MAP NO: 105G/1

Minfile #:105-16

ASSESSMENT REPORT: X

PROSPECTUS:

CONFIDENTIAL: X

OPEN FILE:

DOCUMENT NO:093623

MINING DISTRICT: Watson Lake

TYPE OF WORK: G,GC,GP,DD

REPORT FILED UNDER:Westmin Resources Limited

DATE PERFORMED: June-October, 1996

DATE FILED: March 19, 1997

LATITUDE: 61 10

AREA: Wolverine Lake

LONGITUDE:130 10

VALUE:$13,300

CLAIM NAME AND #: Ty 1-38

WORK DONE BY:David Terry, Andrew Turner, Terry Tucker, Geoff Bradshaw

WORK DONE FOR: Westmin Resources Limited

Claims in Good Standing	

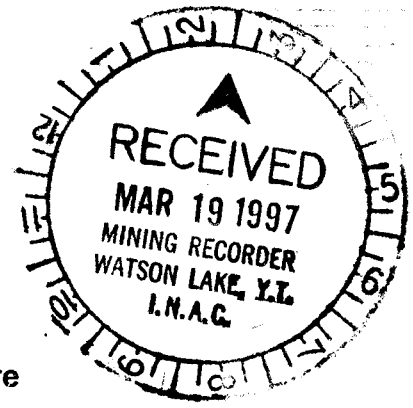
Remarks: Geological mapping, prospecting, soil sampling and diamond drilling. 3 holes, 721.1 meters.

1996 ASSESSMENT REPORT

DESCRIBING GEOLOGICAL, GEOCHEMICAL , GEOPHYSICAL AND DIAMOND DRILL HOLE SURVEYS ON THE TY 1-38 CLAIMS, FINLAYSON LAKE AREA, YUKON TERRITORY

VOLUME I

NTS 105G/1
61°10'N/130°10'W
Watson Lake Mining Division



Prepared for

Westmin Resources Limited
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by

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Andrew J. Turner
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Terry L. Tucker

December 11, 1996

DATE DUE

RPT/97-001

This report has been examined by the Geological Evaluation Unit under Section 37 (1) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 13,300 .

M. Burke

Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

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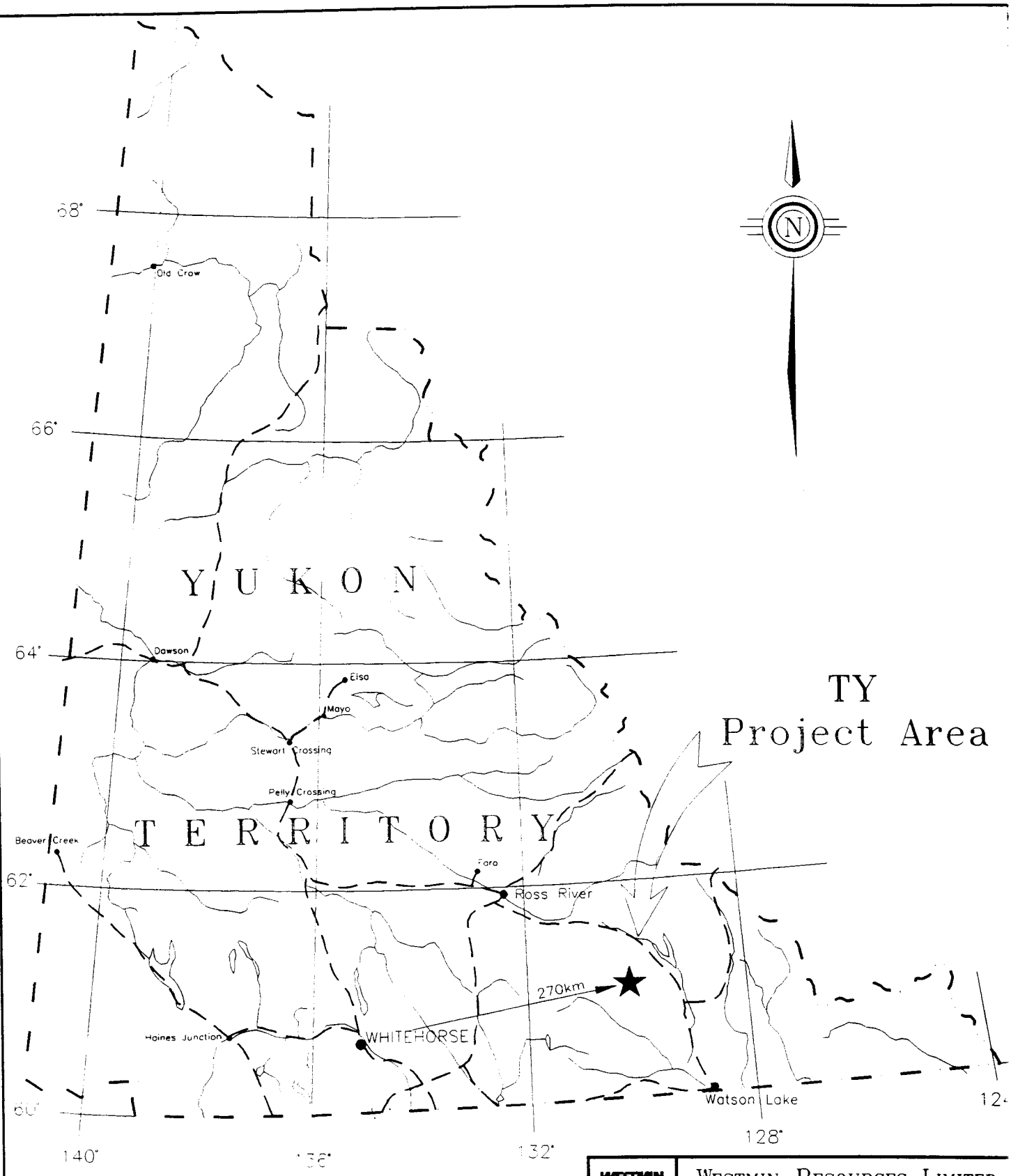
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1.0 INTRODUCTION

An airborne geophysical survey was flown over the TY claim group as part of a larger survey being flown in the area for Westmin Resources Limited between November 3 and December 5, 1995. The 1996 field program was carried out on the TY property between June 1 and October 1, 1996 by Westmin Resources Limited field personnel who are listed in Appendix B. The work included line-cutting on the southern part of the property, grid and contour soil sampling, silt sampling, geologic mapping and rock sampling, a ground MAG/VLF survey, and diamond drilling. All samples were sent to Chemex Labs in North Vancouver, B.C. for analysis. Line cutting was carried out by Twin Mountain Enterprises of Whitehorse, Yukon. The drilling contractor used was Britton Brothers Diamond Drilling of Smithers, B.C. The field exploration program was supervised by David Terry and Terry Tucker of Westmin Resources Limited.

2.0 LOCATION, ACCESS AND PHYSIOGRAPHY

The TY claims are located 155 km southeast of the village of Ross River and 35 km northwest of Watson Lake in the southeastern Yukon Territory as shown on Figure 1.0. The claims are centered about 61°10'N and 130°10'W within NTS map sheet 105G/1. Access to the property is by helicopter which can be chartered in either Ross River or Watson Lake. The Robert Campbell Highway which runs between Ross River and Watson Lake lies approximately 35 km north of the property.



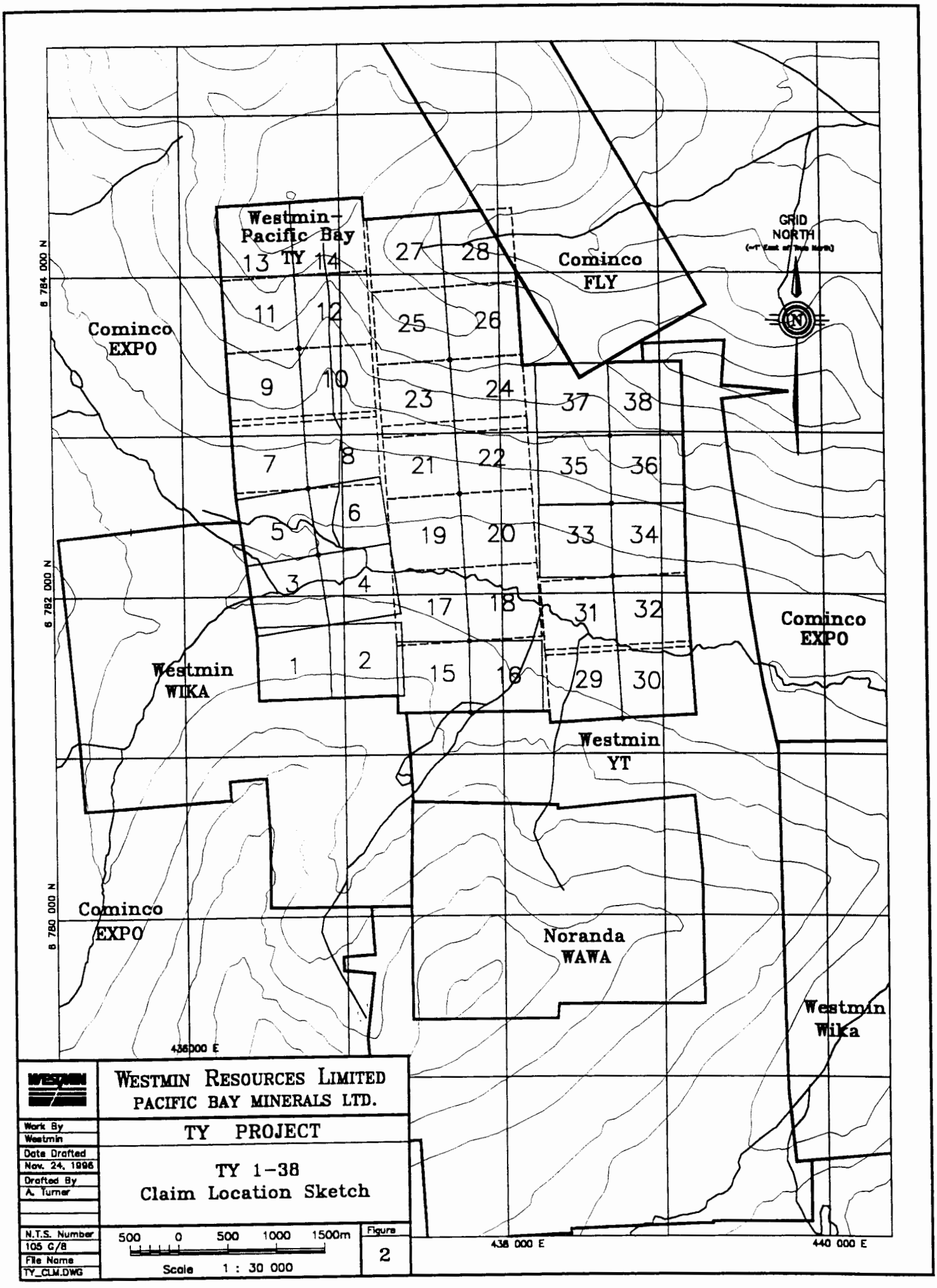
WESTMIN	WESTMIN RESOURCES LIMITED PACIFIC BAY MINERALS LTD.
Work By: Westmin	TY PROJECT
Date Drafted: Nov. 24, 1996	Property Location Sketch
Drafted By: A. Turner	
N.T.S. Number	50 0 50 100 150km
File Name: TY_LOC.DWG	Scale 1 : 5 000 000
	Figure 1

The TY claims are located within the Simpson Range of the Pelly Mountains, a sub-division of the Yukon Plateau physiographic region of the northern Cordillera. Elevation in the Simpson Range varies between 1000 meters and 2350 meters above sea level. On the TY property elevations range from 1200 meters to 1900 meters above sea level. The Simpson range is bounded by the regional Tintina Fault to the southwest, the Ross Lowland to the northwest, and the Liard Plateau to the southeast. Glaciation in the area between 26.5 ka and 10 ka resulted in the formation of broad anastamosing valleys, isolated mountains and small mountain ranges. Tributaries to drainages occupying the valleys commonly originate in cirque valleys. Wide valleys are commonly infilled with glaciofluvial sediments.

The valley which runs through the central portion of the TY claim group is occupied by glaciofluvial deposits of greater then 5 meters thickness. Treeline ranges from 1400 to 1500 meters above sea level, below which vegetation is dominated by black spruce and balsam fir. A moderate north-facing forested slope forms the southern portion of the property. Most of the outcrop in this area occurs along two north-flowing creeks which drain the mountain which occurs to the south of the property. Minor outcrop and subcrop was observed in the forested areas. North of the properties central valley a moderate to steep slope leads up an easterly trending ridgeline. Here, above treeline outcrop and subcrop are relatively common.

3.0 LIST OF CLAIMS AND OWNERSHIP

Claim names, record numbers, record dates, and expiry dates for the claims covered in this report are given in Table 3.1. The distribution of the TY (1-38) claims is shown by Figure 2.0. The claims are held by Pacific Bay Minerals Limited of Vancouver B.C., subject to a 2.5% NSR. Westmin Resources Limited of Vancouver, B.C has an option agreement with Pacific Bay



	WESTMIN RESOURCES LIMITED PACIFIC BAY MINERALS LTD.
Work By Westmin	TY PROJECT
Date Drafted Nov. 24, 1998	TY 1-38 Claim Location Sketch
Drafted By A. Turner	
N.T.S. Number 105 G/8	500 0 500 1000 1500m Scale 1 : 30 000
File Name TY_CLM.DWG	Figure 2

under which Westmin can earn a 50% interest in the property by spending $325,000 by November 15, 1997 or a 60% interest by spending a total of $500,000 by November 15, 1998.

4.0 PREVIOUS WORK

The area now covered by part of the TY claims was originally staked as the PY claims by Cyprus Anvil Mining Corporation in 1975 to cover a regional stream sediment survey anomaly of 1000 ppm Cu. At that time a grid was established and mapping, soil sampling, EM, and IP surveys were carried out over the property. Highly anomalous Cu in soil anomalies were detected however the geophysical surveys failed to identify any specific target (Schmidt, 1995). In 1988 Northern Dynasty staked the area as the Lion claims to cover gold and arsenic anomalies in stream sediments reported in G.S.C. O.F. 1648. Limited follow-up work failed to locate the source of the anomalies (Schmidt, 1995).

Atna Resources held claims over the area in the early 1990's and the TY Claims were staked by Pacific Bay Minerals in 1994 to cover the northern part of the former PY property. During the summer of 1995 Pacific Bay conducted a soil survey over a flagged grid on the southern portion of the TY property. Numerous copper anomalies and some lead, zinc and silver anomalies were detected. During the fall of 1995 the property was visited by Westmin Resources Limited who concluded an option agreement with Pacific Bay on November 1, 1995.

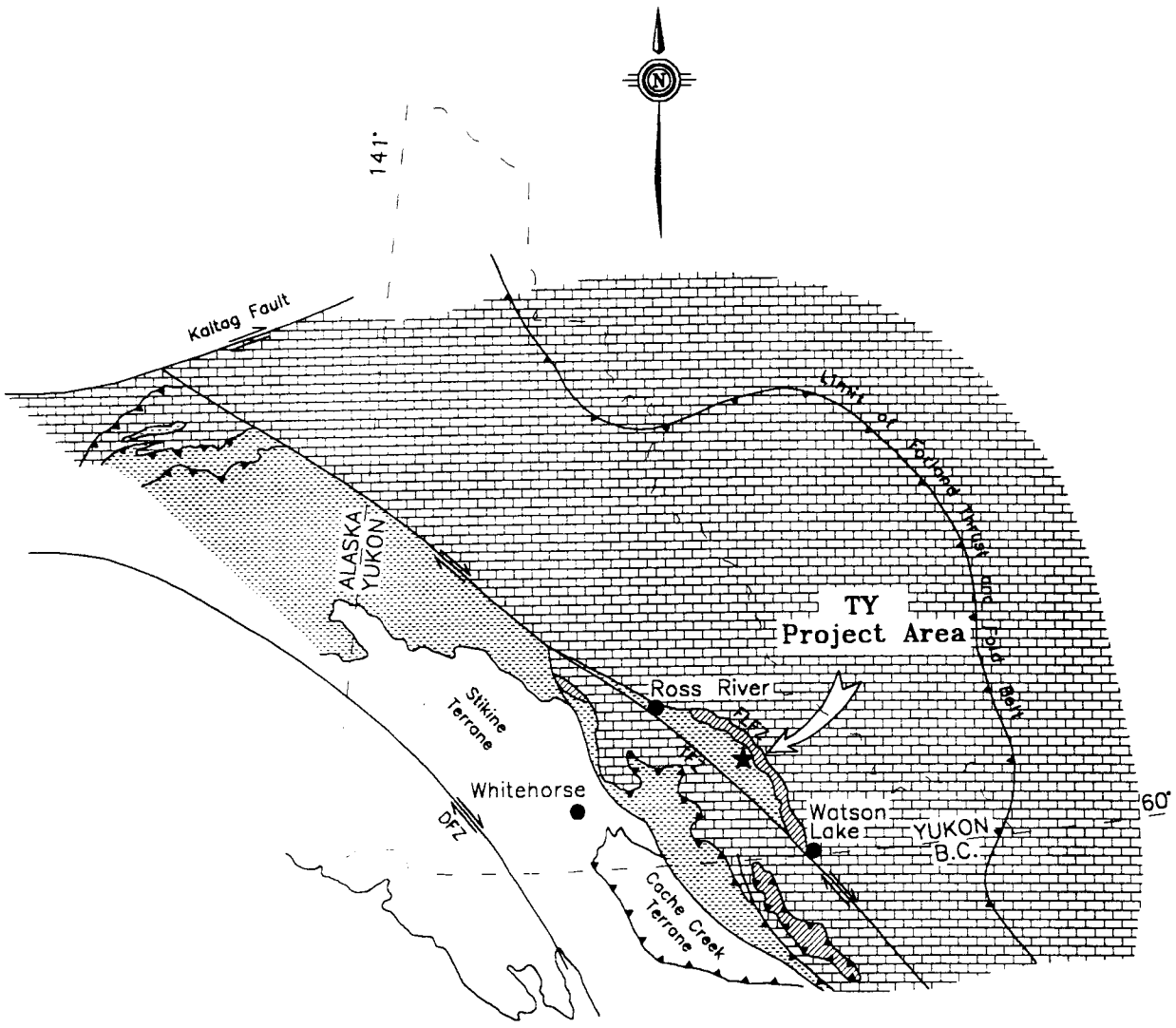
5.0 REGIONAL GEOLOGY

The property is situated within the Finlayson Lake belt of the southeastern Yukon, an elongate composite body bounded on the southwest by the Tintina

Fault Zone and on the northeast by the Finlayson Lake Fault Zone (Figure 3.1). The Tintina Fault Zone is a major transcurrent structure along which approximately 450 km of dextral offset occurred in Late Cretaceous and/or early Tertiary time (Tempelman-Kluit et al., 1976). The Finlayson Lake Fault Zone is described by Mortensen (1996, personal communication) as a complex structure which may in part represent a transpressive dextral paleosuture.

Much of the Finlayson Lake belt is underlain by rocks grouped with the Yukon Tanana Terrane (YTT) by Mortensen and Jilson (1985). The YTT underlies a large area of western to southeastern Yukon and east-central Alaska. The YTT rocks in the Finlayson Lake Belt are believed to be offset along the Tintina Fault from the main body of the YTT in the western Yukon. Mortensen (1992) has divided the YTT in the Yukon into 3 main structural assemblages: 1) the Nisling assemblage, a lower quartzite and marble package of possible Proterozoic and/or Cambrian age; 2) the middle Nasina assemblage, a package of Late Devonian to mid Mississippian carbonaceous metasedimentary and mafic to felsic metavolcanic rocks; and 3) an upper package of mid-Permian felsic metavolcanics (Klondike Schist) and metaplutonic rocks. Recent interpretations conclude that the YTT represents a mid-Paleozoic volcanic-plutonic arc assemblage built on continental crust (Nokleberg and Aleinikoff, 1985; Mortensen and Jilson, 1985; Foster et al., 1987; and Mortensen, 1992). The andesitic volcanics one would expect to be voluminous in a continental margin arc setting are seemingly not present in the Finlayson Lake Belt. Mortensen (1996, personal communication), however, suggests that large K-feldspar megacrystic granitoids which form part of the core of the belt are intermediate in composition and therefore, together with the volcanics, represent a differentiated igneous suite.

Regional metamorphism throughout the YTT ranges from very low grade to amphibolite facies. Radiometric dating suggests that metamorphic events



LEGEND

- North American Miogeoclinal Strata
- Yukon – Tanana Terrane
- Slide Mountain Terrane
- Thrust Fault
- Strike–Slip Fault, with sense of movement
  - FLFZ – Finlayson Lake Fault Zone
  - TFZ – Tintina Fault Zone
  - DFZ – Denali Fault Zone

WESTMIN

WESTMIN RESOURCES LIMITED
PACIFIC BAY MINERALS LIMITED

Work By	
Date Drafted	Nov. 24, 1996
Drafted By	A.T. & J.K.
N.T.S. Number	
File Name	YUK_TAN.DWG

TY PROJRCT

Tectonic Setting

after Mortensen and Jilson (1985)

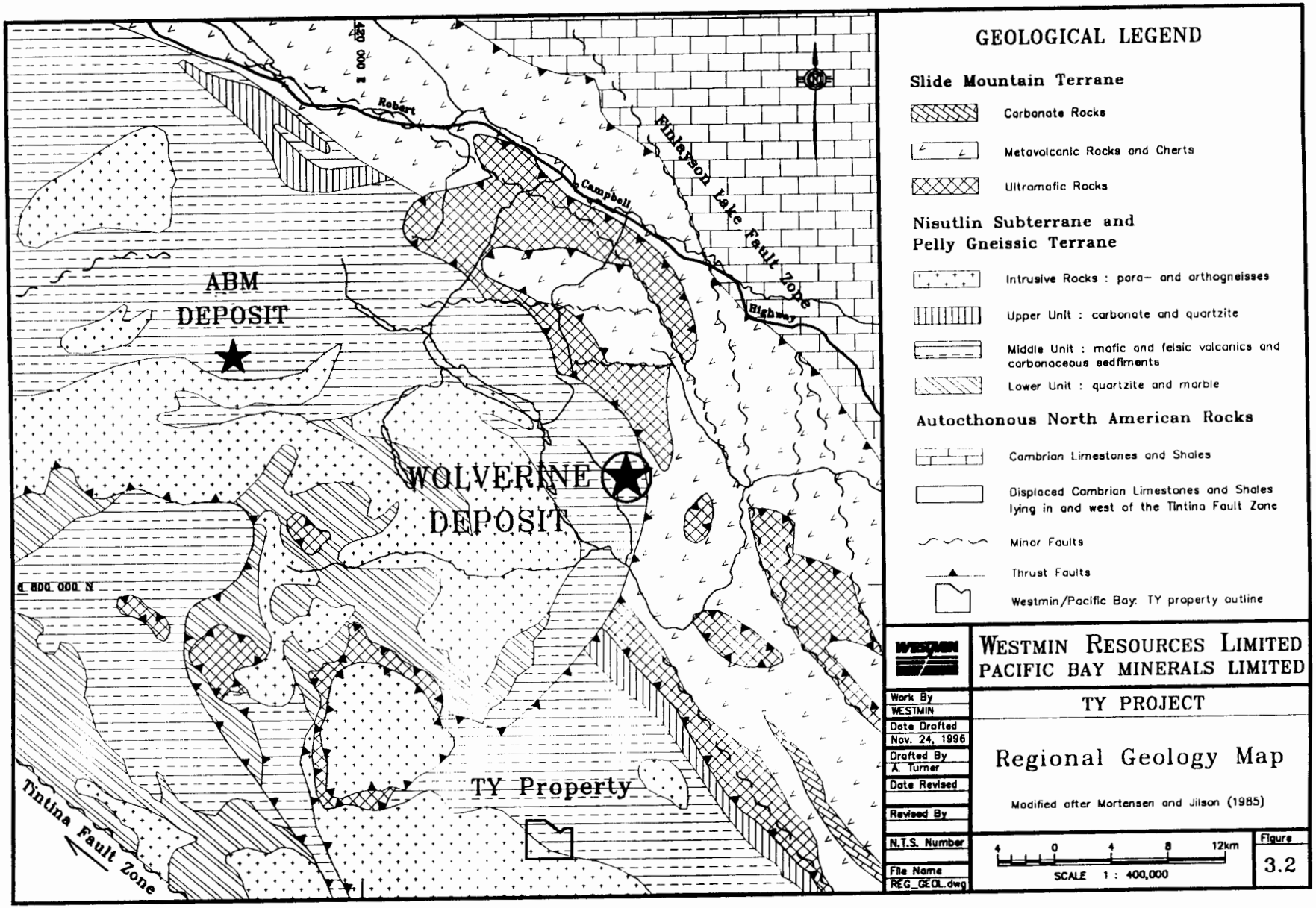
100 0 100 200 250km

Scale 1 : 10 000 000

Figure 3.1

may have occurred at different times in different subterranes. Mortensen and Jilson (1985) have subdivided the YTT in the Finlayson Lake Belt into six major lithologic packages: 1) a sequence of layered metasediments and metamorphic rocks; 2) Paleozoic metaplutonic rocks; 3) middle to late Paleozoic mafic and ultramafic igneous rocks and chert; 4) early Mesozoic clastic rocks; 5) Mesozoic plutonic rocks; and 6) Late Cretaceous and/or early Tertiary volcanic rocks (Figure 3.2). The layered metamorphic package (LMP) is approximately 3 km thick and is divisible into: 1) a lower Devonian and older quartz+mica+/-garnet schist and quartzite package with an upper marble/calcareous schist unit; 2) a middle dark siliceous to carbonaceous phyllite unit interlayered with mafic and felsic volcanics. U-Pb zircon ages of the felsic metavolcanics range from Late Devonian to mid-Mississippian; and 3) an upper white carbonate/quartzite package of Early Pennsylvanian to Permian age (Mortensen and Jilson, 1985). Paleozoic metaplutonic rocks are divided by Mortensen and Jilson (1985) into: 1) the Simpson range plutonic suite of quartz-monzonite to quartz-diorite (349-359 Ma, U-Pb zircon); 2) augen orthogneiss (342 Ma, Rb-Sr); and 3) monzonitic orthogneiss (340-345 Ma, U-Pb zircon). The first two are considered to have an intrusive relationship with the lower LMP due to pyritization of wallrocks in the case of the Simpson suite and a hornfelsed aureole bordering the augen orthogneiss.

Large bodies of massive to pillowed greenstone, chert, and variably serpentinized ultramafic to mafic plutonic rocks are common in the northeastern portion of the Finlayson Lake belt and have been interpreted (Tempelman-Kluit, 1979 and Mortensen and Jilson, 1985) as fragments of a dismembered ophiolite. Tempelman-Kluit (1979) mapped these rocks as part of the Anvil alllochthon whereas they are referred to as the Campbell Range Belt by Mortensen and Jilson (1985). They are thought to correlate with the Slide Mountain terrane in British Columbia and based upon U-Pb zircon dates and fossil ages they range


450 000 E
Robert
Campbell
Finlayson Lake Fault Zone
Highway
ABM
DEPOSIT
WOLVERINE
DEPOSIT
6 800 000 N
TY Property
Tintina Fault Zone
GEOLOGICAL LEGEND
Slide Mountain Terrane
Carbonate Rocks
Metavolcanic Rocks and Cherts
Ultramafic Rocks
Nisutlin Subterrane and
Pelly Gneissic Terrane
Intrusive Rocks : para- and orthogneisses
Upper Unit : carbonate and quartzite
Middle Unit : mafic and felsic volcanics and carbonaceous sedfiments
Lower Unit : quartzite and marble
Autocthonous North American Rocks
Cambrian Limestones and Shales
Displaced Cambrian Limestones and Shales lying in and west of the Tintina Fault Zone
Minor Faults
Thrust Faults
Westmin/Pacific Bay: TY property outline
WESTMIN RESOURCES LIMITED
PACIFIC BAY MINERALS LIMITED
TY PROJECT
Regional Geology Map
Modified after Mortensen and Jilson (1985)
Work By
WESTMIN
Date Drafted
Nov. 24, 1996
Drafted By
A. Turner
Date Revised
Revised By
N.T.S. Number
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Figure
3.2

from latest Devonian to Early Permian in age. The southern portion of the Finlayson Lake Fault Zone adjacent to the Wolverine Lake area is overlapped by thrust sheets of the Campbell Range Belt in a flower-fault structural relationship (Mortensen, 1996 personal communication). The ophiolitic package is interpreted to have been thrust from northeast to southwest overtop of the middle package of the LMP in the Wolverine Lake area.

