PROJECT,
WATSON LAKE AREA,
YUKON TERRITORY

60° 19' Lat, 128° 04' Long

NTS 105A-08

Watson Lake Mining District

Mineral Claims

ZAP 1 to 20, YB93334 to YB93353
ZAP 23 to 44, YB93354 to YB93375

Scott Casselman, B Sc , P Geo
Aurora Geosciences Ltd
January, 2002

SUMMARY

In the summer of 2001 Aurora Geosciences Ltd conducted a program involving prospecting, soil sampling, trenching, stream sediment sampling and claim staking in the Hyland River area, 55 km northeast of Watson Lake, Yukon The program targeted Selwyn Basin rocks prospective for sedimentary exhalative (SEDEX) lead-zinc-silver mineralization The area was identified as prospective through research of the Geological Survey of Canada Regional Geochemical Survey (RGS) database, which identifies a large region of anomalous lead, zinc, cadmium, barium and silver in stream sediment samples As well, the Yukon Minfile and assessment reports identified a number of SEDEX mineral occurrences in the area

The program targeted an area on the southern margin of the anomalous RGS data, where previous workers identified anomalous lead, zinc, cadmium and silver in soil Detailed soil sample surveys identified areas anomalous for the suite of SEDEX indicator elements The anomalies occur in drainage basins at roughly the same elevation around the mountain indicating that the streams are cutting down through a mineral enriched horizon which is believed to dip gently to the west

Trenches were dug on two of the stronger lead-in-soil anomalies to determine the source of the lead The trenching program was not able to exposed the source of the mineralization, however, soil profiles in the trenches identified the Pb and Zn anomalies occurring in progressively lower soil horizons as the trenches continue up slope Thus, the source of the Pb-Zn-Cd-Ba-Ag is believed to be a short distance further up slope and further trenching may expose the source

Detailed stream sediment sampling was conducted down stream of the trenches and soil anomalies to determine the dispersion pattern to aid in follow-up on other drainages in the area

Recommendations for future work on the property are to extend the existing trenches up slope to identify the source of the soil geochemical anomalies and to follow-up other soil geochemical anomalies on the property with detailed soil sampling and trenching If the source of the Pb-Zn-Cd-Ba-Ag mineralization is a buried SEDEX horizon, a gravity survey across the mountain may help to define its size and location As well, there remain numerous RGS anomalies in the region which should be followed-up with stream sediment sampling and prospecting

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1 INTRODUCTION

The Hyland River Pb-Zn-Ag Prospect is a sedimentary exhalative exploration target located 50 km northeast of Watson Lake, on the east side of the Hyland River, Yukon Territory. The prospect was identified while researching the Geological Survey of Canada Regional Geochemical Survey (RGS) data, the Yukon Minfile and assessment reports for southeastern Yukon Territory. The prospect area stood out for its highly anomalous barium, zinc, cadmium, lead and silver values in stream sediments over a sizable area (up to 15 by 40 km).

Significant Zn-Pb-Ag mineralization is known to occur in the area at the Quartz Lake (McMillan) deposit, which is located on the northeastern margin of the stream sediment geochemical anomaly. Quartz Lake hosts 1.5 million tonnes grading roughly 11% combined lead-zinc and 62 g/t silver.

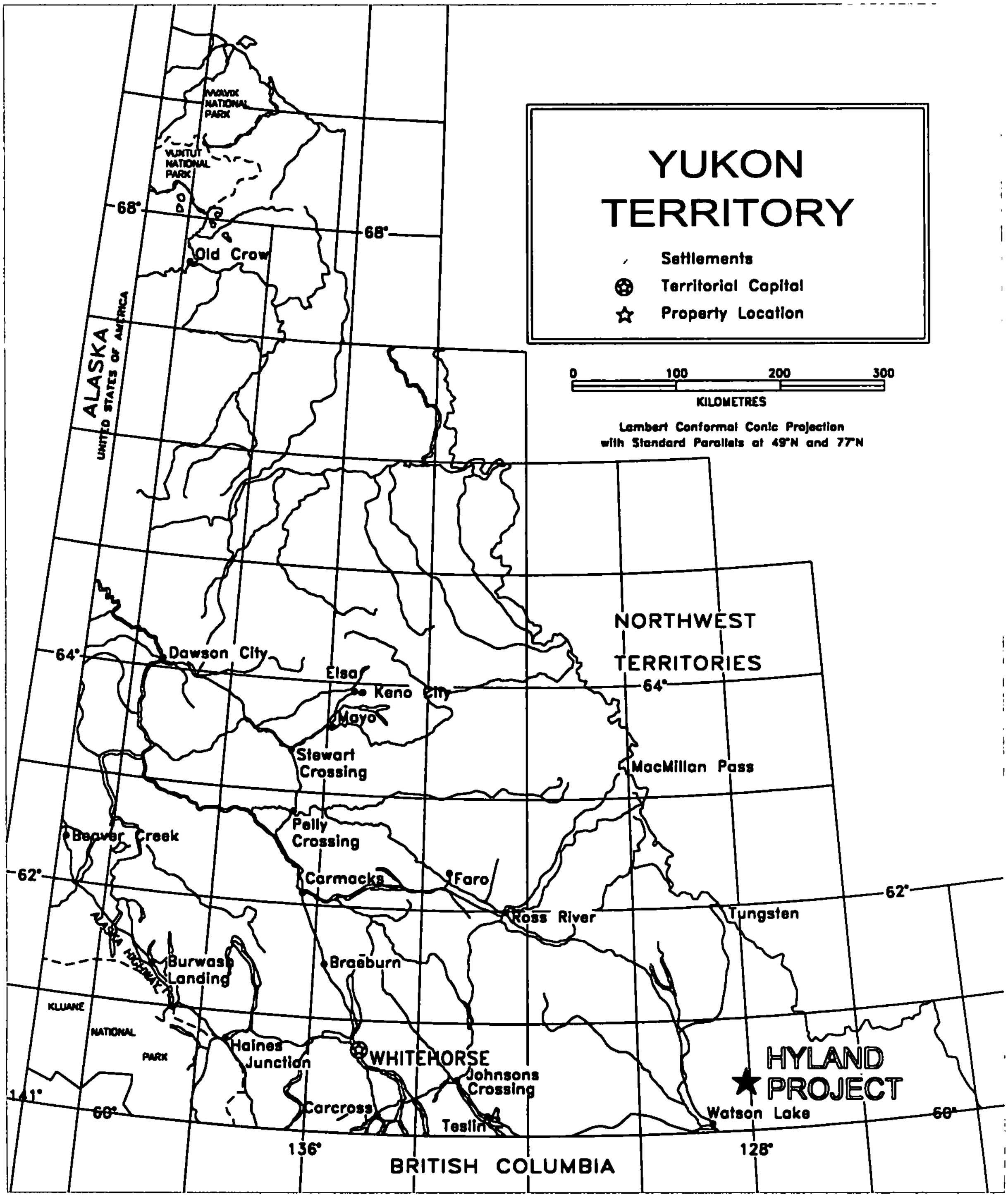
The 2001 exploration program targeted an area on the southern margin of the anomalous RGS data, where previous workers identified anomalous lead, zinc, cadmium and silver in soils and numerous anomalous rock samples (Pawliuk, 1996). The program involved following-up the soil and rock anomalies with additional soil sampling, stream sediment sampling, trenching and prospecting. As the program progressed, 42 mineral claims were staked in the core of the soil geochemical anomaly to protect the prospect.

The field work was conducted in two phases; the first phase was from July 12 to July 30 (19 days) and involved some trenching, soil sampling, prospecting and claim staking. The second phase was conducted from August 31 to September 10 (11 days) and involved trenching, stream sediment sampling and prospecting. The crew consisted of a project manager (Scott Casselman) and assistant (Peter Malacarne).

2 LOCATION AND ACCESS

The Hyland River Prospect is located 50 km northeast of the community of Watson Lake, in the Watson Lake Mining District, on NTS map sheets 105A-08 (Figure 1). The prospect is centered at 60° 19' North Latitude, 128° 04' West Longitude.

Access to the prospect for the 2001 program was by helicopter from Watson Lake. Gravel logging roads come to within 30 km of the prospect area. A winter cat trail from the Coal River Logging Road may provide access to the eastern part of the prospect area.



AURORA GEOSCIENCES LTD.	HYLAND RIVER PROJECT
PROPERTY LOCATION	MINING DISTRICT: WATSON LAKE
	NTS: 105 A\8 — SCALE 1: 6 000 000
	DRAWN BY: HDS
Aurora Geosciences Ltd.	DATE: 2001.12.19 — FIGURE: 1

PROFESSIONAL GEOSCIENTIST
PROVINCE
S. G. CASSELMAN

3 LAND STATUS

The Hyland River Prospect area has seen a fair amount of exploration activity in the past, however at present there are very few active claims The Quartz Lake (McMillan) Deposit is still staked and owned by Noranda Immediately to the east is the Hyland Gold Property of Archer, Cathro and Associates (1981) Ltd and Hemlo Gold Mines Ltd The area has a large native land claim on the west side of the Hyland River, however this claim is outside of the anomalous RGS area

During the program, 42 Quartz Claims were staked to cover the core of the prospective area The claims were recorded in the name of Aurora Geosciences Ltd on July 30, 2001 in Watson Lake Claim information is as follows

Claim Name	Grant #	Expiry Date*
ZAP 1 to 20	YB93334 to YB93353	July 30, 2002
ZAP 23 to 44	YB93354 to YB93375	July 30, 2002

* not including assessment work filed from this program

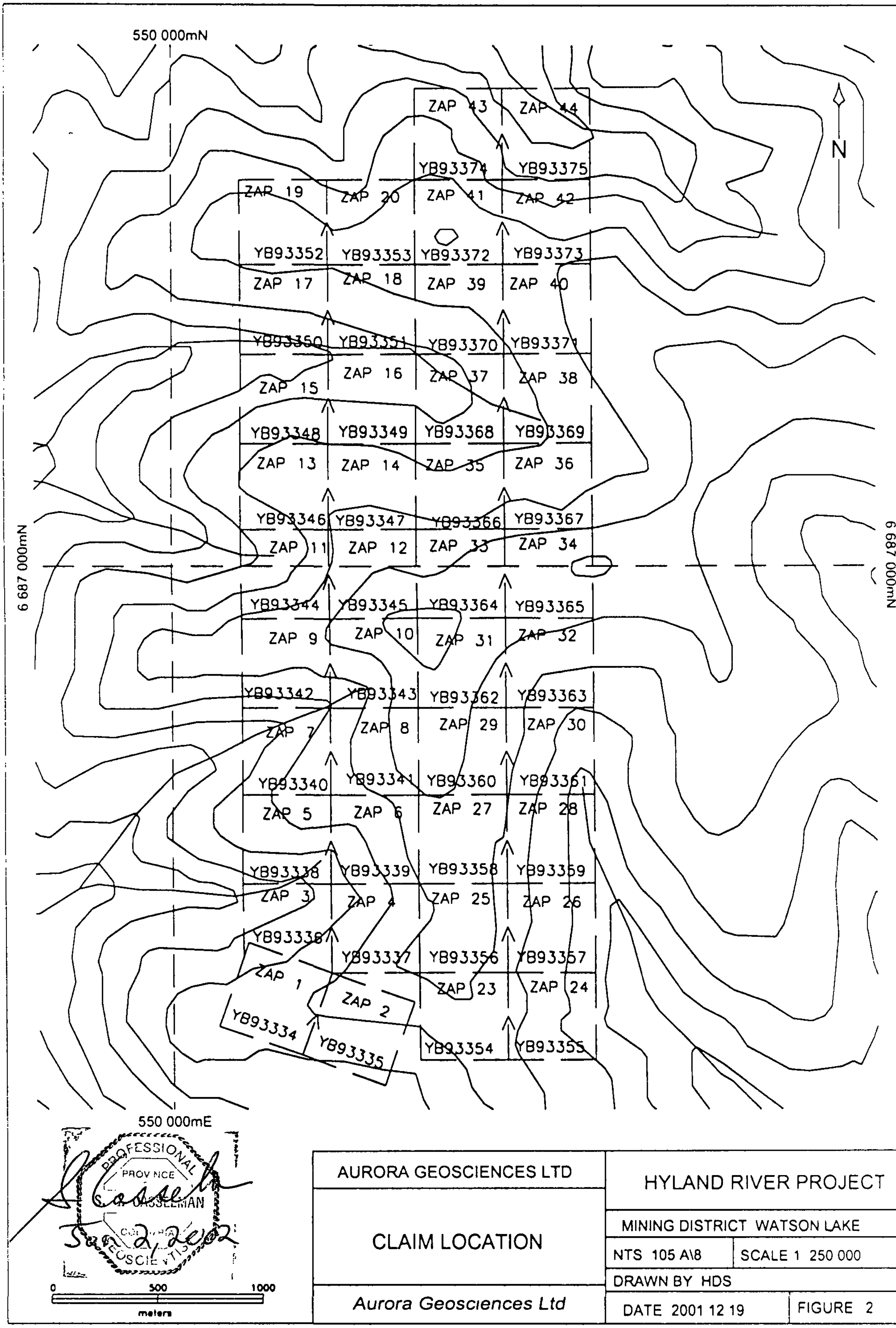
4 EXPLORATION HISTORY

The Hyland River area has been explored intermittently since 1949 The main focus of the exploration activity has been the Quartz Lake (McMillan) Pb-Zn-Ag deposit and the Hyland Gold Deposit Both of these properties are immediately east of the Hyland Pb-Zn-Ag Prospect area

The showing at Quartz Lake (Minfile # 095D 006) was discovered in 1892 and staked in 1930 The property had been explored extensively from 1949 to 1981, during which time 16,597 m of drilling was completed in 190 holes The drilling defined two ore zones, the McMillan deposit and the South Zone (300 m south of McMillan) The last documented work on the property was bulldozer trenching and soil sampling in 1990 and reclamation work in 1993

The Hyland Gold Deposit (Minfile # 095D 011) is a low-grade oxide gold deposit with open-pit potential A reserve estimate of 6 75 million tonnes grading 2 0 g/t Au has been published for the deposit, however it is based mainly on trench results The property has undergone 5,283 m of diamond and rotary drilling in 56 holes from 1954 to 1995 Archer, Cathro complete some work on the property in 1999, however details of that work are not known

In the area of the Hyland Pb-Zn-Ag Prospect there has been some scattered exploration activity for Pb-Zn-Ag and for gold In 1978, prospectors found zinc-rich black shale in an unnamed creek in the northern prospect area (Minfile # 105A 027) This lead to the staking of the GUM claims by Hudson Bay Exploration and Development Hudson Bay conducted soil sample surveys on three small grids in 1978 and 1979 and some hand trenching in 1979 The soil surveys identified four anomalous areas, which received limited follow-up and the claims were later allowed to lapse



AURORA GEOSCIENCES LTD	HYLAND RIVER PROJECT	
CLAIM LOCATION	MINING DISTRICT WATSON LAKE	
	NTS 105 A\8	SCALE 1 250 000
	DRAWN BY HDS	
Aurora Geosciences Ltd	DATE 2001 12 19	FIGURE 2

In the center of the Prospect area is the Aurum gold occurrence (Minfile # 105A 039) The showing was originally discovered in 1973, but not staked until 1981 by Kidd Creek Mines Ltd It hosts disseminated tetrahedrite, enargite and sphalerite in quartz-chlorite veins up to 20 cm wide which cut black silty to sandy limestone of the Hyland Group Archer, Cathro conducted mapping and soil sampling surveys for Kidd Creek in 1982 The property was later dropped

At the southern extent of the anomalous RGS area is the Balon Showing (Minfile # 105A 018) Render Resources Ltd staked the HY claims over the showing in 1978 and carried out mapping and soil sampling in 1979 In 1980, a joint venture between Cyprus Anvil Mining Corp and Hudson's Bay Oil and Gas optioned the HY claims and surrounded them with the SF and GS claims The joint venture conducted mapping, line cutting, soil sampling and a magnetic survey on a large widely spaced grid in 1981 The soil sampling defined some highly anomalous Pb and Zn zones These results were not followed-up and the claims were later allowed to lapse In 1994, Archer, Cathro and Westmin Resources Ltd re-staked the area as the SPK claims and carried out airborne magnetic and radiometric surveys, geological mapping, line cutting, rock, soil and stream sediment sampling This work corroborated the anomalous soil results from the Cyprus Anvil/Hudson Bay work and identified a number of anomalous barite values in rock samples throughout the area These claims were allowed to lapse on March 16, 2000 It is in this area that Aurora focused its exploration program in 2001

5 REGIONAL GEOLOGY

The Hyland River area in southeastern Yukon is at the southern limit of the Selwyn Basin, just north of the Kechika Basin The southern part of the Selwyn Basin is underlain from bottom to top by Upper Proterozoic to Cambrian Hyland Group, Upper Proterozoic to Paleozoic Gog Assemblage, Upper Cambrian Rabbitkettle Formation of the Rocky Mountain Assemblage, and Devonian to Mississippian Earn Assemblage

The Hyland Group is divided into two formations the lower Yusezyu Formation and the upper, Narchilla Formation The Yusezyu Formation is up to 3,000 m thick and is dominated by coarse-grained clastic rocks with interbedded shale and minor limestone The upper part of formation is variably calcareous and in many places is capped by a fine grained, light to dark gray limestone member

The Narchilla Formation conformably overlies the Yusezyu Formation and has been divided into three members The lowest member is up to 300 m thick and consists of blue-gray to green weathering slate, commonly laminated The middle member is thin to thick bedded, fine-grained quartz sandstone and siltstone about 70 m thick The upper member is more than 400 m thick and consists mainly of blue-gray slate, which, in its upper part, weathers to apple green The strata of the Hyland Group can be traced southward into the northern Rocky Mountains as far as the Gataga River area

The base of the Gog Assemblage is marked by carbonate rocks of the Risky Formation This formation occurs a short distance below the base of the Cambrian and is tentatively correlated with the carbonate at the top of the Yusezyu Formation (Gabrielse, et al , 1992) In the Hyland River area, the Risky Formation is overlain by the Vampire Formation, also of the Gog Assemblage The Vampire Formation is comprised of dark gray siltstone and shale interbedded with light brown, very fine grained quartzite Abundant slump folds suggest a slope environment

The Rabbitkettle Formation is up to 1200 m thick and is comprised of craton-derived, dark gray and black, non-calcareous argillite, slate and phyllite, buff and gray calcareous, phyllitic limestone, phyllite and slate and minor wavy-banded silty limestone

The capping rocks of the Selwyn Basin in southeast Yukon are of the Earn Group They are thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke, thick members of chert pebble conglomerate, black siliceous siltstone, nodular and bedded barite and rare limestone

The rocks exhibit low-grade regional metamorphism The strata are generally flat lying to shallowly dipping with local undulations due to gentle folding Faulting in the area is dominated by two structures, a low angle fault on the east side of the prospect (the Green River Fault), dipping to the west, and a normal fault to the west with west side down

Intrusive rocks in the Hyland River area occur mainly to the north and west They are Mid Cretaceous quartz monzonite, granodiorite, quartz-diorite and syenite of the Mt Billins Batholith

6 HYLAND RIVER PROSPECT GEOLOGY

Much of the bedrock in the area is overlain by unconsolidated glacial and glacio-alluvial deposits, which can be up to 50 m in the Hyland River valley floor The glacial cover decreases up slope Outcrops are scarce on mountain slopes, however on the mountain tops the cover is much thinner and outcrop is more evident Hence, the detailed geology of the area is poorly understood Most local mapping has been confined to canyon walls in deeply incised creek valleys and on mountain tops

The area is underlain by Hyland Group sediments consisting of green and purplish, gray to maroon phyllite, coarse quartz and feldspar grit, shale and limestone, probably of the Narchilla Formation These rocks have been subject to low grade regional metamorphism and have been intruded by numerous, randomly oriented, quartz feldspar porphyry dykes of probable Cretaceous age

7 2001 WORK PROGRAM

The 2001 work program on the Hyland Prospect consisted of following-up anomalous rock and soil results from Westmin's 1995 work in the area to determine the source of the anomalies The program was completed in 2 phases, the first phase consisted of prospecting, soil sampling, trenching at Trench #1 and staking of 42 quartz claims, the second phase consisted of prospecting, trenching at Trench #2 and stream sediment sampling

In most instances, the follow-up of the 1995 anomalies was hampered by the inability to find old sample flags and the lack of outcrop It was decided to follow-up the anomalies with detailed soil sampling to better define the anomaly and to allow for a more focused trenching program

Detailed soil lines were run over four anomalous soil areas from the 1995 survey The samples were collected at 10 or 20 m intervals Soil sample lines are shown on Figure 6 with lines from the 1995 survey The 2001 soil results were combined with Westmin's 1995 soil data to generate plots for lead, zinc, cadmium and silver (Figures 7 to 10)

Two trenches were dug on lead soil anomalies to determine the source of the lead in soils The trenching involved digging a series of pits approximately 1 m wide, by 2 to 3 m long along the slope and up to 3 m deep to expose bedrock At Trench #1, 3 pits were dug (Figure 4), at Trench #2, 4 pits were dug (Figure 5) Two rock samples were collected from the pits at Trench #1 (ZAP01-001, 002) and one sample of clayey overburden (ZAP01-003) From the pits at Trench #2 soil profile samples were collected from each of the different soil horizons (generally 4 samples per pit) and a sample of bedrock at the bottom of each pit (ZAP01-005 to ZAP01-008) Rock and trench sample descriptions are included in Appendix II