The middle package of the LMP comprises dark fine-grained strongly carbonaceous metasediments interlayered with massive to schistose felsic volcanic to tuffaceous rocks and chloritic to amphibolitic schists after mafic tuffaceous rocks. The most significant massive sulphide occurrences in the Finlayson Lake area (Wolverine, ABM/Kudz Ze Kayah, and Fire Lake) are hosted by this volcano-sedimentary package and are associated with carbonaceous metasediments and/or felsic metavolcanics.

6.0 PROPERTY GEOLOGY

The TY property is located in the east-central portion of the Finlayson Lake belt and is underlain by Devono-Mississippian meta-igneous and metasedimentary rocks of the middle package of the LMP. The southern portion of the property is underlain by a package of felsic to intermediate volcanic and pyroclastic rocks which occur in a dip-slope situation on the north side of the mountain which is located in the southern portion of the claim group. These volcanic rocks commonly contain several percent disseminated to stringer pyrite and as a result form spectacular gossans where the package outcrops along two north-draining creeks which flow into the main drainage which occupies the central east-west trending valley on the property.

The volcanic rock package comprises interlayered grey aphyric rhyolite, green to grey rhyolite to dacite tuff, crystal tuff and lappili tuff. Locally andesitic tuffaceous units were identified in drill core. The grey aphyric rhyolites are "cherty" and massive-textured, containing no discernible phenocryst phase. Tuffaceous rocks are heterogeneously textured. Some units contain several percent disseminated quartz-eyes and/or variably saussuritized feldspar. Yellow-green coloured sericite alteration developed along foliation planes is common and defines a easterly-trending shallowly north-dipping S1 foliation which appears to closely parallel primary layering in the rock package. Variable intensities of sericite, chlorite, and carbonate alteration occur.

Large outcrops of the K-feldspar augen schist occur south of the TY claim block, forming large cliffy exposures at the headwall of the cirque at the top of the westernmost north-flowing creek. Drilling demonstrates that this large augen schist body dips beneath the felsic package which outcrops in the southern portion of the TY claims. The contact between the felsic package and the K-feldspar augen schist was shown as a steep normal fault with subsequent perpendicular offsets by Tempelman-Kluit (1977). Mortensen (personal communication, 1996) suggested that the K-feldspar augen schist was co-magmatic with the overlying felsic package and that the contact was intrusive in nature.

Dark coloured graphitic to argillaceous to cherty metatedimentary rocks and lesser siliceous tuffaceous rocks underlie the northern TY property. A 50 m thick quartz-sericite schist unit after felsic tuffaceous rocks is interlayered with graphitic to siliceous black argillite and hosts a barite unit up to 4 m thick which outcrops over a strike length of 30-40 m. It pinches out to the west but dives beneath a blanket of talus along its eastern extension. The barite is light grey in colour and displays massive to bedded textures. Locally within the barite, nodules up to several decimeters in size contain coarse-grained calcite.

Geochemically the barite contained >10,000 ppm Ba but low concentrations of other metals (sample 134763 on Table 6.3)

6.1 Mineralization

The results for Au, Ag, Cu, Pb, Zn, and Ba for rock samples from the TY property are tabulated below in Table 6.3. Locations for these samples are shown on Figure 5.0. The main showing on the TY claims consists of several lenses of semi-massive to massive pyrite exposed in the easternmost south-flowing creek which drains the ridge on the south side of the property. These lenses are up to 30 cm thick and are comprised of predominantly pyrite in a quartz gangue. Previous workers reported observing minor amounts of chalcopyrite and sphalerite in these exposures and localized stringer chalcopyrite mineralization was located in the creek outcrop. No sphalerite, however, was observed. A grab sample of the mineralized rock yielded 560 ppb Au, 15.2 ppm Ag, 187 ppm Cu, 2000 ppm Pb, 2030 ppm Zn, and 230 ppm Ba (sample 134758). The sulphide lenses are hosted by grey coloured fine-grained siliceous rhyolite with up to 10% disseminated medium-grained pyrite. Several diffuse blue quartz-eyes up to several millimeters in size were observed in the felsic unit immediately hosting the massive sulphide lenses. The lenses are contained within the foliation and are oriented at approximately 110 degrees azimuth and dip at 25-30 degrees to the north. Farther up the creek from the massive sulphide showing quartz veins hosted in pyritic quartz-sericite schist after felsic volcanics contain coarse-grained blebs and stringers of chalcopyrite and lesser bornite. Elsewhere on the property the felsic schists contain significant disseminated pyrite mineralization but no other base metal showings were located.

On the north side of the property no sulphide minerals were observed in the barite unit itself however boundinaged pods of medium-grained anhedral-

subhedral pyrite aggregates up to 25 cm in size are present along the basal contact of the barite with the underlying quartz-sericite schist. Samples of this material contained up to 75 ppb Au, 14.2 ppm Ag, 556 ppm Cu, 310 ppm Pb, 5930 ppm Zn, and 3160 ppm Ba (samples 134762 and 34764).

Table 6.1 Rock Sample Geochemistry

Sample	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ba (ppm)
134756	5	<2	41	50	162	1800
134757	<5	<2	112	16	68	180
134758	560	15.2	187	2000	2030	230
134761	<5	4.8	11	12	60	920
134762	75	<2	556	<2	926	80
134763	<5	<2	36	4	238	10000
134764	70	14.2	176	310	5930	3160
134765	<5	<2	21	8	110	3040
134778	15	<2	34	<2	32	5870
134779	35	0.8	91	36	144	80
134780	10	0.2	38	10	30	400

6.2 Drill Results

Three holes were drilled on the property for a total of 721.1 meters. Each hole was drilled to the south at an inclination of 45 degrees, intersecting the felsic volcanic package at an average core angle of seventy degrees. TY96-01 was drilled both to better understand the stratigraphy of the property and to test the down-dip extension of the massive sulphide showing in the creek bed, approximately 300 m to the south of the collar. TY96-02 and TY96-03 were both drilled slightly to the north of a fairly significant coincident silver, lead and zinc soil geochemical anomaly. Table 6.1 summarizes the drill hole locations, orientations and hole depths.

Table 6.2 Drill Hole Location Data

Hole Number	Azimuth (degrees	Dip	Locatio northin	(Grid) eastin	Locatio northin	(UTM) easting	Elev. (m)	Depth (m)	Claim
TY96-01	180	45	5100	6600	6781960	438500	1234	343.6	31
TY96-02	180	45	4650	6400	6781477	438290	1288	204.2	29
TY96-03	180	45	4700	6200	6781525	438080	1289	173.3	16

The felsic volcanic rocks intersected in the upper portion of each of the holes comprised interlayered grey aphyric rhyolite, green to grey rhyolite to dacite tuff and crystal tuff, and andesite tuff and crystal tuff. The grey aphyric rhyolites are "cherty" and massive-textured, containing no discernible phenocryst phase. Tuffaceous rocks are heterogeneously textured. Andesite tuffs are less common and contain abundant calcite and sausseritized feldspar. In addition to the felsic volcanics, holes TY96-01 and TY96-02 each intersected several meters of siliceous carbonaceous argillite intimately interbedded with grey aphanitic rhyolite.

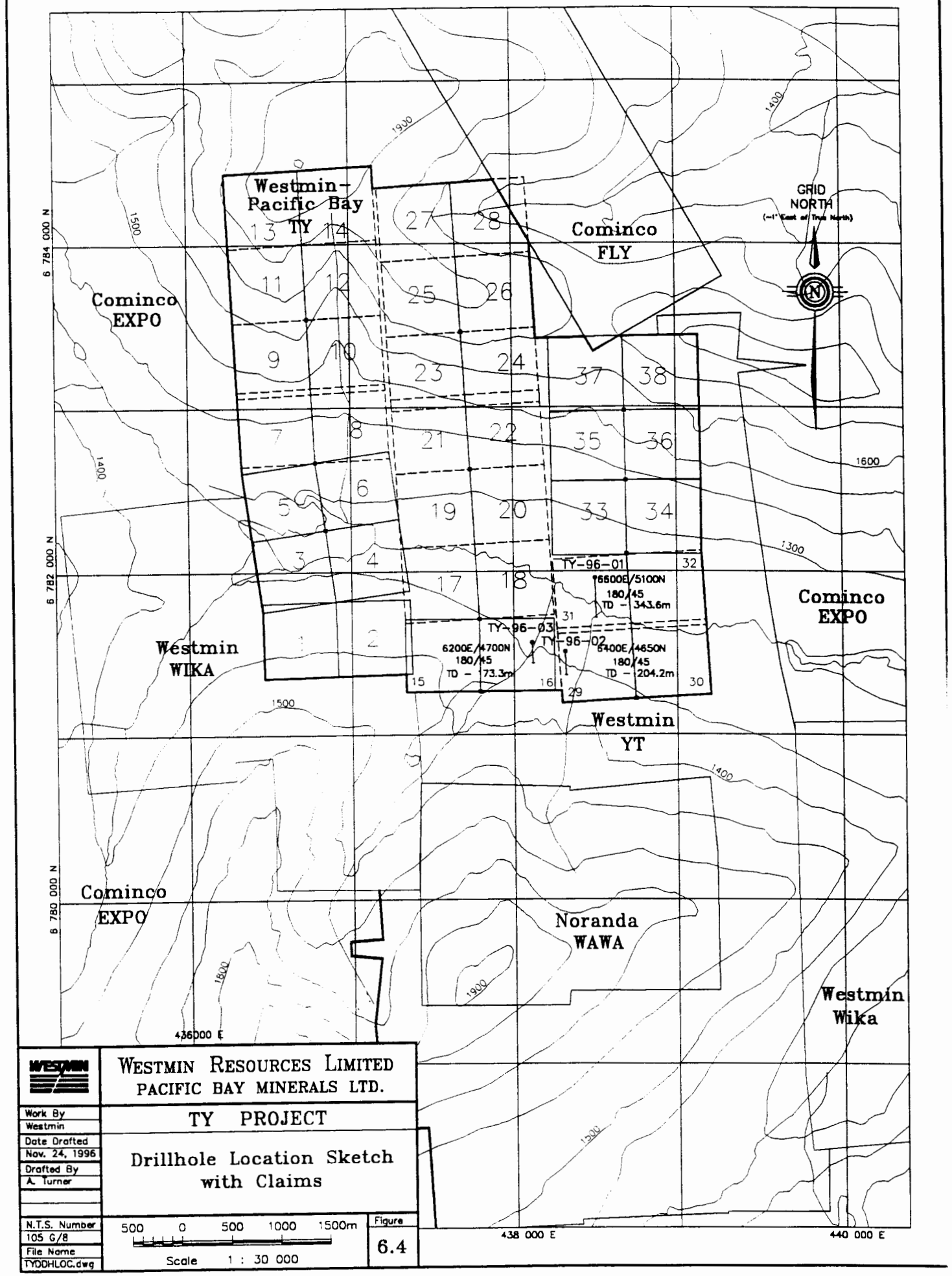
Common to all the holes are two units interpreted to be intrusives: a white to light green quartz sericite schist occurs sporadically and is likely a sheared quartz feldspar porphyry; and a dark green chloritic schist containing quartz and feldspar phenocrysts as well as local pink megacrystic K-feldspar augen generally occurs at the bottom of each of the holes. Occasionally is interlayered with the lower portions of the felsic stratigraphy. This distinctive lithology is characterized by heterogeneously concentrated subhedral to euhedral pink coloured K-feldspar megacrysts (porphyryoblasts?) up to several centimeters in size. Less common phases contain rounded quartz concentrations up to several centimeters, either with or without feldspar. The megacrysts occur in a fine to medium-grained dark green coloured chloritic matrix. In only in one instance did a fault appear to define the contact between the K-feldspar schist and the upper volcanic package in drill core.

Mineralization observed in drill core comprises trace to several percent disseminated pyrite, lesser pyrrhotite and trace chalcopyrite within the felsic volcanics. Locally pyrite/pyrrhotite with minor chalcopyrite occurs as fine-grained bands up to several centimeters in width. Although pyrite is common throughout the felsic package and also occurs locally within the intrusive units, no significant concentrations of other sulphide minerals were observed. Each of the drill holes was systematically sampled from top to bottom and analyzed for 27 elements including gold, silver, copper, lead, zinc and barium. No significant anomalous zones were analytically detected. The most interesting mineralization was observed in hole TY96-02 where 15.2 m of rhyolite tuff with 1-2% disseminated to clotted chalcopyrite and several percent pyrite returned copper assays ranging from 303 - 1135 ppm. Table 6.2 summarizes the highest metal concentrations from each hole.

Table 6.3 Drill Core Assay Results

	TY96-01	width (m)	TY96-02	width (m)	TY96-03	width (m)
Au (ppb)	20	2.9	<5		35	2.5
Ag (ppm)	0.8		0.8		0.4	
Cu (ppm)	608	1.9	1135	1.1	751	2.5
Pb (ppm)	290	3.1	104	2.8	440	3.0
Zn (ppm)	626	2.8	322	2.8	412	2.5
Ba (ppm)	2510	3.0	6620	2.0	1890	3

Drill sections showing geology as well as complete assay results for the elements above are presented in figures 6.1 - 6.3. Figure 6.4 presents the drill hole locations relative to the locations of the TY 1-38 claims. Detailed drill logs and assay certificates are located in Appendix D and Appendix F, respectively.



WESTMIN	WESTMIN RESOURCES LIMITED PACIFIC BAY MINERALS LTD.
Work By Westmin	TY PROJECT
Date Drafted Nov. 24, 1996	Drillhole Location Sketch with Claims
Drafted By A. Turner	
N.T.S. Number 105 G/8	500 0 500 1000 1500m Scale 1 : 30 000
File Name TYDDHLOC.dwg	Figure 6.4

7.0 GEOPHYSICS

7.1 Airborne Survey

The TY property was covered by an airborne geophysical survey carried out as part of a larger survey in the area for Westmin Resources by Dighem. The survey was flown between November 3 and December 5, 1995. The results of the survey are detailed in Dighem Report #1239 (Garrie, 1996), the parts of which pertain to the TY claims are included in Appendix D. The airborne survey over the TY claims was hampered somewhat by the rugged ground, which resulted in somewhat higher then normal flying heights, and the highly resistive surficial cover. The magnetic data showed little variability however some areas of elevated magnetic response were detected. Several discrete EM conductors spatially related to the magnetic anomalies were identified in the TY claim area and are discussed in Appendix D. Airborne maps in Appendix G include: Filtered VLF, Electromagnetic Anomalies, Calculated Vertical Gradient Magnetics, Total Field Magnetics, Resistivity (56,000 Hz Coplanar), and Resistivity (7,200 Hz Coplanar).

7.2 Ground Survey

A ground MAG/VLF survey was carried out over a large portion of the grid in the southern portion of the claim group by Westmin Resources Limited personnel. A GSM-19 Gemsystem mobile data collector was used and VLF results were obtained from transmitting stations at Seattle, Washington and Cutler, Maine. The contoured ground magnetics map is shown in Figure 7.0. Similar to the aeromagnetic results it shows a flat magnetic response with localized highs. Large differences in the VLF profile generated between

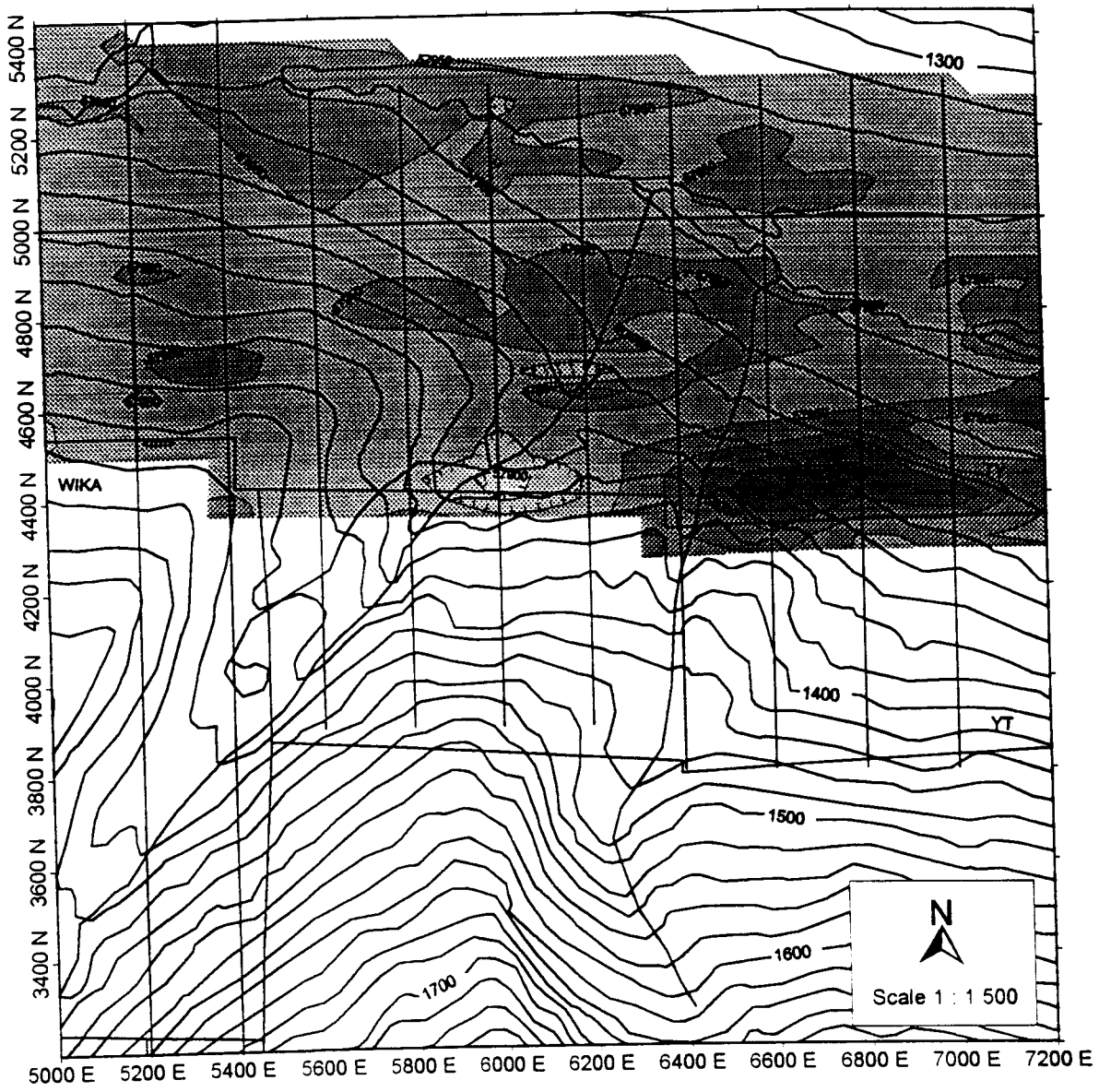


Figure 7. Ground Magnetics Contour Map.

adjacent lines calls into question the validity of this data. The VLF profiles for all the lines are included in Figure 7.1.

8.0 SOIL AND SILT GEOCHEMISTRY

Soil samples were collected along four contour lines in the northern portion of the TY claim block and along cut grid lines, spaced at 200 meters, in the southern portion. In both cases the sample sites were separated by an interval of 25 meters. Efforts were made to collect good B-horizon soil at each sample location. Table 8.1 (below) summarizes the statistical information for the 876 contour and grid soil samples collected on the TY claims. Gold, silver, copper, lead, zinc, and barium values and sample locations are plotted on Figures 8.1 through 8.6, respectively.

The grid soil survey was successful in delineating several multielement soil anomalies. Elevated gold values occur mainly in the southeastern portion of the grid. Most notably, the area between 4300N and 4500N is relatively anomalous with a high value of 70 ppb Au at 6800E and 4375N. Anomalous

Table 8.1 Soil Geochemical Statistics

	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ba (ppm)
Minimum	0	0.1	4	1	26	230
Maximum	95	14	3120	832	1250	10000
Average	4.4	0.4	91	38	133	1715
Percentile						
95th	15	1.4	280	78	327	4283
90th	5	1	150	64	218	3086
80th	2.5	0.6	87	48	152	1950
75th	2.5	0.4	71	44	140	1730
50th	2.5	0.1	43	30	104	1340
10th	2.5	0.1	18	14	60	940

silver values up to 3 ppm Ag (6400E/4425N) are distributed over the southern portion of the grid, mainly on lines 4600E, 5200E, 6400E, and 6800E. Contouring of these anomalies shows a general easterly trend with individual anomalies generally extending no more than two adjacent lines (see Appendix E). A large area of highly anomalous Cu values occurs in the southeastern portion of the grid between lines 6400E and 7200E. These values range in magnitude up to a maximum of 3120 ppm Cu at 7200E and 4375N. Contouring of values within this area defines several easterly trending linear zones of greater then 1000 ppm Cu in soils. Elevated Pb in soil concentrations, up to 832 ppm Pb at 6400E and 4425N, form a linear trend between lines 6200E and 7000E between 4650N and 4450N. A less well defined area of anomalous Pb values falls between 4600E and 5400E. Contouring reveals several linear anomalies of greater then 100 ppm Pb centered about the southern portion of line 6400E between 4400 and 4700N. Zn anomalies up to 676 ppm Zn form several elongate bullseye highs on the southeastern portion of the grid area most notably on lines 6400E and line 6200E. A less significant bullseye Zn anomaly is situated on the western portion of the grid on line 4600E near 4675N. Silts samples collected from the western creek on the south side of the TY property returned up to 55 ppb Au, 1070 ppm Cu, 100 ppm Pb and 676 ppm Zn.

On the northern portion of the property contour soil samples were collected across the slope at 25 meter spacing on four lines separated by 100 meters elevation. Anomalous values of up to 95 ppb Au, 5.6 ppm Ag, 311 ppm Cu, 290 ppm Pb, 850 ppm Zn and >10,000 ppm Ba were returned from the portion of the contour lines which transect the large bowl in the northwestern portion of the claim block (Figure 8.1-8.6). East of the bowl anomalous Pb values up to 220 ppm were detected in the contour soil samples.

11 silt samples were collected at 100 meter spacing up the western north-flowing drainage on the southern portion of the property. The statistics for these samples is given in Table 8.2.

Table 8.2 Silt Geochemical Statistics

	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ba (ppm)
Minimum	2.5	0.1	303	58	330	1520
Maximum	55	0.8	1070	100	676	1780
Average	8	0	502	81	479	1670
95th	35	0.5	850	98	655	1770
90th	15	0.1	629	96	634	1760
80th	2.5	0.1	574	92	624	1750
75th	2.5	0.1	571	90	578	1725
50th	2.5	0.1	400	84	468	1690
10th	2.5	0.1	303	58	330	1520

10.0 CONCLUSIONS AND RECOMMENDATIONS

The geological setting of the TY property, the presence of widespread pyritic alteration and large multielement soil geochemical anomalies suggest that it is prospective for VMS-style mineralization. The cause of the multielement soil anomalies was not identified in any of the drill holes to date and as well an extension of the semi-massive sulphide horizon which outcrops in the eastern north-flowing creek was not intersected in drill core. The airborne and ground geophysical surveys gave largely inconclusive results due to the highly conductive overburden and dip-slope outcrop situation which occurs in the southern portion of the property. As the stratigraphy was cut at almost right angles in all the holes, the probability of geochemical anomalies which were drilled being related to large tabular sheets enveloped by the foliation is low. More likely sulphide bodies, if present, have a lensoidal morphology, similar to the pyritic sulphide occurrence observed in the creek bed. If this is the case then future drilling should be focused more on the actual anomaly rather than

attempting to drill its downdip extension. Further work on the property should be concentrated in two areas: 1) the southeastern portion of the property and the soil grid where a large Cu in soil anomaly remains untested and 2) the drainage on the north side of the claim group which contains the barite horizon and has significant multielement soil geochemical anomalies covering a large part of the drainage.

REFERENCES

Aleinikoff, J.N. and Nokleberg, W.J. 1985. Age of Devonian igneous arc terranes in the northern Mount Hayes quadrangle, eastern Alaska Range, Alaska. U.S. Geological Survey Circular 967, pp. 44-49.

Foster, H.L., Keith, T.E.C., and Menzie, W.D. 1987. Geology of East-Central Alaska. U.S. Geological Survey Open-File Report 87-188m, 59 pp.

Garrie, D.G. 1996. Dighem survey for Westmin Resources Limited, Wolverine Lake Project,

Mortensen, J.K. 1992. Pre-Mesozoic tectonic evolution of the Yukon-Tanana terrane, Yukon and Alaska. Tectonics, 11(4): 836-853.

Mortensen, J.K. and Jilson, G.A. 1985. Evolution of the Yukon-Tanana terrane: Evidence from the southeastern Yukon Territory. Geology, 13: 806-810.

Nokleberg W.J. and Aleinikoff, J.N. 1985. Summary of stratigraphy, structure, and metamorphism of Devonian igneous-arc terranes, northeastern Mount Hayes quadrangle, eastern Alaska Range. U. S. Geological Survey Circular 967, pp. 66-71.

Schmidt, U. 1995. A preliminary evaluation of the TY claims, Finlayson Lake area, Yukon Territory. Unpublished Assessment Report, 11p.

Tempelman-Kluit, D.J. 1979. Transported cataclasite, ophiolite, and granodiorite in Yukon: evidence of arc-continent collision. Geological Survey of Canada Paper 79-14, 27 p.

Tempelman-Kluit, D.J. 1977. Quiet Lake (105F) and Finlayson Lake (105G) map areas. Geological Survey of Canada Open-File 486, scale= 1:250,000.

Tempelman-Kluit, D.J., Gordey, S.P., and Read, B.C. 1976. Stratigraphic and structural studies in the Pelly Mountains, Yukon Territory. Geological Survey of Canada Paper 76-1A, p. 97-106.

APPENDIX A

STATEMENT OF EXPENDITURES

STATEMENT OF EXPENDITURES

I, David A. Terry as agent for Westmin Resources Limited, #904-1055 Dunsmuir Street, Vancouver, B.C. do believe that an airborne geophyisical survey was carried out over the TY claims between November 3 and December 5, 1995. In addition I solemnly declare that a field program consisting of linecutting, soil sampling, silt sampling, rock sampling, geologic mapping, ground geophysics and diamond drilling was carried out on the TY 1-38 claims between June 1 and October 1, 1996.

The following expenses were incurred during the course of this work.

Labour	$7,801.00
Camp costs	$15,800.00
Travel	$2,880.00
Helicopter	$60,554.00
Drilling	$52,124.00
Fuel	$3,300.00
Line cutting	$11,440.00
Airborne geophysics	$31,950.00
Geochemistry	$21,660.00
Total expenditures	**$207,509.00**

Notes:

1. Wages are based on actual man days spent on the property
2. Helicopter charges are based on actual hours flown
3. Assay charges are based on actual numbers of samples from the property
4. Travel expenses relate only to travel to and from the project within the Yukon Territory

And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

Dated at Vancouver in the Province of British Columbia this 6 day of February, 1997.

David A. Terry, Project Geologist

RPT/97-001

APPENDIX B

LIST OF PERSONNEL

LIST OF PERSONNEL

Geoff Bradshaw (Geologist)
#904-1055 Dunsmuir St.
Vancouver, B.C.
V7X 1C4

Mike Bradshaw (Field Assistant)
Box 935 Sechelt, B.C.
V0N 3AO

Nathalie Boisvert (Field Assistant)
755 de Maricourt
Longueuil, Quebec
J4H 285

Shanif Habib (Geologist)
#65-1478 Adelaide Street North
London, Ontario
N5X 1K4

David Hladky (Field Assistant)
3418-111A Street
Edmonton, Alberta
T6J 3L2

Geoff Horner (Field Assistant)
3290 Cypress Street
Vancouver, B.C.
V6J 3N6

Stewart McCallion (Field Assisitant)
#904-1055 Dunsmuir St.
Vancouver, B.C.
V7X 1C4

Alana Rawlings (Field Assistant)
c/o Ross River Dena Development Corporation
Ross River, YT

David Schmidt (Field Assistant)
c/o #904-1055 Dunsmuir St.
Vancouver, B.C.
V7X 1C4

David A. Terry (Project Geologist)
#904-1055 Dunsmuir St.
Vancouver, B.C.
V7X 1C4

Yvonne Thornton (Field Assistant)
3341 Lakeside Roade
Whistler, B.C.
V0N 1B3

Jan Tindle (Field Assistant)
3341 Lakeside Roade
Whistler, B.C.
V0N 1B3

Terry Tucker (Project Geologist)
#904-1055 Dunsmuir St.
Vancouver, B.C.
V7X 1C4

Andrew Turner (Geologist)
#904-1055 Dunsmuir St.
Vancouver, B.C.
V7X 1C4

Brian Wakeman (Geologist)
5728 South Ferrall Court
Spokane, Washington
99223

APPENDIX C

CLAIM INFORMATION

TY Property Claim Information

CLAIM NAME	CLAIM NUMBER	GRANT	NUMBER	RECORD DATE	EXPIRY DATE
TY	1	YB	56230	3-Oct-96	3-Oct-97
TY	2		56231	3-Oct-96	3-Oct-97
TY	3		56232	3-Oct-96	3-Oct-97
TY	4		56233	3-Oct-96	3-Oct-97
TY	5		56234	3-Oct-96	3-Oct-97
TY	6		56235	3-Oct-96	3-Oct-97
TY	7		56236	3-Oct-96	3-Oct-97
TY	8		56237	3-Oct-96	3-Oct-97
TY	9		56238	3-Oct-96	3-Oct-97
TY	10		56239	3-Oct-96	3-Oct-97
TY	11		56240	3-Oct-96	3-Oct-97
TY	12		56241	3-Oct-96	3-Oct-97
TY	13		56242	3-Oct-96	3-Oct-97
TY	14		56243	3-Oct-96	3-Oct-97
TY	15		56244	3-Oct-96	3-Oct-97
TY	16		56245	3-Oct-96	3-Oct-97
TY	17		56246	3-Oct-96	3-Oct-97
TY	18		56247	3-Oct-96	3-Oct-97
TY	19		56248	3-Oct-96	3-Oct-97
TY	20		56249	3-Oct-96	3-Oct-97
TY	21		56250	3-Oct-96	3-Oct-97
TY	22		56251	3-Oct-96	3-Oct-97
TY	23		56252	3-Oct-96	3-Oct-97
TY	24		56253	3-Oct-96	3-Oct-97
TY	25		56254	3-Oct-96	3-Oct-97
TY	26		56255	3-Oct-96	3-Oct-97
TY	27		56256	3-Oct-96	3-Oct-97
TY	28		56257	3-Oct-96	3-Oct-97
TY	29		56258	3-Oct-96	3-Oct-97
TY	30		56259	3-Oct-96	3-Oct-97
TY	31		56260	3-Oct-96	3-Oct-97
TY	32		56261	3-Oct-96	3-Oct-97
TY	33		56262	3-Oct-96	3-Oct-97
TY	34		56263	3-Oct-96	3-Oct-97
TY	35		56264	3-Oct-96	3-Oct-97
TY	36		56265	3-Oct-96	3-Oct-97
TY	37		56266	3-Oct-96	3-Oct-97
TY	38		56267	3-Oct-96	3-Oct-97

APPENDIX D

GEOLOGISTS CERTIFICATES

GEOLOGISTS CERTIFICATE

I, David A. Terry of 1568 Maplehurst Circle, Burnaby, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Project Geologist with Westmin Resources Limited with offices at #904-1055 Dunsmuir Street, Vancouver, British Columbia.

2. THAT I have practiced my profession with various mining companies in Ontario, Quebec, British Columbia, Yukon, and Alaska for eight years.

3. THAT I am a graduate of the University of Western Ontario (1988) and hold a Honors Bachelor of Science in Geology.

4. THAT I am a member of the Prospectors and Developers Association of Canada, the Canadian Institute of Mining and Metallurgy, the Geological Society of America, and the Society of Economic Geologists.

5. THAT this report is based on property work I personally supervised between June 25 and September 1, 1996.

6. THAT I have no direct interest in the property described herein, nor do I expect to receive any interest.

DATED at Vancouver, British Columbia this 6 day of February, 1997.

David A. Terry, Project Geologist

GEOLOGISTS CERTIFICATE

I, Geoffrey D. Bradshaw of 8046 Redrooffs Road, Sechelt, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Geologist with Westmin Resources Limited with offices at #904-1055 Dunsmuir Street, Vancouver, British Columbia.

2. THAT I am a graduate of the University of British Columbia (1996) and hold an Honours Bachelor of Science in Geology.

3. THAT I am a member of the Association of British Columbia Professional Engineers and Geoscientists registered as a Professional Geoscientist in Training.

4. THAT this report is based on property work I personally completed and/or supervised between June 1 and October 1, 1996.

5. THAT I have no direct interest in the property described herein, nor do I expect to receive any interest.

DATED at Vancouver, British Columbia this ____ day of _____, 1997.

_____

Geoffrey D. Bradshaw, Geologist

WESTMIN

6.0 STATEMENT OF QUALIFICATIONS

I, Terry L. Tucker, of the City of North Vancouver, in the Province of British Columbia, do hereby certify that:

I am registered as a professional geoscientist with the Association of Professional Engineers and Geoscientists of the Province of British Columbia (20108), residing at 1541 Mahon Avenue, North Vancouver, British Columbia, V7M 2S6 with a business address at #904 - 1055 Dunsmuir Street, P.O. Box 49066, The Bentall Centre, Vancouver, British Columbia, V7X 1C4.

I am a graduate of the University of Alberta, Edmonton, Alberta (1989) with a Bachelor of Science degree specialisation in Geology).

I am a member of the Canadian Institute of Mining and Metallurgy, Prospectors and Developers Association of Canada, British Columbia Chamber of Mines and the Yukon Chamber of Mines.

I have been a practising geologist in Canada, Australia, the United States and Papua New Guinea since 1987.

I directly performed or supervised the work which is described in this report.

DATED this 6 day of February 1997 at Vancouver, British Columbia.

Terry L. Tucker, P.Geo.
Project Geologist

PROFESSIONAL ENGINEER
PROVINCE OF
T. L. TUCKER

Professional Seal

APPENDIX E

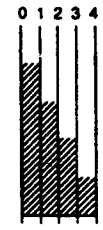
DRILL LOGS

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT: Ty	GROUND ELEV.: 1234
HOLE NO.: TY-96-01	BEARING: 180°
LOCATION: 6600E 5100N	DIP: -45°
	TOTAL LENGTH: 343.6 m.
LOGGED BY: G BRADSHAW	HORIZONTAL PROJECT:
DATE: AUG 12 / 96	VERTICAL PROJECT:
CONTRACTOR: BRITON BROTHERS	ALTERATION SCALE
CORE SIZE: NQ	
DATE STARTED: AUG 10	TOTAL SULPHIDE SCALE
DATE COMPLETED: AUG 16	
DIP TESTS: 61 m - 45° / 121.9 m - 51.5° / 182.9 m - 51.5° / 243.8 m - 57.5 / 304.8 m - 57.5	





COMMENTS

LEGEND

PAGE 1 OF 27 | PROJECT: TY | HOLE NO. 96-01

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	ALTERATION E	FRACTURE INTENSITY	% VEIN QTZ.
				0-22.9 CASING							
23		28°									
			50°	22.9-73.5 RHMS GREY MASSIVE APHANITIC RHYOLITE massive light-med grey aphyric rhyolite, glassy texture, very siliceous ("chalty") clay like sericite along partings minor chlorite well foliated gradational lower contact							
24											
25											
26											
27				27.8 - 30.5 ground up core - angular siliceous fragments.							
28											
29				possibly thick flow unit - later deformation forms micaceous partings							
30											
31											
32											
33											
34			40°								
35											
36											
37											
38											
39											
40											
41			60°								
42											
43											
44				44.6 - 45.7 - ground core poor recovery.							
45											

PAGE 2 OF 27 | PROJECT: TY | HOLE NO. TY-96-01

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
1-2 % pyrite throughout unit. Mainly f.g. disseminated euhedral crystals, also mobilized along foln and fractures.		23.9	26.0	3.1	175401	
		26.0	29.0	3.0	175402	
		29.0	32.0	3.0	175403	
		32.0	35.0	3.0	175404	
		35.0	38.0	3.0	175405	
		38.0	41.0	3.0	175406	
		41.0	44.0	3.0	175407	
		44.0	47.0	3.0	175408	

PAGE 3 OF 27 | PROJECT: Ty | HOLE NO.

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.
46			50°								
47											
48											
49											
50											
51											
52											
53											
54											
55											
56											
57											
58											
59											
60											
61											
62											
63			65°								
64											
65											
66											
67			65°								
68											

PAGE 4 OF 27 | PROJECT: TY | HOLE NO. 01

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
		47.0	50.0	3.0	175409	
		50.0	53.0	3.0	175410	
		53.0	56.0	3.0	175411	
		56.0	62.0	6.0	175412	
		62.0	65.0	3.0	175413	
		65.0	68.0	3.0	175414	

PAGE 5 OF 27 | PROJECT: TY | HOLE NO.: 01

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.
69												
70												
71												
72												
73												
74			65°	73.5-75.0	GREY-BROWN TUFFACEOUS RHYOLITE							
				RHTT	massive grey rhyolite similar to above, but contains brown micaceous bands on a mm scale, prob. sericite.							
75												
76												
77					74.6-75.0 - splotches of light "washed out" green mica (Ba?) 10-15% of rock.							
78												
79					locally, brown bands form an anastamosing matrix surrounding lens shaped siliceous fragments.							
80												
81				75.0-81.0	GREY MASSIVE APHANITIC RHYOLITE							
			50°	RHMS	same as above ab sericite on foliation. <1% d. py.							
87												
83				81.0-88.4	MEDIUM GREY FINE GRAINED RHYOLITE TUFF							
				RHTT	siliceous, more "gritty" looking texture. sub mm scale grey+brown banding, quite sericitic							
84					gradual contact with above unit.							
85					85.3-86.3 - ground and broken core							
86			bc									
					86.4-86.7 - 10-15% light green mica - (Ba) as oval shaped splotches.							
87												
88												
89				88.4-110.3	GREY/GREEN RHYODACITIC TUFF							
				BDTF	grainy texture, very gradual contact ab. sericite as yellow-brown micaceous partings - unit generally grey w/ greenish tinge (alteration?) chl							
90												
91												

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
		68.0	71.0	3.0	175415	
		71.0	73.5	2.5	175416	
~1% disseminated f.g. pyrite, mainly along fractures		73.5	75.0	1.5	175417	
		75.0	78.0	3.0	175418	
		78.0	81.0	3.0	175419	
		81.0	83.5	2.5	175420	
~1% disseminated fg pyrite.		83.5	86.0	2.5	175421	
		86.0	88.4	2.4	175422	
1-2% pyrite disseminated mainly on foliation and fractures.		88.4	91.5	3.1	175423	

PAGE 7 OF 27 | PROJECT: TY | HOLE NO. 96-01

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	ALTERATION E	FRACTURE INTENSITY	% VEIN QTZ.
92				locally calcareous w/ calcite occurring as fdn parallel 1-3 mm bands + blotches. locally has a mottled texture (eg. 97.4 m) w/ black oval clasts in a yellow/grey matrix (alteration?) Overall still quite siliceous, local "cherty" texture. Occasional silica flooding (eg 89.9 m)							
93											
94											
95			90°								
96											
97											
98											
99											
100											
101											
102											
103											
104											
105			60°	1054 - fdn para to c.a. for 10 cm.							
106											
107											
108											
109											
110			50°	110.3-112.8 RHMS GREY APHANITIC RHYOLITE more massive, glassy texture. grey w/ yellow green sericitic partings. sharp upper contact at 50°, missing core at lower contact.							
111											
112											
113			70°								
114											

PAGE 8 OF 27 | PROJECT: TY | HOLE NO. 96-01

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
		91.5	94.5	3.0	175424	
		94.5	97.5	3.0	175425	
		97.5	100.5	3.0	175426	
		100.5	103.5	3.0	175427	
		103.5	106.5	3.0	175428	
		106.5	108.5	2.0	175429	
		108.5	110.3	1.8	175430	
3-4% pyrite - disseminated concentrated in sericitic bands, (along foliation), very fine grained. locally coarse grained euhedral pyrite.		110.3	112.8	2.5	175431	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.
				112.8 - 127.4	GREY / MED GREEN FINE GRAINED DACITE TUFF							
115				DCFF	fine greenish (chloritic) grainy tuff. yellow							
					green sericitic partings, siliceous-							
116					115.2 - 115.6 - zone of white q.v.'s with							
					very dark green chloritic wall rock between							
117												
					117.2 - 117.4 - white quartz vein.							
118												
					local bands of dark red hematite							
119					(eg. 120.5 m), minor calcite.							
120					local quartz veining and silicification.							
					occasional intervals of slightly							
121			30°		coarser yellow green grains.							
					(possibly albite/calcite/epidote alteration							
122					of feldspars) saussentization?							
123												
124												
125												
126												
127				127.4 - 130.6	GREY APHANITIC RHYOLITE							
	35° CA		35°	RHMS	glassy texture massive, minor sericite,							
128					minor calcite. occasional intervals							
					display distinct mm-cm scale							
129					banding (flow banding?)							
130												
	35° CA			130.6 - 131.4	GREEN FINE GRAINED DACITE TUFF							
131				DCFF	dark green, late calcite stringers							
					same as 112.8 - 127.4 above.							
	90° CA			131.4 - 134.7	GREY BANDED APHANITIC RHYOLITE							
132				RHMS	same as 127.4 - 130.6 above, but							
					banding more prominent. short (1-2cm)							
133					intervals of green tuffaceous rock w/							
			60°		yellow/green clasts (1-2mm dia.)							
134												
	55° CA											
135				134.7 - 153.9	GREEN DACITE/ANDESITE TUFF							
				ADTT	grainy textured, chloritic							
136					medium grained. Mainly quartz							
					finer chloritic matrix well foliated							
137												

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
2-3% pyrite throughout, fine to medium grained, disseminated and clotted near fractures and foliation. Some bands of disseminated pyrite.		112.8	115.8	3.0	175432	
		115.8	118.9	3.1	175433	
		118.9	121.9	3.0	175434	
		121.9	125.0	3.1	175435	
		125.0	127.4	2.4	175436	
≈1% py, diss, mainly bands of discontinuous fine-med gr aln. foln.		127.4	130.6	3.2	175437	
1-2% diss. f.g. euhedral py.		130.6	131.4	0.8	175438	
≈1% pyrite disseminated, mainly along foliation. 1cm band of d. cg. py at base of unit.		131.4	134.7	3.3	175439	
1-2% fine diss py throughout		134.7	137.7	3.0	175440	

PROJECT: TY

HOLE NO. 96-01

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	ALTERATION E	FRACTURE INTENSITY	% VEIN QTZ.
					and flattened. contains 0.5-1.0mm dark green to black grains may be chloritized feldspars? Occasional veins/stgs of secondary qtz. Occasional mottled texture w/ yellowish rectangular crystals - saussertitized feldspar? locally secondary calcite fills fractures.							
138												
139												
140												
141												
142			80°									
143												
144												
145												
146												
147												
148												
149												
150												
151												
152					152.0 - 152.1 white quartz vein.							
153												
154			80°		153.9 - 157.9 RHXT GREY RHYOLITE CRYSTAL TUFF Fine grained grey grainy siliceous tuff w/ 5-10% flattened yellow/green grains (saussentized feldspar?). Sharp upper contact - abrupt change in grain size.							
155												
156												
157												
158			75°		157.9 - 169.7 ADTT GREEN DACITE/ANDESITE TUFF same as 134.7 - 153.9 above. rare qtz phenocrysts.							
159												
160												

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MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
		137.7	139.5	1.8	175441	
		139.5	142.5	3.0	175442	
		142.5	145.5	3.0	175443	
		145.5	147.8	2.3	175444	
		147.8	151.2	3.4	175445	
		151.2	153.9	2.7	175446	
3-5% pyrite, Eg. diss. mobilized into foln parallel bands.		153.9	155.9	2.0	175447	
		155.9	157.9	2.0	175448	
		157.9	160.9	3.0	175449	

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.
161												
162			80°									
163												
164												
165					165.0 - intense yellow/green colour 1-2mm dia rectangular grains 165.1 - 165.3 - white quartz vein							
166												
167												
168												
169												
170					169.7 - 170.5 MFDK DARK GREEN MAFIC DIKE fine grained - very dark green. undeformed. calcite fills fractures. irregular upper and lower contacts							
171			60°									
172												
173					170.5 - 174.7 ADTT GREEN DACITE/ANDESITE TUFF quite chloritic, rare qtz phenos well foliated, minor calcite (same as 134.7 - 153.9 above)							
174												
175			qv 65°		174.0 - 174.7 - white quartz vein with inclusions of dark green chloritic wall rock - l.con. is base of q.v. - 65°.							
176												
177					174.7 - 184.6 RHTT GREEN/GREY RHYODACITE CRYSTAL TUFF felsic, mainly qtz, minor chl. med-coarse grained distinct qtz phenocrysts and feldspar grains. Late calcite locally fills fractures. sharp lower contact marked by disappearance of coarse feldspars and increase in amount of chl. Also - appearance of black/dark green grains.							
178			85°									
179												
180												
181												
182												
183												

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
		160.9	163.9	3.0	175450	
		163.9	166.9	3.0	175451	
		166.9	169.7	2.8	175452	
No mineralization		169.7	170.5	0.8	175453	
		170.5	174.0	3.5	175454	
≈ 2% fg. disseminated py.		174.0	176.8	2.8	175455	
3-5% f.g. disseminated py.		176.8	179.8	3.0	175456	
		179.8	182.9	3.1	175457	
		182.9	184.6	1.7	175458	

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.
184											
185		ADTT		184.6-191.9 ADTT GREEN ANDESITE/DACITE TUFF same as 134.7-153.9 above occl late calcite veins, calcite bands throughout. ~5% black 1-4 mm chloritized feldspars, fairly siliceous. Amount of qtz phenos increases w/ depth. Lower contact defined by increase in qtz phenos and decrease in chlorite.							
186			75								
187											
188											
189											
190											
191											
192				191.9-197.6 DCFF GREEN/GREY RHYODACITE TUFF mainly felsic rock with abundant qtz phenocrysts. minor dkl. yellow green sub mm sericitic partings. calcite fills fractures. intervals of yellow green saussentized plag crystals (1-2mm diam)							
193											
194			30°								
195											
196											
197											
198		RHMS		197.6-220.8 RHMS GREY MASSIVE-BANDED APHANITIC RHYOLITE sharp upper contact 70° glassy textured massive to banded rhyolite. rare qtz phenocrysts							
199											
200											
201				200.8-201.0 white quartz vein 1cm Eg pyrite band near upper contact.							
202				202.1 - pink/purple tinge - Mn?							
203				minor intervals of green tuffaceous material (1-20cm), min yellow/am sericite, local quartz veining (1-2%)							
204				minor late calcite							
205				205.7-205.9 white qv chlorite + ff inclusions.							
206											

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MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
~1 % diss. pyrite.		184.6	187.0	2.4	175459	
		187.0	189.4	2.4	175460	
		189.4	191.9	2.5	175461	
2-3 % fg disseminated pyrite. occasional 2-3 cm intervals of coarse banded pyrite.		191.9	194.7	2.8	175462	
		194.7	197.6	2.9	175463	
3-5 % fine to coarse banded to disseminated pyrite. <1% pyrrhotite.		197.6	200.5	2.9	175464	
		200.5	203.4	2.9	175465	
		203.4	206.3	2.9	175466	
(coarse (up to 1 (m) pyrite, minor pyrrhotite at base of q.v.						

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	ALTERATION E	FRACTURE INTENSITY	% VEIN QTZ.
207											
208											
209											
210			60°								
211				211.2- small 7cm wht quartz vein							
212											
213											
214											
215											
216											
217			60°	216.5-216.8 interval of light grey fine grained tuff with very flattened elongate dark green/ black grains (chloritized feldspar?)							
218											
219				217.5-220.2 - rhyodacite tuff as above, fine-med gr., ab qtz phenos.							
220											
221			75°	220.8-228.3 STFL FAULT ZONE - gouged up rhyolite/ dacite - well folded - extremely variable core angle. Mainly felsic tuffaceous material, ab sericite and qtz frags. qtz phenos throughout. sharp upper ct. (75°) "fault plane"? also sharp lower contact at 75°							
222											
223											
224			20°								
225											
226			35°								
227											
228			20°								
229			75° CT	228.3-229.9 MEDIUM GREY RHYODACITE CRYSTAL TUFF-							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
		206.3	209.2	2.9	175467	
208.4 - 30 cm interval with 8-10 % coarse pyrite						
		209.2	212.1	2.9	175468	
211.2 - coarse pyrite and pyrrhotite ass/w small 7 cm quartz vein.						
		212.1	215.0	2.9	175469	
		215.0	217.9	2.9	175470	
		217.9	220.8	2.9	175471	
1-2% dissominated py, fine-med grained.		220.8	224.6	3.8	175472	
		224.6	228.3	3.7	175473	
		228.3	229.9	1.6	175474	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.
					Med gr felds + qtz, green weakly banded chloritic matrix grainy texture							
230				229.9 - 240.8	VARIABLE GREY RHYOLITE / RHYOLITE TUFF							
231				RHTT	mainly f.g. light grey rhyolite tuff, siliceous. Some intervals contain							
232					230.2 - 230.3 - soft gouge zone							
233			30°		distinct lens shaped siliceous 'fragments' (lapilli?) others are more massive with a glassy texture. Occasionally							
234					gran size increases and rock is more of a rhyolite crystal tuff (medium grained qtz + feldspar) local							
235					silicification and quartz veining.							
236					232.1 - 232.6. badly contorted foln, some brecciation							
237					233.4 - 234.2 - gouge zone, contorted foln.							
238												
239												
240			50°									
			45° ct	240.8 - 242.7	YELLOW GREEN SERICITIC RHYOLITE							
241				RHST	CRYSTAL TUFF							
242				(QFPH?)	lens shaped qtz phenos, prominent yellow green sericite bands.							
243				242.7 - 243.5	GREY MASSIVE CHERTY RHYOLITE							
			60° ct	RHMS	glassy texture, massive, qtz veining near upper ct.							
244												
				243.5 - 244.6	YELLOW GREEN SERICITIC RHYOLITE CRYSTAL TUFF							
245			30° ct	RHST	medium gr. tuff, qtz + felds grains, ab qtz phenos. yellow green sericitic partings							
			30°	244.6 - 246.7	GREEN/GREY RHYODACITIC TUFF							
246				RDTT	grey-green f.g. grainy textured tuff, sub-mm green micaceous bands. min chl, ser.							
247			30° ct									
				246.7 - 256.5	VARIABLE SILICIFIED/VEINED RHYOLITE/							
248			30°	RHTT	RHYOLITE TUFF - local gouge zones							
					246.7 - 247.4 - qtz vein intruding glassy rhyolite.							
249					247.4 - 248.3 - banded glassy rhy w/ minor qtz veining							
250					248.3 - 249.0 - rhyolite crystal tuff - fine - medium gr. qtz + felds							
251					249.0 - 251.5 - massive glassy rhy / qv's							
			50°									
252												

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
~2% fine-med gr. diss pyrite.						
More tuffaceous intervals contain 1-2% fine-med gr. diss. pyrite other intervals <1% py.		229.9	232.6	2.7	175475	
		232.6	235.3	2.7	175476	
		235.3	238.0	2.7	175477	
		238.0	240.8	2.8	175478	
<1% V. fine gr. diss. py.		240.8	242.7	1.9	175479	
- coarse pyrite, tr. cpy and pø at base of small qtz vein. 1% py, tr cpy + pø diss. through-out unit.		242.7	243.5	0.8	175480	
		243.5	244.6	1.1	175481	
1-2% py, locally med. gr. bands + f.g disseminations throughout.		244.6	246.7	2.1	175482	
- 3-5% py, fine-coarse, bndd-diss 247.3 - 247.7 pyrite bands up to 2cm med-coarse grained. green mineral in fractures with py may be malachite.		246.7	250.0	3.3	175483	
		250.0	253.3	3.3	175484	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	ALTERATION E	FRACTURE INTENSITY	% VEIN QTZ.
					251.6 - 262.0 - rhy tuff / XL tuff							
253					252.0 - end of unit. mainly massive rhyolite, some contorted foln. minor carbonaceous arg.							
254												
255					255.1 - 8 cm white quartz vein							
256												
257				256.5 - 265.6 (QFPH?) RHTF	GREY RHYOLITE LAPILLI TUFF very siliceous, anastamosing yellow sericite matrix surrounds lens shaped silica fragments which may be lapilli. (also could be well sheared massive rhyolite) minor folding of micaceous bands (sheared porphyry?)							
258												
259												
260												
261			80°									
262												
263												
264												
265												
266				265.6 - 269.0 STFL	FAULT ZONE / RHYOLITE TUFF gouged up rhyolite / rhyolite lapilli tuff. badly contorted foliation Mainly low core angle. gradual upper contact as amount of gouged rock increases. irregular lower contact							
267												
268			20°									
269												
270				269.0 - 286.3 RHAR	INTERBEDDED ARGILLITE AND RHYOLITE ≈ 50% black carbonaceous argillite and 50% white-grey glassy textured "cherty" rhyolite. - top of unit fairly broken up - contorted foln. qtz veining + some brecciation (271.3 - 273.3).							
271			50°									
272												
273			80°		273.4 - small amt of green mica (Ba?)							
274			20°		273.6 - foln para. to core axis							
275					arg - rhy usu bnd on a cm scale							

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MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
banded fine-med gr. pyrite.						
		253.3	256.5	3.2	175485	
small quartz vein, clots of med-coarse py within and at base.						
- 1-2% fg pyrite in thin 1-2 mm bands and diss. throughout.		256.5	259.5	3.0	176486	
		259.5	262.5	3.0	175487	
		262.5	265.6	3.1	175488	
		265.6	269.0	3.4	175489	
- <1% fine disseminated pyrite.						
- 2-3% py, usu. in discreet bands up to 1 cm thick, med-coarse grained.		269.0	272.5	3.5	175490	
		272.5	276.0	3.5	175491	

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	ALTERATION E	FRACTURE INTENSITY	% VEIN QTZ.
276					minor sericitic partings, occasional late qtz veins and stringers, sharp lower contact (70°)							
277												
278												
279			50°									
280												
281												
282												
283			35°									
284												
285												
286												
287		10° CT		286.3-290.7 RDXT	GREEN/GREY RHYODACITE CRYSTAL TUFF- light grey-green, fine-med gr. qtz-feld. crystals, 5-10% yellow green saussentized feldspars, min chl, seems to increase w/ depth.							
288												
289												
290												
291		60° CT		290.7-299.1 RHMS	LIGHT-DARK GREY MASSIVE RHYOLITE massive, glassy texture, green-yellow/green sericitic partings. colour varies from light-dark grey							
292												
293			55°		293.3-294.6 white bull qtz vein.							
294					abundant blotchy calcite near base of unit							
295												
296												
297												
298												