Stream sediment samples were collected at 200 m intervals on the stream draining the area of the two trenches (Figure 3) to determine the down-stream dispersion pattern of the base and precious metals

All soil, stream sediment and rock samples were air dried in camp prior to shipping to Acme Analytical Labs in Vancouver for processing The sample processing for soil and stream sediment samples consisted of further drying at the lab and sieving to -80 mesh One gram of -80 mesh material was then analyzed for 35 elements (including gold and silver) by aqua regia digestion and Inductively Coupled Plasma emission spectroscopy (ICP) The sample processing for rock samples involved crushing to 70% at -10 mesh and pulverizing 100 gm to -230 mesh A 1 gm sample of the pulverized material was then analyzed by aqua regia and ICP analysis as for the soil and stream sediment samples The geochemical analytical certificates are included in Appendix III

8 RESULTS

The detailed soil sample program corroborated the anomalous Pb-Zn-Cd and Ag zones on the property and helped define the anomalous pattern An interesting feature of the anomalous pattern is that the highly anomalous areas occur in deeply incised creek valleys at roughly the same elevation, between 3,600 and 4,200 feet (see Figures 7 to 10) This anomalous pattern indicates two features first, where the creeks cut through the overburden they expose a Pb, Zn, Cd, Ag-rich horizon, second, because the anomalies are occurring at roughly the same elevation around the mountain, this horizon is probably relatively flat lying

The trenches were dug to test one of these anomalies on the west side of line 250 S Trench #1 reached broken shaley bedrock, but failed to identify the source of the anomalous Pb-Zn-Cd-Ag in soil Trench #2 was dug 50 m east of Trench #1 It encountered similar broken shale and also failed to identify the source of the soil anomalies However, soil profiles from the four pits at Trench #2 identified anomalous Pb and Zn values in progressively lower soil horizons in the pits dug up slope Thus, the source of the Pb-Zn-Cd-Ag anomaly is believed to be a short distance further up slope

The stream sediment sampling program returned anomalous Pb-Zn-Cd-Ag-Ba results down stream of the soil anomaly on line 250 S The anomalies for all elements, with the exception of barium, generally decrease at a fairly regular interval down stream This pattern corroborates the source of the anomaly to be near the are of trenching

9 CONCLUSIONS AND RECOMMENDATIONS

The soil sampling, stream sediment sampling and trenching program on the Hyland River Project confirmed the anomalous Pb-Zn-Cd-Ag-Ba values in the area and helped to better define soil anomalies from previous work The trenches, however failed to locate the source of the anomalous Pb-Zn-Cd-Ag mineralization

Recommendations for future work on the property are to conduct

1) More detailed soil sampling across the slope in other drainages to test the theory of a mineralized horizon being cut by creeks
2) Extending the trenches up slope to look for the source of the anomalous values
3) A gravity survey across the mountain to determine if there is a buried SEDEX horizon which may not be readily exposed by trenching

Respectfully Submitted,

Scott Casselman, B Sc , P Geo

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11 STATEMENT OF EXPENDITURES

Phase 1 (costs ıncurred before recordıng of claıms)

Wages	S Casselman	6,650 00	
	P Malacarne	2,850 00	
	B Stırlıng	175 00	
Helıcopter Charter (4 8 hrs @ $ 1013 18)		4,863 27	
Camp equıpment rental (19 days @ $50/day)		950 00	
Vehıcle rental (3 days @ $75/day)		225 00	
Fuel		238 73	
Supplıes		4 82	
Grocerıes		857 30	
Maps/Publıcatıons/Photocopıes		132 21	
Communıcatıon		393 45	
Total Phase 1		18,754 78	17,804 78

Phase 2 (costs ıncurred after recordıng of claıms)

Wages	S Casselman (11 days @ $350)	3,850 00	
	P Malacarne (11 days @ $150)	1,650 00	
Helıcopter Charter (4 8 hrs @ $ 1013 18)		1,823 73	
Camp equıpment rental (11 days @ $50/day)		550 00	
Vehıcle rental (2 days @ $75/day)		150 00	
Fuel		150 80	
Supplıes		32 95	
Grocerıes		431 66	
Maps/Publıcatıons/Photocopıes		143 74	
Communıcatıon		120 00	
Freıght		171 73	
Analytıcal costs		2,848 55	
Expedıtıng		40 00	
Report Wrıtıng and reproductıon costs		2,500 00	
Total Phase 1		15,013 16	14,463 16
Project Total			32,267 94

STATEMENT OF QUALIFICATIONS

I, Scott Casselman, residing at 33 Firth Road, Whitehorse, Yukon Territory, Y1A 4R5, certify that

1) I graduated from Carleton University, Ottawa, Ontario, with a Bachelor of Science Degree in Geology in 1985

2) I have practised the profession of geology since graduation and that I am a currently employed by Aurora Geosciences Ltd

3) I am a member of the Association of Professional Engineers and Geoscientists of British Columbia, Registration No 20032

4) I conducted the field program on the Hyland River Property described in this report

Dated this 2th day of January, 2002, at Whitehorse, Yukon Territory

Scott G Casselman, B Sc , P Geo

APPENDIX I

DAILY LOG

Hyland River Project

Field Log (2001)

Crew	Project Geologist - Scott Casselman Field Assistant - Peter Malacarne
July 9	Organize, prepare and pack field gear at warehouse
July 10	Organize maps in office, purchase food and necessary gear from Whitchorse
July 11	Pick-up old reports from library, load gear for departure next morning
July 12	Travel to Watson Lake, purchase groceries, Helicopter to site and set-up camp Clear and warm in evening
July 13	Sunny throughout day Complete camp set-up in am Organize field equip and maps and do local traverse
July 14	Clear in am, starts raining at 2 30 pm, rains through night Prospecting traverse west of camp to look for anomalous sample #95DPR374 from 1995 Westmin program Locate 1995 soil survey lines (station marking generally legible), unable to locate old sample
July 15	Pouring rain in am, slows by 1 00 pm Prospecting traverse on 1995 soil grid to check out anomalous soil results on Line 1000 S and 750 S Re-establish lines by flagging and re-marking station tags Minor outcrop observed – mainly dark gray shale with abundant quartz veining Unable to determine cause of soil anomalies
July 16	Overcast in am, clearing in pm Decide to dig test pits at site of highly anomalous Pb in soils at L250 S / 2350 W (700 ppm Pb) Dig 3 pits, Pit 1 at 7 m below sample site, pit 2 at sample site and pit 3 at approx 10 m above sample site Encounter dark gray, fissile shale at depth of 2 0 m in pit 1 and pit 2 – no sulphides evident
July 17	Overcast in am, raining in pm Continue digging on pit 3 at L250 S / 2350 W At depth of 0 7 m encounter very hard-packed , partially frozen clay layer with shale fragments – very difficult digging Wet clay oozes down slope and begins burying lower pits
July 18	Rains off and on throughout day Continue to work on pit 3 – not much success in wet weather Clay continues to ooze into pits 1 and 2 Decide to abort pitting and sample material that's exposed Sample shale at bottom of pits 1 and 2, and clay at top of pit 3

July 19 Overcast in am, clearing through day Lay out detailed soil sample program (10 to 20 m sample spacing) to delineate anomalies from 1995 program Soil sample Line 2500 W from 200S to 740 S and L 2300 W from 200S to 400S

July 20 Clear and sunny through day Prospect southwest of camp (L1000 S) Stake claims in SW corner of 1995 grid along old claim line Stake ZAP 1 and 2 claims

July 21 Clear, sunny and very hot Peter continues staking and prospecting along SW line Stakes ZAP 3, 4, 5 and 6 Scott looks for claim line 914 m east of Peters line and stakes ZAP 23, 24, 25, 26

July 22 Clear and warm Camp day, organize samples to send out Helicopter in with groceries at 10 30 am, samples out Helicopter in again at 4 30 pm for visit while in area

July 23 Clear and warm through day Continue staking and prospecting to north Peter stakes ZAP 7 to 12, Scott stakes ZAP 27 to 40 Locate a number of cut and blazed lines running roughly E-W

July 24 Clear in am, clouding over in pm Finish staking – Peter does ZAP 13 to 20, Scott does ZAP 41 to 44

July 25 Partially overcast in am, clears through day Write-up claim forms in am Continue soil sampling on L 2300 W from 750 S to 600 S, L 600 S from 2300 W to 2700 W and L 2100 W from 200 S to 350 S

July 26 Clear in am, partially cloudy in pm Soil sample line 2500 W from 750 S to 1200 S and L 2300 W from 750 S to 1100 S

July 27 Clear sunny and hot Soil sampling in SE part of 1995 grid Run lines 900 S and 1100 S from 800 W to 1500 W

July 28 Clear and sunny Peter runs soil line 700 S from 800 W to 1500 W, Scott prospects and locates baseline and GPS coordinates for 0 W / 1000 S, 0 W / 0 N and 0 S / 1500 W

July 29 Overcast through day Soil sample to northwest on lines 2100 W from 800 N to 300 N and L 2300 W from 860 N to 300 N

July 30 Clear and warm Demob to Watson Lake and drive to Whitehorse for break Ship samples for analysis Leave camp in for return and follow-up in late August

July 31 to August 30 – On break

Aug 31	Peter and Scott drive to Watson Lake and mobilize to Hyland camp Set-up camp in evening and prepare for fieldwork next day
Sept 1	Clear in am, clouds over through day Go to site of anomalous soils at L 2300 W , 240 to 270 S Dig pits to locate source of anomaly
Sept 2	Partially cloudy through day Continue digging pits at L 2300 W / 270 S Pit 4 at 265 S, Pit 5 at 270 S Hit bedrock in Pit 4 at 3 0 m and Pit 5 at 2 5 m
Sept 3	Partially cloudy and cool Continue pitting on pits 4 and 5
Sept 4	Rainy in am, clears through day Sample pits 4 and 5 with 1 rock sample each and 4 soil samples each at each different horizon Start on Pits 6 and 7 at 275 and 280 S, respectively
Sept 5	Partially cloudy minor showers through day Continue digging on pits 6 and 7
Sept 6	Partially cloudy, windy and cool Prospect and survey in old grid points to coordinate old soil data with new data
Sept 7	Overcast and cool Organize and pack dried samples Generator break down in am – attempt to fix with no luck
Sept 8	Overcast and cool, minor rain Finish pitting on pit 6 and 7 Sample pits with one rock sample at base of each pit and 9 soil samples of various horizons No sulphide mineralization found in any of pits 4 through 7 Highly anomalous Pb in soils not explained
Sept 9	Overcast and cool with showers in afternoon Traverse west of camp down creek to 2500 ft elevation Stream sediment sample up creek at 200 m sample intervals (10 samples) Lots of outcrop evident at lower elevations along creek -- mainly dark gray shale with qtz veins
Sept 10	High overcast in am with ice on standing water Helicopter arrives at 12 30 Demob all gear to Watson Lake and drive to Whitehorse

End of Field Program

APPENDIX II

SAMPLE DESCRIPTIONS

Rock Sample Descriptions

Sample #	Grid N	Grid E	UTM E (NAD 27)	UTM N (NAD 27)	Comments
ZAP01-001	-250	-2350	550416	6686166	Sample from bottom of pit (3 m) in Trench #1 Fissile black shale from crumbly subcrop with grey clay beds Has 3 cm qtz vein with minor FeOx on fractures
ZAP01-002	-253	-2350	550416	6686163	Sample from bottom of pit in Trench #1, 3 m upslope from ZAP01-001 Fissile black shale from crumbly outcrop
ZAP01-003	-258	-2350	550416	6686158	Sample of clayey-shaley layer (50 cm deep) from Trench #1, 3 m upslope from ZAP01-002 Grey clay soil with shale fragments (not outcrop) Hard packed clay with up to 40% dark grey to black shale fragments Some felsic dyke fragments and quartz pebbles in clay
ZAP01-004	-900	-840	552090 4	6686118 9	From soil sample hole Grey sandstone/siltstone with up to 3% very fine-grained disseminated pyrrhotite Slightly magnetic, very dense May be slightly silicified
ZAP01-005	-270	-2300	550467 6	6686189	Sample from bottom of pit in Trench # 2 Rubbly black shale outcrop with micaceous mineral partings Very hard and siliceous, minor quartz veins cross cutting bedding with white clay mineral in occassional vein Very fissile with minor FeOx on fractures No sulphides evident Bedding strikes 160, dips 14 west
ZAP01-006	-265	-2300	550468	6686194	Sample from bottom of pit in Trench # 2, 5 m north of ZAP01-005 Dark grey, slightly crenulated shale with steeply dipping quartz veins striking 60 deg and dipping to south Very platey and fissile Much softer with very fine grained micaceous minerals and not as siliceous as ZAP01-005 Bedding stikes 220 and dips 24 to NW
ZAP01-007	-280	-2300	550467	6686179	Sample from bottom of pit in Trench # 2, 10 m south of ZAP01-005 Dark grey, slightly crenulated shale
ZAP01-008	-285	-2300	550467	6686174	Sample from bottom of pit in Trench # 2, 5 m south of ZAP01-007 Dark grey, slightly crenulated shale
ZAP01-009					

Trench Sample Descritptions

Sample #	Grid N	Grid E	UTM E (NAD 27)	UTM N (NAD 27	Depth (m)	Comments
TR-001	-270	-2300	550467 6	6686189	20 to 50 cm	Re-sample of "B-horizon" material Orange, sandy, bouldery clay with clasts of shale and shale with quartz veins (with FeOx) and rare, rounded cobbles of granitic rock
TR-002	-270	-2300	550467 6	6686189	50 to 120 cm	Light grey clay layer with up to 30% clasts (5 to 60 mm) of shale, quartz and occassional grantic clast
TR-003	-270	-2300	550467 6	6686189	120 to 190 cm	Mixed, interbedded fine shale fragment layers and clay layers Shale layers to 7 cm thick, clay layers to 10 cm thick
TR-004	-270	-2300	550467 6	6686189	190 to 260 cm	Tan to grey clay layer with 70% clay and 30% shale clasts (to 5 mm) Rare to no granitic clasts
TR-005	-265	-2300	550468	6686194	20 to 50 cm	"B-horizon" material
TR-006	-265	-2300	550468	6686194	50 to 150 cm	Grey clay layer with up to 30% clasts of shale (5 to 60 mm), quartz and occassional grantic clast
TR-007	-265	-2300	550468	6686194	150 to 250 cm	Mixed, interbedded fine shale fragment layers and clay layers Shale layers to 7 cm thick, clay layers to 10 cm thick
TR-008	-265	-2300	550468	6686194	250 to 350 cm	Tan to grey clay layer with 70% clay and 30% shale clasts (to 5 mm) Rare to no granitic clasts
TR-009	-280	-2300	550467	6686179	20 to 50 cm	"B-horizon" material
TR-010	-280	-2300	550467	6686179	50 to 120 cm	Grey clay layer with up to 30% clasts of shale (5 to 60 mm), quartz and occassional grantic clast
TR-011	-280	-2300	550467	6686179	120 to 190 cm	Mixed, interbedded fine shale fragment layers and clay layers Shale layers to 7 cm thick, clay layers to 10 cm thick
TR-012	-280	-2300	550467	6686179	190 to 240 cm	Tan to grey clay layer with 70% clay and 30% shale clasts (to 5 mm) Rare to no granitic clasts
TR-013	-280	-2300	550467	6686179	240 to 290 cm	Predominently shale layer with lessor clay
TR-014	-285	-2300	550467	6686174	20 to 50 cm	"B-horizon" material
TR-015	-285	-2300	550467	6686174	50 to 120 cm	Grey clay layer with up to 30% clasts (5 to 60 mm) of shale, quartz and occassional grantic clast
TR-016	-285	-2300	550467	6686174	120 to 190 cm	Mixed, interbedded fine shale fragment layers and clay layers Shale layers to 7 cm thick, clay layers to 10 cm thick
TR-017	-285	-2300	550467	6686174	190 to 240 cm	Predominently shale layer with lessor clay

Silt Sample Locations

Sample #	UTM E (NAD 27)	UTM N (NAD 27)	Elevation (ft)
SLT01-001	548768	6685320	2890
SLT01-002	548964	6685297	2948
SLT01-003	549161	6685329	2990
SLT01-004	549355	6685330	3033
SLT01-005	549501	6685447	3096
SLT01-006	549640	6685570	3162
SLT01-007	549747	6685710	3279
SLT01-008	549743	6685705	3387
SLT01-009	549990	6686004	3444
SLT01-010	550166	6686074	3528

APPENDIX III

GEOCHEMICAL ANALYTICAL CERTIFICATES

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Aurora Geosciences Ltd. PROJECT Hyland R. File # A102662

P O Box 31097, 11 & 12 -, Whitehorse YT Y1A 5P7 Submitted by. Scott Casselman

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
ZAP01-001	13 8	139	222	437	2 0	47	4	401	2 96	56	9	<2	6	173	5 5	3.3	< 5	386	56	274	12	91	26	553	089	2	1.14	.024	27	1	<1	2 9	2	.22	5
ZAP01-002	22 8	48	61	183	1 7	16	1	88	1 24	29	10	<2	5	130	3 1	4 1	< 5	255	33	175	14	37	10	1466	079	6	.78	.015	21	1	<1	2 0	<1	.09	3
ZAP01-003	13 6	91	136	353	1 3	46	5	486	1 63	36	9	<2	4	112	4 7	5.0	< 5	438	55	227	18	81	25	1916	077	8	1.03	.011	19	2	<1	2 9	<1	.08	4
ZAP01-004	3 0	33	9	39	2	36	16	145	3 29	3	<1	<2	3	153	1 2	<.5	< 5	36	1 46	172	11	62	26	82	163	1	2.04	.150	12	1	1	2 3	1	1 20	6
RE ZAP01-004	2 9	34	9	40	2	37	17	148	3 35	3	1	<2	4	155	1 3	5	< 5	36	1 48	.176	12	63	27	82	165	<1	2.07	.153	12	1	<1	2 4	<1	1 22	6
STANDARD C3	25 8	67	33	171	5 8	35	11	796	3 39	64	23	2	20	26	24 7	14 6	22 9	80	56	085	18	168	59	145	085	17	1.81	033	15	14	1	4 2	3	02	8
STANDARD G-2	1 5	3	2	42	< 1	7	4	542	1 97	<1	3	<2	4	65	< 2	< 5	< 5	40	63	092	7	73	58	203	.127	<1	.93	.066	45	2	<1	2 4	1	< 02	5

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY OPTIMA ICP-ES
UPPER LIMITS - AG, AU, HG, W = 100 PPM, MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM, CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK R150 60C   Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns

DATE RECEIVED: AUG 10 2001 DATE REPORT MAILED: Aug 21/01 SIGNED BY........D. TOYE, C LEONG, J WANG, CERTIFIED B C ASSAYERS

Data FA

AC[redacted]ANA[redacted]CAL [redacted]ORA[redacted]IES [redacted]. [redacted]52 [redacted]AST[redacted]S ST [redacted]ANC[redacted]R BC [redacted]6A [redacted] [redacted]ONE [redacted])25[redacted]58 [redacted](604[redacted]3-1[redacted]
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Aurora Geosciences Ltd. PROJECT Hyland R. File # A103175

P O Box 31097, 11 & 12 -, Whitehorse YT Y1A 5P7 Submitted by Scott Casselman

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
SI	4	4	<2	2	< 1	1	<1	6	02	1	<1	<2	<1	4	< 2	< 5	< 5	<1	14	001	<1	2	< 01	8	< 001	<1	02	062	01	<1	<1	2	<1	< 02	<1
ZAP01-005	22 4	71	35	231	1 0	24	1	97	78	10	6	<2	2	56	3 4	2 6	< 5	503	20	086	6	43	07	2707	060	4	55	009	15	1	<1	1 5	<1	02	2
ZAP01-006	19 3	49	28	254	6	26	1	133	86	13	8	<2	5	69	2 7	1 0	< 5	363	22	101	10	37	10	2083	053	4	59	010	17	2	<1	1 7	<1	03	3
ZAP01-007	8 1	23	92	120	1	25	<1	903	64	13	2	<2	<1	55	.5	1 1	< 5	90	38	131	3	44	04	491	012	122	.27	005	02	3	<1	7	<1	< 02	<1
ZAP01-008	25 8	69	109	109	1 5	24	1	275	79	8	12	<2	2	493	11 0	3 0	< 5	691	3 02	1 473	15	47	16	3138	052	10	83	010	21	4	<1	2 5	<1	04	4
ZAP01-009	41 4	108	250	193	1 2	32	1	239	82	7	7	<2	2	33	2 9	2 5	< 5	661	15	073	6	32	13	1550	049	3	47	006	10	1	<1	1 9	<1	< 02	3
RE ZAP01-009	40 8	106	251	197	1 1	34	1	241	85	7	7	<2	1	32	2 9	2 5	< 5	675	15	071	6	33	13	1482	047	4	45	006	10	1	<1	1 9	<1	02	3
STANDARD DS3	8 8	113	30	153	3	35	11	786	3 04	28	6	<2	4	27	5 2	5 3	5 2	73	51	090	15	177	55	158	091	3	1 68	028	16	3	<1	3 9	1	02	6

GROUP 1DX - 0 50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES
UPPER LIMITS - AG, AU, HG, W = 100 PPM, MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM, CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM
- SAMPLE TYPE· ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns