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MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
		276.0	279.5	3.5	175492	
		279.5	283.0	3.5	175493	
		283.0	286.3	3.3	175494	
1% fine disseminated py.		286.3	288.5	2.2	175495	
		288.5	290.7	2.2	175496	
2-3% pyrite, med-coarse grained pyrite forms bands, fine-med grained disseminated py.		290.7	293.5	2.8	175497	
		293.5	296.3	2.8	175498	
		296.3	299.1	2.8	175499	

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.
299											
				299.1 - 299.8 GREEN FINE GRAINED DACITE TUFF							
				DCFF odd rock - not well foliated (intrusive?)							
300			50°	fg. green, massive, chloritic. qb. calcite.							
				299.8 - 300.6 BROWN/GREY FINE GRAINED RHYOLITE TUFF							
301				RHTT siliceous, fg. qtz/feld. brown ser. partings							
				300.6 - 303.0 GREEN FINE GRAINED DACITE TUFF							
302				DCFF same as 112.8 - 127.4 (301.7 - 301.9 qv)							
				303.0 - 304.1 GREY RHYOLITE LAPILLI TUFF							
303				RHTF distinct lenslite siliceous frag. in a							
				greenish brown tuffaceous matrix							
304			65°	304.1 - 314.9 GREEN DACITE/ANDESITE TUFF							
				ADTT sharp upper contact marked by							
305			40°	appearance of dark green chl and							
				yellow green calcite/epidote altered							
306				feldspars.							
307											
308											
309											
310											
311											
312											
313											
314											
315			55°								
				314.9 - 343.6 K-SPAR QUARTZ AUGEN SCHIST							
316				QKAS upper contact gradational							
				marked by appearance of							
317			70°	megacrystic qtz and k-spar							
				phenocrysts. (eye shaped). Green							
318				fine chloritic matrix qtz phenos							
				from 1mm - 5cm. K-spar up to							
319				5 x 6 cm diam. local qtz veining.							
				micaceous partings. local yellow							
320				green saussentized feldspars.							
321											

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
- reddish/brown hematite 1-2mm grains, 2cm band of coarse pyrite at base of unit.		299.1	299.8	0.7	175500	
		299.8	300.6	0.8	175151	
- <1% py - fine disseminated.		300.6	303.0	2.4	175152	
- 2-3% fine diss. py, occasional coarse py bands		303.0	304.1	1.1	175153	
- 1% medium-coarse diss. py.		304.1	307.1	3.0	175154	
- <1% fine gr. diss. pyrite		307.1	310.1	3.0	175155	
		310.1	3125	2.4	175156	
		312.5	314.9	2.4	175157	
		314.9	317.9	3.0	175158	
- tr. pyrite		317.9	320.9	3.0	175159	
		320.9	323.9	3.0	175160	
		323.9	326.7	2.8	175161	

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	ALTERATION E	FRACTURE INTENSITY	% VEIN QTZ.
322											
323											
324											
325											
326											
327											
328											
329											
330											
331											
332											
333											
334											
335											
336											
337											
338											
339											
340											
341											
342											
343											
				343.6 EOH							
344											

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT: TY	GROUND ELEV.: 1288
HOLE NO.: TY96-02	BEARING: 180°
LOCATION: 6400E 4650N	DIP: -45°
	TOTAL LENGTH: 264.2
LOGGED BY: G BRADSHAW	HORIZONTAL PROJECT.
DATE: AUG 22	VERTICAL PROJECT
CONTRACTOR: BRITTON BROTHERS	ALTERATION SCALE
CORE SIZE: NQ	
DATE STARTED: AUG 21	TOTAL SULPHIDE SCALE
DATE COMPLETED: AUG 23	
DIP TESTS: 152.4 m - 52°	





COMMENTS

LEGEND

53/54

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.
9				9.1 – 9.8 RHMS — GREY MASSIVE APHANITIC RHYOLITE; glassy texture, minor sericite along foln							
10											
11				9.8 – 28.8 RDTT — VARIABLE GREY-GREEN RHYOLITE-RHYODACITE TUFF							
12				varies from light grey siliceous rhyolite tuff to fine-medium gr. rhyolite tuff to slightly							
13				(9.8 – 15.0 greenish grey rhyodacite w/ min chl.) green, more chloritic, rhyodacite tuff with minor yellow green saussarite sericite							
14				on foliation throughout with minor calcite as bands and blebs.							
15											
16			70°								
17											
18				17.9 – 18.5 wht qv. w/ fractures containing tuffaceous wall rock & ~1% py.							
19				18.9 – 19.0 broken up qv.							
20											
21											
22											
23											
24			70°								
25											
26				25 [illegible] wht qv w/ [illegible]							
27											
28				28.4 – 28.5 – wht qv, min diss py							
29			80°	fault gouge at base of qv. (10 cm)							
				28.8 – 30.4 DCFF — GREY/GREEN FINE DACITE TUFF							
30				[illegible] fine grained mass is quartzofeldspathic							

PAGE 2 OF 18 | PROJECT: TY | HOLE NO. 96-02

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
		9.1	13.7	4.6	175186	
1% disseminated py, fine grained						
- 1% fine diss. py throughout unit						
		13.7	16.5	2.8	175187	
		16.5	18.9	2.4	175188	
		18.9	23.8	4.9	175189	
		23.8	26.5	2.7	175190	
		26.5	28.8	2.3	175191	
≈ 2% fine grained diss. pyrite		28.8	30.4	1.6	175192	

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	ALTERATION E	FRACTURE INTENSITY	% VEIN QTZ.
					tuff. calcite along fractures fewer patches not specific. (intrusion)							
31			70°									
				30.4 - 51.2	GREY/GREEN RHYODACITE TUFF-CRYSTAL TUFF							
32				RDTT	grey (slightly greenish) grainy textured tuffaceous							
33					(32.3 - 10cm wht qv) rock. occasional							
					quartz veining and silicification.							
34					locally contains qtz and feldspar eye							
					shaped fragments, sub mm scale.							
35					also locally more chloritic matrix							
					occasional 1-2 mm qtz bands. tiny							
36					sub mm black chloritized feldspars.							
					medium grained yellow green sausseritized							
37			30°		feldspars. local calcite bands 1-10 mm.							
					near top of unit: thin intervals							
38					of pyritiferous light grey rhyolite							
					lapilli tuff with microfolded siliceous							
39					fragments within a yellow green							
					sericitic matrix. This subunit contains							
40					~3% pyrite as medium qr sparkles.							
41												
42												
43												
44												
45												
46			70°									
47												
48					48.2-48.2 wht qtz-tr vein							
49												
50												
51				51.2-51.9	GREEN FINE DACITE TUFF - green							
52				DCFF	fine grained secondary calcite fills							
					fractures. Sharp lower cont -							
53					90° contact.							

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MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
2% diss-banded fine gr. pyrite.		30.4	33.4	3.0	175193	
		33.4	36.4	3.0	175194	
		36.4	39.4	3.0	175195	
		39.4	42.4	3.0	175196	
		42.4	45.4	3.0	175197	
		45.4	48.4	3.0	175198	
		48.4	51.2	2.8	175199	
<1% fine diss pyrite.		51.2	51.9	0.7	175200	

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.
				51.9-59.8	GREY PYRITEFEROUS RHYOLITE TUFF							
54			70°	RHTT	mainly fg qtz-feldspar intimately							
					surrounded by fine yellow green sericite.							
55					some qtz bands + lenses, mm scale.							
56					54.0-54.3 - broken core. possible fault zone							
57					some intervals contain higher % of qtz +							
					feldspar and more dispersed microcrystalline patches.							
58												
59												
60			60°	59.8-68.7	DARK GREEN MEDIUM GRAINED ANDESITE/							
				ADTT	DACITE TUFF							
61					mm scale calcite bands throughout unit.							
					dark green chloritic, <1mm dia.							
62					specular black crystals (chloritized							
					feldspar ?) - 15-20% of unit.							
63					Also minor saussenitized feldspar xtls							
					and qtz medium grained.							
64												
65			60°									
66												
67												
68												
69				68.7-70.0	DARK GREEN MASSIVE FINE GRAINED MAFIC DIKE							
				MFDK	unfoliated finely crystalline. faulted contacts							
					69.1-69.4 - wht qtz vein. calcareous.							
70				70.0-72.4	DARK GREEN MEDIUM GRAINED ANDESITE/							
71				ADTT	DACITE TUFF s.a.g. abundant q veining +							
					silicification ab saussenite towards base of unit							
72												
				72.4-72.9	GREY MASSIVE APHANITIC RHYOLITE							
73				RHMS	glassy rhyolite. microcrystalline patches.							
			60°									
74				72.9-74.0	GREY MED GRAINED RHYOLITE CRYSTAL TUFF							
				RHRT	densely packed feldspar (1-2mm) in a darker							
75					aphanitic feldspathic matrix - imm chl.							
				74.0-75.4	GREY MASSIVE APHANITIC RHYOLITE							
76				RHMS	glassy texture							

PAGE 6 OF 18	PROJECT:	HOLE NO. 96-02

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
~5% pyrite fine-medium grained speckled throughout unit. sometimes forms crude bands.		51.9	54.9	3.0	175201	
		54.9	57.9	3.0	175202	
		57.9	59.8	1.9	175203	
1-2% pyrite, fine disseminated some crudely banded.		59.8	62.8	3.0	175204	
		62.8	65.8	3.0	175205	
		65.8	68.7	2.9	175206	
-		68.7	70.0	1.3	175207	
1-2% fine diss. pyrite.		70.0	72.4	2.4	176208	
1% fine diss - broad py		72.4	72.9	0.5	175209	
1-2% f.g. py. diss and clustered.		72.9	74.0	1.1	175210	
1% py diss and on fractures		74.0	75.4	1.4	175211	

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.
77			70°	75.4-77.4 RHTFF	GREY FINE GRAINED RHYOLITE TUFF grey, fine grained, quartz + felds + Min Chl							
78				77.4-105.6 RHTF (QFPH)	GREY COARSE RHYOLITE LAPILLI TUFF very distinct (as in hole WK96-01) large siliceous lapilli up to 2x4 cm. surrounded by a yellow green anastamosing sericitic matrix. (eye shaped frags). minor amounts of yellow/green saussenite local intervals of more F.g ashy tuff as above. Often qtz is more rounded - silica "knockers"							
84			70°		(seen less deformed in WK-96-02 - this unit is actually a quartz feldspar porphyry.)							
87					86.5-87.0 wht. qtz vein.							
91			70°									
95			60°									
99												

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MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
1% fg. bndd - diss. pyrite		75.4	77.4	2.0	175212	
1-2% fg. disseminated py		77.4	80.4	3.0	175213	
local py bands, fg., up to 1cm wide.						
		80.4	83.4	3.0	175214	
		83.4	86.4	3.0	175215	
		86.4	89.4	3.0	175216	
		89.4	92.4	3.0	175217	
		92.4	95.4	3.0	175218	
		95.4	98.4	3.0	175219	
		98.4	101.4	3.0	175220	

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.
					104.2 - 104.7 - (grey yellow) green interval [illegible] sericite - siliceous lenses and bands.							
				105.6-106.7 RHFF	GREY FINE GRAINED RHYOLITE TUFF grey grainy fine tuff, mainly qtz + felds intervals of above unit up to 20 cm							
				106.7-108.8 RHTF	GREY COARSE RHYOLITE LAPILLI TUFF same as above.							
				108.8-123.1 RHTT	GREY FINE-MED GRAINED RHYOLITE TUFF mainly grey grainy qtz / feldspar felsic tuff, occasional yellow-green sericitic partings mostly fine grained but some intervals med-coarse grained with up to 2mm dia. rounded to rectangular feldspar grains. rare 5mm calcite bands abundant mineralization - see adjacent description. gradual upper contact as micaceous bands and large "lapilli" become less common. lower contact marked by reappearance of yellow-green sericite and siliceous bands and lenses (lapilli)							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
		101.4	103.4	2.0	175221	
		103.4	105.6	2.2	175222	
		105.6	106.7	1.1	175223	
≈5% pyrite. Fg. mainly banded at a sub mm scale, occasional coarser clots. <1% pyrrhotite.		106.7	108.8	2.1	175224	
5-5% fine py + po. in sub mm scale bands, up to 2cm wide, some coarser py, 1% cpy		108.8	111.8	3.0	175225	
109.1 - 2cm wide band of fine po, with lesser slightly coarser py, local chalcopyrite clots up to 2mm.		111.8	114.8	3.0	175226	
		114.8	117.8	3.0	175227	
117.8 - bands of v. fine po + fine py up to 5mm, cpy clots, 1x4 mm.		117.8	120.8	3.0	175228	
		120.8	123.1	2.3	175229	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.
123				123.1-129.6 GREY/GREEN RHYOLITE LAPILLI TUFF							
				RHTF similar to coarse lapilli tuff above.							
124				(QFPH) light grey 1-5mm siliceous bands +							
			75°	lens shapes surrounded by a yellow							
125				green banded to anastamosing							
				sericite matrix. Occasional darker							
126				grey grainier intervals. sharp lower							
				contact - 70°							
127											
128											
129											
				129.6-140.4 GREY MED GRAINED RHYODACITE TUFF							
130				RDTT grey feldspar and alt fragments. intervals							
				contain dark (black) rectangular							
131				(130.2-130.5, interval of grey massive rhyolite							
			75°	with yellow green sericite partings.)							
132				chloritized feldspars, minor saussentized							
				feldspars throughout unit. fragments							
133				are med - locally coarse grained.							
				yellow green sericite along foliation							
134				occasional calcite blebs + bands							
				sharp lower contact @ 75°							
135											
			70°								
136											
137											
138											
139											
140			75°								
				140.4-142.3 GREY/GREEN RHYOLITE LAPILLI TUFF							
141				RHTF similar to above - varies from coarse to fine							
				(QFPH) grained + darker green.							
142				142.3-144.0 GREEN/BROWN CARBONATE ALTERED RHYOLITE TUFF							
				RHTF siliceous qtz/felds fine tuff with a fibrous							
143				looking sericitic "matrix". ubiquitous brown -							
				red/brown blebs + bands prob. are iron carbonate.							
144			65°	144.0-147.3 GREY MASSIVE APHANITIC RHYOLITE							
				RHMS sharp upper contact at 65° glassy texture							
145				minor sericite along foliation.							

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MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
1-2 % pyrite, occasional fine sub mm bands		123.1	126.1	3.0	175230	
		126.1	129.6	3.5	175231	
1-2% pyrite, <1% po diss-bnd fine grained 131.2. 5mm 1mm bands of pyrite w/ tr. chalcopyrite.		129.6	132.6	3.0	175232	
		132.6	135.6	3.0	175233	
		135.6	138.0	2.4	175234	
		138.0	140.4	2.4	175235	
1-2% pyrite, fine-coarse bands up to 5 mm + disseminations.		140.4	142.3	1.9	175236	
<1% fine disseminated py, calcite bands to 5mm (rare), ab sericite, could red brown be sulfides?		142.3	144.0	1.7	175237	
~1% diss-bndd fine gr. pyrite		144.0	147.3	3.3	175238	

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.
				147.3-147.8	YELLOW BROWN SERICITIC CARBONATE ALTERED RHY/TUFF							
-146			30°	RHST	distinctive yellow-brown colour, very fine yellow/							
					brown anastamosing sericite matrix dominates unit.							
-147					brown blebs as above. fine qtz+feld. min. 1-2 mm qtz bnds.							
				147.8-148.5	GREY MASSIVE APHANITIC RHYOLITE							
-148				RHMS	same as above.							
				148.5-156.4	INTERBEDDED RHYOLITE AND ARGILLITE							
-149			45°	RHAR	interbedded grey massive aphanitic rhyolite							
					and black carbonaceous yet very							
-150					siliceous argillite. Identical to this							
					same unit in TY96-01. some sericite							
-151					along foliation. about 20-30%							
					argillite over entire unit.							
-152					sharp upper contact.							
			75°									
-153												
-154												
-155												
-156												
				156.4-158.1	QUARTZ VEIN							
-157				QTVN	white quartz-vein irregular contacts							
-158												
				158.1-163.1	INTERBEDDED ARGILLITE/RHYOLITE							
-159				RHAR	very siliceous rock, mostly rhyolite							
					with interbeds of carbonaceous							
-160					not siliceous argillite							
					160.0-161.0 - white qv, pyrite alng fract.							
-161			75°									
-162												
-163				163.1-165.5	FAULT BRECCIA ZONE. irregular upper							
				STFB	contact - contorted bedding a							
-164					mixture of argillite and rhyolite							
					164.9-165.0 - washed out green mica - Ba?							
-165												
			30°	165.5-176.1	MASSIVE-BANDED GREY APHANITIC RHYOLITE							
-166				RHMS	siliceous, glassy texture, prob. flow unit							
					green/yellow sericite along foliation.							
-167					rare qtz knockers, up to 15 mm dia.							
-168												

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MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
<1% fine diss. pyrite		147.3	147.8	0.5	175239	
1% fine-med bndd pyrite.		147.8	148.5	0.7	175240	
fine-coarse grained banded pyrite up to 1cm wide (2-3% of unit)		148.5	151.5	3.0	175241	
		151.5	153.5	2.0	175242	
		153.5	156.4	2.9	175243	
		156.4	158.1	1.7	175244	
<1% f.g pyrite, banded.		158.1	160.5	2.4	175245	
		160.5	163.1	2.6	175246	
<1% banded stringers		163.1	165.5	2.4	175247	
4% pyrite, f.g. diss-bndd		165.5	168.5	3.0	175248	

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% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.
			175.9 - 176.1 - quartz vein 75° lower contact							
		70°	176.1 - 204.2 QKAS QUARTZ K-SPAR AUGEN SCHIST dark green, fine gr. chloritic matrix, well sheared, minor folding. large qtz knockers up to 2-3 cm diameter saussentized feldspar, K-spar up to 20 mm diameter. 176.2 - 176.3 - green "washed out" mica permeates rock (Ba?)							
		65°								
		75°								

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MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
		168.5	171.5	3.0	175249	
		171.5	174.5	3.0	175250	
		174.5	176.1	3.0	175301	
Trace diss. py.						
		176.1	180.5	4.4	175302	
		180.5	183.5	3.0	175303	
		183.5	186.5	3.0	175304	
		186.5	189.5	3.0	175305	
		189.5	192.5	3.0	175306	

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	ALTERATION E	FRACTURE INTENSITY	% VEIN QTZ.
192											
193											
194											
195											
196											
197											
198											
199											
200				(198.0 - 198.3 · white q.v.)							
201											
202											
203											
204											
205				204.2 - EOH							

 | PROJECT: TY | HOLE NO. 96-02

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
		192.5	194.5	2.0	175307	
		194.5	196.1	1.6	175308	
Trace diss. pyrite.		196.1	199.1	3.0	175309	
		199.1	202.1	3.0	175310	
		202.1	204.2	2.1	175311	

PAGE OF | PROJECT: | HOLE NO.

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT: TY	GROUND ELEV.: 1289
HOLE NO.: TY96-03	BEARING: 180°
LOCATION: GRID 6200E 4700N	DIP: 45°
	TOTAL LENGTH: 173.3 m.
LOGGED BY: G BRADSHAW	HORIZONTAL PROJECT
DATE: AUG 26	VERTICAL PROJECT
CONTRACTOR: BRITTON BROTHERS	**ALTERATION SCALE**
CORE SIZE: NQ	
DATE STARTED: AUG 23	
DATE COMPLETED: AUG 25	**TOTAL SULPHIDE SCALE**
DIP TESTS: 155.4 m - 55°	



absent
slight
moderate
intense



traces only
< 1%
1% – 3%
3% – 10%
> 10%

COMMENTS

LEGEND

PAGE 1 OF 15 | PROJECT: TY | HOLE NO. 96-03

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	ALTERATION E	FRACTURE INTENSITY	% VEIN QTZ.
				0-10.9 CASING							
10											
11				10.9-11.8 QTZ-VEIN - only 10 cm of core recovery QTVN							
12				11.8-18.4 GREEN ANDESITE/DACITE TUFF ADTT green, 5% medium gr. saussentized feldspars, mostly fine grained chloritic groundmass. calcite blebs + bands.							
13											
14											
15											
16											
17											
18											
19				18.4-24.7 GREY/WHITE MASSIVE APHANITIC RHYOLITE RHMS glassy texture, very siliceous, minor sericite along foliation							
20			55°								
21											
22											
23				22.8-23.0 - white bull qtz vein.							
24			45°								
25				24.7-26.9 GREY FINE GRAINED RHYOLITE TUFF RHTT fine grey to slightly green felsic tuff w/ minor sericite as a matrix between qtz + feldspar. " ab sericite on foliation							
26											
27			20°	26.9-34.4 GREY/WHITE APHANITIC RHYOLITE RHMS grey to greenish massive, glassy textured rhyolite.							
28											
29											
30											
31											

PAGE 2 OF 15	PROJECT:	HOLE NO. 96-03

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
		10.9	15.0	4.1	175312	
1% pyrite, fine diss, rare crude bands along foliation.						
		15.0	18.4	3.4	175313	
<1% py, along fractures.		18.4	21.5	3.1	175314	
		21.5	24.7	3.2	175315	
		24.7	26.9	2.2	175316	
Tr. disseminated fine pyrite.						
		26.9	29.5	2.6	175317	
		29.5	32.0	2.5	175318	

PAGE 3 OF 15 | PROJECT: TY | HOLE NO. 96-03

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.
32												
33												
34				34.4-34.6	WHITE BULL QUARTZ VEIN							
				GTVN	quartz vein with f.g. green chloritic inclusions							
35					irregular lower contact.							
				34.6-34.8	GREEN ANDESITE/DACITE TUFF							
36			45°	ADTT	as in 11.8-18.4, dark green, fine gr.							
				34.8-35.7	GREY MASSIVE - TUFFACEOUS RHYOLITE							
37				RHMS	grey, mainly massive, glassy textured - some							
					more tuffaceous interval.							
38				35.7-37.2	GREEN-GREY FINE-MED GRAINED DACITE-RHYODACITE							
				RDTT	TUFF							
39					variable unit, but consists of fine-med gr. qtz +							
					plagioclase, fine grained chlorite, minor k-spar							
40					local epidote/calcite/albite alteration of plag							
					minor sericite along foliation and minor							
41					calcite blebs. Varies from very fine grained							
					and siliceous to medium grained w/ qtz +							
42					(42.5 - 20-30 cm quartz zone (fault?))							
					(43.0 - small quartz vein (<10cm))							
43					Feldspar fragments (lenses) and intense							
					yellow green "saussurite" Minor qtz							
44					veining and silicification, well foliated.							
					(38.0-39.0 contains ~ 4-5% of an							
45					irregularly shaped coarse grained pink							
					mineral - fizzes slightly when scratched -							
46			55°		possibly Rhodochrosite?)							
47												
48												
49												
50												
51					51.9-52.0 - white bull qtz vein							
52												
53					53.0-53.2 - wht q.v. w/ inclusions of fine							
54					grained blk/green chloritic wall rock.							

PAGE 4 OF 15	PROJECT: TY	HOLE NO. 96-03

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
		32.0	34.6	2.6	175319	
		34.6	35.7	1.1	175320	
		35.7	38.7	3.0	175321	
1% py, fine-coarse euhedral disseminated						
<1% py. diss and along fractures.						
		38.7	41.7	3.0	175322	
- 1% py. fine-coarse gr. disseminations throughout unit.						
		41.7	44.7	3.0	175323	
		44.7	47.7	3.0	175324	
		47.7	50.7	3.0	175325	
		50.7	53.7	3.0	175326	
		53.7	56.7	3.0	175327	

PAGE 5 OF 15 | PROJECT: Ty | HOLE NO. 96-03

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	ALTERATION E	FRACTURE INTENSITY	% VEIN QTZ.
55											
56											
57			55°								
58											
59											
60											
61											
62				62.0-64.1 - yellow green dacite/and. tuff consisting mainly of saussurite (epidote/cc/albite) with a darker fine chloritic matrix. yellow rectangular-rounded grains - med → coarse. (Rock is ≈ 80% saussurite in this interval)							
63											
64											
65			65°								
66											
67											
68											
69											
70											
71				70.5-70.7 white qv w/ dark green v fine gr. chloritic inclusions 70.9-71.1 - white q.v.							
72			88°								
73											
74											
75				75.0-75.2 - white qv.							
76				75.2-80.9 LIGHT GREEN FINE DACITE TUFF DCTF qv. at upper contact - irregular. Light green to brownish fine tuff with 2-3%							
77											

PAGE 6 OF 15	PROJECT: TY	HOLE NO. 96-03

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
		56.7	59.7	3.0	175328	
		59.7	62.7	3.0	175329	
		62.7	65.7	3.0	175330	
		65.7	68.7	3.0	175331	
		68.7	71.0	2.3	175332	
		71.0	73.1	2.1	175333	
		73.1	75.2	2.1	175334	
<1% fine disseminated pyrite		75.2	78.2	3.0	175335	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.
				coarse dark green randomly distributed chloritized feldspars. Also fine-med yellow green "saussurite" throughout unit fairly sharp lower contact. Very fine tightly woven sericite matrix, rare qtz phenos.							
80				80.9-90.1 ROTT VARIABLE BROWNISH GREY/GREEN FINE-MED GRAINED QUARTZ PHYRIC RHYODACITE TUFF mainly f.g. qtz + feldspar and variable amounts of dark green chlorite. minor (81.0-81.1 - wht. qv w/ irregular contacts) saussurite. thin sub mm wavy yellow green sericite along foliation. qtz and feldspar grain size ranges from fine-medium. qtz "eyes" are present throughout unit (2-3%) - ≈ 1 x 2 mm. Also a brown mineral present throughout unit - red brown patchy bands - fizzes slightly when scratched - may be siderite or another carbonate mineral. upper contact somewhat arbitrary, lower contact sharp at base of small 1 cm qv.							
90				90.1-95.2 DCFF GREEN FINE GRAINED BANDED DACITE TUFF alternating yellow/green, dark green and brown bands on a mm scale. ab. silicification towards base of unit (93.4-94.5 - silicification, broken core, some gouge material) fine grained, ab sericite (yellow-green) along foliation. sharp lower contact.							
95				95.2-97.5 STGG FAULT/GOUGE ZONE 45° upper contact - sharp. Gouged and brecciated rhyolitic tuffaceous material just before gouge - core angle drops to 35°							
98				97.5-102.9 QFPH GREY/GREEN COARSE RHYOLITE LAPILLI TUFF distinctive unit - as in previous holes, lens-like quartz fragments (lapilli?) up to 1 x 2 cm in a yellow green anastamosing							
100											

PAGE 8 OF 15 | PROJECT: TY | HOLE NO. 96-03

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
		78.2	80.9	2.7	175336	
- 1-2% fine-medium pyrite - disseminated to banded.		80.9	83.9	3.0	175337	
		83.9	86.9	3.0	175338	
		86.9	90.1	3.2	175339	
- 1-2% pyrite - fine-coarse disseminations bands up to 5mm wide.		90.1	92.6	2.5	175340	
		92.6	95.2	2.6	175341	
		95.2	97.5	2.3	175342	
2-1% fine diss py		97.5	100.2	2.7	175343	

PROJECT: TY

HOLE NO. 96-03

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.
			60°		matrix. Quartz is grey/blue and ranges from thin bands to lens shapes. Normally larger white qtz forms angular to sub rounded "knockers" - sharp lower contact							
101												
102												
103			75°	102.9-103.3	GREEN FINE GRAINED DACITE CRYSTAL TUFF							
				DCXT	green fine grained tuff w/ ≈10% flattened feldspars and occasional blue quartz eyes.							
104				103.3-106.6	GREY/GREEN COARSE RHYOLITE LAPILLI TUFF							
105				QFPH	same as above, sharp upper and lower contacts (104.9-105.3: 40 cm interval of fine grained rhyodacite tuff - filled with X-cutting sec. qtz)							
106												
107				106.6-108.1	GREY/GREEN FINE GRAINED RHYOLITE TUFF							
				RHLT	similar but fine grained and lack of "fragments" occasional grey/blue qtz lenses, up to 5 x 20 mm							
108				108.1-117.4	GREY/GREEN COARSE RHYOLITE LAPILLI TUFF							
109				QFPH	same as above, >50% of rock is angular - rounded quartz knockers. lower contact hard to pin down - seems to grade into K-spar unit.							
			70°									
110												
111												
112												
113					112.8-112.9: 10 cm gouge zone							
114					113.7-114.2: white quartz veining + gouge							
115					114.7, 115.0: 5 cm dark grey/black soft (argillaceous?) intervals.							
116			70°									
117												
			60°	117.4-120.5	QUARTZ K-SPAR AUGEN SCHIST							
118				QKAS	classic "K-spar rock" w/ ≈40% mostly rounded 3mm-1cm quartz knockers and ≈20% subrounded 5mm-2cm K-spar chunks, separated by a yellow green wispy sericite matrix occasional saussentized feldspars up to 1 cm.							
119												
120												
121			30°	120.5-123.0	GREY/GREEN COARSE RHYOLITE LAPILLI TUFF							
				QFPH	poorly defined upper contact, qv from (121.2 - 20 cm gouge zone) 120.3-120.5, same rock as 108.1-117.4.							
122												
123												

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
		100.2	102.9	2.7	175344	
Tr. diss. pyrite.		102.9	103.3	0.4	175345	
		103.3	106.6	3.3	175346	
~1% fine diss pyrite		106.6	108.1	1.5	175347	
		108.1	111.2	3.1	175348	
		111.2	114.3	3.1	175349	
		114.3	117.4	3.1	175350	
Tr. diss. fine py		117.4	120.5	3.1	175351	
		120.5	123.0	2.5	175352	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.
				123.0-124.2	FAULT/SHEAR ZONE - ground, fractured							
-124				STFL	silicicified and brecciated rhyolitic tuff							
			40 CT									
-125			30°	124.2-127.2	GREY FINE GRAINED MASSIVE-BANDED							
				RDTT	RHYODACITE TUFF - fine grained							
-126					minor sericite, local calcite blebs,							
					bands. occasional grey/white medium gr.							
-127					feldspar fragments.							
				127.2-134.8	GREEN DACITE/ANDESITE CRYSTAL TUFF							
-128				ADXT	(occasional interbeds of glassy textured							
					grey aphanitic rhyolite)							
-129					(128.1 - 10 cm of irregular quartz veining)							
					(128.9 - 129.3: grey rhyolite)							
-130			70°		grey green fine sericite surrounding white/							
					grey medium gr. flattened feldspar grains							
-131					occasional yellow-green saussentized feldspar,							
					5-10% dark green - black chloritized feldspar							
-132					occasional qv's and silicification, min.							
					chlorite.							
-133												
					(133.4 - 133.9 grey rhyolite)							
-134												
-135			55°	134.8-139.7	LIGHT-MED GREY MASSIVE APHANITIC RHYOLITE							
				RHMS	glassy texture, min scale yellow sericite							
-136					along foliation throughout unit. some dark							
					brown-black micaceous partings towards							
-137					base of unit - massive siliceous.							
-138												
-139												
-140			45°	139.7-148.0	VARIABLE GREEN ANDESITE/DACITE TUFF- CRYSTAL							
				ADTT	TUFF - abundant qv's and silicification							
-141					ranges from grey green chaotic dacitic							
					tuff w/ 30% coarse saussentized feldspar							
-142					and 1-2% black chloritized feldspars in							
					a micaceous green groundmass to a							
-143			45°		more regular andesite tuff with white/grey							
					medium gr. flattened feldspars in a							
-144					fine chloritic groundmass. ab red-brown							
					blotchy carbonate towards base of unit							
-145												
					(145.3-146.6 - quartz vein)							
-146												

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
- Tr fine diss py		123.0	124.2	1.2	175353	
< 1% diss to banded fine-med gr. py		124.2	127.2	3.0	175354	
≈ 1% py + pø, tr. cpy. Fine diss py and pø throughout unit, occasional 1-2 mm pø bands		127.2	129.7	2.5	175355	
		129.7	132.2	2.5	175356	
131.05 - 5 cm interval crudely banded v. coarse py clots and tr. f.g chalcopyrite.						
		132.2	134.8	2.6	175357	
- 1-2% py + pø, mainly mobilized into bands of fine - coarse grains along fdn.		134.8	137.3	2.5	175358	
		137.3	139.7	2.4	175359	
1% Fine - med grained diss to crudely banded py, tr pø.		139.7	142.5	2.8	175360	
		142.5	145.3	2.8	175361	
		145.3	148.0	2.7	175362	

PROJECT: RY

HOLE NO. 96-03

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	ALTERATION E	FRACTURE INTENSITY	% VEIN QTZ.
147			65°								
148				148.0 - 158.7 RHFR GREENISH GREY - PINK BANDED - FRAGMENTAL RHYOLITE distinctive unit, sharp irregular upper contact (unconformity?) glassy textured massive rhyolite. med-dark green wavy micaceous partings give rock a fragmental appearance. very siliceous. Top 30 cm of unit has a distinct pink/purple tinge (Mn?), also occurs occasionally throughout unit. ab late irregular q.v.'s and silicification (153.7: 15 cm green tuffaceous interval)							
154			65°								
155				(154.8 - 155.0: green tuffaceous rock + qv ing.) (155.4 - 155.6: green tuffaceous interval)							
156											
157											
158											
159			55°	158.7 - 159.6 ADTT DARK GREEN FINE GRAINED ANDESITE TUFF green chloritic tuff with fine feldspar grains. local brown carbonate, minor saussenite some qvs.							
160				159.6 - 163.9 RHMS WHITE/GREY MASSIVE RHYOLITE / RHYOLITE LAPILLI TUFF same as above but more massive + no fragmental appearance. (162.0 - 162.3: gouge zone, brecciation + clay)							
161			55°								
162											
163											
164				163.9 - 165.9 RHST LIGHT GREEN SERICITIC RHYOLITE TUFF light green fibrous sericite dominates unit some red/brown carbonate, f.g. qtz + felds.							
165											
166				165.9 - 173.7 QKAS DARK GREEN QUARTZ-K-SPAR AUGEN SCHIST not "classic" like same unit above, dark green f.g. chloritic matrix ab yellow green "saussenite" in patches throughout red brown poss. carbonate mineral present near top of unit, ab silicification. Only							
167											
168											
169											

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
≥1% fine-med gr. diss alng		148.0	150.7	2.7	175363	
micaceous bands.						
		150.7	153.4	2.7	175364	
		153.4	156.1	2.7	175365	
		156.1	158.7	2.6	175366	
Tr. diss. pyrite.		158.7	159.6	0.9	175367	
Tr diss pyrite along foln		159.6	161.8	2.2	175368	
		161.8	163.9	2.1	175369	
<1% diss pyrite		163.9	165.9	2.0	175370	
Tr diss - crudely banded E.g. py		165.9	168.9	3.0	175371	
		168.9	171.9	3.0	175372	
		171.9	173.7	1.8	175373	

PAGE 15 OF 15 | PROJECT: TY | HOLE NO. 96-03

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	B	C	D	E	FRACTURE INTENSITY	% VEIN QTZ.
170				rare small (2-5mm) flattened pink K-spars could be a fine andesite dyke?							
171											
172											
173											
174		EOH		173.7 - EOH 2x5							
175											
176											
177											
178											
179											
180											
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185											
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187											
188											
189											
190											
191											
192											

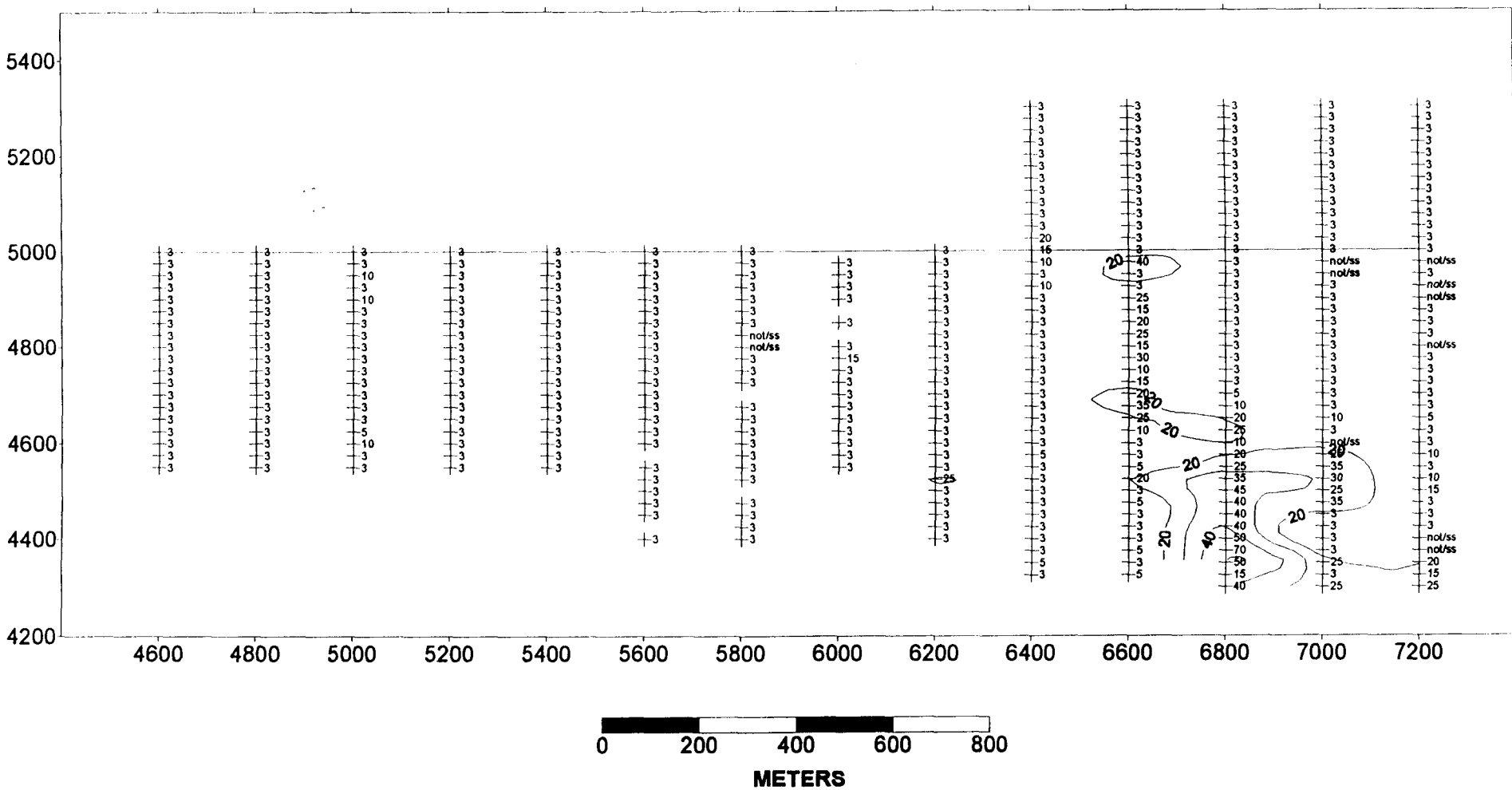
APPENDIX F

DIGHEM AIRBORNE SURVEY REPORT

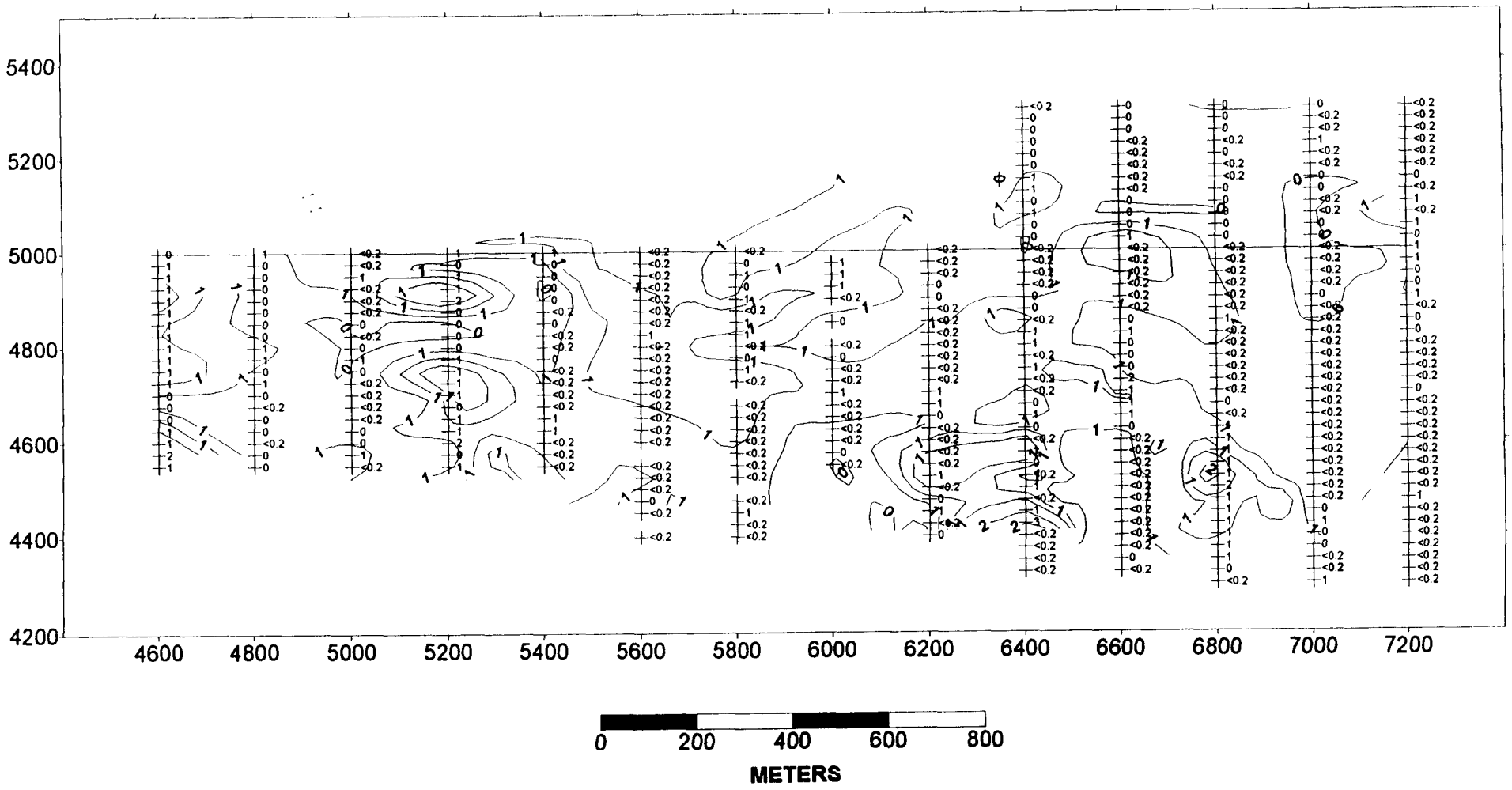
APPENDIX G

CONTOURED SOIL GRID PLOTS

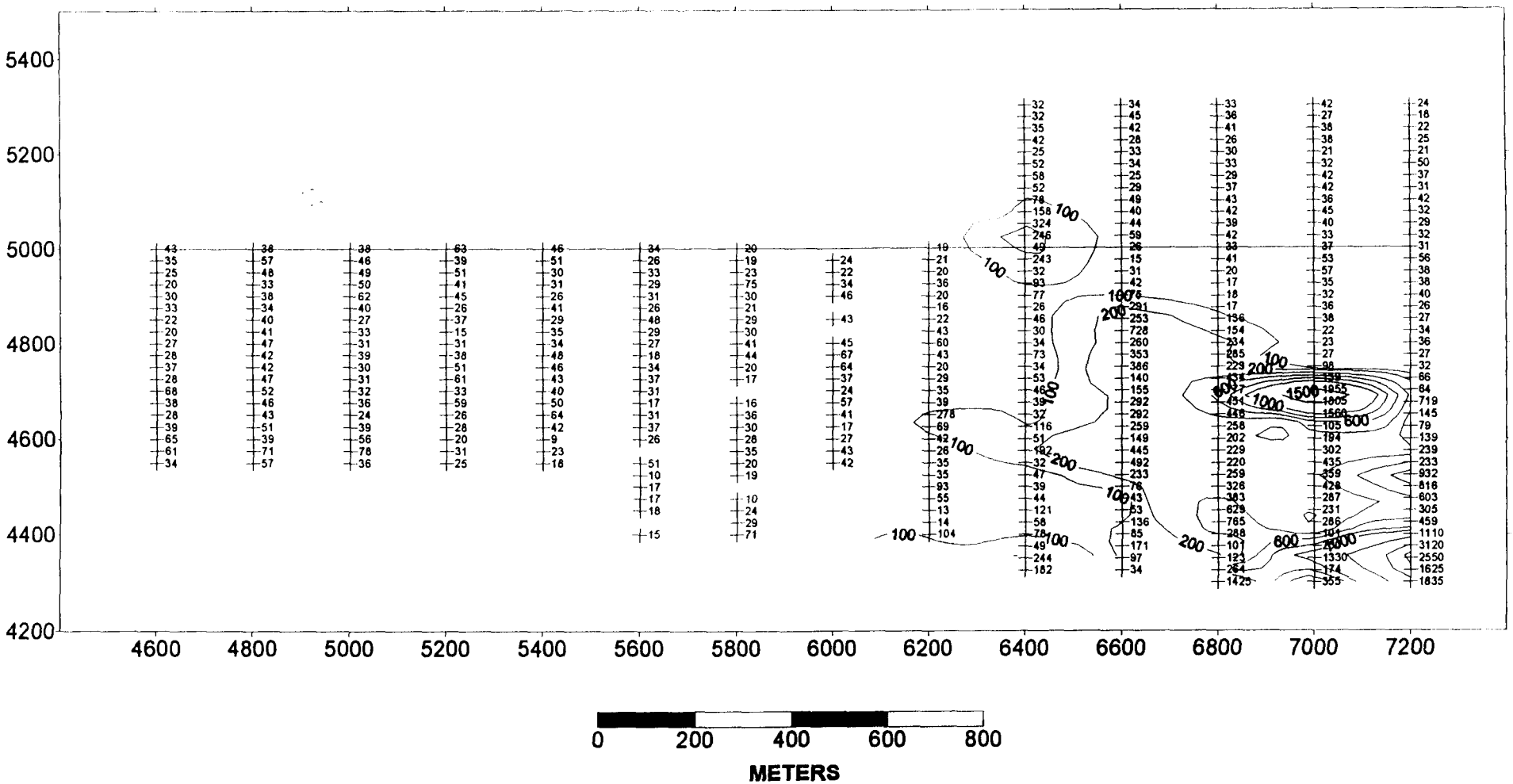
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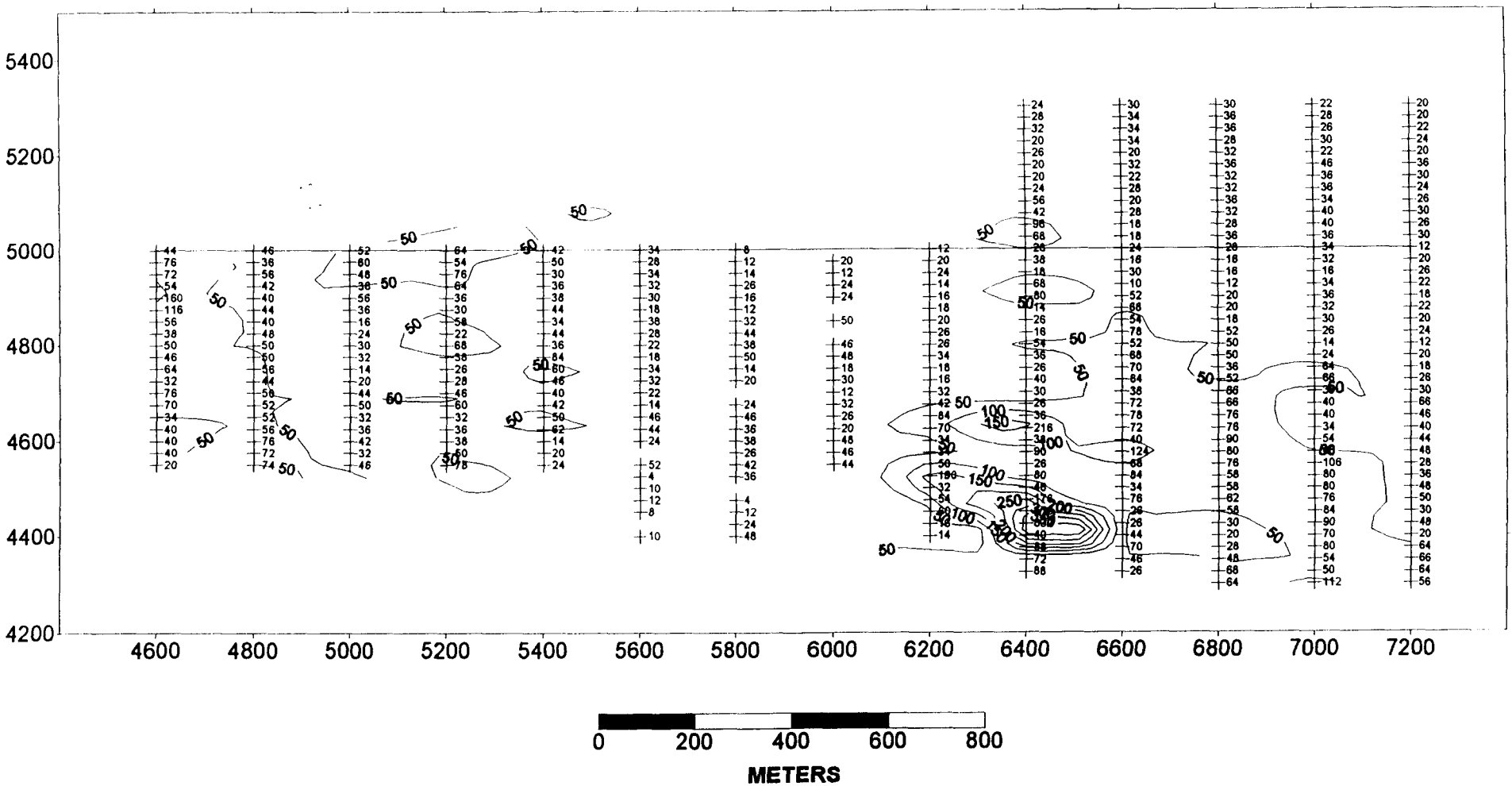
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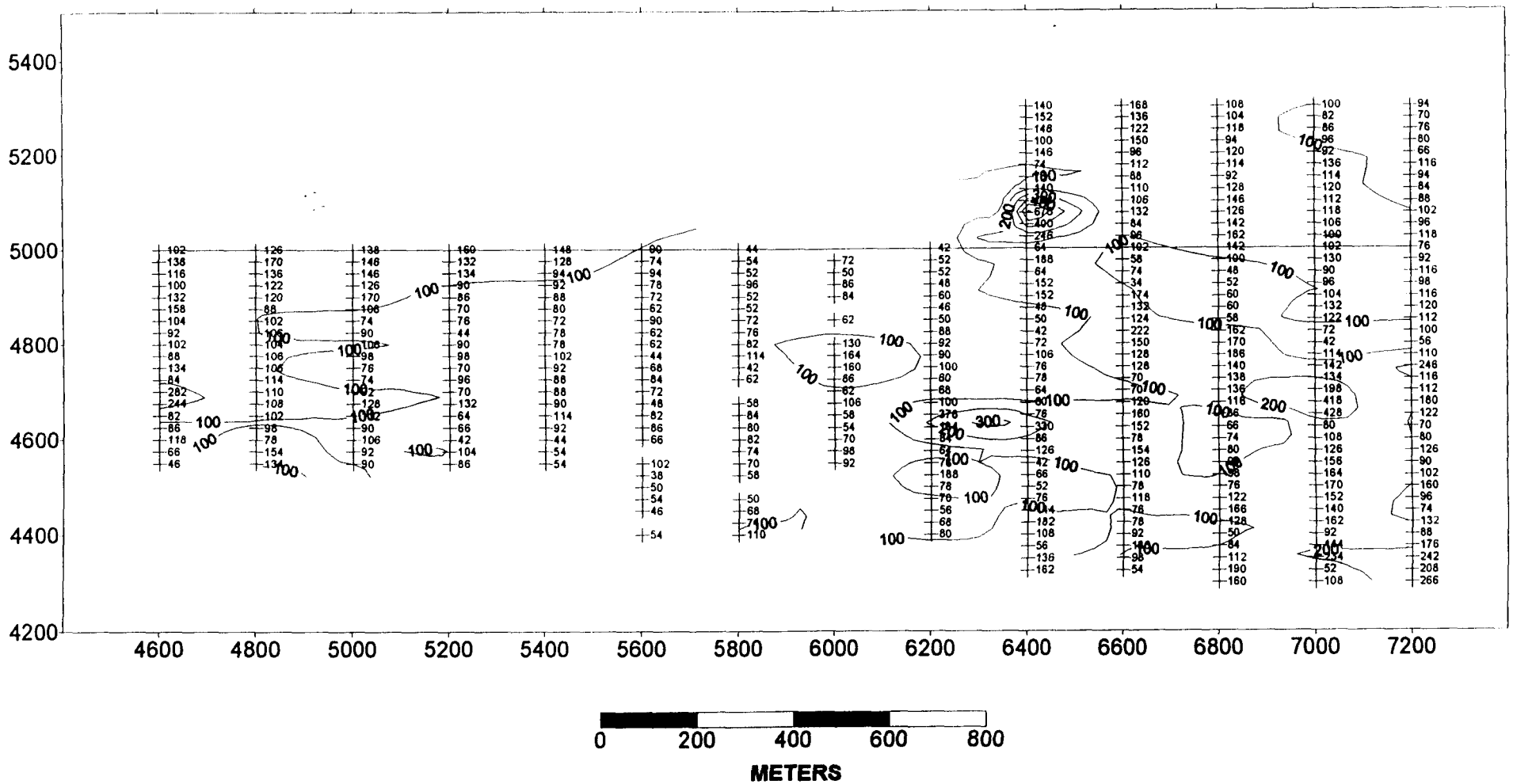
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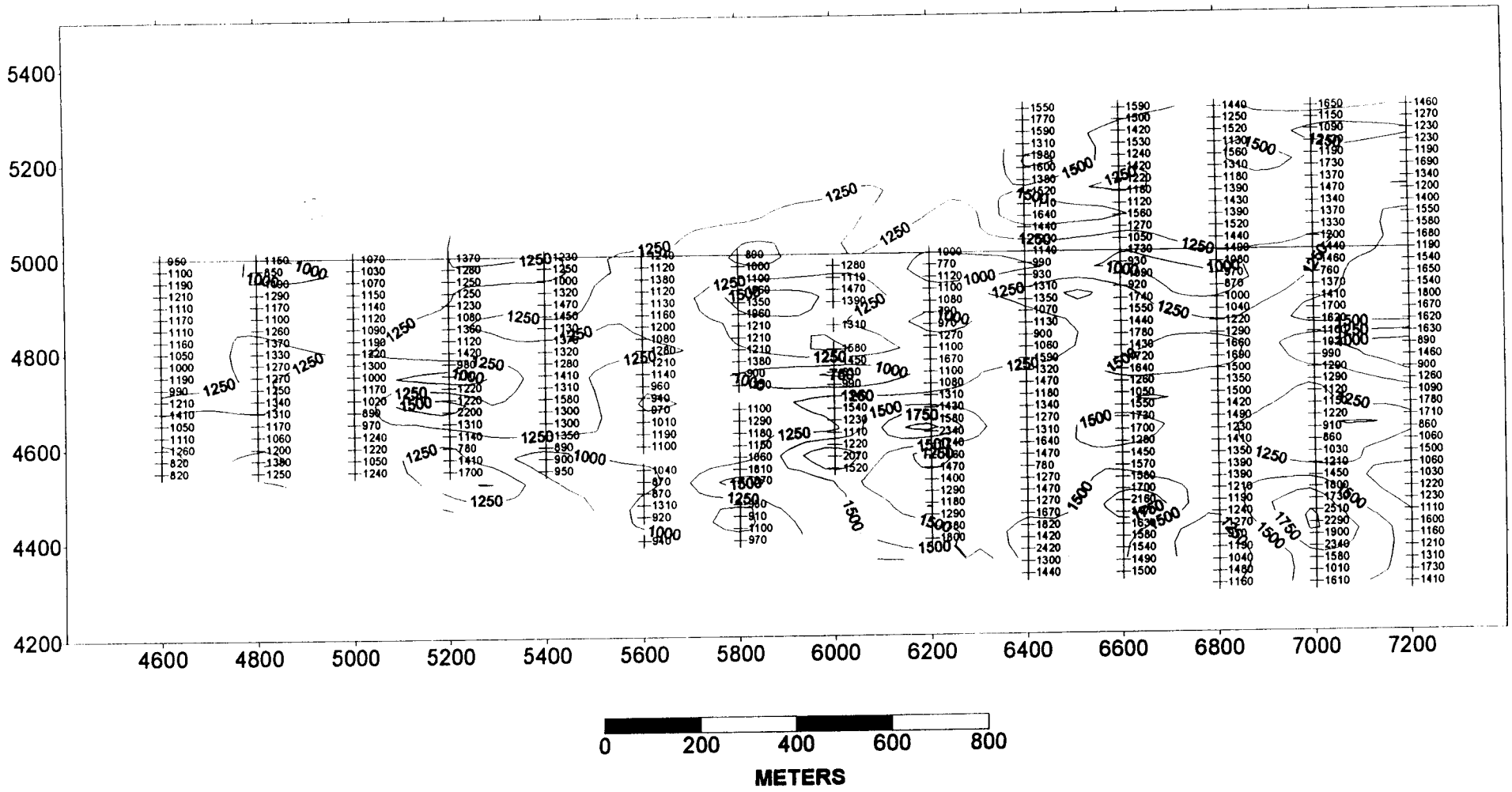
TY GRID PB IN SOILS (PPM)



TY GRID ZN IN SOILS (PPM)



TY GRID BA IN SOILS (PPM)



APPENDIX H

ASSAY CERTIFICATES

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9623656

Comments: ATTN:DAVID TERRY

CERTIFICATE A9623656

(GP) - WESTMIN RESOURCES LTD.