DATE RECEIVED· SEP 17 2001 **DATE REPORT MAILED:** Sept 26/01 **SIGNED BY**..........D TOYE, C LEONG, J WANG, CERTIFIED B C ASSAYERS

Data FA

A[redacted]ANA[redacted]CAL[redacted]BORA[redacted]IES[redacted]. [redacted]52 [redacted]AST[redacted]S ST[redacted]ANC[redacted]R B[redacted]76A [redacted] [redacted]ONE[redacted])25[redacted]58 [redacted](604[redacted]3-1[redacted]
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Aurora Geosciences Ltd. PROJECT Hyland R. File # A103177

P O Box 31097, 11 & 12 -, Whitehorse YT Y1A 5P7 Submitted by Scott Casselman

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
SI	1 0	2	2	36	< 1	4	3	439	1 60	1	3	<2	6	65	< 2	< 5	< 5	30	48	096	8	12	.43	205	119	2	74	062	38	2	<1	2 1	<1	< 02	4
TR-001	42 0	120	1939	1023	2 0	133	18	1746	2 56	58	14	<2	7	149	5 6	4 4	5 2	1174	57	284	27	114	52	2390	102	4	1 60	.010	13	10	<1	3 3	<1	06	6
TR-002	48 7	152	1916	1069	2 4	135	16	1517	2 47	61	16	<2	7	144	6 1	4 8	4 2	1222	59	265	27	107	57	2770	132	2	1 57	.010	16	7	<1	4 3	1	07	6
TR-003	37 9	170	510	885	2 6	120	13	1199	2 95	86	22	<2	9	185	10 9	8 6	1.8	1295	75	242	30	97	43	1612	173	8	1 68	020	27	3	<1	6 2	1	11	7
TR-004	31 2	151	295	705	1 7	86	7	650	3 07	61	15	<2	9	121	9 0	8 6	1.1	847	37	183	23	64	37	303	148	4	1 26	026	27	1	<1	4 2	1	31	5
TR-005	32.4	103	1892	967	1 7	126	14	1473	2 73	56	11	<2	7	141	4 8	4 1	4 2	1167	63	324	26	123	55	2142	103	5	1.61	009	12	11	<1	3 5	<1	08	6
TR-006	24 6	145	323	684	1 5	85	8	775	2 63	55	13	<2	8	133	7 5	6 3	1 0	752	43	198	24	59	33	1174	121	3	1.14	013	17	1	<1	4 2	<1	14	5
TR-007	35.5	151	223	789	1 6	76	6	501	3 53	60	13	<2	9	115	8 4	8 9	1 0	634	34	194	21	48	31	277	145	3	1 16	025	28	1	<1	3 9	1	36	5
TR-008	30.1	168	301	834	1 8	87	9	632	3 35	61	13	<2	9	126	9 9	8 1	8	649	36	200	23	53	35	449	138	2	1.37	022	25	1	<1	3 8	1	26	5
RE TR-008	29 3	169	305	843	1.7	86	9	633	3 28	60	14	<2	10	124	9 9	7 9	8	644	36	193	23	52	.35	425	138	5	1.33	022	25	1	<1	3 8	1	26	5
TR-009	14 4	60	277	372	7	48	5	302	2 87	49	5	<2	6	58	2 0	2 5	5	473	26	239	19	66	30	1087	068	2	1.46	006	09	1	<1	2 5	<1	08	6
TR-010	50 6	117	2663	956	1.8	129	16	1825	2 83	52	9	<2	7	99	7 1	3 2	8 5	1159	43	236	25	102	49	1676	088	2	1 67	007	11	9	<1	3 6	<1	06	7
TR-011	32 7	153	2312	1944	1 2	388	34	3481	2 91	82	23	<2	11	227	13 9	5 8	8 6	2333	1 51	272	47	202	97	4401	204	7	2.58	009	.21	14	<1	7 0	1	.04	10
TR-012	39 9	214	1008	1471	1.2	245	21	2259	3 41	99	27	<2	10	193	16 2	6 6	3 1	2164	1 32	255	41	160	89	3563	234	5	2.60	014	27	8	<1	8.2	1	07	11
TR-013	15 8	83	366	504	1 5	63	6	399	2 62	53	7	<2	6	75	2 6	3 0	7	576	33	235	20	69	.27	1304	072	5	1 52	007	09	1	<1	2 6	<1	09	6
TR-014	11 3	90	210	476	1 7	63	7	455	2 51	35	8	<2	7	47	3 4	2 1	5	386	25	.162	22	62	.37	1239	080	4	1.55	006	09	1	<1	3 7	<1	04	6
TR-015	7 6	55	114	260	1 8	38	6	337	2 42	22	4	<2	7	21	2 8	1 1	< 5	212	14	.103	21	43	.35	1031	072	2	1.31	006	07	<1	<1	3 4	<1	< 02	6
TR-016	81 1	217	5108	1637	1 4	224	28	3836	3 22	78	15	<2	8	135	15 3	5 3	7.8	2040	72	267	35	130	69	2793	111	4	2 19	008	13	37	<1	5 2	<1	07	8
TR-017	40 0	155	2419	1987	1.1	389	22	3129	2 94	78	28	<2	13	231	15 2	6 6	7 9	2771	1 88	226	57	189	1 01	4754	228	7	3 07	011	31	9	<1	8 7	1	06	12
STANDARD DS3	8 8	113	35	153	.3	35	11	786	3 04	28	6	<2	4	27	5 2	5.3	5 2	73	51	090	15	177	55	158	091	3	1 68	028	16	3	<1	3 9	1	02	6

GROUP 1DX - 0 50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES
UPPER LIMITS - AG, AU, HG, W = 100 PPM, MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM, CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM
- SAMPLE TYPE SOIL SS80 60C   Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns

DATE RECEIVED: SEP 17 2001 **DATE REPORT MAILED:** Sept 26/01 **SIGNED BY** C.L. .... D. TOYE, C LEONG, J WANG, CERTIFIED B C ASSAYERS

Data ✓ FA ____

A[redacted]ANA[redacted]CAL[redacted]BORA[redacted]IES [redacted] [redacted]52 [redacted]AST[redacted]S ST[redacted]ANC[redacted]R B[redacted]6A [redacted] [redacted]ONE[redacted])25[redacted]58 [redacted](60[redacted]3-1[redacted]
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Aurora Geosciences Ltd. PROJECT Hyland R. File # A103176

P O Box 31097, 11 & 12 -, Whitehorse YT Y1A 5P7 Submitted by Scott Casselman

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
SLT01-001	9 4	64	87	1727	8	107	10	576	2 45	39	4	<2	5	84	20 2	3 1	< 5	207	67	164	21	35	61	2048	040	5	1.06	.006	12	<1	<1	2 6	<1	08	4
SLT01-002	10 4	65	112	1727	8	104	9	537	2 47	39	4	<2	5	87	19 4	3 1	< 5	243	61	176	21	40	59	2106	047	4	1.18	.006	12	<1	<1	2.6	<1	06	4
SLT01-003	10.9	70	136	1785	1 0	110	6	326	2 02	30	5	<2	4	83	17 8	3 0	< 5	272	62	156	20	43	44	2042	050	3	1 05	006	11	1	<1	2 5	<1	07	4
SLT01-004	9 8	80	135	2105	1 1	126	8	473	2 30	39	6	<2	4	86	26 4	3 2	< 5	285	65	165	20	46	49	2260	049	5	1 20	.007	12	<1	<1	2 6	<1	08	4
SLT01-005	11 4	84	179	2042	1 4	129	6	417	2 10	33	7	<2	4	94	23 4	3.1	< 5	332	69	172	21	49	49	2276	057	4	1.13	.007	12	<1	<1	2 6	<1	08	4
RE SLT01-005	11 7	86	148	2157	1 3	137	6	443	2 21	34	7	<2	4	96	24 1	3 3	< 5	336	73	174	21	52	47	2344	.057	3	1 20	.008	13	2	<1	2 6	<1	08	4
SLT01-006	12 8	119	216	3016	1 5	165	7	485	2 54	47	11	<2	4	92	35 3	3 5	6	401	73	152	19	61	47	2308	074	3	1 41	.008	14	1	<1	3 5	<1	09	5
SLT01-007	11.6	117	270	3155	1 5	174	6	521	2 44	45	12	<2	3	102	36 0	3 3	6	461	79	155	19	66	48	2155	067	4	1 38	.008	15	2	<1	3 4	<1	09	5
SLT01-008	15 0	109	250	2740	1 3	172	9	818	2 40	49	12	<2	4	104	34 0	3 4	.5	525	76	197	17	64	47	2206	077	4	1 32	.009	17	4	<1	3 0	<1	09	5
SLT01-009	19 2	146	417	2890	1 7	182	7	734	2 49	51	13	<2	3	101	36 4	3 4	7	578	84	199	20	75	52	2172	.074	4	1.51	.010	17	8	<1	3 6	<1	09	5
SLT01-010	11 8	215	225	4325	2.3	268	6	599	2 43	48	14	<2	2	115	55 7	3 5	.7	592	1 10	153	20	101	55	1942	066	5	1 64	.011	16	<1	<1	3 8	<1	09	6
STANDARD DS3	9 2	121	34	150	3	36	12	813	2 99	29	5	<2	4	27	5 4	5 4	5.2	72	50	090	16	184	55	158	.089	3	1 65	028	15	3	<1	3 5	1	03	6
STANDARD G-1	1 1	2	6	37	<.1	4	3	442	1 55	1	3	<2	5	60	< 2	< 5	< 5	31	48	090	7	12	45	200	.110	3	72	.057	37	2	<1	1 8	<1	< 02	4

GROUP 1DX - 0 50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES
UPPER LIMITS - AG, AU, HG, W = 100 PPM, MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM, CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns

DATE RECEIVED: SEP 17 2001 **DATE REPORT MAILED:** Sept 28/01 **SIGNED BY**.......... D. TOYE, C LEONG, J WANG, CERTIFIED B C ASSAYERS

 Data FA

ACME ANALYTICAL LABORATORIES LTD 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE [redacted] FAX [redacted]
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Aurora Geosciences Ltd. PROJECT Hyland R File # A102663 Page 1
P O Box 31097, 11 & 12 -, Whitehorse YT Y1A 5P7 Submitted by Scott Casselman

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
2500W 200S	11 5	204	191	2751	3 3	219	5	515	2 62	50	23	<2	2	94	45 3	4 6	8	725	94	.154	25	95	54	2775	056	5	2 00	010	15	1	<1	3 6	<1	09	5
2500W 210S	22 3	66	229	378	1 0	48	4	288	2 78	47	5	<2	5	79	3 0	4 7	5	534	25	.154	24	45	25	1432	095	2	1 05	011	14	1	<1	2 2	<1	13	5
2500W 220S	19 4	85	174	530	1 6	69	5	341	2 88	47	8	<2	4	89	7 9	4 2	6	476	38	164	25	55	40	3418	097	4	1.59	007	16	1	<1	2 9	<1	08	6
2500W 230S	18 9	68	146	407	8	55	5	342	2 71	49	6	<2	4	87	3 8	4 4	5	452	40	.167	21	47	36	3117	085	3	1 29	010	12	1	<1	2 3	<1	11	4
2500W 240S	19 4	54	177	311	2 0	37	2	151	1 91	31	4	<2	3	68	4 1	3 1	5	332	19	.101	22	35	15	2474	075	1	1.06	008	12	<1	<1	1.8	<1	10	5
2500W 250S	23 4	87	216	405	7	54	9	671	3.23	60	7	<2	6	99	3 2	5 6	6	558	30	.203	25	47	33	1506	099	4	1.33	013	15	1	<1	3 0	<1	14	4
2500W 260S	19 4	65	276	367	9	50	3	275	3.04	50	5	<2	5	70	1 8	4 5	7	585	25	.187	24	51	29	1058	093	2	1 25	005	10	1	<1	2 1	<1	11	5
2500W 270S	15 5	55	199	353	1 2	48	4	284	2 89	41	4	<2	5	54	1 7	3 3	< 5	452	24	.160	21	54	33	996	076	2	1 32	006	10	1	<1	2 5	<1	08	6
2500W 280S	13 6	52	187	308	4	41	3	210	2 27	35	3	<2	4	44	1 4	3 0	< 5	372	15	.098	20	41	25	871	069	3	1 10	007	08	1	<1	2 5	<1	07	5
2500W 290S	23 5	169	214	840	1 3	111	10	576	3 62	98	11	<2	7	120	5 0	5 8	5	1083	.69	301	24	101	42	4176	120	3	2 03	012	18	1	<1	4 5	<1	10	6
2500W 300S	33 3	112	216	478	2.2	95	6	354	2 80	97	12	<2	8	98	3 8	8 8	< 5	1156	37	150	27	83	.37	2984	170	5	1.68	010	.17	1	<1	3.4	1	08	6
2500W 310S	24 3	140	362	665	9	94	10	796	3 46	76	10	<2	8	114	4 3	6 2	.6	952	47	262	28	88	41	3928	117	3	1.84	008	15	1	<1	4 2	<1	08	6
2500W 320S	14 0	92	223	424	1 3	69	7	396	3 08	40	6	<2	7	69	3 3	3 5	5	452	.26	.196	23	57	.38	1572	084	2	1.81	.007	11	1	<1	3.2	<1	06	5
2500W 330S	10 5	53	183	276	1 4	45	4	253	3 20	32	4	<2	6	47	1 6	2 7	< 5	338	.18	243	18	47	.34	1008	058	3	1.51	.006	10	1	<1	2.4	<1	07	5
2500W 340S	11 7	44	154	210	9	30	3	170	2 60	30	3	<2	5	47	1 2	2 8	< 5	246	10	.143	20	32	.25	887	073	<1	1.17	.007	10	1	<1	2 1	<1	10	5
RE 2500W 340S	12 4	45	156	209	9	30	3	175	2 73	30	3	<2	5	48	1 5	2.8	.5	249	09	144	20	32	23	912	076	2	1.18	.006	11	1	<1	2 2	<1	10	5
2500W 350S	11 8	31	143	169	1 0	24	2	123	2.58	26	2	<2	5	39	8	2 5	<.5	231	07	.130	18	30	18	772	082	3	.99	.007	10	<1	<1	1 9	<1	10	5
2500W 360S	12 2	44	164	221	7	34	3	197	2.74	30	3	<2	4	50	1 5	2.6	.5	253	12	149	20	36	26	965	070	2	1.23	.006	09	1	<1	2 1	<1	09	5
2500W 370S	16 3	82	234	276	9	45	5	297	2.93	30	7	<2	6	76	2 4	3 0	7	341	21	.243	23	44	27	2439	067	2	1.76	.007	11	1	<1	3 0	<1	12	5
2500W 380S	14 8	81	215	342	1 0	53	4	315	2 83	34	5	<2	6	83	1 9	3 3	6	301	24	.178	22	39	36	2122	083	3	1 43	008	12	1	<1	2 6	<1	12	4
2500W 390S	13 9	54	206	260	1 2	43	6	262	3 08	31	4	<2	7	46	1 4	3 0	5	253	12	.183	19	42	36	774	061	<1	1.77	004	09	1	<1	2 7	<1	07	4
2500W 400S	14 1	28	188	142	7	17	2	87	1 37	15	2	<2	4	35	8	1 9	9	175	06	086	16	21	10	475	075	3	.71	005	06	<1	<1	1 4	<1	04	6
2500W 420S	7 2	22	55	108	3 1	16	4	150	2 20	12	2	<2	6	10	9	1 0	< 5	148	05	134	18	34	29	510	035	1	1 81	003	05	1	<1	2 4	<1	< 02	5
2500W 440S	15 3	56	158	258	3 5	47	5	217	3 00	30	6	<2	6	37	1 3	3 2	5	445	11	240	18	61	33	982	060	1	1 98	005	10	1	<1	2 9	<1	07	5
2500W 500S	4 2	14	29	97	1 1	20	5	173	2 32	11	2	<2	7	10	6	1 0	< 5	93	05	098	18	34	34	347	046	1	1 57	005	05	<1	<1	2 7	<1	< 02	5
2500W 520S	3 4	18	32	98	1.6	16	4	131	2 45	13	1	<2	6	11	6	9	< 5	127	05	125	16	36	27	412	034	2	1 67	004	05	<1	<1	2 5	<1	03	5
2500W 540S	6 2	34	58	172	9	31	5	192	2 42	20	2	<2	6	23	1 0	1 8	< 5	138	08	121	18	35	36	635	056	2	1 46	006	08	<1	<1	2 2	<1	02	4
2500W 560S	7 8	28	86	168	5	26	4	204	3 23	23	2	<2	6	115	1 1	1 6	<.5	193	09	.223	19	38	29	686	050	<1	1 32	006	08	<1	<1	2 2	<1	07	5
2500W 580S	2 9	11	26	75	2 0	10	4	120	1 62	7	1	<2	5	7	8	< 5	<.5	67	06	095	19	28	22	345	037	<1	1 39	004	04	<1	<1	2 4	<1	< 02	5
2500W 600S	3 8	9	50	48	6	8	2	84	1 42	10	1	<2	6	10	5	5	< 5	92	04	098	20	22	13	281	036	2	1 06	003	04	<1	<1	2 1	<1	< 02	6
2500W 620S	3 0	21	28	88	2 5	11	3	105	1 42	5	1	<2	4	7	6	< 5	< 5	68	06	077	19	25	23	571	038	<1	1 43	004	04	<1	<1	2 1	<1	< 02	6
2500W 640S	6 1	18	73	119	3	19	4	148	3 15	19	2	<2	6	13	6	8	< 5	151	09	.235	16	35	34	488	030	<1	1.80	003	07	<1	<1	2 4	<1	02	6
2500W 660S	6 8	39	87	208	9 2	21	5	164	2 59	14	3	<2	7	9	1 6	1 6	< 5	182	06	.156	17	51	35	474	056	3	2 29	004	06	<1	<1	3 1	<1	< 02	6
2500W 680S	8 3	26	101	170	1 0	24	4	174	2 68	19	2	<2	5	21	8	1 3	< 5	135	05	120	18	33	31	656	048	1	1.42	006	07	<1	<1	2 1	<1	07	5
STANDARD C3	26 8	65	37	165	5 5	38	12	823	3 27	57	20	<2	21	28	22 6	14 1	24 0	78	56	097	18	177	60	147	090	20	1 81	034	17	14	1	4 2	1	03	8
STANDARD G-2	1 8	3	2	47	< 1	10	5	573	1 72	1	2	<2	5	72	< 2	< 5	< 5	42	68	111	8	81	63	238	141	1	1 01	067	60	2	<1	2 5	<1	< 02	5

GROUP 1DX - 0 50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY OPTIMA ICP-ES
UPPER LIMITS - AG, AU, HG, W = 100 PPM, MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM, CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM
- SAMPLE TYPE SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns

DATE RECEIVED AUG 10 2001 DATE REPORT MAILED. Aug 22/01 SIGNED BY. C. L D TOYE, C LEONG, J WANG, CERTIFIED B C ASSAYERS

Data L FA ___

Aurora Geosciences Ltd. PROJECT Hyland R. FILE # A102663

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
2500W 700S	6 0	29	71	362	2 6	29	7	174	2 60	19	4	<2	6	13	2 7	1 2	< 5	211	10	184	17	40	33	763	055	7	2 22	005	06	<1	<1	2 5	<1	<.02	6
2500W 720S	5 5	23	68	172	1 5	18	4	125	2 14	13	2	<2	5	11	1 9	7	< 5	135	07	121	17	31	23	547	037	4	1 51	004	05	<1	<1	2 2	<1	02	6
2500W 740S	3 9	19	48	257	1 8	30	7	188	2 66	14	2	<2	7	11	1 9	.7	< 5	116	11	165	17	44	38	555	059	6	2.12	.006	06	<1	<1	2 5	<1	< 02	5
2500W 760S	3 9	22	172	239	4 3	33	3	186	1 91	16	3	<2	5	37	2 4	1 4	5	414	30	265	21	64	.23	625	051	3	1.12	004	06	6	<1	2 1	<1	03	5
2500W 780S	5 9	29	476	410	1 3	53	4	376	2 05	17	4	<2	6	35	2 5	1 7	1 3	546	34	.239	26	70	35	601	049	4	1.20	004	08	3	<1	2 4	<1	< 02	6
2500W 800S	9 6	51	245	508	1 9	70	4	341	2 20	25	4	<2	6	51	3 1	2 8	1 3	613	35	.269	22	78	34	845	061	6	1 45	004	07	3	<1	2 5	<1	<.02	5
2500W 820S	4 8	11	93	281	1 2	21	7	600	2 34	11	1	<2	5	14	5 6	7	< 5	162	16	.207	18	35	23	364	039	3	1 23	005	06	1	<1	1 8	<1	02	6
2500W 840S	6 7	16	89	166	2 0	19	4	195	1.48	10	2	<2	5	18	2 0	1 3	6	196	08	107	19	34	15	662	036	3	94	004	05	1	<1	1 5	<1	< 02	5
2500W 860S	8 8	33	131	407	9	47	6	350	2 42	21	3	<2	5	37	3 2	2 3	9	401	21	.178	21	55	31	1198	065	8	1.22	004	08	1	<1	2 3	<1	< 02	6
2500W 880S	6 6	31	86	265	1 2	38	6	222	2 10	16	2	<2	6	22	1 4	1 5	< 5	197	18	112	18	40	.34	843	043	6	1.19	.004	06	1	<1	2 0	<1	< 02	5
2500W 900S	6 0	19	92	230	7	28	6	169	2.35	15	1	<2	5	17	2 4	1 2	< 5	192	.13	.122	18	38	.28	835	039	5	1 32	005	06	1	<1	2 1	<1	<.02	5
2500W 920S	12 4	61	226	405	7	54	4	250	2 24	31	5	<2	6	62	3 2	3 1	5	454	.30	172	22	53	29	2979	067	2	1.41	006	10	1	<1	2 6	<1	05	5
2500W 940S	15 1	56	243	383	7	53	3	289	2 14	36	5	<2	5	71	2 3	3 4	5	492	.29	.158	24	53	.25	2675	069	4	1 22	005	11	1	<1	2 3	<1	06	5
2500W 960S	9 4	25	186	220	1 4	27	3	187	1 87	21	3	<2	5	37	3 2	2 1	< 5	319	.17	118	20	38	.16	1586	063	3	1.03	006	08	<1	<1	1 9	<1	04	5
2500W 980S	8 9	35	231	315	3 2	35	5	290	2 20	26	3	<2	5	44	4 5	2 2	5	359	25	.210	21	47	.20	1760	065	4	1.13	006	09	1	<1	2 4	<1	03	5
RE 2500W 980S	8 7	34	224	321	3 1	35	5	290	2 29	26	3	<2	5	43	4 3	2 3	5	360	24	.209	21	49	20	1771	064	3	1.17	005	09	1	<1	2.4	<1	04	5
2500W 1000S	10 2	27	220	198	1 1	22	2	107	1 79	18	3	<2	5	35	2 9	2.2	.6	360	12	.165	19	39	09	777	057	3	.91	003	06	<1	<1	1 6	<1	.04	5
2500W 1020S	8 6	31	205	287	2 3	28	4	195	2 46	20	3	<2	5	36	4 1	2 0	6	407	18	.257	19	55	17	1175	084	4	1.36	.007	06	1	<1	2.3	<1	.03	7
2500W 1040S	13.8	61	425	394	1 4	56	3	282	2 42	29	6	<2	6	71	2 8	3 4	1 0	575	39	476	22	71	26	2037	073	12	1.53	007	09	1	<1	2 5	<1	.07	5
2500W 1060S	11 9	77	328	705	2 6	75	4	470	1.70	28	8	<2	1	95	14 2	3 2	6	439	90	.156	20	56	22	2531	047	6	1.08	007	09	1	<1	1 8	<1	.10	4
2500W 1080S	11 1	55	111	424	5	64	6	226	2 79	24	4	<2	6	51	2 3	3 7	< 5	296	22	144	19	46	36	1348	068	3	1 48	008	08	2	<1	2 2	<1	05	4
2500W 1100S	5 9	20	46	234	8	27	5	200	3 76	15	2	<2	6	20	1 0	1 6	< 5	131	08	108	16	45	35	386	062	<1	1 61	005	07	<1	<1	2 3	<1	04	6
2500W 1120S	9 4	43	41	425	1 2	58	6	209	2 28	22	3	<2	6	44	1 8	3 3	< 5	176	23	.179	18	32	32	755	058	4	1 04	007	08	<1	<1	1 9	<1	06	4
2500W 1140S	10 9	132	221	2942	3 4	211	5	428	2 15	32	19	<2	1	102	48 2	4 2	7	493	1 12	209	24	75	64	2804	042	3	1 45	007	12	<1	<1	2 4	<1	12	5
2500W 1160S	13 0	121	172	2345	2 1	163	6	387	1 94	32	7	<2	3	99	29 0	5 6	6	507	77	220	26	63	52	3185	067	3	1 16	007	12	3	<1	2 7	<1	08	4
2500W 1180S	14 9	120	78	857	4 7	123	9	542	2 63	41	5	<2	1	64	7 9	4 8	< 5	553	59	197	29	93	1 07	2088	031	2	1 90	005	14	<1	<1	2 5	<1	06	6
2500W 1200S	11 4	64	62	426	1 4	67	9	436	2 15	32	3	<2	2	47	3 1	4 3	< 5	342	41	201	26	52	82	1080	048	6	1 36	.004	09	1	<1	2 3	<1	05	5
2300W 860N	12 3	66	215	710	1 5	74	9	541	2 54	48	5	<2	5	70	4 5	5 0	< 5	527	38	.164	22	66	48	1878	090	5	1.52	007	12	<1	<1	3 1	<1	08	6
2300W 840N	11 3	84	197	764	1 3	80	9	801	2 45	46	6	<2	4	75	13 2	5.1	< 5	510	43	156	24	64	43	2404	088	3	1.36	008	12	<1	<1	3 3	<1	11	5
2300W 820N	10 7	51	143	459	7	60	5	287	2 82	54	3	<2	4	50	2 3	4 1	5	427	20	136	21	60	48	1477	083	6	1.66	005	11	<1	<1	2 9	<1	07	6
2300W 800N	9 2	44	121	310	3	40	3	160	2 06	42	3	<2	3	44	1 7	4 0	5	340	17	085	20	41	26	935	084	4	1.16	004	09	<1	<1	2 1	<1	07	6
2300W 780N	10 7	54	153	472	9	57	7	421	2 47	44	4	<2	5	64	3 6	4 5	5	414	32	122	21	53	37	1738	095	6	1 24	006	10	<1	<1	2 7	<1	07	5
2300W 760N	11 4	54	152	390	8	55	5	264	2 83	61	4	<2	5	55	2 4	5 5	< 5	494	21	136	22	58	38	1501	093	2	1 38	005	10	<1	<1	2 7	<1	.11	6
2300W 740N	11 5	60	141	396	5	52	5	322	2 45	50	4	<2	4	58	2 8	5 4	< 5	476	26	126	24	52	38	2086	084	2	1 38	007	11	<1	<1	2 9	<1	08	6
STANDARD C3	26 1	65	39	171	5 6	40	13	865	3 27	59	20	<2	22	28	23 3	14 2	24 2	81	57	103	19	184	61	150	090	22	1 86	033	16	15	1	4 4	1	04	8
STANDARD G-2	1 7	3	3	45	< 1	9	5	488	1 92	1	2	<2	5	68	< 2	< 5	< 5	41	.64	106	8	85	61	231	128	4	94	067	49	2	<1	2 2	<1	< 02	5

Sample type SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns

Data FA

ACME ANALYTICAL

Aurora Geosciences Ltd. PROJECT Hyland R FILE # A102663

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
2300W 720N	12 9	58	188	462	1 3	60	5	327	2 69	51	5	<2	5	72	2 9	6 0	5	555	32	172	28	55	52	1877	108	7	1 53	007	.13	<1	<1	3 2	<1	.13	6
2300W 700N	13 1	68	122	383	8	52	6	292	2 58	55	5	<2	6	68	2 6	6 9	<.5	520	30	143	27	46	.40	2108	084	3	1 42	007	.11	<1	<1	3 2	<1	15	5
2300W 680N	12 1	61	144	383	6	51	6	294	2 41	53	5	<2	6	67	2 5	6 3	<.5	478	27	146	26	43	.41	2107	091	5	1 26	006	.10	<1	<1	2 9	<1	10	5
2300W 660N	12 2	67	145	417	1 1	57	8	407	2 42	52	5	<2	5	74	4 0	6 2	< 5	471	36	152	27	45	.43	2401	085	9	1 27	007	12	<1	<1	2 8	<1	10	5
2300W 640N	11 9	66	142	439	1 2	58	8	422	2 54	53	5	<2	6	69	3 7	5 4	< 5	506	33	133	26	48	.44	2355	088	5	1 33	007	.12	<1	<1	3 4	<1	09	5
2300W 620N	10 6	68	142	475	1 2	60	9	478	2 42	48	5	<2	4	65	3 5	5 0	< 5	486	32	121	24	51	.49	2641	075	6	1 47	013	13	<1	<1	3 4	<1	.10	5
2300W 600N	13 0	90	182	563	1 2	70	11	598	3 01	59	6	<2	4	70	6 5	5 9	< 5	564	30	125	28	62	59	2883	084	2	1 73	009	19	<1	<1	3 9	<1	08	6
2300W 580N	10 9	103	163	1202	1 3	108	8	348	2 58	42	8	<2	8	99	13 4	5 1	5	558	65	190	29	69	52	2343	102	5	1 36	010	.13	1	<1	4 5	<1	.10	5
2300W 560N	11 8	77	156	707	7	81	7	356	2 33	60	6	<2	5	88	3 4	8 0	< 5	647	46	188	25	66	36	2131	104	6	1 25	006	.12	<1	<1	3 5	<1	08	5
2300W 540N	11 9	67	228	649	4	72	9	493	2 36	54	6	<2	7	88	3 2	6 8	5	594	46	185	25	62	.43	2302	115	5	1 41	005	12	1	<1	3 5	<1	05	5
2300W 520N	13 7	154	312	1314	1 5	124	7	571	2 47	63	9	<2	5	109	23.1	7 0	5	674	68	194	29	70	.46	3573	103	8	1 38	008	.18	1	<1	4 4	<1	09	5
2300W 500N	14 7	71	412	605	8	64	11	937	2 75	67	6	<2	6	77	4.6	6 6	6	576	35	159	25	54	.43	1930	127	3	1 24	009	14	<1	<1	3 6	<1	10	5
2300W 480N	17 8	103	130	747	1 4	82	10	491	2 75	56	9	<2	6	104	9 2	4 8	<.5	584	41	179	29	60	.37	2001	101	5	1 36	015	.15	<1	<1	3 7	<1	17	5
2300W 460N	18 8	91	139	787	1 8	90	10	432	2 67	66	8	<2	8	108	7 1	5 5	< 5	700	42	173	27	59	.38	1884	092	8	1 40	015	.13	<1	<1	3 5	<1	16	5
2300W 440N	12 8	36	116	307	2 8	44	5	208	3 36	47	3	<2	7	46	1 3	3 5	< 5	484	17	188	21	54	.36	626	071	5	1 55	007	.09	<1	<1	2.8	<1	.07	6
2300W 420N	14 7	36	89	277	1 1	38	4	183	2 70	41	3	<2	4	53	1 5	3.8	< 5	431	16	140	22	45	.27	722	069	3	1 20	.007	.09	<1	<1	2.3	<1	.12	6
2300W 400N	9 6	32	84	238	1 0	29	4	152	2 32	33	3	<2	6	30	1 2	2 3	<.5	430	12	111	23	46	23	697	064	2	1 33	004	.07	<1	<1	2 4	<1	.06	7
RE 2300W 400N	10 1	32	84	240	1 0	29	4	146	2 26	34	3	<2	6	30	1 3	2 4	< 5	427	10	107	22	46	22	690	059	3	1 22	003	.07	<1	<1	2 5	<1	.03	7
2300W 380N	7 4	49	93	499	1 9	56	6	265	2 46	35	3	<2	6	35	1 3	2 5	< 5	438	22	130	21	59	44	708	048	2	1 64	004	.07	<1	<1	2 6	<1	.05	5
2300W 360N	6 9	20	78	225	1 1	33	5	201	3 06	31	2	<2	5	17	8	2 0	< 5	343	10	134	17	50	.35	345	036	4	1 45	004	.05	1	<1	2 4	<1<	02	5
2300W 340N	7 3	16	41	144	2 0	24	3	137	3 45	27	1	<2	5	16	.6	2 2	< 5	320	06	.124	16	38	22	282	059	2	92	002	.05	<1	<1	1 7	<1	02	6
2300W 320N	4 2	14	38	124	1 0	20	3	120	2 43	21	1	<2	4	14	5	1 5	< 5	156	07	093	17	33	24	223	041	4	1 07	003	.04	<1	<1	2 0	<1	05	6
2300W 300N	4 0	7	67	113	1 4	11	4	227	2 99	9	1	<2	9	8	.5	6	< 5	144	06	064	21	38	23	192	138	1	1 44	004	03	<1	<1	1 9	<1	03	9
2300W 200S	18 2	62	155	316	2 2	41	3	202	2 09	29	6	<2	2	59	3 4	3 2	6	393	22	134	24	49	25	2131	073	3	1 20	010	.10	<1	<1	2 0	<1	16	6
2300W 210S	21 6	43	160	206	2 2	23	1	81	1 67	24	5	<2	2	69	1 4	4 8	6	322	10	086	24	35	11	1116	079	2	72	008	12	<1	<1	1 5	<1	16	4
2300W 220S	23 1	79	182	416	1 4	48	4	250	3 19	56	7	<2	7	117	2 3	5 3	6	585	31	247	22	50	24	1534	095	2	1 24	013	14	1	<1	2 7	<1	19	5
2300W 230S	17 1	76	195	294	1 5	35	3	193	2 11	28	7	<2	3	61	3 5	3 4	8	446	18	124	24	47	17	2006	073	4	1 06	007	09	1	<1	2 4	<1	11	5
2300W 240S	24 3	75	1352	610	1 4	83	6	959	2 74	44	7	<2	5	147	4 3	3 7	4 9	930	48	200	25	93	36	2345	097	3	1 32	008	10	7	<1	3 0	<1	08	7
2300W 250S	44 9	96	3181	798	1 0	95	6	982	2 63	52	8	<2	6	202	5 1	4 2	9 2	1396	49	248	27	104	.38	1862	083	3	1 57	005	10	14	<1	2 8	<1	09	8
2300W 260S	37 7	106	2313	917	2 8	127	6	938	2 80	54	12	<2	7	163	5 6	4 7	5 7	1423	61	272	37	127	.51	3104	096	7	1 76	007	12	9	<1	4.1	<1	11	7
2300W 270S	42 9	111	2556	1074	3 9	183	21	2273	3 07	56	14	<2	8	186	6 7	4 9	5 4	1349	79	347	36	151	.65	2525	106	5	1 92	009	12	17	<1	4.5	<1	12	7
2300W 280S	15 5	55	390	364	5	53	4	299	3 11	49	4	<2	6	61	2 0	3 2	9	598	27	232	22	71	29	880	081	4	1 28	006	09	1	<1	2 3	<1	.08	6
2300W 290S	18 9	81	366	459	1 7	67	7	353	3 46	54	7	<2	8	74	2 9	4 2	7	632	29	277	24	85	33	1489	082	3	1 94	007	09	1	<1	3 2	<1	13	6
2300W 300S	12 6	55	364	381	1 6	50	6	286	3 05	40	4	<2	6	36	1 6	2 5	5	466	20	211	20	70	.35	604	056	4	1 70	004	.07	1	<1	2 5	<1	09	6
STANDARD C3	25 4	63	35	158	5 4	38	12	787	3 11	55	20	<2	22	29	22 6	14 5	24 1	76	55	095	19	166	59	155	084	18	1 65	031	16	14	1	4 2	1	05	8
STANDARD G-2	1 7	3	3	48	< 1	8	5	493	2 00	1	2	<2	5	75	< 2	< 5	< 5	42	72	111	9	78	63	243	135	2	94	066	53	2	<1	2 8	<1	02	6

Sample type SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns

Data / FA

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
2300W 310S	20 1	79	573	509	1 8	63	3	359	3 25	51	6	<2	6	69	2 5	4 0	1 0	680	31	316	22	87	24	914	077	4	1.59	004	09	3	<1	1 9	<1	11	6
2300W 320S	18 6	53	282	265	2 5	35	3	214	2 83	31	5	<2	6	61	1 5	3 8	8	517	16	249	20	47	17	1360	080	3	1.44	008	11	1	<1	2 1	<1	15	6
2300W 330S	9 2	33	119	212	2 1	34	4	233	3 06	28	3	<2	6	29	9	2 1	5	435	13	247	19	53	29	564	053	2	1.56	003	07	1	<1	2 2	<1	05	5
2300W 340S	8 5	26	117	146	1 3	22	3	173	2 67	21	2	<2	6	24	8	1 6	5	277	04	.153	17	38	20	536	066	2	1.25	.004	07	1	<1	1 6	<1	06	6
2300W 350S	15 0	60	205	289	2 3	44	4	295	2 96	33	5	<2	7	62	1 8	3 7	6	338	15	.219	21	46	27	1336	086	2	1.70	.007	11	1	<1	2 3	<1	.11	5
2300W 360S	15 9	131	444	714	1 4	142	5	993	2 66	46	11	<2	9	106	4 9	4 5	6	1194	.67	225	34	144	48	2725	153	4	1 85	009	12	2	<1	4 4	<1	11	7
2300W 370S	9 4	26	141	145	1 0	20	3	149	2 61	21	2	<2	6	28	1 1	1 6	5	208	07	163	18	29	16	650	046	1	1.19	005	06	1	<1	1 5	<1	05	6
2300W 380S	21 1	60	820	412	2.1	59	5	741	3 34	36	6	<2	7	91	2 2	3 5	2 7	549	41	346	20	74	.30	1348	083	6	1.94	007	12	4	<1	2 6	<1	11	6
2300W 390S	25 0	69	792	417	1 0	56	3	462	3 46	35	7	<2	7	112	2 1	3 8	1 2	571	29	355	20	66	26	1759	085	3	1 65	008	11	3	<1	2 3	<1	12	6
2300W 400S	20 8	66	532	380	1 9	54	5	343	3 53	33	6	<2	7	84	2 0	3 3	1 6	481	17	311	21	67	.30	1600	079	4	1 83	007	11	2	<1	2 5	<1	12	5
2300W 600S	16 0	65	276	490	3 1	86	4	443	3 03	35	6	<2	6	49	2 0	3 5	1 4	863	18	248	21	88	.37	1603	095	4	1.97	005	10	2	<1	2 6	<1	08	7
2300W 620S	6 3	15	45	120	3 0	20	5	203	2 67	13	2	<2	6	9	9	9	< 5	208	06	119	19	40	.27	371	054	2	1.50	003	04	1	<1	2 4	<1	<.02	7
2300W 640S	9 3	44	91	261	6 3	41	6	256	2 91	25	4	<2	7	19	1 4	2 1	< 5	491	09	.145	18	60	.35	709	065	3	2.02	004	07	1	<1	2.5	<1	<.02	6
2300W 660S	12 5	23	202	324	2 3	44	4	267	2 60	23	3	<2	6	22	1 8	1 8	3 4	562	.11	136	19	53	.27	582	069	<1	1 36	003	06	1	<1	2.3	<1	< 02	8
2300W 680S	6 0	17	97	184	3 2	23	4	243	2 74	15	2	<2	6	16	1 4	1 3	< 5	261	.08	153	19	47	27	391	058	3	1.64	004	05	1	<1	2 4	<1	< 02	7
2300W 700S	4 3	16	36	117	4 6	18	3	164	2 31	12	2	<2	6	11	5	1 2	< 5	161	05	.153	18	43	21	265	033	1	1.56	003	04	<1	<1	1 8	<1	< 02	7
2300W 720S	4 7	35	44	284	4 5	34	7	242	2 61	17	3	<2	7	13	1 3	1.6	< 5	229	10	.174	19	60	35	791	058	3	1.89	004	06	1	<1	3 7	<1	< 02	6
2300W 740S	6 9	22	67	124	4 0	21	3	139	2 73	18	2	<2	5	12	1.0	1 9	< 5	241	08	.192	19	48	21	368	044	1	1.36	003	05	1	<1	2 2	<1	< 02	7
2300W 760S	8 8	64	52	329	2 9	58	7	210	2 32	27	5	<2	6	43	1.4	3 4	< 5	341	24	291	20	81	.31	2913	044	3	2 26	.004	07	1	<1	3 1	<1	< 02	5
2300W 780S	3 3	8	20	100	2 1	14	4	105	1 61	6	1	<2	5	7	6	< 5	< 5	66	06	084	20	28	.22	391	029	1	1.39	003	04	<1	<1	1 6	<1	<.02	5
2300W 800S	11 1	47	95	318	2 8	46	6	206	2 89	37	3	<2	7	35	2 2	4.2	5	413	22	357	20	72	33	1140	054	3	1.94	005	07	1	<1	2 7	<1	02	5
RE 2300W 800S	11 1	49	102	323	2 8	46	6	208	2 91	38	4	<2	7	36	2 3	4 3	< 5	422	22	.363	20	70	32	1249	054	3	2.00	005	08	1	<1	2 9	<1	02	6
2300W 820S	4 0	23	33	212	3 2	25	5	160	2 60	17	2	<2	6	12	1 6	9	< 5	194	10	263	18	58	27	1065	039	3	2.06	005	05	<1	<1	2 2	<1	< 02	7
2300W 840S	17 8	48	186	403	2 8	58	5	221	2 54	34	5	<2	6	49	2 9	4 4	1 0	610	26	313	19	76	26	1753	065	3	1.90	005	08	4	<1	2 8	<1	03	6
2300W 860S	25 5	120	264	501	2 2	85	5	427	1 88	38	11	<2	5	110	3 4	6 5	9	942	50	.275	25	86	.27	4786	098	7	1.58	009	16	2	<1	3 1	1	08	5
2300W 880S	22 2	88	539	414	1 3	62	3	372	2 44	51	7	<2	5	87	2 7	5 2	9	781	32	226	25	81	.27	2248	098	4	1.37	005	11	1	<1	2 8	<1	.07	6
2300W 900S	21 3	82	591	397	8	57	3	442	2 11	49	8	<2	6	96	3.4	5 0	9	761	42	245	27	78	24	2191	099	5	1.30	005	11	3	<1	2 7	<1	.07	6
2300W 920S	13 7	60	398	369	1 3	56	3	366	1 96	33	5	<2	5	83	3 7	3 5	1 0	593	44	257	22	69	24	1958	074	6	1 22	004	09	2	<1	2 1	<1	05	5
2300W 940S	16 1	77	416	387	1 6	57	3	333	2 43	44	6	<2	6	78	3 5	4 0	8	622	33	286	20	63	26	1962	074	5	1.29	004	10	4	<1	2 3	<1	05	5
2300W 960S	16 6	57	256	415	1 7	62	3	254	1 78	36	5	<2	2	68	3 2	4 9	9	601	34	225	25	70	28	1619	071	4	1.13	004	10	1	<1	1 7	<1	05	5
2300W 980S	5 8	26	37	198	1 7	27	2	110	1 02	15	2	<2	<1	26	3 4	1 8	< 5	124	20	067	16	29	16	534	028	2	.59	004	05	<1	<1	8	<1	04	4
2300W 1000S	10 2	40	54	532	2 5	63	5	226	2 48	38	3	<2	5	36	2 7	3 9	< 5	325	28	.204	19	60	43	693	054	3	1.30	005	07	1	<1	2 0	<1	04	5
2300W 1020S	10 2	28	54	251	2 5	35	4	163	2 99	27	2	<2	5	19	1 5	3 0	< 5	379	07	120	17	51	29	532	047	1	1.47	003	06	<1	<1	2 0	<1	< 02	6
2300W 1040S	23 5	64	56	415	2 8	74	5	177	2 71	46	6	<2	6	47	2 2	7 4	< 5	630	14	233	20	81	39	2000	061	5	2.26	006	10	1	<1	2 6	1	04	5
STANDARD C3	26 4	64	37	169	5 5	35	13	814	3 10	57	21	<2	23	27	23 5	14 1	25 0	84	54	099	18	182	57	159	089	18	1 87	027	16	15	1	4 1	1	03	7
STANDARD G-2	1 6	3	2	45	< 1	9	5	569	1 80	1	2	<2	4	68	< 2	< 5	< 5	43	58	103	7	82	56	230	137	1	.92	054	48	2	<1	2 3	<1	03	4