Project: 6410
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 19-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	144	Dry, sieve to -80 mesh
202	144	save reject
285	144	ICP - HF digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	144	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
578	144	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	144	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	144	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	144	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	144	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	144	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	144	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	144	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	144	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	144	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	144	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	144	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	144	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	144	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	144	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	144	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	144	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	144	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	144	Pb ppm: 24 element, rock & core	AAS	2	10000
582	144	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	144	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	144	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	144	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	144	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6410
Comments: ATTN:DAVID TERRY

Certificate Date: 19-JUL-96
Invoice No. :I9623656
P.O. Number :
Account :GP

CERTIFICATE OF ANALYSIS A9623656

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
270951	201 202	940	< 1	1.07	44	1160	4	93	0.57	192	< 10	78
	201 202	445	1	1.41	25	1860	2	171	0.35	112	< 10	46
	201 202	610	1	1.08	32	1450	4	120	0.51	175	< 10	56
	201 202	755	< 1	1.28	50	990	4	128	0.51	178	< 10	68
	201 202	845	3	1.74	45	650	< 2	141	0.63	206	< 10	80
	201 202	870	< 1	1.90	77	760	2	210	0.42	128	< 10	88
	201 202	660	1	2.02	39	390	4	218	0.56	177	< 10	64
	201 202	655	< 1	1.88	31	310	2	209	0.55	185	< 10	56
	201 202	715	1	2.08	43	430	4	182	0.55	171	< 10	66
	201 202	495	3	1.77	24	800	18	231	0.42	109	< 10	158
	201 202	480	3	1.74	14	630	10	252	0.38	114	< 10	82
	201 202	665	< 1	1.83	28	800	6	177	0.53	130	< 10	96
	201 202	495	2	1.59	28	580	18	161	0.43	86	< 10	72
	201 202	805	3	1.56	27	1210	20	173	0.51	100	< 10	122
	201 202	835	< 1	1.85	50	800	< 2	136	0.62	216	< 10	80
	201 202	695	< 1	2.01	34	450	20	225	0.44	136	< 10	108
	201 202	855	1	1.57	104	230	< 2	126	0.49	174	< 10	68
	201 202	400	1	1.57	27	420	20	128	0.36	85	20	58
	201 202	1020	1	1.54	22	710	10	141	0.38	114	< 10	66
	201 202	780	< 1	1.59	106	570	< 2	117	0.64	196	< 10	100
	201 202	825	< 1	2.04	58	560	6	219	0.50	158	< 10	80
	201 202	600	3	1.60	35	610	14	138	0.46	140	< 10	98
	201 202	440	< 1	1.65	25	940	10	181	0.32	100	< 10	62
	201 202	690	1	1.53	13	710	16	164	0.41	97	< 10	130
	201 202	770	1	1.98	8	520	12	301	0.24	57	< 10	62
	201 202	960	3	1.61	32	1320	12	161	0.33	114	< 10	134
	201 202	405	2	1.37	28	1410	16	112	0.30	90	< 10	90
	201 202	370	1	1.30	13	380	14	104	0.31	87	< 10	60

CERTIFICATION: Stewart Bradley

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6410
Comments: ATTN:DAVID TERRY

Page Number :4-A
Total Pages :4
Certificate Date: 19-JUL-96
Invoice No. :I9623656
P.O. Number :
Account :GP

CERTIFICATE OF ANALYSIS A9623656

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
270951	201	202	< 5	< 0.2	5.96	490	< 0.5	< 2	3.23	0.5	18	184	35	4.40	0.78	2.45
[redacted]	201	202	< 5	0.4	5.80	480	0.5	< 2	1.97	< 0.5	13	114	82	2.81	0.87	1.43
	201	202	< 5	< 0.2	6.22	680	0.5	< 2	2.78	< 0.5	14	152	35	4.03	1.03	1.74
	201	202	< 5	< 0.2	6.48	510	0.5	< 2	3.41	0.5	21	178	55	4.61	0.86	2.43
	201	202	< 5	< 0.2	6.85	410	< 0.5	< 2	3.98	< 0.5	22	202	34	4.86	0.87	2.86
	201	202	< 5	< 0.2	7.51	520	0.5	< 2	2.69	< 0.5	30	194	59	3.78	1.30	2.88
	201	202	< 5	< 0.2	7.06	540	0.5	< 2	3.40	< 0.5	19	170	36	4.19	1.17	2.39
	201	202	< 5	< 0.2	7.09	530	0.5	< 2	3.36	< 0.5	18	163	28	4.26	1.25	2.03
	201	202	< 5	0.4	6.96	470	0.5	< 2	3.44	< 0.5	21	177	30	4.31	1.20	2.45
	201	202	< 5	0.8	6.63	840	1.5	< 2	1.52	1.5	13	72	50	3.29	1.86	0.91
	201	202	< 5	< 0.2	6.57	990	1.5	< 2	1.93	1.0	10	68	22	2.59	1.89	1.00
	201	202	< 5	< 0.1	6.68	780	2.0	< 2	2.00	1.5	14	95	26	3.76	1.67	1.50
	201	202	< 5	0.4	6.19	870	2.5	< 2	1.01	< 0.5	12	90	13	2.94	2.23	0.84
	201	202	< 5	0.6	6.48	800	2.5	< 2	2.27	1.0	12	77	30	3.45	1.81	1.05
	201	202	< 5	< 0.2	7.07	330	0.5	< 2	3.59	0.5	29	148	43	5.66	1.00	2.98
	201	202	< 5	< 0.2	7.99	610	1.0	< 2	3.76	0.5	19	167	16	3.48	1.45	1.84
	201	202	< 5	< 0.2	8.25	300	< 0.5	< 2	4.87	< 0.5	37	312	26	5.38	0.76	3.97
	201	202	< 5	< 0.2	6.26	890	4.0	6	1.16	0.5	11	86	12	2.52	2.29	0.98
	201	202	< 5	< 0.2	6.13	760	1.5	< 2	1.86	0.5	16	91	12	2.80	1.78	1.12
	201	202	< 5	< 0.2	7.76	130	< 0.5	< 2	4.62	1.0	52	385	107	6.70	0.53	3.25
	201	202	< 5	< 0.2	8.32	690	0.5	< 2	3.51	0.5	25	209	25	4.40	1.38	2.18
	201	202	< 5	0.4	6.96	840	1.5	< 2	2.27	< 0.5	16	131	23	3.43	1.60	1.51
	201	202	< 5	< 0.2	6.31	950	2.0	< 2	1.62	0.5	11	75	21	2.43	1.98	1.03
	201	202	< 5	< 0.2	6.21	1000	1.5	< 2	1.23	0.5	8	61	10	2.32	1.97	0.70
	201	202	< 5	< 0.2	6.22	980	1.5	< 2	1.24	< 0.5	7	29	13	1.58	2.11	0.52
	201	202	< 5	< 0.2	6.26	1020	1.5	< 2	1.58	< 0.5	12	82	20	3.02	1.67	1.08
	201	202	< 5	< 0.2	5.28	820	2.0	< 2	1.29	< 0.5	9	98	11	2.50	1.78	0.92
	201	202	< 5	< 0.2	5.54	930	1.5	< 2	0.78	< 0.5	7	62	8	2.12	1.97	0.56

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9626750

Comments: cc:David Terry

CERTIFICATE A9626750

[illegible] WESTMIN RESOURCES LTD

Project: 6408
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 7-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
241	96	RUSH: Dry, sieve to -80 mesh
202	96	save reject
285	96	ICP - HF digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	94	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
578	96	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	96	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	96	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	96	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	96	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	96	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	96	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	96	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	96	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	96	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	96	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	96	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	96	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	96	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	96	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	96	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	96	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	96	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	96	Pb ppm: 24 element, rock & core	AAS	2	10000
582	96	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	96	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	96	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	96	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	96	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX [illegible]
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: cc:David Terry

Page Number : 1-A
Total Pages : 3
Certificate Date : [illegible]
Invoice No. : 19626750
P.O. Number :
Account : GPW

CERTIFICATE OF ANALYSIS A9626750

SAMPLE	PREP CODE		Au ppb RUSH	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
TY 5800E 4800N	241	202	not/ss	< 0.2	4.79	1210	1.5	< 2	0.82	0.5	40	39	41	2.86	1.59	0.73
TY 5800E 4825N	241	202	not/ss	0.6	6.69	1210	1.5	2	0.96	< 0.5	27	34	30	3.23	2.18	0.98
TY 5800E 4850N	241	202	< 5	1.0	6.74	1210	1.5	4	1.18	< 0.5	11	40	29	2.83	2.12	1.03
TY 5800E 4875N	241	202	< 5	< 0.2	7.73	1960	2.0	2	0.79	< 0.5	7	54	21	2.54	3.00	0.89
TY 5800E 4900N	241	202	< 5	0.8	6.53	1350	1.5	< 2	0.68	< 0.5	6	43	30	2.58	2.26	0.96
TY 5800E 4925N	241	202	< 5	0.2	7.84	1960	2.0	< 2	0.79	0.5	19	74	75	5.10	2.93	1.51
TY 5800E 4950N	241	202	< 5	0.6	6.53	1100	1.5	< 2	1.07	< 0.5	7	31	23	2.47	2.16	0.84
TY 5800E 4975N	241	202	< 5	0.4	7.20	1000	1.5	< 2	1.34	0.5	7	38	19	2.20	2.26	0.92
TY 5800E 5000N	241	202	< 5	< 0.2	6.76	890	1.0	< 2	1.51	< 0.5	5	15	20	1.43	2.07	0.55
TY 6000E 4550N	241	202	< 5	< 0.2	7.66	1520	2.0	< 2	0.54	< 0.5	11	43	42	3.57	3.47	1.15
TY 6000E 4575N	241	202	< 5	0.2	9.29	2070	2.5	2	0.58	0.5	5	59	43	4.91	3.87	1.62
TY 6000E 4600N	241	202	< 5	< 0.2	6.62	1220	1.5	2	0.42	< 0.5	5	39	27	3.05	2.63	0.77
TY 6000E 4625N	241	202	< 5	< 0.2	7.16	1110	1.5	2	0.89	< 0.5	4	35	17	1.90	2.32	0.70
TY 6000E 4650N	241	202	< 5	< 0.2	7.00	1230	1.5	2	0.30	< 0.5	4	54	41	4.71	2.38	0.85
TY 6000E 4675N	241	202	< 5	< 0.2	7.70	1540	2.5	< 2	0.27	0.5	17	55	57	4.41	3.19	1.13
TY 6000E 4700N	241	202	< 5	0.8	7.25	1340	1.5	2	1.35	< 0.5	7	30	24	2.16	2.49	0.87
TY 6000E 4725N	241	202	< 5	< 0.2	6.73	990	1.5	4	0.54	< 0.5	10	61	37	4.50	2.05	0.88
TY 6000E 4750N	241	202	< 5	< 0.2	7.74	630	1.5	< 2	0.54	0.5	17	141	64	7.05	1.09	2.65
TY 6000E 4775N	241	202	15	0.4	7.31	1450	2.0	< 2	0.63	< 0.5	30	78	67	8.28	1.61	2.18
TY 6000E 4800N	241	202	< 5	< 0.2	6.80	1580	1.5	2	0.62	0.5	25	66	45	5.51	1.99	1.68
TY 6200E 4550N	241	202	< 5	< 0.2	7.45	1470	2.0	6	0.45	< 0.5	8	42	35	3.59	3.39	1.16
TY 6200E 4575N	241	202	< 5	< 0.2	7.03	1160	2.0	< 2	0.45	< 0.5	7	38	26	3.15	2.93	0.98
TY 6200E 4600N	241	202	< 5	< 0.2	7.38	1240	2.0	< 2	0.69	< 0.5	11	42	42	3.24	3.33	1.14
TY 6200E 4625N	241	202	< 5	< 0.2	8.75	2340	2.5	6	0.39	0.5	17	34	69	4.33	4.38	1.44
TY 6200E 4650N	241	202	< 5	0.4	8.53	1580	2.0	2	0.74	3.0	29	69	278	5.03	3.58	1.83
TY 6200E 4675N	241	202	< 5	0.6	7.56	1430	2.5	8	0.30	< 0.5	11	61	39	4.50	3.23	1.30
TY 6200E 4700N	241	202	< 5	0.8	7.55	1310	2.0	2	0.38	< 0.5	6	52	35	3.08	2.88	0.91
TY 6200E 4725N	241	202	< 5	< 0.2	7.46	1080	1.5	< 2	1.27	0.5	7	27	29	2.28	2.39	0.77
TY 6200E 4750N	241	202	< 5	< 0.2	7.24	1100	1.5	4	0.31	0.5	10	44	20	4.55	2.14	1.32
TY 6200E 4775N	241	202	< 5	< 0.2	7.35	1670	2.0	2	0.58	< 0.5	7	57	43	3.31	2.56	0.95
TY 6200E 4800N	241	202	< 5	< 0.2	6.46	1100	1.5	2	0.69	< 0.5	7	70	60	4.22	2.13	1.46
TY 6200E 4825N	241	202	< 5	< 0.2	7.22	1270	2.0	< 2	0.71	< 0.5	18	54	43	4.15	2.96	1.48
TY 6200E 4850N	241	202	< 5	< 0.2	5.91	970	1.5	2	0.69	< 0.5	6	40	22	2.74	2.31	0.98
TY 6200E 4875N	241	202	< 5	< 0.2	5.51	790	1.0	2	0.75	< 0.5	6	34	16	2.83	2.01	0.80
TY 6200E 4900N	241	202	< 5	0.4	6.80	1080	1.5	2	0.76	< 0.5	12	40	20	2.63	2.39	0.88
TY 6200E 4925N	241	202	< 5	0.4	6.47	1100	1.5	< 2	0.95	< 0.5	12	40	36	2.91	2.09	0.79
TY 6200E 4950N	241	202	< 5	< 0.2	6.64	1120	1.5	2	0.90	< 0.5	8	42	20	2.40	2.29	0.71
TY 6200E 4975N	241	202	< 5	< 0.2	7.31	770	1.5	< 2	0.72	< 0.5	5	27	21	2.78	2.16	0.57
TY 6200E 5000N	241	202	< 5	< 0.2	5.95	1000	1.0	2	0.95	< 0.5	4	44	19	1.89	1.93	0.52
TY 6400E 4550N	241	202	< 5	0.2	6.13	780	0.5	< 2	1.46	< 0.5	5	8	32	1.46	1.86	0.47

CERTIFICATION: Stewart Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: cc:David Terry

Page Number : 1 B
Total Pages : 3
Certificate Date : 19-OCT-90
Invoice No. : 19626750
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9626750

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
TY 5800E 4800N	241	202	>10000	6	0.64	25	1550	38	148	0.21	67	< 10	82
TY 5800E 4825N	241	202	4120	4	1.25	16	1230	44	232	0.29	83	< 10	76
TY 5800E 4850N	241	202	935	3	1.40	18	1180	32	268	0.30	79	< 10	72
TY 5800E 4875N	241	202	735	3	1.31	11	570	12	243	0.26	125	< 10	52
TY 5800E 4900N	241	202	575	3	1.28	14	1120	16	186	0.29	103	< 10	52
TY 5800E 4925N	241	202	1320	6	0.99	30	1010	26	161	0.39	198	< 10	96
TY 5800E 4950N	241	202	675	4	1.60	9	760	14	278	0.28	79	< 10	52
TY 5800E 4975N	241	202	490	1	1.97	8	600	12	364	0.29	74	< 10	54
TY 5800E 5000N	241	202	340	3	2.38	4	640	8	456	0.20	41	< 10	44
TY 6000E 4550N	241	202	640	4	0.81	21	770	44	108	0.37	91	< 10	92
TY 6000E 4575N	241	202	575	6	0.64	21	780	46	148	0.35	153	< 10	98
TY 6000E 4600N	241	202	340	5	0.84	10	780	48	107	0.35	120	< 10	70
TY 6000E 4625N	241	202	330	2	1.63	8	780	20	270	0.29	86	< 10	54
TY 6000E 4650N	241	202	330	4	0.79	13	730	26	93	0.41	109	< 10	58
TY 6000E 4675N	241	202	1280	3	0.65	21	710	32	78	0.38	95	< 10	106
TY 6000E 4700N	241	202	475	1	1.66	8	730	12	337	0.23	65	< 10	62
TY 6000E 4725N	241	202	695	3	0.89	20	710	30	149	0.45	120	< 10	86
TY 6000E 4750N	241	202	1140	3	1.45	63	940	18	184	0.86	169	< 10	160
TY 6000E 4775N	241	202	1805	< 1	1.20	51	2320	48	105	0.75	173	< 10	164
TY 6000E 4800N	241	202	1790	4	1.01	28	1730	46	126	0.81	161	< 10	130
TY 6200E 4550N	241	202	520	5	0.84	13	500	50	96	0.35	90	< 10	76
TY 6200E 4575N	241	202	430	3	0.99	11	350	34	121	0.33	84	< 10	64
TY 6200E 4600N	241	202	595	3	1.12	17	580	34	158	0.33	88	< 10	84
TY 6200E 4625N	241	202	940	6	0.82	26	890	70	76	0.35	108	< 10	134
TY 6200E 4650N	241	202	1415	8	0.82	24	680	84	127	0.30	124	< 10	378
TY 6200E 4675N	241	202	715	6	0.53	27	640	42	71	0.44	112	< 10	100
TY 6200E 4700N	241	202	455	8	0.77	12	630	32	121	0.35	111	< 10	68
TY 6200E 4725N	241	202	465	1	2.19	11	480	16	394	0.29	63	< 10	60
TY 6200E 4750N	241	202	820	3	1.63	14	380	18	91	0.38	116	< 10	100
TY 6200E 4775N	241	202	495	5	1.03	15	870	34	175	0.36	119	< 10	90
TY 6200E 4800N	241	202	715	3	1.04	27	1080	26	116	0.54	141	< 10	92
TY 6200E 4825N	241	202	1100	3	1.24	21	880	26	123	0.40	117	< 10	88
TY 6200E 4850N	241	202	450	3	1.09	12	420	20	134	0.30	89	< 10	50
TY 6200E 4875N	241	202	410	2	1.28	9	410	18	161	0.34	79	< 10	46
TY 6200E 4900N	241	202	875	5	1.36	10	1080	16	194	0.31	103	< 10	60
TY 6200E 4925N	241	202	2220	3	1.37	9	2210	14	244	0.27	85	< 10	48
TY 6200E 4950N	241	202	610	4	1.59	10	960	24	229	0.37	103	< 10	52
TY 6200E 4975N	241	202	390	1	1.71	8	1050	20	169	0.30	64	< 10	52
TY 6200E 5000N	241	202	315	4	1.53	8	310	12	198	0.44	86	< 10	42
TY 6400E 4550N	241	202	300	1	2.26	< 1	490	26	437	0.17	32	< 10	42

CERTIFICATION: Stan Bulder

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX [illegible]
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: cc:David Terry

CERTIFICATE OF ANALYSIS A9626750

SAMPLE	PREP CODE		Au ppb RUSH	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
TY 6400E 4575N	241	202	5	1.4	7.35	1470	1.5	< 2	0.68	< 0.5	27	70	192	3.88	2.61	1.34
TY 6400E 4600N	241	202	< 5	< 0.2	7.12	1640	1.5	< 2	0.31	< 0.5	9	66	51	3.80	3.01	1.74
TY 6400E 4625N	241	202	< 5	0.4	6.99	1310	1.5	< 2	0.67	0.5	11	62	116	5.39	2.52	2.26
TY 6400E 4650N	241	202	< 5	0.8	7.19	1270	1.5	< 2	0.59	< 0.5	6	49	32	2.77	2.76	1.07
TY 6400E 4675N	241	202	< 5	0.4	6.67	1340	1.5	2	0.46	< 0.5	5	47	39	2.63	2.94	0.99
TY 6400E 4700N	241	202	< 5	< 0.2	6.33	1180	1.5	4	0.44	< 0.5	6	47	46	2.71	2.74	0.94
TY 6400E 4725N	241	202	< 5	< 0.2	7.40	1470	1.5	2	0.60	< 0.5	6	56	53	3.08	3.23	1.14
TY 6400E 4750N	241	202	< 5	0.6	7.06	1320	1.5	< 2	0.67	< 0.5	7	49	34	2.85	2.71	1.00
TY 6400E 4775N	241	202	< 5	< 0.2	6.18	1590	1.5	6	0.52	< 0.5	5	61	73	4.08	2.23	0.91
TY 6400E 4800N	241	202	< 5	0.6	5.99	1060	1.0	< 2	0.84	< 0.5	4	41	34	2.93	2.13	0.90
TY 6400E 4825N	241	202	< 5	1.4	5.72	900	0.5	< 2	0.87	< 0.5	3	24	30	1.74	1.78	0.54
TY 6400E 4850N	241	202	< 5	< 0.2	6.80	1130	1.5	< 2	0.64	< 0.5	3	44	46	2.22	2.39	0.77
TY 6400E 4875N	241	202	< 5	0.4	6.23	1070	1.0	< 2	0.93	< 0.5	5	33	26	2.14	2.05	0.65
TY 6400E 4900N	241	202	< 5	0.4	8.04	1350	2.0	< 2	0.59	< 0.5	15	57	77	4.89	3.43	1.61
TY 6400E 4925N	241	202	10	< 0.2	7.31	1310	1.5	< 2	0.59	< 0.5	10	63	93	4.93	3.04	1.47
TY 6400E 4950N	241	202	< 5	< 0.2	6.83	930	1.0	< 2	1.64	< 0.5	5	12	32	1.84	2.16	0.64
TY 6400E 4975N	241	202	10	< 0.2	6.05	990	1.0	2	0.45	< 0.5	31	50	243	4.37	2.14	0.98
TY 6400E 5000N	241	202	15	< 0.2	5.91	1140	1.5	< 2	1.03	< 0.5	12	29	49	2.45	2.84	0.86
TY 6600E 4550N	241	202	5	< 0.2	8.05	1570	1.5	2	0.79	< 0.5	6	77	492	4.96	3.16	1.66
TY 6600E 4575N	241	202	< 5	< 0.2	7.29	1450	1.5	4	0.82	< 0.5	17	67	445	5.75	2.82	1.43
TY 6600E 4600N	241	202	< 5	< 0.2	7.63	1280	1.5	2	1.04	< 0.5	5	44	149	2.95	2.58	1.00
TY 6600E 4625N	241	202	10	0.4	8.74	1700	2.0	< 2	0.44	< 0.5	14	59	259	4.53	3.29	1.19
TY 6600E 4650N	241	202	25	0.8	9.20	1730	2.0	4	0.24	< 0.5	12	62	292	4.91	3.51	1.24
TY 6600E 4675N	241	202	35	0.8	8.37	1550	1.5	2	0.35	< 0.5	8	57	292	4.53	3.13	1.14
TY 6600E 4700N	241	202	20	0.8	6.78	1050	1.0	< 2	0.92	< 0.5	6	22	155	2.52	2.22	0.70
TY 6600E 4725N	241	202	15	1.8	7.28	1260	1.5	6	0.70	< 0.5	5	35	140	2.27	2.62	0.76
TY 6600E 4750N	241	202	10	0.4	7.56	1640	1.5	4	0.29	< 0.5	44	48	386	4.46	2.97	1.16
TY 6600E 4775N	241	202	30	0.2	8.15	1720	1.5	6	0.41	< 0.5	10	55	353	4.52	3.23	1.15
TY 6600E 4800N	241	202	15	0.4	6.96	1430	1.5	2	0.51	0.5	14	50	260	3.79	2.74	1.02
TY 6600E 4825N	241	202	25	0.6	8.22	1780	2.0	6	0.39	0.5	25	56	728	5.12	3.19	1.18
TY 6600E 4850N	241	202	20	0.4	6.89	1440	1.5	4	0.40	< 0.5	14	48	253	4.09	2.57	1.12
TY 6600E 4875N	241	202	15	< 0.2	7.51	1550	1.5	2	0.42	< 0.5	15	53	291	4.33	2.97	1.09
TY 6600E 4900N	241	202	25	< 0.2	6.27	1740	1.5	< 2	1.10	< 0.5	15	61	75	3.87	2.60	1.29
TY 6600E 4925N	241	202	< 5	< 0.2	3.21	920	0.5	< 2	2.47	< 0.5	4	16	42	1.10	0.87	0.52
TY 6600E 4950N	241	202	< 5	< 0.2	5.68	1090	1.5	< 2	1.29	< 0.5	10	50	31	3.26	2.04	0.97
TY 6600E 4975N	241	202	40	< 0.2	6.52	930	0.5	< 2	1.04	< 0.5	5	33	15	2.25	1.98	0.58
TY 6600E 5000N	241	202	< 5	< 0.2	5.96	1730	1.5	< 2	1.69	< 0.5	9	60	26	2.79	2.03	1.26
TY 6800E 4550N	241	202	25	0.8	8.44	1390	1.5	6	0.47	< 0.5	6	54	220	4.31	3.32	1.29
TY 6800E 4575N	241	202	20	1.0	7.99	1350	1.5	2	0.50	< 0.5	5	50	229	3.85	3.13	1.25
TY 6800E 4600N	241	202	10	0.6	7.56	1410	1.5	2	0.42	< 0.5	5	52	202	4.57	3.00	1.17

CERTIFICATION: [signature]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
[illegible], THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: cc:David Terry