Sample type SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns

All results are considered the confidential property of the client Acme assumes the liabilities for actual cost of the analysis only

Data / FA

Aurora Geosciences Ltd. PROJECT Hyland R FILE # A102663

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
2300W 1060S	6 6	22	25	144	4 1	25	5	153	2 26	16	2	<2	4	10	1 0	2 0	< 5	158	05	100	16	43	30	344	031	1	1 59	003	05	<1	<1	2 0	<1	03	4
2300W 1080S	3 0	17	16	65	4 3	13	3	97	1 98	11	1	<2	5	7	5	1 1	< 5	93	04	134	19	33	20	179	034	1	1 29	003	04	<1	<1	2 2	<1	02	5
2300W 1100S	17 7	38	27	191	5 7	38	3	136	3 36	30	3	<2	6	19	1.0	5 8	< 5	289	09	317	19	58	.30	427	054	3	2 02	002	07	<1	<1	2 3	<1	02	6
2100W 800N	3 2	16	59	387	4	27	7	316	2 45	18	1	<2	3	27	4 4	1 3	< 5	145	21	130	17	39	45	381	059	3	1 39	004	09	<1	<1	1 9	<1	02	6
2100W 780N	6 4	40	96	349	7	45	6	528	1 94	23	3	<2	2	44	2 6	2 3	< 5	246	30	097	18	42	39	683	061	4	1 12	003	09	1	<1	2.0	<1	05	4
2100W 760N	13 0	60	222	620	1 0	74	9	886	2 38	56	6	<2	5	85	5 1	5 1	< 5	622	50	182	24	73	43	1902	091	4	1 26	006	13	1	<1	3 1	<1	10	5
2100W 740N	12 7	65	128	313	2 9	42	3	182	2 06	32	5	<2	1	46	3 4	2 9	< 5	393	15	111	20	47	29	1451	055	1	1 31	005	09	<1	<1	1 9	<1	07	5
2100W 720N	13 5	41	115	248	1 1	31	3	128	1 96	34	3	<2	1	43	2 1	3 2	5	352	13	097	19	37	19	1160	061	2	1 06	004	08	1	<1	1 5	<1	08	6
2100W 700N	20 1	75	207	673	1 1	78	8	496	2 97	52	6	<2	5	93	2 9	3 5	7	596	29	224	18	60	41	1606	082	3	1 55	008	13	4	<1	2 5	<1	14	5
2100W 680N	16 2	97	249	934	1 6	113	9	838	2 68	65	7	<2	6	85	6.7	4 7	6	820	39	178	23	82	54	3515	104	2	1 66	007	13	1	<1	3 6	<1	07	6
2100W 660N	8 2	65	142	416	1 8	57	4	283	1 86	31	5	<2	3	37	3.5	2 9	< 5	449	17	091	23	50	33	1222	055	2	1 18	008	09	1	<1	2 9	<1	04	4
2100W 640N	15 1	67	558	1016	1 1	153	13	2370	2 37	50	7	<2	6	93	9 9	4 0	1 1	1058	57	167	28	83	69	2233	113	6	1 49	006	12	3	<1	3 6	1	07	6
2100W 620N	9 5	42	251	328	1 4	45	5	471	2 16	32	4	<2	2	31	2 9	2.3	< 5	455	18	123	27	52	.28	766	051	2	1 26	005	07	1	<1	2 2	<1	03	6
2100W 600N	14 2	58	605	785	9	102	8	1138	2 75	50	5	<2	7	63	4 6	3 8	8	789	37	200	22	85	.58	1153	094	6	1 94	005	11	1	<1	3 2	<1	.06	7
RE 2100W 600N	14 9	60	624	812	9	104	8	1085	2 85	50	6	<2	7	64	4 6	3 8	7	790	38	.212	23	85	.56	1274	097	5	1.97	004	11	1	<1	3.2	<1	.05	7
2100W 580N	10 0	59	198	437	1 5	62	8	500	2 59	36	4	<2	4	41	3.9	2 6	< 5	628	22	.168	22	65	39	1704	054	4	1 68	004	08	<1	<1	2 9	<1	03	6
2100W 560N	24 2	89	212	662	1 4	90	15	800	3 01	51	7	<2	5	84	3 8	4 4	5	764	32	181	22	71	49	2929	104	5	1 64	007	.15	<1	<1	3 3	<1	.08	6
2100W 540N	13 8	59	205	428	1 5	62	11	679	2 37	51	5	<2	6	84	3.1	5 1	< 5	566	40	166	22	57	41	1881	094	3	1 19	005	.10	2	<1	2 5	<1	.09	4
2100W 520N	10 6	57	210	726	6	83	7	966	2 14	46	5	<2	6	84	6 1	4 5	< 5	608	50	168	22	73	.42	1981	.090	6	1 14	005	09	1	<1	3 0	<1	08	4
2100W 500N	11 6	37	206	477	8	54	4	381	2 34	47	4	<2	5	49	2 1	3 7	5	611	25	135	22	67	29	758	.080	2	1 29	.003	.10	<1	<1	2 6	<1	.05	6
2100W 480N	12 3	59	310	879	8	84	7	1108	2 38	51	6	<2	5	84	5.8	5 3	< 5	782	51	180	25	78	.39	1781	095	4	1 25	006	11	1	<1	2 9	<1	07	5
2100W 460N	9 8	36	181	411	7	46	4	421	2 02	37	4	<2	<1	51	2 9	4 1	5	622	22	083	21	58	25	968	047	5	1 08	005	09	<1	<1	1 3	<1	08	5
2100W 440N	11 1	55	298	632	6	81	7	964	2 46	60	5	<2	6	81	5 6	6 3	< 5	610	61	150	24	78	42	1970	099	4	1 24	006	.11	1	<1	3 1	<1	.07	4
2100W 420N	5 0	40	103	175	2	22	3	333	1 33	23	2	<2	3	31	1 3	2 3	< 5	210	17	071	20	33	13	487	063	2	84	004	06	<1	<1	1 2	<1	.03	5
2100W 400N	9 9	56	142	442	7	65	11	503	2 60	55	5	<2	6	59	1 9	4 8	< 5	365	29	150	22	71	33	811	078	3	1 69	005	09	<1	<1	2 5	<1	08	4
2100W 380N	7 5	29	112	465	5	46	4	479	2 41	35	3	<2	3	46	1 4	3 0	< 5	372	26	140	17	54	27	543	065	5	1 02	005	06	<1	<1	1 6	<1	05	5
2100W 360N	4 3	18	78	241	8	31	5	300	2 31	21	2	<2	2	18	1 2	1 5	< 5	246	13	102	19	42	31	377	035	1	1 23	002	06	<1	<1	1 5	<1	< 02	6
2100W 340N	7 8	42	266	544	1 3	69	4	462	2 76	45	4	<2	4	63	2 1	3 6	7	498	45	248	18	84	40	805	082	5	1 35	006	.09	1	<1	2.7	<1	08	6
2100W 320N	3 7	18	57	131	9	21	4	206	3 06	19	2	<2	4	10	8	1 1	< 5	195	07	128	19	42	32	258	059	2	1 55	003	.06	<1	<1	2 1	<1	<.02	7
2100W 300N	3 0	12	67	146	5	20	2	151	1 34	13	1	<2	4	24	5	1 1	< 5	150	12	081	18	31	22	236	070	2	87	002	05	<1	<1	1 7	<1	02	6
2100W 200S	15 2	68	231	479	1 7	62	6	662	2 11	33	7	<2	2	69	4 2	3 3	7	459	42	155	21	66	31	2049	057	3	1 35	007	10	1	<1	2 3	<1	07	5
2100W 210S	16 9	75	405	492	1 9	68	7	830	2 65	43	5	<2	2	64	2 9	2 9	2.3	511	31	.203	21	76	30	1028	055	4	1 44	006	09	2	<1	1 9	<1	.07	6
2100W 220S	15 8	113	225	397	4 3	52	4	346	1 83	29	10	<2	1	54	3 7	3 1	8	431	20	151	25	65	19	1761	039	1	1 26	008	10	1	<1	1 6	<1	10	5
2100W 230S	13 7	49	269	268	9	34	3	346	1 95	31	5	<2	4	52	1 6	2 6	9	428	22	150	21	55	19	736	070	2	1 18	004	08	2	<1	2 0	<1	06	6
STANDARD C3	26 2	62	38	159	5 4	37	12	832	3 26	57	20	<2	21	28	22 4	15 0	24 0	85	52	095	18	184	61	144	093	22	1 85	027	17	15	1	4 1	1	03	7
STANDARD G-2	1 6	3	2	42	< 1	9	4	571	1 84	2	2	<2	4	66	< 2	< 5	< 5	43	57	098	7	85	58	220	131	5	91	046	51	2	<1	1 8	<1	< 02	4

Sample type SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns

Data FA

Aurora Geosciences Ltd. PROJECT Hyland R FILE # A102663

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
2100W 240S	9 8	36	132	214	8	33	5	262	2 20	26	3	<2	4	37	1 2	2 5	< 5	287	22	141	17	44	26	729	052	<1	1 13	005	06	1	<1	2 1	<1	07	4
2100W 250S	9 3	31	137	172	8	25	3	201	2 16	22	3	<2	3	32	1 3	2 0	< 5	274	15	159	15	38	.18	813	054	2	1 06	005	.06	1	<1	1 9	<1	.07	5
2100W 260S	7 9	28	107	130	1 1	20	2	133	1 63	18	3	<2	4	25	6	1 7	<.5	238	10	087	16	34	15	557	045	1	1 01	004	05	<1	<1	1 5	<1	04	5
2100W 270S	13 0	77	165	331	1 1	55	7	455	2 40	30	5	<2	5	55	1 5	3 3	< 5	442	.27	154	19	54	33	2106	076	2	1 55	008	.09	2	<1	3 0	<1	.06	5
2100W 280S	9 3	27	107	167	1 5	26	4	202	2 58	22	2	<2	4	28	1 1	2 1	<.5	259	12	144	17	41	.26	896	058	<1	1 24	004	.06	1	<1	1 8	<1	.06	6
2100W 290S	14 2	60	221	281	1 9	43	4	243	2 55	30	4	<2	5	59	1 5	3 4	6	447	20	224	17	47	21	1571	067	2	1.38	007	09	1	<1	2 1	<1	09	5
2100W 300S	16 5	52	235	300	1 4	45	4	309	2 79	32	4	<2	6	64	1 4	4 0	5	494	26	247	19	54	25	1556	077	1	1 65	009	.10	1	<1	2 8	<1	10	5
2100W 310S	4 7	21	61	120	1 7	22	4	160	2 20	14	2	<2	4	11	6	1 2	< 5	142	06	079	16	41	28	321	037	1	1.48	003	04	<1	<1	2 3	<1	< 02	5
2100W 320S	10 8	40	240	269	2 1	45	4	302	2 70	34	4	<2	5	40	1 2	2 9	<.5	443	20	198	17	82	27	693	062	1	1.51	006	06	1	<1	2 5	<1	07	4
2100W 330S	5 1	17	77	106	2 9	16	3	149	1 90	11	1	<2	4	12	4	1 0	<.5	147	07	093	15	32	20	371	034	1	1 23	003	04	1	<1	1 9	<1	< 02	5
2100W 340S	11 6	38	148	204	4 1	31	3	204	2 83	29	3	<2	5	39	8	3.2	<.5	440	18	183	17	51	25	777	066	<1	1.55	006	07	1	<1	2 5	<1	07	5
2100W 350S	10 0	56	217	271	2 8	48	3	203	2 21	29	5	<2	4	31	1 1	3 6	.7	689	11	173	18	65	21	853	061	1	1 47	005	06	1	<1	2.3	<1	02	6
600S 2700W	7 1	27	100	179	1 6	26	4	183	2 54	22	2	<2	5	28	1 0	1 6	<.5	183	07	147	18	34	23	636	052	1	1.36	005	.06	<1	<1	2 2	<1	04	5
600S 2680W	7 4	27	90	165	1 0	25	4	202	3 13	25	2	<2	6	24	1 0	1 6	<.5	210	.07	197	18	39	28	608	058	2	1 54	005	.06	<1	<1	2 5	<1	03	6
600S 2660W	9 8	40	120	235	2 9	36	5	225	3 09	29	2	<2	6	34	1 1	2 3	< 5	240	08	179	19	43	29	862	058	2	1 72	005	07	<1	<1	2.9	<1	.04	5
600S 2640W	7 8	30	81	181	1 5	33	5	223	2 68	21	2	<2	6	28	1 2	1 9	<.5	171	07	124	17	39	33	774	053	4	1 53	004	06	<1	<1	2 5	<1	04	5
600S 2620W	5 6	17	35	99	3 9	17	5	186	2 91	12	1	<2	6	11	8	9	< 5	124	05	173	16	38	.26	282	060	1	1.88	004	05	<1	<1	2 7	<1	< 02	7
600S 2600W	9 2	21	99	106	8	15	2	79	2 13	17	2	<2	4	23	.7	1 6	< 5	259	05	.115	17	29	09	670	059	1	.93	003	.05	<1	<1	1 6	<1	03	6
RE 600S 2600W	8 8	21	97	102	7	14	2	81	2 06	16	2	<2	4	23	.7	1 6	< 5	259	05	.116	17	28	09	660	056	1	.91	004	05	<1	<1	1 5	<1	.03	6
600S 2580W	9 5	25	82	150	2 4	25	4	207	3 56	21	2	<2	5	25	1 1	2 0	< 5	268	08	276	16	39	24	528	086	2	1 16	007	.07	1	<1	2 0	<1	.06	7
600S 2560W	5 9	23	27	109	2 1	24	4	155	1 95	13	2	<2	3	16	8	1 0	< 5	169	16	116	17	31	32	676	023	2	1 37	002	.04	<1	<1	2 2	<1	.02	3
600S 2540W	6 2	27	19	111	8 1	24	6	249	3 06	14	4	<2	7	9	7	1 3	<.5	238	10	248	18	56	36	560	075	1	2 47	004	05	<1	<1	3 3	<1	< 02	6
600S 2520W	3 1	11	17	58	2 3	10	4	108	2 20	7	1	<2	5	6	4	6	< 5	81	04	078	15	31	24	203	050	2	1 47	003	03	<1	<1	2 2	<1	< 02	6
600S 2500W	7 6	32	61	189	2 9	29	6	228	2 52	16	3	<2	5	18	1 5	1 8	< 5	227	06	113	17	43	29	724	067	3	1 63	006	07	<1	<1	2 9	<1	.03	5
600S 2480W	10 8	32	99	181	3 3	30	5	202	3 87	23	3	<2	6	23	1 5	2 1	6	415	09	321	16	57	28	709	065	1	1.80	004	07	1	<1	2 7	<1	02	7
600S 2460W	11 1	42	84	200	2 1	33	5	190	2 68	23	3	<2	5	25	8	2 2	< 5	299	08	126	17	45	30	831	046	2	1 52	004	06	<1	<1	2 6	<1	02	5
600S 2440W	13 3	45	129	250	1 3	39	4	212	3 32	27	4	<2	6	29	1 0	2 6	6	514	09	225	16	54	27	1004	053	1	1 56	003	.07	1	<1	2.8	<1	.06	6
600S 2420W	8 2	31	72	195	1 6	34	6	241	2 63	16	2	<2	3	22	1 0	1 7	<.5	202	09	138	16	45	33	610	038	1	1 55	004	05	<1	<1	2 4	<1	.03	4
600S 2400W	12 6	42	107	231	11 3	32	5	222	2 84	25	4	<2	6	27	1 1	2 9	<.5	439	10	232	18	55	30	743	051	2	1 86	004	07	<1	<1	2 9	<1	.04	5
600S 2380W	6 5	13	117	105	5 6	16	4	203	3 04	13	2	<2	6	10	7	7	< 5	378	11	198	17	40	27	342	050	<1	1 43	002	.04	1	<1	2 3	<1	< 02	7
600S 2360W	9 0	43	92	301	6 1	44	4	339	2 52	22	5	<2	3	24	2 2	2 1	6	612	17	200	22	54	36	1551	044	2	1.30	003	07	1	<1	3 0	<1	04	5
600S 2340W	8 8	24	102	178	1 6	27	4	182	2 75	24	2	<2	4	16	9	2 0	5	317	06	134	16	44	28	579	041	1	1.33	004	06	1	<1	1 9	<1	04	5
600S 2320W	6 8	25	95	162	2 5	24	3	146	2 37	18	2	<2	5	16	8	1 5	6	357	08	142	17	42	24	609	038	3	1 73	003	05	1	<1	2 4	<1	02	6
700S 1500W	9 2	46	120	462	2 4	69	3	359	2 45	32	5	<2	4	77	1 5	4 5	< 5	638	67	394	20	95	43	575	072	4	1 23	002	07	2	<1	2 3	<1	.06	5
STANDARD C3	26 3	63	37	159	5 5	36	13	807	3 17	57	20	<2	21	27	23 4	14 1	23 8	82	54	096	17	168	56	150	087	20	1.78	029	16	14	1	4 3	1	02	7
STANDARD G-2	1 4	3	2	43	1	8	5	565	1 78	2	2	<2	3	66	< 2	< 5	< 5	43	61	099	7	79	58	219	123	<1	87	058	47	2	<1	2 2	<1	< 02	4

Sample type SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns

Data / FA ____

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
700S 1480W	4 6	19	54	193	1 7	28	4	243	2 47	16	2	<2	4	21	9	1 5	< 5	180	15	.213	17	45	26	242	039	3	1 17	003	05	1	<1	1 7	<1	.05	5
700S 1460W	6 2	29	92	303	2 6	42	4	287	2 45	22	3	<2	4	32	2 0	2 7	< 5	322	23	235	18	60	30	455	048	2	1.52	004	06	1	<1	2 0	<1	.03	5
700S 1440W	6 5	36	95	370	1 7	54	4	275	2 68	27	3	<2	5	47	1 2	3 1	< 5	408	37	322	19	72	.38	551	056	3	1.38	003	07	1	<1	2 3	<1	.04	5
700S 1420W	7 1	44	163	412	5 6	59	4	335	2 20	28	4	<2	5	53	1 3	3 9	< 5	406	43	279	18	79	34	525	054	3	1.54	003	06	2	<1	2 2	<1	04	4
700S 1400W	4 0	25	66	248	8 5	31	5	310	2 88	24	3	<2	7	21	2 0	1 7	< 5	341	24	368	17	70	29	294	059	2	1.57	004	06	1	<1	2 2	<1	<.02	6
700S 1380W	4 1	19	59	183	2 2	27	4	203	2 20	14	2	<2	5	15	9	1 4	< 5	165	11	129	19	46	29	314	047	1	1 36	003	06	<1	<1	2 1	<1	< 02	5
700S 1360W	2 2	9	42	100	2 6	12	2	121	1 59	7	1	<2	4	10	.7	6	< 5	106	.06	.084	17	33	17	233	032	1	1 35	003	04	<1	<1	1 8	<1	< 02	5
700S 1340W	1 7	8	49	59	1 1	7	1	54	68	5	1	<2	3	10	4	5	< 5	92	05	056	19	21	09	228	032	1	82	002	03	<1	<1	1 1	<1	< 02	4
700S 1320W	5 0	27	70	219	2 0	34	4	228	2 35	15	2	<2	5	17	1 0	1 5	< 5	217	11	.142	18	56	.36	367	058	2	1.61	003	07	<1	<1	1 9	<1	<.02	5
700S 1300W	10 5	83	176	534	1 3	83	5	357	2 29	33	4	<2	6	63	1 6	4 3	< 5	530	46	.234	22	89	58	1091	088	4	1.45	006	10	1	<1	2 4	<1	03	5
700S 1280W	7 6	48	123	387	1.7	55	5	369	2 91	27	3	<2	6	29	1 2	2 7	< 5	463	.22	.194	20	80	.60	627	074	3	1.78	005	10	1	<1	2 6	<1	< 02	6
700S 1260W	7 6	40	138	342	1 8	48	4	297	2 53	32	3	<2	6	39	1 1	3 2	< 5	326	30	.184	17	57	58	594	099	5	1.35	006	10	1	<1	2 3	<1	05	4
700S 1240W	5 2	38	80	291	1 1	40	5	302	2 35	19	2	<2	5	22	9	1 7	< 5	268	22	135	20	58	.53	504	054	4	1.53	.004	08	1	<1	2 5	<1	.02	5
700S 1220W	9 3	40	152	281	5	44	3	224	1 74	23	3	<2	4	40	1 0	3 5	< 5	405	24	.124	21	57	.37	585	089	3	.91	003	08	1	<1	2 0	<1	.03	5
700S 1200W	9 8	46	158	346	1 2	54	3	261	1 98	24	3	<2	3	52	1 5	3 8	< 5	418	36	.207	20	59	.43	774	075	4	1.10	004	10	1	<1	1 9	<1	.05	5
RE 700S 1200W	9 0	45	146	346	1 1	51	3	256	1 95	24	3	<2	3	53	1 4	3 7	< 5	426	38	.205	20	60	44	772	076	2	1.10	004	10	1	<1	1 9	<1	.03	5
700S 1180W	10 6	59	201	435	1 0	63	3	325	2 10	32	4	<2	5	73	1 9	4 5	< 5	533	56	.254	22	76	.58	1085	083	6	1 28	005	10	1	<1	2 1	<1	.06	5
700S 1160W	10 3	59	190	375	1 5	56	3	278	1 79	29	4	<2	3	73	1 7	4 5	< 5	486	53	231	22	67	44	1088	075	7	1.10	004	10	1	<1	2 0	<1	03	4
700S 1140W	9 6	64	175	420	2 1	61	3	324	1 74	26	4	<2	1	62	3 6	4 2	< 5	444	42	147	22	67	.43	2616	067	5	1.11	004	11	1	<1	2 0	<1	05	4
700S 1120W	9 4	86	175	520	2 5	74	4	340	1 76	25	5	<2	1	65	6 0	3 6	5	460	58	143	23	80	64	2860	070	3	1.28	008	14	1	<1	2 0	<1	.04	5
700S 1100W	8 6	71	187	457	8	62	4	444	1 68	24	5	<2	1	67	3 1	3 5	< 5	502	47	183	23	76	60	1932	067	3	1 26	007	12	1	<1	2 2	<1	.05	5
700S 1080W	9 1	53	189	371	1 3	54	3	329	1 39	24	4	<2	3	83	2 2	4 0	< 5	452	66	219	21	63	43	2072	077	8	93	006	12	1	<1	2 1	<1	05	4
700S 1060W	12 2	89	248	509	1 2	75	7	721	1 83	34	6	<2	5	97	3 9	5 7	< 5	557	71	.264	24	67	49	2608	092	5	1 03	005	13	1	<1	2 7	<1	06	3
700S 1040W	11 2	82	251	510	9	73	6	593	1 71	32	6	<2	5	98	3 9	4 7	< 5	562	72	.253	24	73	59	2736	090	5	1 06	006	13	1	<1	2 8	<1	07	4
700S 1020W	11 3	73	233	406	1 1	60	6	627	1 49	30	5	<2	4	94	3 6	5 1	< 5	488	68	.250	23	58	38	2499	075	7	86	005	10	1	<1	2 2	<1	05	3
700S 1000W	10 4	83	290	504	1 5	68	6	696	1 70	30	5	<2	4	104	5 7	4 8	< 5	499	89	280	22	65	47	2891	070	8	95	006	13	1	<1	2 8	<1	05	3
700S 980W	7 2	75	168	609	1 8	65	6	534	1 89	25	6	<2	2	73	6 7	2 8	< 5	427	86	166	20	73	70	2027	055	4	1.34	007	13	1	<1	2 5	<1	07	4
700S 960W	6 5	58	173	416	6	55	9	678	1 98	23	4	<2	3	66	4 1	2 7	< 5	267	62	155	19	54	67	1642	075	5	1.33	006	14	2	<1	2 7	<1	05	4
700S 940W	3 8	62	145	531	1 4	59	6	460	2 06	19	7	<2	2	72	5 5	1 9	< 5	214	99	.158	19	62	69	1086	071	4	1 50	008	13	<1	<1	2 6	<1	08	5
700S 920W	3 3	47	99	367	1 4	48	6	408	1 85	18	6	<2	2	65	4 1	1 4	< 5	175	86	141	17	51	60	917	064	4	1 43	009	12	<1	<1	2 3	<1	.07	5
700S 900W	4 0	35	97	332	2 7	43	6	275	2 05	16	2	<2	2	46	2 3	1 3	< 5	171	52	083	16	51	59	729	072	4	1.69	009	11	<1	<1	2 1	<1	05	6
700S 880W	4 4	31	105	271	1 3	35	8	581	2 09	19	2	<2	1	37	1 5	1 3	< 5	197	34	.116	18	47	53	585	056	2	1 32	004	09	1	<1	1 8	<1	04	4
700S 860W	3 7	44	131	470	1 3	55	8	558	2 50	23	4	<2	2	62	2 6	1 3	< 5	210	69	.135	19	61	.78	973	083	5	1 96	009	14	<1	<1	3 0	<1	06	6
700S 840W	2 9	31	98	265	7	36	6	466	1 91	17	2	<2	2	47	2 4	1 2	< 5	158	57	113	18	43	53	656	072	3	1 24	007	09	<1	<1	2 1	<1	.04	4
STANDARD C3	27 3	66	38	165	5 6	35	12	795	3 41	58	21	<2	23	28	22 5	14 2	25 1	83	55	099	18	183	56	154	092	18	1 81	031	18	14	1	4 2	1	04	7
STANDARD G-2	1 5	3	2	44	< 1	9	5	549	1 94	1	3	<2	5	69	< 2	< 5	< 5	43	61	101	8	87	59	234	130	4	92	058	50	2	<1	2 3	<1	< 02	4

Sample type SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns

Data A FA

ACME ANALYTICAL

Aurora Geosciences Ltd. PROJECT Hyland R FILE # A102663 Page 8

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
700S 820W	3 0	35	80	243	6	38	6	325	1 79	17	2	<2	4	54	1 5	1 4	< 5	123	56	118	18	39	66	800	101	2	1 50	011	13	1	<1	2.8	<1	07	4
700S 800W	3 2	36	80	258	7	35	5	305	1 73	13	2	<2	2	48	2 2	1 2	< 5	135	49	113	19	39	60	886	079	3	1 50	007	12	1	<1	2.3	<1	07	5
900S 1500W	6 8	43	135	378	2 9	53	3	240	2 46	24	3	<2	5	39	1 4	2 6	< 5	366	24	249	19	63	55	699	062	2	1.63	003	06	1	<1	2 2	<1	02	5
900S 1480W	7 4	34	77	258	1 7	40	4	210	2 31	20	3	<2	5	28	9	2 6	< 5	276	16	197	18	54	45	451	049	3	1 48	003	06	1	<1	2 1	<1	03	5
900S 1460W	4 0	18	49	155	1 5	20	3	139	1 80	13	2	<2	5	14	7	1 2	< 5	198	09	154	18	38	23	349	042	2	1 20	003	04	1	<1	1.9	<1	02	5
900S 1440W	7 3	30	81	283	1 7	41	4	229	2 35	20	2	<2	5	27	1 1	2 4	< 5	271	17	190	20	49	48	528	057	2	1 54	.003	06	1	<1	2 5	<1	02	5
900S 1420W	3 9	22	46	232	3 9	26	5	171	2 63	18	2	<2	4	13	1 9	1 4	< 5	209	11	219	17	44	37	416	048	1	1 52	003	06	<1	<1	2 3	<1	< 02	5
900S 1400W	5 6	24	67	174	1 2	25	2	111	1 48	14	2	<2	3	21	9	1.7	< 5	240	14	185	19	41	24	595	051	1	1.10	.003	06	1	<1	1.6	<1	< 02	5
900S 1380W	5 7	37	83	226	5 2	32	5	237	2 04	19	3	<2	4	23	1 8	1 8	< 5	249	14	167	19	42	.31	824	043	2	1.32	004	07	1	<1	2 1	<1	03	5
900S 1360W	5 5	21	95	153	2 2	20	2	100	1 45	14	2	<2	3	22	1 1	1 4	< 5	245	12	124	20	35	.22	647	046	1	1.03	003	06	<1	<1	1.6	<1	02	5
900S 1340W	10 6	54	233	313	7	48	2	186	1 58	27	4	<2	4	61	1 7	3 9	< 5	498	34	207	22	60	36	1283	076	3	1.17	003	09	1	<1	2.2	<1	03	4
900S 1320W	9 2	48	143	330	2 1	45	3	207	1 73	20	3	<2	3	37	1 5	2 8	< 5	412	17	126	21	57	45	937	071	3	1.34	.003	10	1	<1	2.0	<1	< 02	6
900S 1300W	10 9	65	205	412	2.6	67	4	287	2 05	36	5	<2	6	66	2 1	4.5	< 5	604	47	294	24	76	62	1367	076	4	1.60	.003	13	1	<1	2.7	<1	03	5
RE 900S 1300W	11 3	66	210	416	2 6	68	4	278	2 14	36	5	<2	5	69	2 2	4.4	< 5	592	43	279	23	77	61	1352	076	4	1.52	004	13	1	<1	2 7	<1	02	5
900S 1280W	14 0	94	250	430	1.6	74	4	548	1 57	38	7	<2	4	116	3 3	6 5	5	728	64	287	25	74	.48	2831	080	5	1 09	.005	16	1	<1	2 7	<1	05	4
900S 1260W	11 4	66	220	369	2 2	59	3	279	1.59	26	5	<2	1	64	2 8	4 6	5	586	37	202	23	81	48	1711	059	5	1 25	003	.14	<1	<1	1 7	<1	03	5
900S 1240W	11 9	82	203	483	1 6	75	4	461	1 83	36	6	<2	3	87	3 1	4 8	< 5	615	54	.270	25	77	69	1960	082	5	1 44	005	.16	1	<1	2 6	<1	04	5
900S 1220W	11 8	75	215	387	1 5	58	3	187	1 97	34	6	<2	4	63	2 6	4 5	5	489	39	326	22	62	41	1843	062	2	1.47	004	11	2	<1	2.9	<1	03	5
900S 1200W	8 9	69	137	248	1 9	40	2	109	1 30	19	5	<2	<1	45	3 2	3 6	<.5	321	17	142	18	46	21	1590	025	2	.89	008	07	<1	<1	.7	<1	04	3
900S 1180W	10 6	47	131	329	1 3	51	3	197	2 34	27	3	<2	3	54	2 2	4.3	< 5	409	32	302	20	54	44	1056	059	3	1 28	004	09	1	<1	2.0	<1	04	5
900S 1160W	13 0	76	137	435	1 2	70	7	608	1 67	47	5	<2	4	104	3 5	6 3	< 5	552	58	274	24	72	66	2082	090	6	1 25	.006	16	1	<1	2 5	<1	05	3
900S 1140W	12 1	53	235	314	7	49	2	186	1 58	28	5	<2	2	91	2 0	5 1	< 5	504	50	307	22	60	.32	1496	065	3	1.07	004	11	1	<1	1 8	<1	05	4
900S 1100W	8 1	96	85	538	5 6	80	8	371	2 96	28	5	<2	8	29	3 1	3 3	< 5	425	23	208	22	74	71	1208	086	3	2 15	006	13	1	<1	3.6	<1	< 02	7
900S 1080W	4 7	17	66	98	9	13	1	50	71	8	2	<2	<1	22	8	1 4	5	150	08	061	20	26	10	524	042	1	.61	002	06	<1	<1	8	<1	03	4
900S 1060W	11 2	83	247	439	2 2	67	3	285	1 46	27	6	<2	2	91	2 7	4 4	< 5	505	53	252	23	63	.49	2161	070	3	1 11	005	12	1	<1	2 3	<1	06	4
900S 1040W	11 8	81	266	541	1 7	74	7	743	1 71	31	6	<2	3	114	4 1	4.9	< 5	528	65	263	24	64	55	2578	073	5	1 17	006	13	1	<1	2.5	<1	04	4
900S 1020W	4 2	52	60	213	2 2	40	4	153	1 82	14	3	<2	1	35	1 1	1.1	< 5	141	21	134	16	42	84	756	046	2	2 05	006	12	<1	<1	1.5	<1	06	6
900S 1000W	3 4	73	115	313	9	65	15	598	2 26	15	2	<2	4	43	1 2	6	6	131	34	145	15	48	1 36	565	109	2	2 78	004	20	1	<1	3.0	<1	04	9
900S 980W	4 4	99	217	421	8	71	29	1078	2 86	17	3	<2	6	48	2 0	6	9	134	41	153	18	51	1 65	636	126	2	3 18	006	38	1	<1	4.3	1	05	9
900S 960W	3 4	52	60	233	4	42	11	454	2 10	13	2	<2	5	36	1 1	1 2	< 5	116	24	096	19	38	91	597	096	3	1 87	006	14	<1	<1	2.6	<1	04	6
900S 940W	4 1	41	52	199	3	40	6	258	2 18	13	2	<2	4	37	9	1 4	< 5	133	22	109	20	41	62	548	085	3	1 61	007	11	<1	<1	2.2	<1	06	5
900S 920W	3 4	76	150	323	3	56	14	721	2 69	14	2	<2	7	42	1 2	9	5	131	31	126	19	45	1 38	533	129	3	2 39	007	25	1	<1	3 3	1	06	8
900S 900W	6 4	123	94	328	7	55	13	671	2 88	20	5	<2	6	149	1 5	1 2	5	241	1 17	629	18	52	1 34	741	087	2	2 56	007	31	1	<1	3 8	1	09	8
900S 880W	5 4	40	60	194	7	32	6	262	2 91	19	2	<2	3	36	1 0	1.6	< 5	141	13	113	19	42	56	557	070	3	1 62	008	13	<1	<1	2.0	<1	09	5
STANDARD C3	26 7	63	41	161	5 5	35	12	800	3 27	57	21	<2	21	30	22 0	13 3	24 1	83	53	094	19	165	62	165	091	16	1.79	.028	18	14	1	4 3	1	02	7
STANDARD G-2	1 7	3	2	45	< 1	9	4	565	1 97	1	2	<2	4	78	< 2	< 5	< 5	44	63	102	8	82	65	263	134	1	1 02	062	52	2	<1	2 6	<1	< 02	5

Sample type SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns

Data A. FA ____

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
900S 860W	3.2	20	32	75	1 0	16	3	74	2 01	10	2	<2	2	30	1 7	8	< 5	68	07	.094	16	27	16	348	.066	1	84	.008	07	<1	<1	1.2	<1	09	5
900S 840W	6 2	50	35	164	1 2	40	7	221	5.68	21	5	<2	8	146	9 6	1 2	< 5	110	12	210	18	61	39	955	160	1	2 26	.036	16	<1	<1	2.5	<1	29	7
900S 820W	5 6	35	79	153	4	30	6	233	3 23	25	3	<2	5	65	1 0	1 9	< 5	131	17	157	19	39	31	480	103	1	1 17	.015	12	1	<1	1.8	<1	16	4
900S 800W	6 3	35	118	285	1 3	46	6	211	2 84	22	3	<2	6	47	1 5	1 9	8	146	24	165	19	45	49	480	083	2	1 53	.010	09	<1	<1	1 9	<1	08	5
1100S 1500W	5 8	24	26	179	4 2	22	4	122	2 44	13	2	<2	4	14	1 2	2 0	<.5	148	07	179	18	46	24	392	042	1	1 54	.004	05	<1	<1	2 4	<1	02	6
1100S 1480W	6.0	24	35	144	3 9	24	4	114	2.52	18	3	<2	5	17	9	2 3	< 5	249	11	278	18	48	25	403	.045	2	1 40	004	05	1	<1	2.0	<1	< 02	6
1100S 1460W	10 5	105	124	608	1 7	90	5	406	2 13	34	6	<2	5	59	3 2	4 2	< 5	628	38	183	24	105	66	2191	.086	2	1 41	006	11	1	<1	2.6	<1	< 02	6
1100S 1440W	20 9	113	158	478	3 1	80	5	211	1 83	47	7	<2	5	128	2 4	9 5	<.5	471	58	333	23	64	32	2647	084	4	1.05	009	15	1	<1	1.9	<1	08	3
1100S 1420W	13 2	41	90	296	1.6	47	3	147	2 24	29	3	<2	5	47	1 1	4 9	<.5	383	25	.314	19	58	37	1013	070	1	1.20	005	09	1	<1	1.9	<1	04	6
1100S 1400W	16.2	111	479	455	1 0	76	3	421	1 55	39	9	<2	6	147	3 7	6 4	5	831	.86	430	27	92	38	1745	082	6	1.05	.005	11	2	<1	2.4	<1	04	4
1100S 1380W	19.0	108	269	626	2 6	100	5	423	2 31	45	8	<2	5	100	2 7	6 8	< 5	796	52	.329	25	106	62	1869	.089	3	1.51	.006	15	1	<1	2.8	<1	05	6
1100S 1360W	16 6	95	324	587	1.7	96	4	340	2.04	37	7	<2	4	83	3 1	5 9	5	795	.49	.303	26	111	61	1983	.090	5	1.47	.006	.15	1	<1	2.7	1	04	6
1100S 1340W	16 0	116	409	586	1.9	93	7	1025	1.66	41	8	<2	5	123	5 1	7 3	5	805	68	.317	27	88	55	2739	.086	5	1.13	.005	.14	2	<1	2.7	<1	03	4
1100S 1320W	8.6	37	70	268	2 9	37	5	228	3.13	26	3	<2	6	34	2 1	3 2	< 5	338	22	.448	19	54	32	1276	.050	2	1 50	.005	07	1	<1	2.0	<1	03	6
1100S 1300W	10.5	34	58	274	1 6	38	4	176	2.58	32	3	<2	5	33	2 4	3 8	< 5	322	19	311	18	50	37	831	.065	3	1.23	.005	08	1	<1	1.8	<1	02	6
1100S 1280W	15 7	46	78	268	2 1	49	3	126	2.09	36	4	<2	4	61	1 5	5 6	< 5	387	36	293	20	53	39	1075	.070	4	1.15	005	08	1	<1	1.7	<1	04	5
1100S 1260W	9 1	34	45	222	2 6	38	5	169	2 77	27	2	<2	6	28	1 3	3 4	<.5	240	19	230	20	51	43	536	.048	1	1.57	.003	08	1	<1	2.0	<1	02	5
1100S 1240W	11 2	44	62	249	2.5	46	5	179	2 99	33	2	<2	5	30	1.3	4 2	<.5	270	.14	192	19	45	49	475	053	3	1.23	.004	.07	1	<1	1.8	<1	< 02	5
1100S 1220W	13 1	79	74	464	2.8	78	10	368	2 16	38	4	<2	5	63	3 4	5 5	< 5	318	.40	.213	22	51	64	1858	068	4	1.26	.006	11	1	<1	2.0	<1	05	4
1100S 1200W	12 5	66	119	441	1 6	67	5	265	1 96	36	4	<2	4	67	2 4	4 9	< 5	360	43	.217	20	57	70	1584	071	3	1.28	.004	12	1	<1	1.9	<1	05	5
RE 1100S 1200W	12 2	65	117	438	1 6	68	5	261	2 08	37	4	<2	4	68	2 2	5 1	< 5	352	44	.233	20	55	71	1599	068	4	1.32	005	11	1	<1	2.0	<1	05	5
1100S 1180W	9 5	47	68	262	2.3	44	3	138	1 76	27	3	<2	1	46	2 3	3 7	< 5	245	33	.144	19	41	42	1351	044	2	1.02	005	08	1	<1	1.2	<1	03	4
1100S 1160W	11 1	59	99	322	1 8	49	6	328	1 85	32	3	<2	3	44	1 8	4 4	< 5	333	24	169	21	49	53	1346	059	2	1 17	.005	11	1	<1	1.7	<1	03	5
1100S 1140W	11 5	50	124	274	1 7	46	3	195	1 46	27	3	<2	3	72	1 8	5 1	< 5	305	44	.228	21	44	43	1568	061	3	85	.005	10	1	<1	1.5	<1	05	3
1100S 1120W	10 9	87	153	640	1 9	89	5	336	2.00	32	6	<2	4	114	6 0	5 0	< 5	441	80	.248	21	78	73	2448	073	3	1 35	009	16	1	<1	2 7	<1	07	5
1100S 1100W	13 7	127	169	664	2 6	96	6	532	2 17	39	7	<2	2	88	5.7	5 4	5	582	48	232	25	87	82	3221	066	4	1 65	.007	17	1	<1	2.7	<1	05	6
1100S 1080W	3 7	47	108	342	5	50	18	588	2 93	13	3	<2	6	51	1 8	1 3	1 0	113	22	118	19	42	49	395	100	2	1 50	010	09	1	<1	2 2	<1	07	5
1100S 1060W	4 2	46	75	264	1 8	35	5	212	2.19	12	2	<2	1	32	1 9	1 4	6	134	17	059	17	42	43	381	055	1	1 45	005	08	<1	<1	1.4	<1	05	7
1100S 1040W	4 6	41	100	386	1 3	50	7	263	2 52	15	2	<2	2	28	1 4	1 7	5	135	20	.105	18	47	70	414	057	2	1 74	004	09	1	<1	2.2	<1	03	6
1100S 1020W	3 9	22	88	298	1 0	31	6	246	2 98	17	1	<2	4	19	1 7	1 7	5	128	14	125	16	41	54	252	.065	1	1 54	004	07	1	<1	1.9	<1	03	6
1100S 1000W	3 4	22	80	258	1 1	27	4	203	2 50	12	1	<2	3	21	1 5	1 2	6	129	13	079	17	36	40	285	.088	2	1 33	004	07	1	<1	1.7	<1	03	7
1100S 980W	1 9	17	59	284	6	25	5	218	2 28	8	1	<2	2	15	1 3	8	< 5	84	15	109	15	34	56	189	046	2	1 43	003	06	1	<1	1.6	<1	02	6
1100S 960W	1 1	12	43	171	1 7	12	3	98	1 29	3	1	<2	1	11	2 0	< 5	< 5	53	10	043	16	21	23	244	044	2	1 03	004	04	<1	<1	1 4	<1	< 02	5
1100S 940W	2 1	18	84	336	1 5	28	6	244	2.90	12	1	<2	5	16	1 9	9	< 5	96	17	098	15	39	57	193	060	2	1 61	004	08	1	<1	1.9	<1	02	6
STANDARD C3	26 8	65	37	165	5 4	38	13	815	3 23	58	21	<2	21	28	22 2	13 6	24.7	85	54	099	18	173	62	145	092	18	1 81	033	17	15	1	4 0	1	03	8
STANDARD G-2	1 6	3	2	47	< 1	9	5	556	1 99	1	2	<2	5	72	< 2	< 5	< 5	46	61	107	8	81	59	226	131	2	.92	074	53	2	<1	2 1	<1	< 02	5