Invoice No. :A9626750
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9626750

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
TY 6400E 4575N	241 202	1550	15	0.80	14	1020	90	134	0.25	108	< 10	126
TY 6400E 4600N	241 202	895	5	0.47	23	730	38	72	0.38	144	< 10	86
TY 6400E 4625N	241 202	1730	15	0.54	33	870	216	103	0.28	148	< 10	330
TY 6400E 4650N	241 202	380	4	0.94	13	620	36	128	0.27	98	< 10	76
TY 6400E 4675N	241 202	350	4	0.86	13	570	26	103	0.27	93	< 10	60
TY 6400E 4700N	241 202	380	4	0.85	12	600	30	100	0.28	88	< 10	64
TY 6400E 4725N	241 202	425	5	0.96	16	600	40	116	0.32	101	< 10	78
TY 6400E 4750N	241 202	590	3	1.13	12	710	26	169	0.29	93	< 10	76
TY 6400E 4775N	241 202	480	10	0.90	16	880	36	144	0.34	139	< 10	106
TY 6400E 4800N	241 202	410	5	1.38	13	940	54	221	0.31	83	< 10	72
TY 6400E 4825N	241 202	265	1	1.38	7	1800	16	247	0.21	54	< 10	42
TY 6400E 4850N	241 202	285	3	1.16	9	1430	26	164	0.29	87	< 10	50
TY 6400E 4875N	241 202	325	3	1.63	9	1150	14	241	0.32	74	< 10	48
TY 6400E 4900N	241 202	950	7	0.97	14	710	80	115	0.31	101	< 10	152
TY 6400E 4925N	241 202	670	7	0.85	18	810	68	107	0.31	105	< 10	152
TY 6400E 4950N	241 202	365	3	2.24	5	350	18	441	0.19	41	< 10	64
TY 6400E 4975N	241 202	1105	7	0.86	16	650	38	100	0.31	80	< 10	188
TY 6400E 5000N	241 202	730	2	1.41	19	560	28	171	0.29	61	< 10	64
TY 6600E 4550N	241 202	655	15	0.75	14	710	68	117	0.31	124	10	126
TY 6600E 4575N	241 202	770	13	0.91	24	860	124	148	0.28	110	< 10	154
TY 6600E 4600N	241 202	455	10	1.48	8	610	40	270	0.23	87	< 10	78
TY 6600E 4625N	241 202	835	17	0.70	14	960	72	125	0.27	129	< 10	152
TY 6600E 4650N	241 202	960	27	0.48	16	1060	78	71	0.26	144	< 10	160
TY 6600E 4675N	241 202	615	28	0.55	17	1090	72	83	0.26	136	< 10	120
TY 6600E 4700N	241 202	370	18	1.48	7	840	38	269	0.22	79	< 10	70
TY 6600E 4725N	241 202	375	20	1.17	10	850	64	214	0.23	99	< 10	70
TY 6600E 4750N	241 202	2910	28	0.54	21	890	70	70	0.24	116	< 10	128
TY 6600E 4775N	241 202	600	29	0.58	18	1020	68	90	0.28	134	< 10	128
TY 6600E 4800N	241 202	735	30	0.48	19	910	52	83	0.24	116	< 10	150
TY 6600E 4825N	241 202	1185	31	0.51	27	1040	78	87	0.24	133	< 10	222
TY 6600E 4850N	241 202	805	25	0.55	18	1140	54	77	0.25	109	< 10	124
TY 6600E 4875N	241 202	790	25	0.59	19	1060	68	96	0.28	122	< 10	132
TY 6600E 4900N	241 202	765	6	0.94	24	760	52	160	0.31	107	< 10	174
TY 6600E 4925N	241 202	285	1	0.86	10	1110	10	284	0.11	27	< 10	34
TY 6600E 4950N	241 202	645	3	1.27	19	810	30	184	0.36	86	< 10	74
TY 6600E 4975N	241 202	360	2	1.62	9	690	16	225	0.41	91	10	58
TY 6600E 5000N	241 202	510	2	1.15	17	1140	24	204	0.33	89	< 10	102
TY 6800E 4550N	241 202	465	30	0.72	11	730	76	97	0.27	123	< 10	94
TY 6800E 4575N	241 202	400	22	0.82	12	650	80	113	0.25	112	< 10	80
TY 6800E 4600N	241 202	405	18	0.76	13	820	90	107	0.27	114	< 10	74

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 4500e, [illegible]
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: cc:David Terry

Invoice No. : A9626750
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9626750

SAMPLE	PREP CODE		Au ppb RUSH	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
TY 6800E 4625N	241	202	25	0.6	7.07	1230	1.5	4	0.46	< 0.5	4	36	258	3.89	2.63	0.94
TY 6800E 4650N	241	202	20	< 0.2	8.69	1490	1.5	6	0.36	< 0.5	10	48	446	4.55	3.29	1.18
TY 6800E 4675N	241	202	10	0.4	7.92	1420	1.5	2	0.50	< 0.5	8	52	451	4.64	3.00	1.20
TY 6800E 4700N	241	202	5	< 0.2	7.70	1500	1.5	< 2	0.63	< 0.5	16	54	777	5.40	2.98	1.25
TY 6800E 4725N	241	202	< 5	< 0.2	7.09	1350	1.5	2	0.75	< 0.5	13	50	434	5.06	2.73	1.22
TY 6800E 4750N	241	202	< 5	< 0.2	7.67	1500	1.5	< 2	0.74	< 0.5	10	56	223	3.98	2.96	1.34
TY 6800E 4775N	241	202	< 5	< 0.2	7.80	1690	2.0	2	0.86	< 0.5	14	61	285	4.65	3.19	1.46
TY 6800E 4800N	241	202	< 5	< 0.2	7.54	1660	2.0	2	0.80	< 0.5	17	60	234	4.59	3.06	1.41
TY 6800E 4825N	241	202	< 5	< 0.2	6.31	1290	1.5	2	0.85	< 0.5	15	48	154	4.00	2.50	1.20
TY 6800E 4850N	241	202	< 5	0.6	5.48	1220	1.0	2	1.83	< 0.5	8	25	136	1.65	1.46	0.56
TY 6800E 4875N	241	202	< 5	< 0.2	6.47	1040	1.0	2	1.17	< 0.5	6	43	17	2.44	2.21	0.68
TY 6800E 4900N	241	202	< 5	< 0.2	6.86	1000	1.0	< 2	1.20	< 0.5	6	38	18	2.63	2.13	0.70
TY 6800E 4925N	241	202	< 5	< 0.2	6.54	870	1.0	2	1.35	< 0.5	6	19	17	1.70	2.02	0.53
TY 6800E 4950N	241	202	< 5	< 0.2	5.90	970	1.0	2	1.27	< 0.5	5	33	20	2.25	2.04	0.66
TY 6800E 4975N	241	202	< 5	< 0.2	6.32	1080	1.5	< 2	1.91	< 0.5	8	28	41	2.31	1.92	0.89
TY 6800E 5000N	241	202	< 5	< 0.2	6.20	1490	1.5	4	1.67	< 0.5	11	55	33	3.03	2.23	1.29

CERTIFICATION: Hans Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: cc:David Terry

Page Number : 1 B
Total Pages : 3
Certificate Date : 19-OCT-90
Invoice No. : 19626750
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9626750

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
TY 5800E 4800N	241	202	>10000	6	0.64	25	1550	38	148	0.21	67	< 10	82
TY 5800E 4825N	241	202	4120	4	1.25	16	1230	44	232	0.29	83	< 10	76
TY 5800E 4850N	241	202	935	3	1.40	18	1180	32	268	0.30	79	< 10	72
TY 5800E 4875N	241	202	735	3	1.31	11	570	12	243	0.26	125	< 10	52
TY 5800E 4900N	241	202	575	3	1.28	14	1120	16	186	0.29	103	< 10	52
TY 5800E 4925N	241	202	1320	6	0.99	30	1010	26	161	0.39	198	< 10	96
TY 5800E 4950N	241	202	675	4	1.60	9	760	14	278	0.28	79	< 10	52
TY 5800E 4975N	241	202	490	1	1.97	8	600	12	364	0.29	74	< 10	54
TY 5800E 5000N	241	202	340	3	2.38	4	640	8	456	0.20	41	< 10	44
TY 6000E 4550N	241	202	640	4	0.81	21	770	44	108	0.37	91	< 10	92
TY 6000E 4575N	241	202	575	6	0.64	21	780	46	148	0.35	153	< 10	98
TY 6000E 4600N	241	202	340	5	0.84	10	780	48	107	0.35	120	< 10	70
TY 6000E 4625N	241	202	330	2	1.63	8	780	20	270	0.29	86	< 10	54
TY 6000E 4650N	241	202	330	4	0.79	13	730	26	93	0.41	109	< 10	58
TY 6000E 4675N	241	202	1280	3	0.65	21	710	32	78	0.38	95	< 10	106
TY 6000E 4700N	241	202	475	1	1.66	8	730	12	337	0.23	65	< 10	62
TY 6000E 4725N	241	202	695	3	0.89	20	710	30	149	0.45	120	< 10	86
TY 6000E 4750N	241	202	1140	3	1.45	63	940	18	184	0.86	169	< 10	160
TY 6000E 4775N	241	202	1805	< 1	1.20	51	2320	48	105	0.75	173	< 10	164
TY 6000E 4800N	241	202	1790	4	1.01	28	1730	46	126	0.81	161	< 10	130
TY 6200E 4550N	241	202	520	5	0.84	13	500	50	96	0.35	90	< 10	76
TY 6200E 4575N	241	202	430	3	0.99	11	350	34	121	0.33	84	< 10	64
TY 6200E 4600N	241	202	595	3	1.12	17	580	34	158	0.33	88	< 10	84
TY 6200E 4625N	241	202	940	6	0.82	26	890	70	76	0.35	108	< 10	134
TY 6200E 4650N	241	202	1415	8	0.82	24	680	84	127	0.30	124	< 10	378
TY 6200E 4675N	241	202	715	6	0.53	27	640	42	71	0.44	112	< 10	100
TY 6200E 4700N	241	202	455	8	0.77	12	630	32	121	0.35	111	< 10	68
TY 6200E 4725N	241	202	465	1	2.19	11	480	16	394	0.29	63	< 10	60
TY 6200E 4750N	241	202	820	3	1.63	14	380	18	91	0.38	116	< 10	100
TY 6200E 4775N	241	202	495	5	1.03	15	870	34	175	0.36	119	< 10	90
TY 6200E 4800N	241	202	715	3	1.04	27	1080	26	116	0.54	141	< 10	92
TY 6200E 4825N	241	202	1100	3	1.24	21	880	26	123	0.40	117	< 10	88
TY 6200E 4850N	241	202	450	3	1.09	12	420	20	134	0.30	89	< 10	50
TY 6200E 4875N	241	202	410	2	1.28	9	410	18	161	0.34	79	< 10	46
TY 6200E 4900N	241	202	875	5	1.36	10	1080	16	194	0.31	103	< 10	60
TY 6200E 4925N	241	202	2220	3	1.37	9	2210	14	244	0.27	85	< 10	48
TY 6200E 4950N	241	202	610	4	1.59	10	960	24	229	0.37	103	< 10	52
TY 6200E 4975N	241	202	390	1	1.71	8	1050	20	169	0.30	64	< 10	52
TY 6200E 5000N	241	202	315	4	1.53	8	310	12	198	0.44	86	< 10	42
TY 6400E 4550N	241	202	300	1	2.26	< 1	490	26	437	0.17	32	< 10	42

CERTIFICATION: Stan Bulder

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX [illegible]
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: cc:David Terry

CERTIFICATE OF ANALYSIS A9626750

SAMPLE	PREP CODE		Au ppb RUSH	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
TY 6400E 4575N	241	202	5	1.4	7.35	1470	1.5	< 2	0.68	< 0.5	27	70	192	3.88	2.61	1.34
TY 6400E 4600N	241	202	< 5	< 0.2	7.12	1640	1.5	< 2	0.31	< 0.5	9	66	51	3.80	3.01	1.74
TY 6400E 4625N	241	202	< 5	0.4	6.99	1310	1.5	< 2	0.67	0.5	11	62	116	5.39	2.52	2.26
TY 6400E 4650N	241	202	< 5	0.8	7.19	1270	1.5	< 2	0.59	< 0.5	6	49	32	2.77	2.76	1.07
TY 6400E 4675N	241	202	< 5	0.4	6.67	1340	1.5	2	0.46	< 0.5	5	47	39	2.63	2.94	0.99
TY 6400E 4700N	241	202	< 5	< 0.2	6.33	1180	1.5	4	0.44	< 0.5	6	47	46	2.71	2.74	0.94
TY 6400E 4725N	241	202	< 5	< 0.2	7.40	1470	1.5	2	0.60	< 0.5	6	56	53	3.08	3.23	1.14
TY 6400E 4750N	241	202	< 5	0.6	7.06	1320	1.5	< 2	0.67	< 0.5	7	49	34	2.85	2.71	1.00
TY 6400E 4775N	241	202	< 5	< 0.2	6.18	1590	1.5	6	0.52	< 0.5	5	61	73	4.08	2.23	0.91
TY 6400E 4800N	241	202	< 5	0.6	5.99	1060	1.0	< 2	0.84	< 0.5	4	41	34	2.93	2.13	0.90
TY 6400E 4825N	241	202	< 5	1.4	5.72	900	0.5	< 2	0.87	< 0.5	3	24	30	1.74	1.78	0.54
TY 6400E 4850N	241	202	< 5	< 0.2	6.80	1130	1.5	< 2	0.64	< 0.5	3	44	46	2.22	2.39	0.77
TY 6400E 4875N	241	202	< 5	0.4	6.23	1070	1.0	< 2	0.93	< 0.5	5	33	26	2.14	2.05	0.65
TY 6400E 4900N	241	202	< 5	0.4	8.04	1350	2.0	< 2	0.59	< 0.5	15	57	77	4.89	3.43	1.61
TY 6400E 4925N	241	202	10	< 0.2	7.31	1310	1.5	< 2	0.59	< 0.5	10	63	93	4.93	3.04	1.47
TY 6400E 4950N	241	202	< 5	< 0.2	6.83	930	1.0	< 2	1.64	< 0.5	5	12	32	1.84	2.16	0.64
TY 6400E 4975N	241	202	10	< 0.2	6.05	990	1.0	2	0.45	< 0.5	31	50	243	4.37	2.14	0.98
TY 6400E 5000N	241	202	15	< 0.2	5.91	1140	1.5	< 2	1.03	< 0.5	12	29	49	2.45	2.84	0.86
TY 6600E 4550N	241	202	5	< 0.2	8.05	1570	1.5	2	0.79	< 0.5	6	77	492	4.96	3.16	1.66
TY 6600E 4575N	241	202	< 5	< 0.2	7.29	1450	1.5	4	0.82	< 0.5	17	67	445	5.75	2.82	1.43
TY 6600E 4600N	241	202	< 5	< 0.2	7.63	1280	1.5	2	1.04	< 0.5	5	44	149	2.95	2.58	1.00
TY 6600E 4625N	241	202	10	0.4	8.74	1700	2.0	< 2	0.44	< 0.5	14	59	259	4.53	3.29	1.19
TY 6600E 4650N	241	202	25	0.8	9.20	1730	2.0	4	0.24	< 0.5	12	62	292	4.91	3.51	1.24
TY 6600E 4675N	241	202	35	0.8	8.37	1550	1.5	2	0.35	< 0.5	8	57	292	4.53	3.13	1.14
TY 6600E 4700N	241	202	20	0.8	6.78	1050	1.0	< 2	0.92	< 0.5	6	22	155	2.52	2.22	0.70
TY 6600E 4725N	241	202	15	1.8	7.28	1260	1.5	6	0.70	< 0.5	5	35	140	2.27	2.62	0.76
TY 6600E 4750N	241	202	10	0.4	7.56	1640	1.5	4	0.29	< 0.5	44	48	386	4.46	2.97	1.16
TY 6600E 4775N	241	202	30	0.2	8.15	1720	1.5	6	0.41	< 0.5	10	55	353	4.52	3.23	1.15
TY 6600E 4800N	241	202	15	0.4	6.96	1430	1.5	2	0.51	0.5	14	50	260	3.79	2.74	1.02
TY 6600E 4825N	241	202	25	0.6	8.22	1780	2.0	6	0.39	0.5	25	56	728	5.12	3.19	1.18
TY 6600E 4850N	241	202	20	0.4	6.89	1440	1.5	4	0.40	< 0.5	14	48	253	4.09	2.57	1.12
TY 6600E 4875N	241	202	15	< 0.2	7.51	1550	1.5	2	0.42	< 0.5	15	53	291	4.33	2.97	1.09
TY 6600E 4900N	241	202	25	< 0.2	6.27	1740	1.5	< 2	1.10	< 0.5	15	61	75	3.87	2.60	1.29
TY 6600E 4925N	241	202	< 5	< 0.2	3.21	920	0.5	< 2	2.47	< 0.5	4	16	42	1.10	0.87	0.52
TY 6600E 4950N	241	202	< 5	< 0.2	5.68	1090	1.5	< 2	1.29	< 0.5	10	50	31	3.26	2.04	0.97
TY 6600E 4975N	241	202	40	< 0.2	6.52	930	0.5	< 2	1.04	< 0.5	5	33	15	2.25	1.98	0.58
TY 6600E 5000N	241	202	< 5	< 0.2	5.96	1730	1.5	< 2	1.69	< 0.5	9	60	26	2.79	2.03	1.26
TY 6800E 4550N	241	202	25	0.8	8.44	1390	1.5	6	0.47	< 0.5	6	54	220	4.31	3.32	1.29
TY 6800E 4575N	241	202	20	1.0	7.99	1350	1.5	2	0.50	< 0.5	5	50	229	3.85	3.13	1.25
TY 6800E 4600N	241	202	10	0.6	7.56	1410	1.5	2	0.42	< 0.5	5	52	202	4.57	3.00	1.17

CERTIFICATION: [signature]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
[illegible], THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: cc:David Terry

Invoice No. :A9626750
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9626750

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
TY 6400E 4575N	241 202	1550	15	0.80	14	1020	90	134	0.25	108	< 10	126
TY 6400E 4600N	241 202	895	5	0.47	23	730	38	72	0.38	144	< 10	86
TY 6400E 4625N	241 202	1730	15	0.54	33	870	216	103	0.28	148	< 10	330
TY 6400E 4650N	241 202	380	4	0.94	13	620	36	128	0.27	98	< 10	76
TY 6400E 4675N	241 202	350	4	0.86	13	570	26	103	0.27	93	< 10	60
TY 6400E 4700N	241 202	380	4	0.85	12	600	30	100	0.28	88	< 10	64
TY 6400E 4725N	241 202	425	5	0.96	16	600	40	116	0.32	101	< 10	78
TY 6400E 4750N	241 202	590	3	1.13	12	710	26	169	0.29	93	< 10	76
TY 6400E 4775N	241 202	480	10	0.90	16	880	36	144	0.34	139	< 10	106
TY 6400E 4800N	241 202	410	5	1.38	13	940	54	221	0.31	83	< 10	72
TY 6400E 4825N	241 202	265	1	1.38	7	1800	16	247	0.21	54	< 10	42
TY 6400E 4850N	241 202	285	3	1.16	9	1430	26	164	0.29	87	< 10	50
TY 6400E 4875N	241 202	325	3	1.63	9	1150	14	241	0.32	74	< 10	48
TY 6400E 4900N	241 202	950	7	0.97	14	710	80	115	0.31	101	< 10	152
TY 6400E 4925N	241 202	670	7	0.85	18	810	68	107	0.31	105	< 10	152
TY 6400E 4950N	241 202	365	3	2.24	5	350	18	441	0.19	41	< 10	64
TY 6400E 4975N	241 202	1105	7	0.86	16	650	38	100	0.31	80	< 10	188
TY 6400E 5000N	241 202	730	2	1.41	19	560	28	171	0.29	61	< 10	64
TY 6600E 4550N	241 202	655	15	0.75	14	710	68	117	0.31	124	10	126
TY 6600E 4575N	241 202	770	13	0.91	24	860	124	148	0.28	110	< 10	154
TY 6600E 4600N	241 202	455	10	1.48	8	610	40	270	0.23	87	< 10	78
TY 6600E 4625N	241 202	835	17	0.70	14	960	72	125	0.27	129	< 10	152
TY 6600E 4650N	241 202	960	27	0.48	16	1060	78	71	0.26	144	< 10	160
TY 6600E 4675N	241 202	615	28	0.55	17	1090	72	83	0.26	136	< 10	120
TY 6600E 4700N	241 202	370	18	1.48	7	840	38	269	0.22	79	< 10	70
TY 6600E 4725N	241 202	375	20	1.17	10	850	64	214	0.23	99	< 10	70
TY 6600E 4750N	241 202	2910	28	0.54	21	890	70	70	0.24	116	< 10	128
TY 6600E 4775N	241 202	600	29	0.58	18	1020	68	90	0.28	134	< 10	128
TY 6600E 4800N	241 202	735	30	0.48	19	910	52	83	0.24	116	< 10	150
TY 6600E 4825N	241 202	1185	31	0.51	27	1040	78	87	0.24	133	< 10	222
TY 6600E 4850N	241 202	805	25	0.55	18	1140	54	77	0.25	109	< 10	124
TY 6600E 4875N	241 202	790	25	0.59	19	1060	68	96	0.28	122	< 10	132
TY 6600E 4900N	241 202	765	6	0.94	24	760	52	160	0.31	107	< 10	174
TY 6600E 4925N	241 202	285	1	0.86	10	1110	10	284	0.11	27	< 10	34
TY 6600E 4950N	241 202	645	3	1.27	19	810	30	184	0.36	86	< 10	74
TY 6600E 4975N	241 202	360	2	1.62	9	690	16	225	0.41	91	10	58
TY 6600E 5000N	241 202	510	2	1.15	17	1140	24	204	0.33	89	< 10	102
TY 6800E 4550N	241 202	465	30	0.72	11	730	76	97	0.27	123	< 10	94
TY 6800E 4575N	241 202	400	22	0.82	12	650	80	113	0.25	112	< 10	80
TY 6800E 4600N	241 202	405	18	0.76	13	820	90	107	0.27	114	< 10	74

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 4500e, [illegible]
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: cc:David Terry

Invoice No. : A9626750
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9626750

SAMPLE	PREP CODE		Au ppb RUSH	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
TY 6800E 4625N	241	202	25	0.6	7.07	1230	1.5	4	0.46	< 0.5	4	36	258	3.89	2.63	0.94
TY 6800E 4650N	241	202	20	< 0.2	8.69	1490	1.5	6	0.36	< 0.5	10	48	446	4.55	3.29	1.18
TY 6800E 4675N	241	202	10	0.4	7.92	1420	1.5	2	0.50	< 0.5	8	52	451	4.64	3.00	1.20
TY 6800E 4700N	241	202	5	< 0.2	7.70	1500	1.5	< 2	0.63	< 0.5	16	54	777	5.40	2.98	1.25
TY 6800E 4725N	241	202	< 5	< 0.2	7.09	1350	1.5	2	0.75	< 0.5	13	50	434	5.06	2.73	1.22
TY 6800E 4750N	241	202	< 5	< 0.2	7.67	1500	1.5	< 2	0.74	< 0.5	10	56	223	3.98	2.96	1.34
TY 6800E 4775N	241	202	< 5	< 0.2	7.80	1690	2.0	2	0.86	< 0.5	14	61	285	4.65	3.19	1.46
TY 6800E 4800N	241	202	< 5	< 0.2	7.54	1660	2.0	2	0.80	< 0.5	17	60	234	4.59	3.06	1.41
TY 6800E 4825N	241	202	< 5	< 0.2	6.31	1290	1.5	2	0.85	< 0.5	15	48	154	4.00	2.50	1.20
TY 6800E 4850N	241	202	< 5	0.6	5.48	1220	1.0	2	1.83	< 0.5	8	25	136	1.65	1.46	0.56
TY 6800E 4875N	241	202	< 5	< 0.2	6.47	1040	1.0	2	1.17	< 0.5	6	43	17	2.44	2.21	0.68
TY 6800E 4900N	241	202	< 5	< 0.2	6.86	1000	1.0	< 2	1.20	< 0.5	6	38	18	2.63	2.13	0.70
TY 6800E 4925N	241	202	< 5	< 0.2	6.54	870	1.0	2	1.35	< 0.5	6	19	17	1.70	2.02	0.53
TY 6800E 4950N	241	202	< 5	< 0.2	5.90	970	1.0	2	1.27	< 0.5	5	33	20	2.25	2.04	0.66
TY 6800E 4975N	241	202	< 5	< 0.2	6.32	1080	1.5	< 2	1.91	< 0.5	8	28	41	2.31	1.92	0.89
TY 6800E 5000N	241	202	< 5	< 0.2	6.20	1490	1.5	4	1.67	< 0.5	11	55	33	3.03	2.23	1.29

CERTIFICATION: Hans Buchler

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
[illegible]
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: cc:David Terry

Page N[illegible] 3 B
Total P[illegible]
Invoice No. [illegible]9626750
P.O. Number
Account : GP W

CERTIFICATE OF ANALYSIS A9626750

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
TY 6800E 4625N	241	202	310	30	0.76	11	850	76	126	0.23	99	< 10	86
TY 6800E 4650N	241	202	565	36	0.74	12	740	76	103	0.24	126	< 10	86
TY 6800E 4675N	241	202	565	24	0.83	18	840	66	110	0.28	117	< 10	116
TY 6800E 4700N	241	202	705	21	0.86	23	910	66	117	0.30	113	10	136
TY 6800E 4725N	241	202	575	14	0.91	21	910	52	118	0.31	100	< 10	138
TY 6800E 4750N	241	202	795	14	0.90	19	790	36	122	0.31	112	< 10	140
TY 6800E 4775N	241	202	870	11	0.91	25	860	50	122	0.32	117	10	186
TY 6800E 4800N	241	202	1410	11	0.95	27	870	50	125	0.35	112	10	170
TY 6800E 4825N	241	202	855	7	0.94	21	830	52	129	0.31	90	< 10	162
TY 6800E 4850N	241	202	635	2	1.49	29	960	18	325	0.19	46	< 10	58
TY 6800E 4875N	241	202	435	1	1.59	9	510	20	222	0.44	94	< 10	60
TY 6800E 4900N	241	202	635	2	1.72	9	830	20	273	0.45	94	< 10	60
TY 6800E 4925N	241	202	605	1	2.13	5	1020	12	376	0.24	49	< 10	52
TY 6800E 4950N	241	202	370	2	1.47	11	710	16	241	0.35	87	< 10	48
TY 6800E 4975N	241	202	735	2	1.65	18	950	16	329	0.22	61	< 10	100
TY 6800E 5000N	241	202	560	1	1.06	24	900	28	190	0.29	89	< 10	142

CERTIFICATION: [signature]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX [illegible]
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: cc:David Terry

Page Number : 1-A
Total Pages : 3
Certificate Date : [illegible]
Invoice No. : 19626750
P.O. Number :
Account : GPW