Sample type SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns

Data / FA ____

Aurora Geosciences Ltd. PROJECT Hyland R FILE # A102663

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
1100S 920W	1 4	12	45	216	1 3	16	3	154	1 42	6	1	<2	3	15	2 1	< 5	<.5	62	14	041	15	26	29	186	059	3	1 07	004	07	1	<1	1 8	<1	03	5
1100S 900W	3 4	25	121	370	4	34	4	218	2 20	15	1	<2	4	21	2 2	1 2	7	161	21	087	16	42	47	240	056	4	1.27	003	07	1	<1	2 2	<1	< 02	5
1100S 880W	3 7	36	111	648	1 2	47	5	261	2 53	18	2	<2	2	26	2 3	1 6	6	215	26	134	16	45	53	256	048	1	1 54	003	07	1	<1	2 2	<1	.03	5
1100S 860W	4.4	31	116	358	3	42	4	244	1 94	17	1	<2	2	23	1 1	1 6	7	163	19	078	13	40	56	270	.063	5	1 28	.003	07	1	<1	1 8	<1	03	5
1100S 840W	3 2	24	88	305	7	33	5	232	2 05	15	1	<2	3	23	1 3	1 3	6	124	20	096	16	37	.52	208	.056	1	1 24	002	08	<1	<1	2 0	<1	05	6
1100S 820W	1 5	11	45	169	1 1	17	4	168	1 60	7	1	<2	5	12	7	< 5	< 5	76	14	043	17	27	41	166	052	1	1.27	003	05	<1	<1	2.2	<1	03	6
1100S 800W	2 2	18	48	246	1 1	28	4	194	1 76	10	1	<2	3	19	1 3	8	< 5	103	21	071	16	33	48	236	041	2	1 30	003	08	<1	<1	2.3	<1	06	6
RE 1100S 800W	2.3	18	52	242	1 0	27	4	197	1 77	10	1	<2	3	18	1 2	8	< 5	102	21	069	16	33	46	239	.040	2	1 25	.002	07	<1	<1	2.1	<1	04	5
STANDARD C3	26 7	63	37	158	5 4	34	12	782	3.07	58	20	<2	21	27	22 7	14 9	23 3	84	57	101	17	189	58	142	.094	20	1 80	.029	18	17	1	4.5	1	03	8
STANDARD G-2	1 8	3	3	48	< 1	9	5	614	2 04	<1	2	<2	5	74	< 2	< 5	< 5	44	70	112	8	90	.62	234	.145	3	98	053	56	5	<1	2 7	<1	< 02	5

Sample type SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns

Data FA

APPENDIX IV

GRID GPS COORDINATES

2001 GPS SURVEY POINTS

Property Grid		GPS reading (UTM - NAD 27)		
Northing	Easting	Easting	Northing	Comments
1500	0	551989	6688615	
1500	-1400	550620	6688127	in dense trees (on cut line bearing 70 deg)
1250	-1650	550707	6687818	
1000	0	552156	6688155	
800	0	552236	6687959	
800	-1450	550851	6687423	
800	-1700	550608	6687322	
800	-2100	550222	6687181	
800	-2300	550035	6687108	
500	0	552330	6687699	
500	-1500	550977	6687125	
300	-2300	550174	6686659	
0	0	552485	6687283	
0	-1400	551166	6686735	
0	-1500	551076	6686690	
-200	-2500	550257	6686174	
-250	-1500	551250	6686444	
-250	-2450	550318	6686134	
-250	-2750	550016	6686035	
-440	-2500	550369	6685959	coincides with 1995 grid point L500S/2380W
-500	-1600	551160	6686185	
-500	-2300	550423	6685985	
-500	-2500	550234	6685903	
-740	-2500	550319	6685704	2001 grid survey point
-750	-1650	551269	6686077	
-750	-3000	550012	6685591	elev = 3460'
-900	-800	552127	6686128	
-900	-1040	551826	6685822	
-900	-1500	551487	6685969	
-1000	0	552912	6686320	
-1000	-800	552159	6686030	
-1000	-1750	551220	6685754	
-1000	-2200	550818	6685601	
-1000	-2550	550513	6685500	
-1100	-800	552193	6685932	

Note negative Property Grid Northing numbers are South and negative Easting numbers are West

ABCDE

OVERSIZE

5 maps

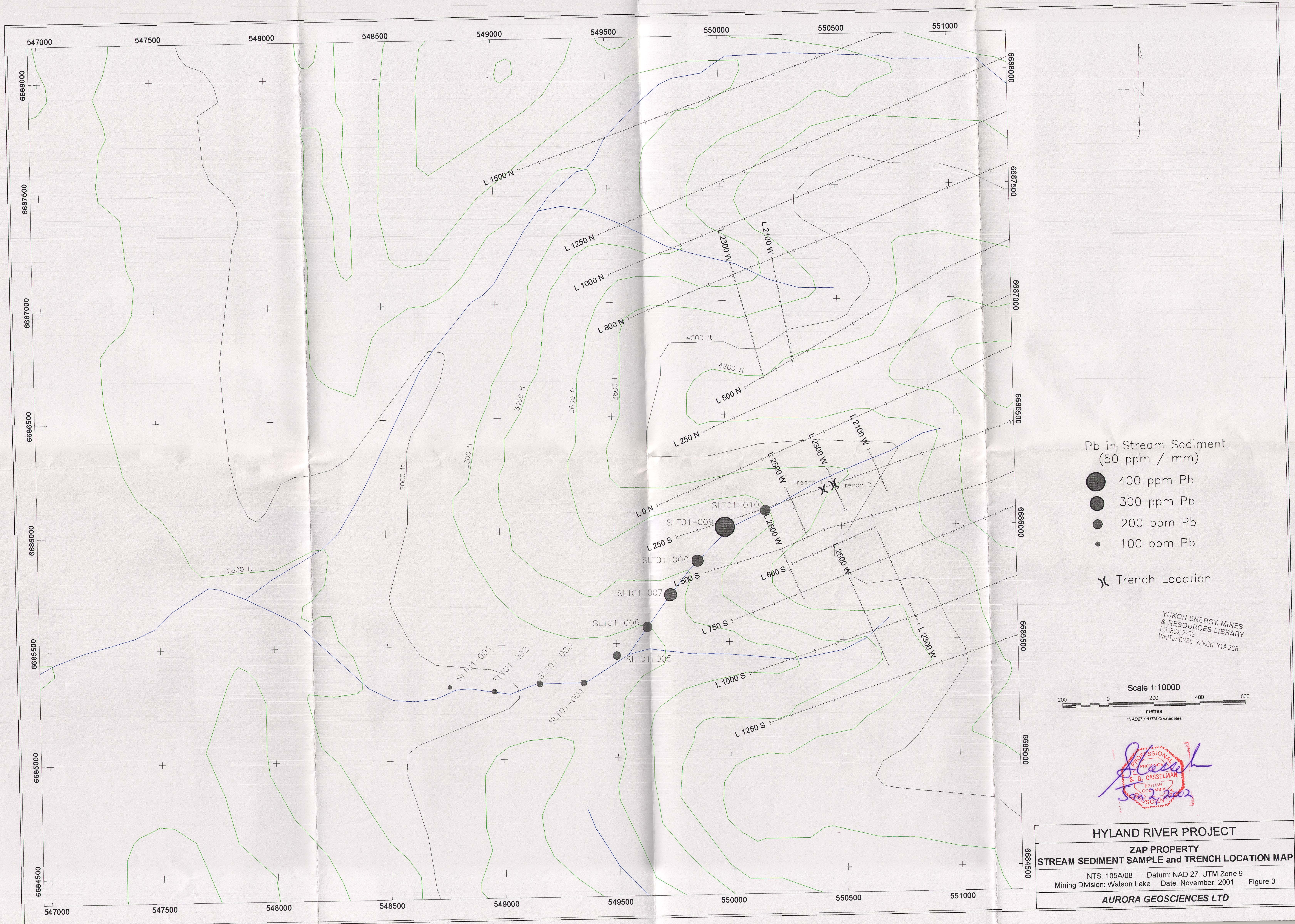
Plastic sleev #1

324 ABC

OVERSIZE

3 maps
Plastic sleeve #2

324


Pb in Stream Sediment
(50 ppm / mm)
400 ppm Pb
300 ppm Pb
200 ppm Pb
100 ppm Pb
Trench Location
Trench 1
Trench 2
SLT01-001
SLT01-002
SLT01-003
SLT01-004
SLT01-005
SLT01-006
SLT01-007
SLT01-008
SLT01-009
SLT01-010
L 1500 N
L 1250 N
L 1000 N
L 800 N
L 500 N
L 250 N
L 0 N
L 250 S
L 500 S
L 600 S
L 750 S
L 1000 S
L 1250 S
L 2300 W
L 2100 W
L 2500 W
2800 ft
3000 ft
3200 ft
3400 ft
3600 ft
3800 ft
4000 ft
4200 ft
547000
547500
548000
548500
549000
549500
550000
550500
551000
6688000
6687500
6687000
6686500
6686000
6685500
6685000
6684500
N
Scale 1:10000
200
0
200
400
600
metres
*NAD27 / *UTM Coordinates
YUKON ENERGY, MINES & RESOURCES LIBRARY
P.O. BOX 2703
WHITEHORSE, YUKON Y1A 2C6
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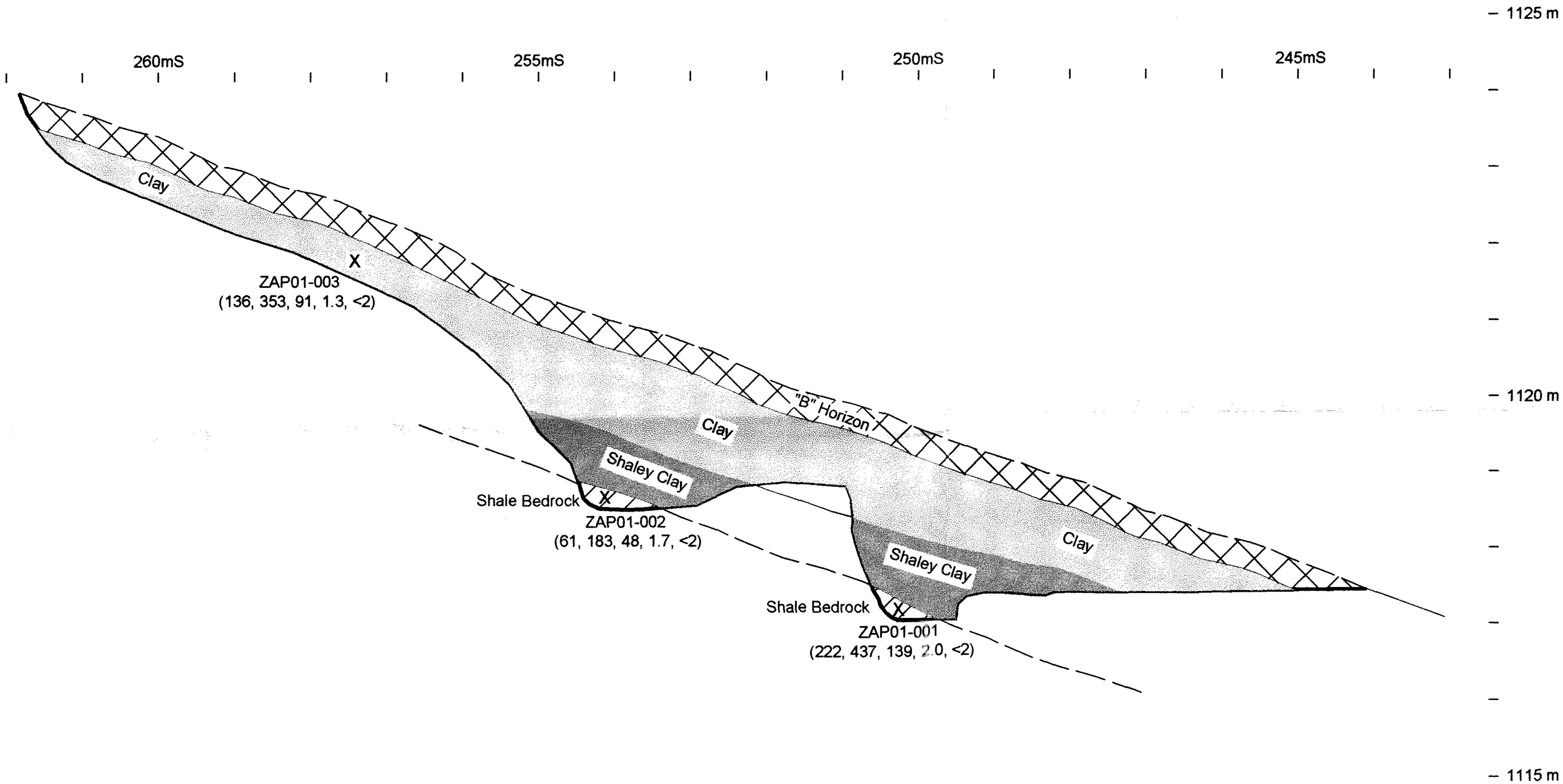
PROVINCE
S. G. CASSELMAN
BRITISH COLUMBIA
HYLAND RIVER PROJECT
ZAP PROPERTY
STREAM SEDIMENT SAMPLE and TRENCH LOCATION MAP
NTS: 105A/08
Datum: NAD 27, UTM Zone 9
Mining Division: Watson Lake
Date: November, 2001
Figure 3
AURORA GEOSCIENCES LTD



X Sample Number

(Pb ppm, Zn ppm, Cu ppm, Ag ppm, Au ppb)

0 3m

metres

Scale: 1:150

HYLAND RIVER PROSPECT

HAND TRENCH #1
L 250 S / 2350 W

NTS: 105 A/8	FIGURE 4.
Mining District: Watson Lake	
Job: AGL-28-YT	Date: 15 Dec 01

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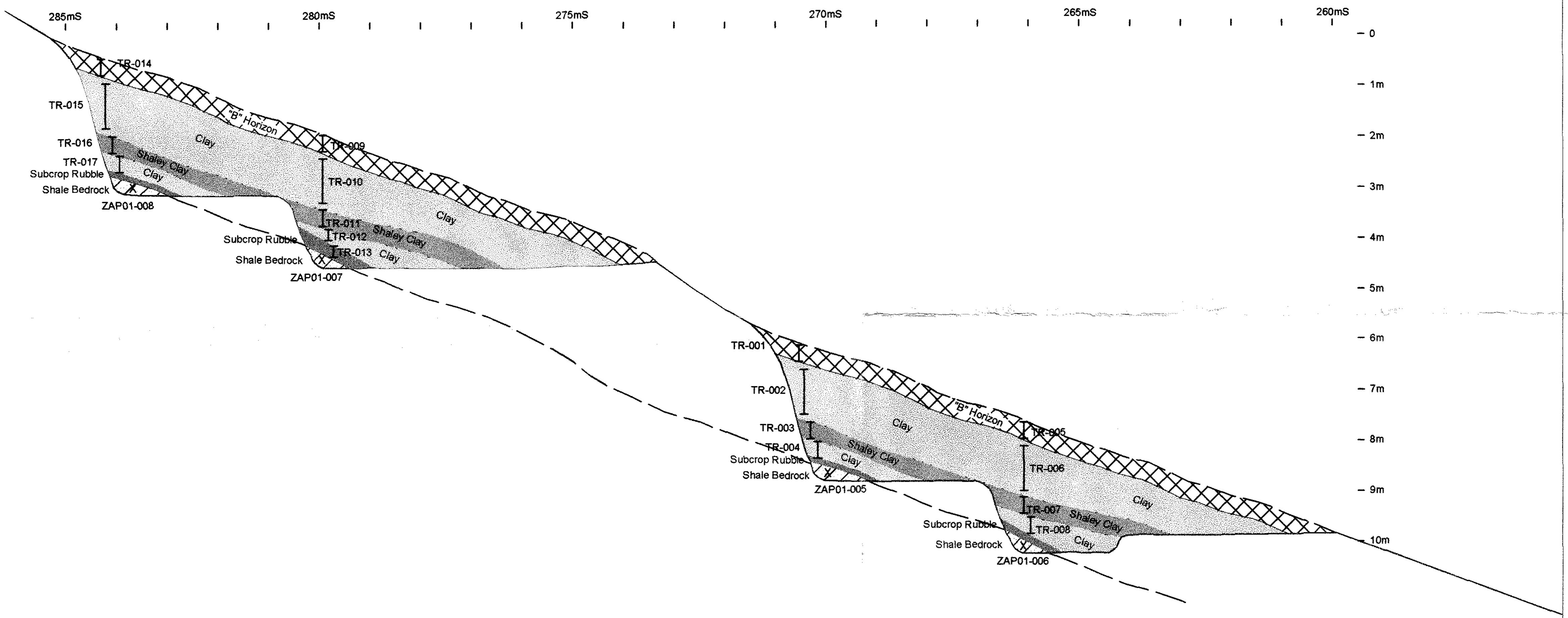

Sample #	Pb ppm	Zn ppm	Cu ppm	Ag ppm	Au ppb
TR-001	1939	1023	120	2.0	<2
TR-002	1916	1069	152	2.4	<2
TR-003	510	885	170	2.6	<2
TR-004	295	705	151	1.7	<2
TR-005	1892	967	103	1.7	<2
TR-006	323	684	145	1.5	<2
TR-007	223	789	151	1.6	<2
TR-008	301	834	168	1.8	<2
TR-009	277	372	60	0.7	<2
TR-010	2663	956	117	1.8	<2
TR-011	2312	1944	153	1.2	<2
TR-012	1008	1471	214	1.2	<2
TR-013	366	504	83	1.5	<2
TR-014	210	476	90	1.7	<2
TR-015	114	260	55	1.8	<2
TR-016	5108	1637	217	1.4	<2
TR-017	2419	1987	155	1.1	<2

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0 5m
metres
Scale: 1:100

HYLAND RIVER PROSPECT

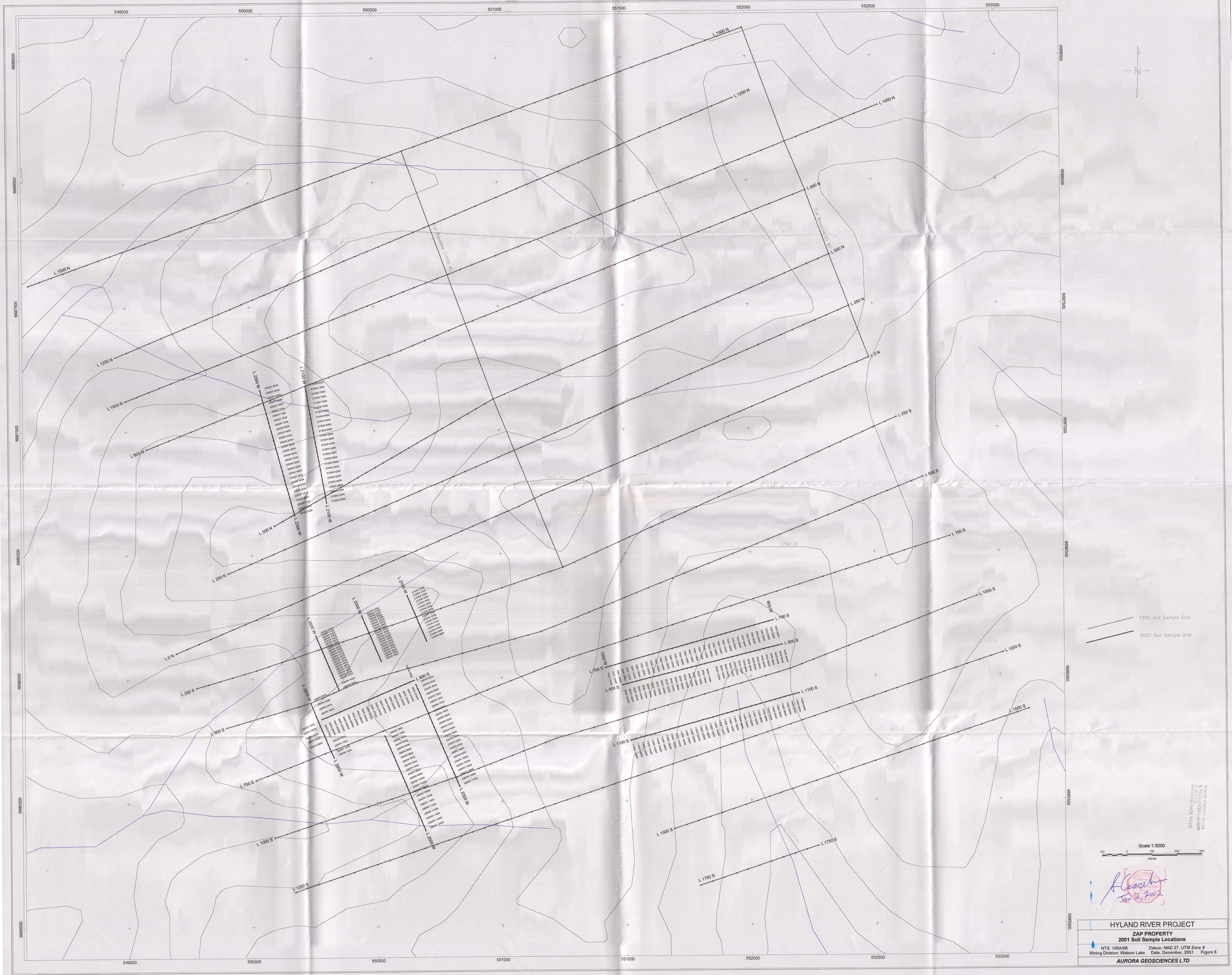
HAND TRENCH #2
LINE 2300 W

NTS: 105 A/8 — FIGURE 5.

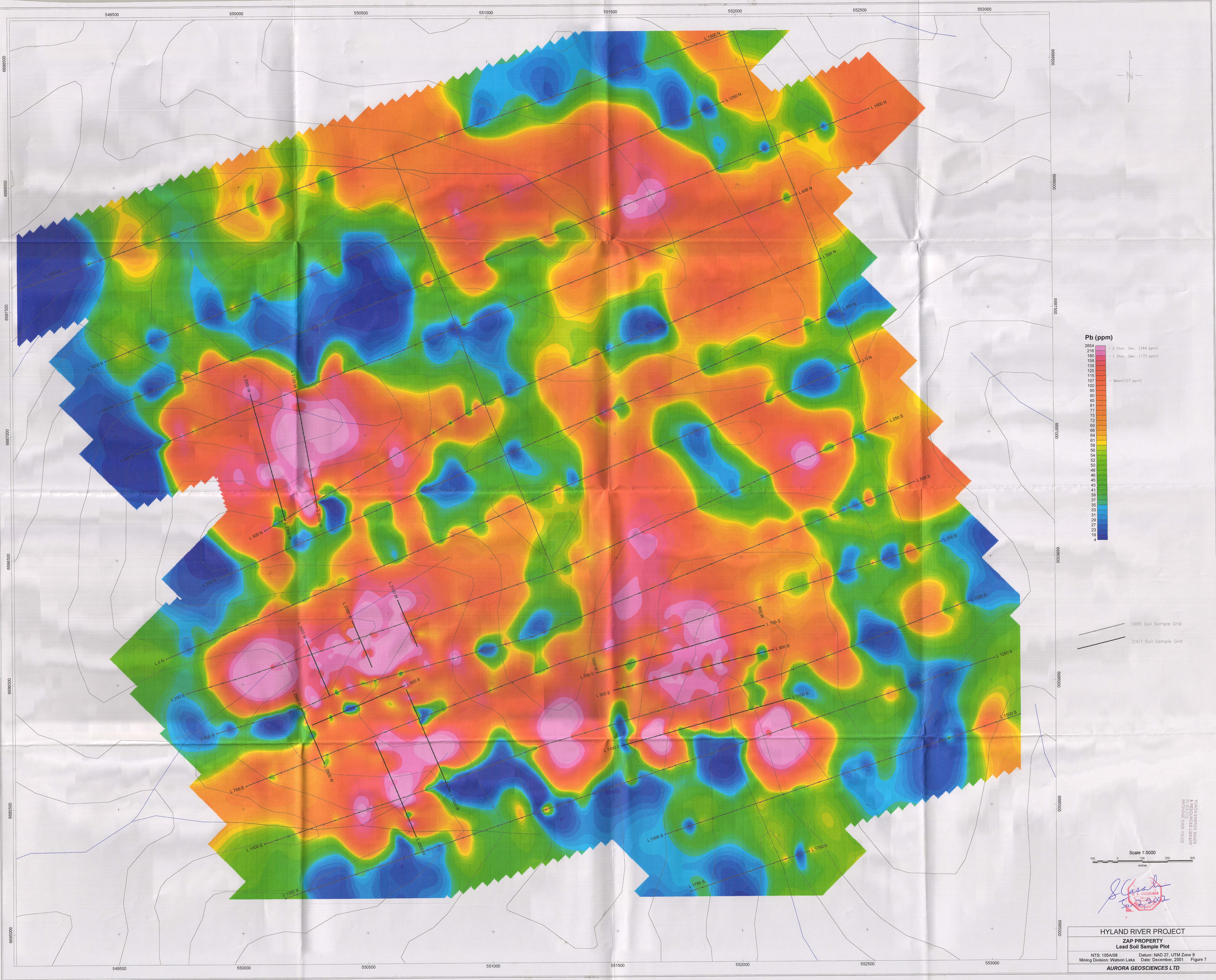
Mining District: Watson Lake

Job: AGL-28-YT — Date: 15 Dec 01

AURORA GEOSCIENCES LTD.



549500
550000
550500
551000
551500
552000
552500
553000
6688500
6688000
6687500
6687000
6686500
6686000
6685500
6685000
L 1500 N
L 1250 N
L 1000 N
L 800 N
L 500 N
L 250 N
L 0 N
L 250 S
L 500 S
L 700 S
L 750 S
L 900 S
L 1000 S
L 1100 S
L 1250 S
L 1500 S
L 1750 S
L 2300 W
L 2100 W
L 2500 W
Cut Baseline (1500 W)
Cut Baseline (0 W)
1995 Soil Sample Grid
2001 Soil Sample Grid
Scale 1:5000
100 0 100 200 300
metres
HYLAND RIVER PROJECT
ZAP PROPERTY
2001 Soil Sample Locations
NTS: 105A/08
Datum: NAD 27, UTM Zone 9
Mining Division: Watson Lake
Date: December, 2001
Figure 6
AURORA GEOSCIENCES LTD



549500
550000
550500
551000
551500
552000
552500
553000
6688500
6688000
6687500
6687000
6686500
6686000
6685500
6685000
Pb (ppm)
2854
216
180
158
139
125
115
107
100
95
90
85
81
77
75
72
69
66
64
61
58
56
54
52
50
48
46
45
43
41
39
37
35
33
31
29
27
23
19
4
- 2 Stan. Dev. (344 ppm)
- 1 Stan. Dev. (172 ppm)
- Mean(107 ppm)
1995 Soil Sample Grid
2001 Soil Sample Grid
Scale 1:5000
metres
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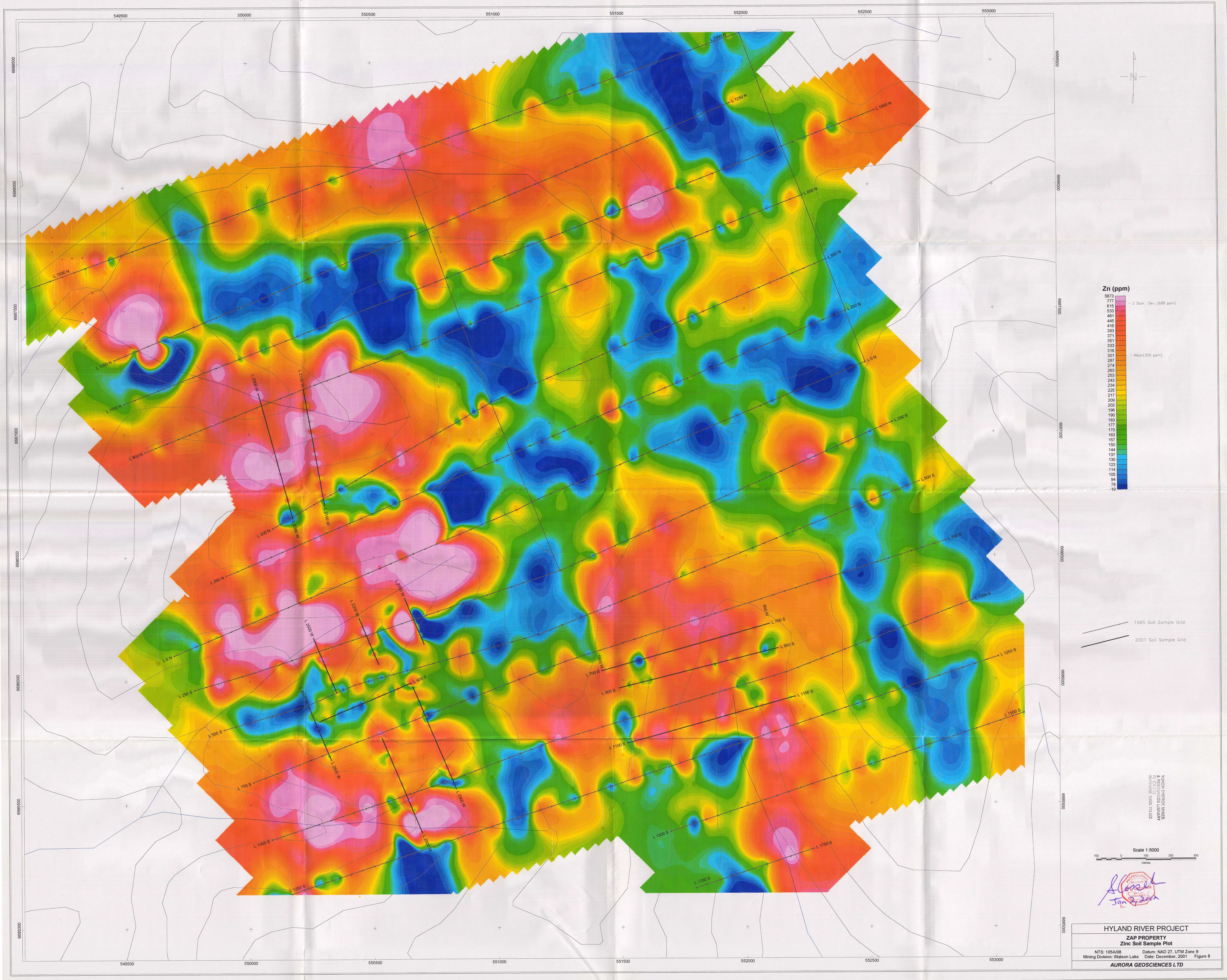
Lead Soil Sample Plot
NTS: 105A/08
Datum: NAD 27, UTM Zone 9
Mining Division: Watson Lake
Date: December, 2001
Figure 7
AURORA GEOSCIENCES LTD


549500
550000
550500
551000
551500
552000
552500
553000
6688500
6688000
6687500
6687000
6686500
6686000
6685500
6685000
Zn (ppm)
5873
777
615
533
481
445
416
393
371
351
333
316
301
287
274
263
253
243
234
225
217
209
202
196
190
183
177
170
163
157
150
144
137
130
123
114
105
94
78
-19
- 2 Stan. Dev.(688 ppm)
- Mean(300 ppm)
1995 Soil Sample Grid
2001 Soil Sample Grid
Scale 1:5000
metres
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Zinc Soil Sample Plot
NTS: 105A/08
Datum: NAD 27, UTM Zone 9
Mining Division: Watson Lake
Date: December, 2001
Figure 8
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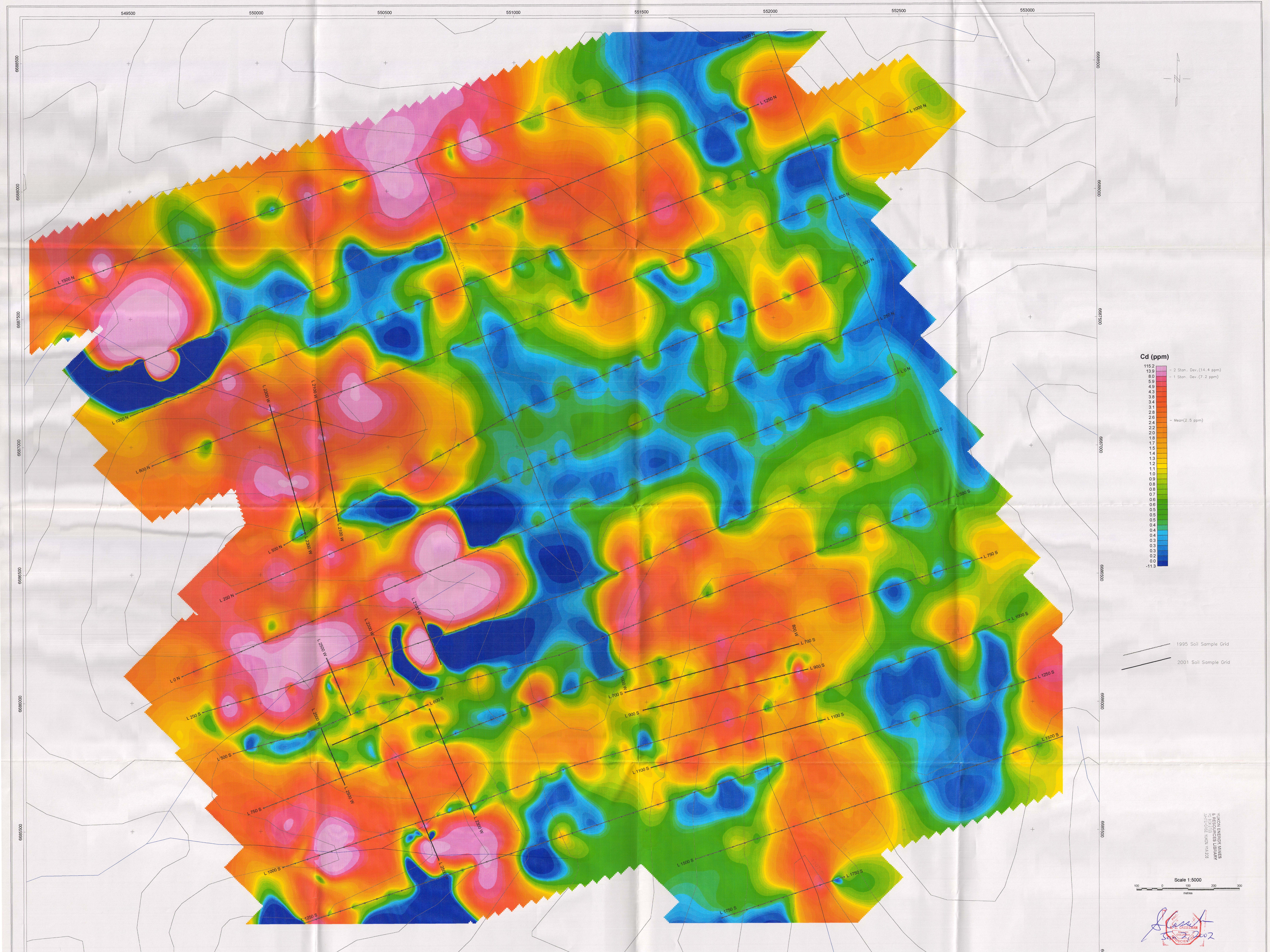

HYLAND RIVER PROJECT

ZAP PROPERTY
Cadmium Soil Sample Plot

NTS: 105A/08 Datum: NAD 27, UTM Zone 9
Mining Division: Watson Lake Date: December, 2001 Figure 9

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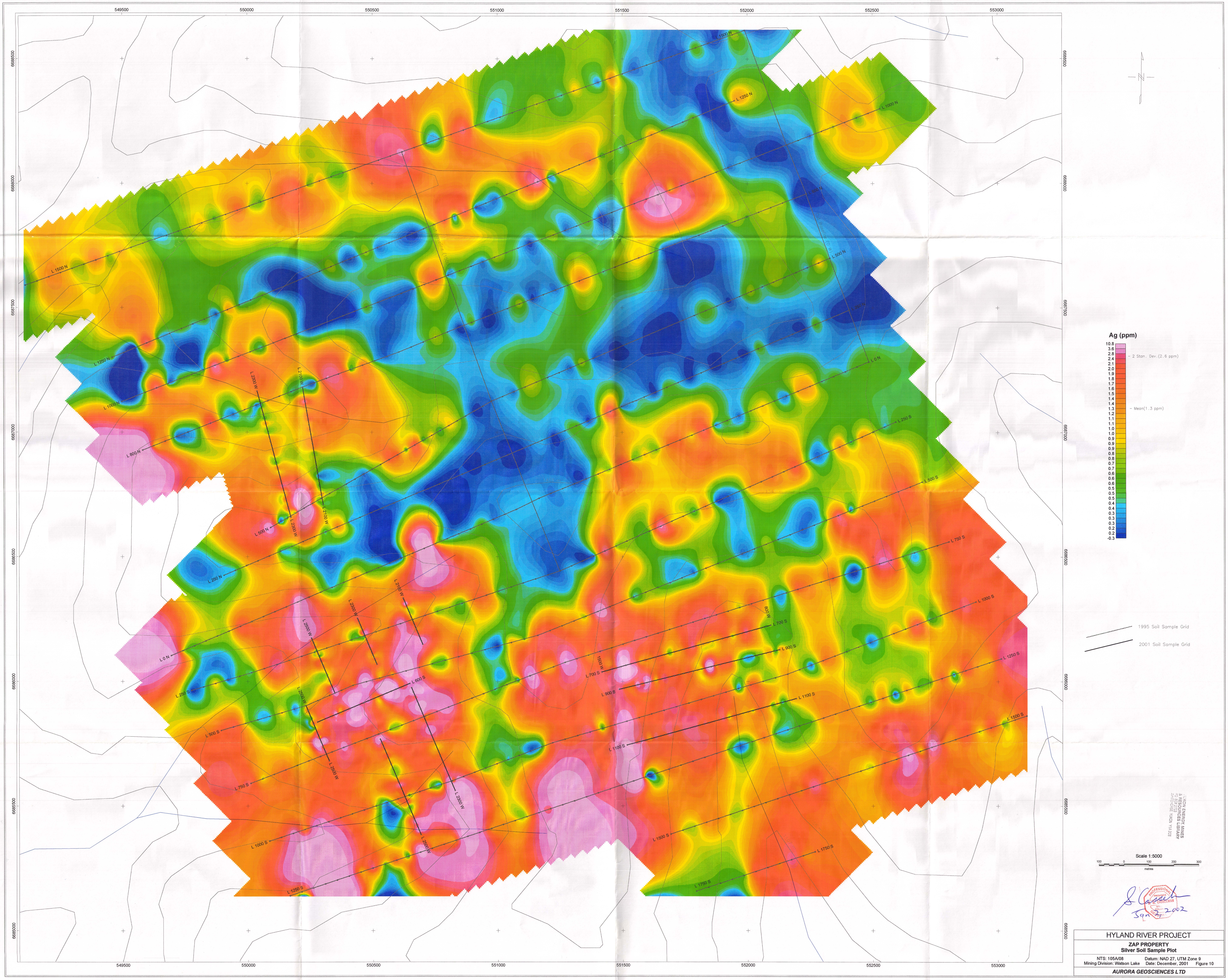

Ag (ppm)
10.8
3.6
2.8 - 2 Stan. Dev.(2.6 ppm)
2.4
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.4
1.3 - Mean(1.3 ppm)
1.2
1.1
1.1
1.0
1.0
0.9
0.9
0.9
0.8
0.8
0.7
0.7
0.6
1995 Soil Sample Grid
2001 Soil Sample Grid
Scale 1:5000
metres
549500
550000
550500
551000
551500
552000
552500
553000
6688500
6688000
6687500
6687000
6686500
6686000
6685500
6685000
L 1500 N
L 1250 N
L 1000 N
L 800 N
L 500 N
L 250 N
L 0 N
L 250 S
L 500 S
L 750 S
L 1000 S
L 1250 S
L 1500 S
L 1750 S
HYLAND RIVER PROJECT
ZAP PROPERTY
Silver Soil Sample Plot
NTS: 105A/08
Mining Division: Watson Lake
Datum: NAD 27, UTM Zone 9
Date: December, 2001
Figure 10
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