CERTIFICATE OF ANALYSIS A9626750

SAMPLE	PREP CODE		Au ppb RUSH	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
TY 5800E 4800N	241	202	not/ss	< 0.2	4.79	1210	1.5	< 2	0.82	0.5	40	39	41	2.86	1.59	0.73
TY 5800E 4825N	241	202	not/ss	0.6	6.69	1210	1.5	2	0.96	< 0.5	27	34	30	3.23	2.18	0.98
TY 5800E 4850N	241	202	< 5	1.0	6.74	1210	1.5	4	1.18	< 0.5	11	40	29	2.83	2.12	1.03
TY 5800E 4875N	241	202	< 5	< 0.2	7.73	1960	2.0	2	0.79	< 0.5	7	54	21	2.54	3.00	0.89
TY 5800E 4900N	241	202	< 5	0.8	6.53	1350	1.5	< 2	0.68	< 0.5	6	43	30	2.58	2.26	0.96
TY 5800E 4925N	241	202	< 5	0.2	7.84	1960	2.0	< 2	0.79	0.5	19	74	75	5.10	2.93	1.51
TY 5800E 4950N	241	202	< 5	0.6	6.53	1100	1.5	< 2	1.07	< 0.5	7	31	23	2.47	2.16	0.84
TY 5800E 4975N	241	202	< 5	0.4	7.20	1000	1.5	< 2	1.34	0.5	7	38	19	2.20	2.26	0.92
TY 5800E 5000N	241	202	< 5	< 0.2	6.76	890	1.0	< 2	1.51	< 0.5	5	15	20	1.43	2.07	0.55
TY 6000E 4550N	241	202	< 5	< 0.2	7.66	1520	2.0	< 2	0.54	< 0.5	11	43	42	3.57	3.47	1.15
TY 6000E 4575N	241	202	< 5	0.2	9.29	2070	2.5	2	0.58	0.5	5	59	43	4.91	3.87	1.62
TY 6000E 4600N	241	202	< 5	< 0.2	6.62	1220	1.5	2	0.42	< 0.5	5	39	27	3.05	2.63	0.77
TY 6000E 4625N	241	202	< 5	< 0.2	7.16	1110	1.5	2	0.89	< 0.5	4	35	17	1.90	2.32	0.70
TY 6000E 4650N	241	202	< 5	< 0.2	7.00	1230	1.5	2	0.30	< 0.5	4	54	41	4.71	2.38	0.85
TY 6000E 4675N	241	202	< 5	< 0.2	7.70	1540	2.5	< 2	0.27	0.5	17	55	57	4.41	3.19	1.13
TY 6000E 4700N	241	202	< 5	0.8	7.25	1340	1.5	2	1.35	< 0.5	7	30	24	2.16	2.49	0.87
TY 6000E 4725N	241	202	< 5	< 0.2	6.73	990	1.5	4	0.54	< 0.5	10	61	37	4.50	2.05	0.88
TY 6000E 4750N	241	202	< 5	< 0.2	7.74	630	1.5	< 2	0.54	0.5	17	141	64	7.05	1.09	2.65
TY 6000E 4775N	241	202	15	0.4	7.31	1450	2.0	< 2	0.63	< 0.5	30	78	67	8.28	1.61	2.18
TY 6000E 4800N	241	202	< 5	< 0.2	6.80	1580	1.5	2	0.62	0.5	25	66	45	5.51	1.99	1.68
TY 6200E 4550N	241	202	< 5	< 0.2	7.45	1470	2.0	6	0.45	< 0.5	8	42	35	3.59	3.39	1.16
TY 6200E 4575N	241	202	< 5	< 0.2	7.03	1160	2.0	< 2	0.45	< 0.5	7	38	26	3.15	2.93	0.98
TY 6200E 4600N	241	202	< 5	< 0.2	7.38	1240	2.0	< 2	0.69	< 0.5	11	42	42	3.24	3.33	1.14
TY 6200E 4625N	241	202	< 5	< 0.2	8.75	2340	2.5	6	0.39	0.5	17	34	69	4.33	4.38	1.44
TY 6200E 4650N	241	202	< 5	0.4	8.53	1580	2.0	2	0.74	3.0	29	69	278	5.03	3.58	1.83
TY 6200E 4675N	241	202	< 5	0.6	7.56	1430	2.5	8	0.30	< 0.5	11	61	39	4.50	3.23	1.30
TY 6200E 4700N	241	202	< 5	0.8	7.55	1310	2.0	2	0.38	< 0.5	6	52	35	3.08	2.88	0.91
TY 6200E 4725N	241	202	< 5	< 0.2	7.46	1080	1.5	< 2	1.27	0.5	7	27	29	2.28	2.39	0.77
TY 6200E 4750N	241	202	< 5	< 0.2	7.24	1100	1.5	4	0.31	0.5	10	44	20	4.55	2.14	1.32
TY 6200E 4775N	241	202	< 5	< 0.2	7.35	1670	2.0	2	0.58	< 0.5	7	57	43	3.31	2.56	0.95
TY 6200E 4800N	241	202	< 5	< 0.2	6.46	1100	1.5	2	0.69	< 0.5	7	70	60	4.22	2.13	1.46
TY 6200E 4825N	241	202	< 5	< 0.2	7.22	1270	2.0	< 2	0.71	< 0.5	18	54	43	4.15	2.96	1.48
TY 6200E 4850N	241	202	< 5	< 0.2	5.91	970	1.5	2	0.69	< 0.5	6	40	22	2.74	2.31	0.98
TY 6200E 4875N	241	202	< 5	< 0.2	5.51	790	1.0	2	0.75	< 0.5	6	34	16	2.83	2.01	0.80
TY 6200E 4900N	241	202	< 5	0.4	6.80	1080	1.5	2	0.76	< 0.5	12	40	20	2.63	2.39	0.88
TY 6200E 4925N	241	202	< 5	0.4	6.47	1100	1.5	< 2	0.95	< 0.5	12	40	36	2.91	2.09	0.79
TY 6200E 4950N	241	202	< 5	< 0.2	6.64	1120	1.5	2	0.90	< 0.5	8	42	20	2.40	2.29	0.71
TY 6200E 4975N	241	202	< 5	< 0.2	7.31	770	1.5	< 2	0.72	< 0.5	5	27	21	2.78	2.16	0.57
TY 6200E 5000N	241	202	< 5	< 0.2	5.95	1000	1.0	2	0.95	< 0.5	4	44	19	1.89	1.93	0.52
TY 6400E 4550N	241	202	< 5	0.2	6.13	780	0.5	< 2	1.46	< 0.5	5	8	32	1.46	1.86	0.47

CERTIFICATION: Stewart Buchler

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
[illegible]
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: cc:David Terry

Page N[illegible] 3 B
Total P[illegible]
Invoice No. [illegible]9626750
P.O. Number
Account : GP W

CERTIFICATE OF ANALYSIS A9626750

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
TY 6800E 4625N	241	202	310	30	0.76	11	850	76	126	0.23	99	< 10	86
TY 6800E 4650N	241	202	565	36	0.74	12	740	76	103	0.24	126	< 10	86
TY 6800E 4675N	241	202	565	24	0.83	18	840	66	110	0.28	117	< 10	116
TY 6800E 4700N	241	202	705	21	0.86	23	910	66	117	0.30	113	10	136
TY 6800E 4725N	241	202	575	14	0.91	21	910	52	118	0.31	100	< 10	138
TY 6800E 4750N	241	202	795	14	0.90	19	790	36	122	0.31	112	< 10	140
TY 6800E 4775N	241	202	870	11	0.91	25	860	50	122	0.32	117	10	186
TY 6800E 4800N	241	202	1410	11	0.95	27	870	50	125	0.35	112	10	170
TY 6800E 4825N	241	202	855	7	0.94	21	830	52	129	0.31	90	< 10	162
TY 6800E 4850N	241	202	635	2	1.49	29	960	18	325	0.19	46	< 10	58
TY 6800E 4875N	241	202	435	1	1.59	9	510	20	222	0.44	94	< 10	60
TY 6800E 4900N	241	202	635	2	1.72	9	830	20	273	0.45	94	< 10	60
TY 6800E 4925N	241	202	605	1	2.13	5	1020	12	376	0.24	49	< 10	52
TY 6800E 4950N	241	202	370	2	1.47	11	710	16	241	0.35	87	< 10	48
TY 6800E 4975N	241	202	735	2	1.65	18	950	16	329	0.22	61	< 10	100
TY 6800E 5000N	241	202	560	1	1.06	24	900	28	190	0.29	89	< 10	142

CERTIFICATION: [signature]

Chemex Labs Ltd.

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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX [illegible]
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: cc:David Terry

Page Number : 1-A
Total Pages : 3
Certificate Date : [illegible]
Invoice No. : 19626750
P.O. Number :
Account : GPW

CERTIFICATE OF ANALYSIS A9626750

SAMPLE	PREP CODE		Au ppb RUSH	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
TY 5800E 4800N	241	202	not/ss	< 0.2	4.79	1210	1.5	< 2	0.82	0.5	40	39	41	2.86	1.59	0.73
TY 5800E 4825N	241	202	not/ss	0.6	6.69	1210	1.5	2	0.96	< 0.5	27	34	30	3.23	2.18	0.98
TY 5800E 4850N	241	202	< 5	1.0	6.74	1210	1.5	4	1.18	< 0.5	11	40	29	2.83	2.12	1.03
TY 5800E 4875N	241	202	< 5	< 0.2	7.73	1960	2.0	2	0.79	< 0.5	7	54	21	2.54	3.00	0.89
TY 5800E 4900N	241	202	< 5	0.8	6.53	1350	1.5	< 2	0.68	< 0.5	6	43	30	2.58	2.26	0.96
TY 5800E 4925N	241	202	< 5	0.2	7.84	1960	2.0	< 2	0.79	0.5	19	74	75	5.10	2.93	1.51
TY 5800E 4950N	241	202	< 5	0.6	6.53	1100	1.5	< 2	1.07	< 0.5	7	31	23	2.47	2.16	0.84
TY 5800E 4975N	241	202	< 5	0.4	7.20	1000	1.5	< 2	1.34	0.5	7	38	19	2.20	2.26	0.92
TY 5800E 5000N	241	202	< 5	< 0.2	6.76	890	1.0	< 2	1.51	< 0.5	5	15	20	1.43	2.07	0.55
TY 6000E 4550N	241	202	< 5	< 0.2	7.66	1520	2.0	< 2	0.54	< 0.5	11	43	42	3.57	3.47	1.15
TY 6000E 4575N	241	202	< 5	0.2	9.29	2070	2.5	2	0.58	0.5	5	59	43	4.91	3.87	1.62
TY 6000E 4600N	241	202	< 5	< 0.2	6.62	1220	1.5	2	0.42	< 0.5	5	39	27	3.05	2.63	0.77
TY 6000E 4625N	241	202	< 5	< 0.2	7.16	1110	1.5	2	0.89	< 0.5	4	35	17	1.90	2.32	0.70
TY 6000E 4650N	241	202	< 5	< 0.2	7.00	1230	1.5	2	0.30	< 0.5	4	54	41	4.71	2.38	0.85
TY 6000E 4675N	241	202	< 5	< 0.2	7.70	1540	2.5	< 2	0.27	0.5	17	55	57	4.41	3.19	1.13
TY 6000E 4700N	241	202	< 5	0.8	7.25	1340	1.5	2	1.35	< 0.5	7	30	24	2.16	2.49	0.87
TY 6000E 4725N	241	202	< 5	< 0.2	6.73	990	1.5	4	0.54	< 0.5	10	61	37	4.50	2.05	0.88
TY 6000E 4750N	241	202	< 5	< 0.2	7.74	630	1.5	< 2	0.54	0.5	17	141	64	7.05	1.09	2.65
TY 6000E 4775N	241	202	15	0.4	7.31	1450	2.0	< 2	0.63	< 0.5	30	78	67	8.28	1.61	2.18
TY 6000E 4800N	241	202	< 5	< 0.2	6.80	1580	1.5	2	0.62	0.5	25	66	45	5.51	1.99	1.68
TY 6200E 4550N	241	202	< 5	< 0.2	7.45	1470	2.0	6	0.45	< 0.5	8	42	35	3.59	3.39	1.16
TY 6200E 4575N	241	202	< 5	< 0.2	7.03	1160	2.0	< 2	0.45	< 0.5	7	38	26	3.15	2.93	0.98
TY 6200E 4600N	241	202	< 5	< 0.2	7.38	1240	2.0	< 2	0.69	< 0.5	11	42	42	3.24	3.33	1.14
TY 6200E 4625N	241	202	< 5	< 0.2	8.75	2340	2.5	6	0.39	0.5	17	34	69	4.33	4.38	1.44
TY 6200E 4650N	241	202	< 5	0.4	8.53	1580	2.0	2	0.74	3.0	29	69	278	5.03	3.58	1.83
TY 6200E 4675N	241	202	< 5	0.6	7.56	1430	2.5	8	0.30	< 0.5	11	61	39	4.50	3.23	1.30
TY 6200E 4700N	241	202	< 5	0.8	7.55	1310	2.0	2	0.38	< 0.5	6	52	35	3.08	2.88	0.91
TY 6200E 4725N	241	202	< 5	< 0.2	7.46	1080	1.5	< 2	1.27	0.5	7	27	29	2.28	2.39	0.77
TY 6200E 4750N	241	202	< 5	< 0.2	7.24	1100	1.5	4	0.31	0.5	10	44	20	4.55	2.14	1.32
TY 6200E 4775N	241	202	< 5	< 0.2	7.35	1670	2.0	2	0.58	< 0.5	7	57	43	3.31	2.56	0.95
TY 6200E 4800N	241	202	< 5	< 0.2	6.46	1100	1.5	2	0.69	< 0.5	7	70	60	4.22	2.13	1.46
TY 6200E 4825N	241	202	< 5	< 0.2	7.22	1270	2.0	< 2	0.71	< 0.5	18	54	43	4.15	2.96	1.48
TY 6200E 4850N	241	202	< 5	< 0.2	5.91	970	1.5	2	0.69	< 0.5	6	40	22	2.74	2.31	0.98
TY 6200E 4875N	241	202	< 5	< 0.2	5.51	790	1.0	2	0.75	< 0.5	6	34	16	2.83	2.01	0.80
TY 6200E 4900N	241	202	< 5	0.4	6.80	1080	1.5	2	0.76	< 0.5	12	40	20	2.63	2.39	0.88
TY 6200E 4925N	241	202	< 5	0.4	6.47	1100	1.5	< 2	0.95	< 0.5	12	40	36	2.91	2.09	0.79
TY 6200E 4950N	241	202	< 5	< 0.2	6.64	1120	1.5	2	0.90	< 0.5	8	42	20	2.40	2.29	0.71
TY 6200E 4975N	241	202	< 5	< 0.2	7.31	770	1.5	< 2	0.72	< 0.5	5	27	21	2.78	2.16	0.57
TY 6200E 5000N	241	202	< 5	< 0.2	5.95	1000	1.0	2	0.95	< 0.5	4	44	19	1.89	1.93	0.52
TY 6400E 4550N	241	202	< 5	0.2	6.13	780	0.5	< 2	1.46	< 0.5	5	8	32	1.46	1.86	0.47

CERTIFICATION: Stewart Buchler

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: cc:David Terry

Page Number : 1 B
Total Pages : 3
Certificate Date : 19-OCT-90
Invoice No. : 19626750
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9626750

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
TY 5800E 4800N	241	202	>10000	6	0.64	25	1550	38	148	0.21	67	< 10	82
TY 5800E 4825N	241	202	4120	4	1.25	16	1230	44	232	0.29	83	< 10	76
TY 5800E 4850N	241	202	935	3	1.40	18	1180	32	268	0.30	79	< 10	72
TY 5800E 4875N	241	202	735	3	1.31	11	570	12	243	0.26	125	< 10	52
TY 5800E 4900N	241	202	575	3	1.28	14	1120	16	186	0.29	103	< 10	52
TY 5800E 4925N	241	202	1320	6	0.99	30	1010	26	161	0.39	198	< 10	96
TY 5800E 4950N	241	202	675	4	1.60	9	760	14	278	0.28	79	< 10	52
TY 5800E 4975N	241	202	490	1	1.97	8	600	12	364	0.29	74	< 10	54
TY 5800E 5000N	241	202	340	3	2.38	4	640	8	456	0.20	41	< 10	44
TY 6000E 4550N	241	202	640	4	0.81	21	770	44	108	0.37	91	< 10	92
TY 6000E 4575N	241	202	575	6	0.64	21	780	46	148	0.35	153	< 10	98
TY 6000E 4600N	241	202	340	5	0.84	10	780	48	107	0.35	120	< 10	70
TY 6000E 4625N	241	202	330	2	1.63	8	780	20	270	0.29	86	< 10	54
TY 6000E 4650N	241	202	330	4	0.79	13	730	26	93	0.41	109	< 10	58
TY 6000E 4675N	241	202	1280	3	0.65	21	710	32	78	0.38	95	< 10	106
TY 6000E 4700N	241	202	475	1	1.66	8	730	12	337	0.23	65	< 10	62
TY 6000E 4725N	241	202	695	3	0.89	20	710	30	149	0.45	120	< 10	86
TY 6000E 4750N	241	202	1140	3	1.45	63	940	18	184	0.86	169	< 10	160
TY 6000E 4775N	241	202	1805	< 1	1.20	51	2320	48	105	0.75	173	< 10	164
TY 6000E 4800N	241	202	1790	4	1.01	28	1730	46	126	0.81	161	< 10	130
TY 6200E 4550N	241	202	520	5	0.84	13	500	50	96	0.35	90	< 10	76
TY 6200E 4575N	241	202	430	3	0.99	11	350	34	121	0.33	84	< 10	64
TY 6200E 4600N	241	202	595	3	1.12	17	580	34	158	0.33	88	< 10	84
TY 6200E 4625N	241	202	940	6	0.82	26	890	70	76	0.35	108	< 10	134
TY 6200E 4650N	241	202	1415	8	0.82	24	680	84	127	0.30	124	< 10	378
TY 6200E 4675N	241	202	715	6	0.53	27	640	42	71	0.44	112	< 10	100
TY 6200E 4700N	241	202	455	8	0.77	12	630	32	121	0.35	111	< 10	68
TY 6200E 4725N	241	202	465	1	2.19	11	480	16	394	0.29	63	< 10	60
TY 6200E 4750N	241	202	820	3	1.63	14	380	18	91	0.38	116	< 10	100
TY 6200E 4775N	241	202	495	5	1.03	15	870	34	175	0.36	119	< 10	90
TY 6200E 4800N	241	202	715	3	1.04	27	1080	26	116	0.54	141	< 10	92
TY 6200E 4825N	241	202	1100	3	1.24	21	880	26	123	0.40	117	< 10	88
TY 6200E 4850N	241	202	450	3	1.09	12	420	20	134	0.30	89	< 10	50
TY 6200E 4875N	241	202	410	2	1.28	9	410	18	161	0.34	79	< 10	46
TY 6200E 4900N	241	202	875	5	1.36	10	1080	16	194	0.31	103	< 10	60
TY 6200E 4925N	241	202	2220	3	1.37	9	2210	14	244	0.27	85	< 10	48
TY 6200E 4950N	241	202	610	4	1.59	10	960	24	229	0.37	103	< 10	52
TY 6200E 4975N	241	202	390	1	1.71	8	1050	20	169	0.30	64	< 10	52
TY 6200E 5000N	241	202	315	4	1.53	8	310	12	198	0.44	86	< 10	42
TY 6400E 4550N	241	202	300	1	2.26	< 1	490	26	437	0.17	32	< 10	42

CERTIFICATION: Stan Bulder

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P.O. BOX [illegible]
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Project : 6408
Comments: cc:David Terry

CERTIFICATE OF ANALYSIS A9626750

SAMPLE	PREP CODE		Au ppb RUSH	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
TY 6400E 4575N	241	202	5	1.4	7.35	1470	1.5	< 2	0.68	< 0.5	27	70	192	3.88	2.61	1.34
TY 6400E 4600N	241	202	< 5	< 0.2	7.12	1640	1.5	< 2	0.31	< 0.5	9	66	51	3.80	3.01	1.74
TY 6400E 4625N	241	202	< 5	0.4	6.99	1310	1.5	< 2	0.67	0.5	11	62	116	5.39	2.52	2.26
TY 6400E 4650N	241	202	< 5	0.8	7.19	1270	1.5	< 2	0.59	< 0.5	6	49	32	2.77	2.76	1.07
TY 6400E 4675N	241	202	< 5	0.4	6.67	1340	1.5	2	0.46	< 0.5	5	47	39	2.63	2.94	0.99
TY 6400E 4700N	241	202	< 5	< 0.2	6.33	1180	1.5	4	0.44	< 0.5	6	47	46	2.71	2.74	0.94
TY 6400E 4725N	241	202	< 5	< 0.2	7.40	1470	1.5	2	0.60	< 0.5	6	56	53	3.08	3.23	1.14
TY 6400E 4750N	241	202	< 5	0.6	7.06	1320	1.5	< 2	0.67	< 0.5	7	49	34	2.85	2.71	1.00
TY 6400E 4775N	241	202	< 5	< 0.2	6.18	1590	1.5	6	0.52	< 0.5	5	61	73	4.08	2.23	0.91
TY 6400E 4800N	241	202	< 5	0.6	5.99	1060	1.0	< 2	0.84	< 0.5	4	41	34	2.93	2.13	0.90
TY 6400E 4825N	241	202	< 5	1.4	5.72	900	0.5	< 2	0.87	< 0.5	3	24	30	1.74	1.78	0.54
TY 6400E 4850N	241	202	< 5	< 0.2	6.80	1130	1.5	< 2	0.64	< 0.5	3	44	46	2.22	2.39	0.77
TY 6400E 4875N	241	202	< 5	0.4	6.23	1070	1.0	< 2	0.93	< 0.5	5	33	26	2.14	2.05	0.65
TY 6400E 4900N	241	202	< 5	0.4	8.04	1350	2.0	< 2	0.59	< 0.5	15	57	77	4.89	3.43	1.61
TY 6400E 4925N	241	202	10	< 0.2	7.31	1310	1.5	< 2	0.59	< 0.5	10	63	93	4.93	3.04	1.47
TY 6400E 4950N	241	202	< 5	< 0.2	6.83	930	1.0	< 2	1.64	< 0.5	5	12	32	1.84	2.16	0.64
TY 6400E 4975N	241	202	10	< 0.2	6.05	990	1.0	2	0.45	< 0.5	31	50	243	4.37	2.14	0.98
TY 6400E 5000N	241	202	15	< 0.2	5.91	1140	1.5	< 2	1.03	< 0.5	12	29	49	2.45	2.84	0.86
TY 6600E 4550N	241	202	5	< 0.2	8.05	1570	1.5	2	0.79	< 0.5	6	77	492	4.96	3.16	1.66
TY 6600E 4575N	241	202	< 5	< 0.2	7.29	1450	1.5	4	0.82	< 0.5	17	67	445	5.75	2.82	1.43
TY 6600E 4600N	241	202	< 5	< 0.2	7.63	1280	1.5	2	1.04	< 0.5	5	44	149	2.95	2.58	1.00
TY 6600E 4625N	241	202	10	0.4	8.74	1700	2.0	< 2	0.44	< 0.5	14	59	259	4.53	3.29	1.19
TY 6600E 4650N	241	202	25	0.8	9.20	1730	2.0	4	0.24	< 0.5	12	62	292	4.91	3.51	1.24
TY 6600E 4675N	241	202	35	0.8	8.37	1550	1.5	2	0.35	< 0.5	8	57	292	4.53	3.13	1.14
TY 6600E 4700N	241	202	20	0.8	6.78	1050	1.0	< 2	0.92	< 0.5	6	22	155	2.52	2.22	0.70
TY 6600E 4725N	241	202	15	1.8	7.28	1260	1.5	6	0.70	< 0.5	5	35	140	2.27	2.62	0.76
TY 6600E 4750N	241	202	10	0.4	7.56	1640	1.5	4	0.29	< 0.5	44	48	386	4.46	2.97	1.16
TY 6600E 4775N	241	202	30	0.2	8.15	1720	1.5	6	0.41	< 0.5	10	55	353	4.52	3.23	1.15
TY 6600E 4800N	241	202	15	0.4	6.96	1430	1.5	2	0.51	0.5	14	50	260	3.79	2.74	1.02
TY 6600E 4825N	241	202	25	0.6	8.22	1780	2.0	6	0.39	0.5	25	56	728	5.12	3.19	1.18
TY 6600E 4850N	241	202	20	0.4	6.89	1440	1.5	4	0.40	< 0.5	14	48	253	4.09	2.57	1.12
TY 6600E 4875N	241	202	15	< 0.2	7.51	1550	1.5	2	0.42	< 0.5	15	53	291	4.33	2.97	1.09
TY 6600E 4900N	241	202	25	< 0.2	6.27	1740	1.5	< 2	1.10	< 0.5	15	61	75	3.87	2.60	1.29
TY 6600E 4925N	241	202	< 5	< 0.2	3.21	920	0.5	< 2	2.47	< 0.5	4	16	42	1.10	0.87	0.52
TY 6600E 4950N	241	202	< 5	< 0.2	5.68	1090	1.5	< 2	1.29	< 0.5	10	50	31	3.26	2.04	0.97
TY 6600E 4975N	241	202	40	< 0.2	6.52	930	0.5	< 2	1.04	< 0.5	5	33	15	2.25	1.98	0.58
TY 6600E 5000N	241	202	< 5	< 0.2	5.96	1730	1.5	< 2	1.69	< 0.5	9	60	26	2.79	2.03	1.26
TY 6800E 4550N	241	202	25	0.8	8.44	1390	1.5	6	0.47	< 0.5	6	54	220	4.31	3.32	1.29
TY 6800E 4575N	241	202	20	1.0	7.99	1350	1.5	2	0.50	< 0.5	5	50	229	3.85	3.13	1.25
TY 6800E 4600N	241	202	10	0.6	7.56	1410	1.5	2	0.42	< 0.5	5	52	202	4.57	3.00	1.17

CERTIFICATION: [signature]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
[illegible], THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: cc:David Terry

Invoice No. :A9626750
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9626750

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
TY 6400E 4575N	241 202	1550	15	0.80	14	1020	90	134	0.25	108	< 10	126
TY 6400E 4600N	241 202	895	5	0.47	23	730	38	72	0.38	144	< 10	86
TY 6400E 4625N	241 202	1730	15	0.54	33	870	216	103	0.28	148	< 10	330
TY 6400E 4650N	241 202	380	4	0.94	13	620	36	128	0.27	98	< 10	76
TY 6400E 4675N	241 202	350	4	0.86	13	570	26	103	0.27	93	< 10	60
TY 6400E 4700N	241 202	380	4	0.85	12	600	30	100	0.28	88	< 10	64
TY 6400E 4725N	241 202	425	5	0.96	16	600	40	116	0.32	101	< 10	78
TY 6400E 4750N	241 202	590	3	1.13	12	710	26	169	0.29	93	< 10	76
TY 6400E 4775N	241 202	480	10	0.90	16	880	36	144	0.34	139	< 10	106
TY 6400E 4800N	241 202	410	5	1.38	13	940	54	221	0.31	83	< 10	72
TY 6400E 4825N	241 202	265	1	1.38	7	1800	16	247	0.21	54	< 10	42
TY 6400E 4850N	241 202	285	3	1.16	9	1430	26	164	0.29	87	< 10	50
TY 6400E 4875N	241 202	325	3	1.63	9	1150	14	241	0.32	74	< 10	48
TY 6400E 4900N	241 202	950	7	0.97	14	710	80	115	0.31	101	< 10	152
TY 6400E 4925N	241 202	670	7	0.85	18	810	68	107	0.31	105	< 10	152
TY 6400E 4950N	241 202	365	3	2.24	5	350	18	441	0.19	41	< 10	64
TY 6400E 4975N	241 202	1105	7	0.86	16	650	38	100	0.31	80	< 10	188
TY 6400E 5000N	241 202	730	2	1.41	19	560	28	171	0.29	61	< 10	64
TY 6600E 4550N	241 202	655	15	0.75	14	710	68	117	0.31	124	10	126
TY 6600E 4575N	241 202	770	13	0.91	24	860	124	148	0.28	110	< 10	154
TY 6600E 4600N	241 202	455	10	1.48	8	610	40	270	0.23	87	< 10	78
TY 6600E 4625N	241 202	835	17	0.70	14	960	72	125	0.27	129	< 10	152
TY 6600E 4650N	241 202	960	27	0.48	16	1060	78	71	0.26	144	< 10	160
TY 6600E 4675N	241 202	615	28	0.55	17	1090	72	83	0.26	136	< 10	120
TY 6600E 4700N	241 202	370	18	1.48	7	840	38	269	0.22	79	< 10	70
TY 6600E 4725N	241 202	375	20	1.17	10	850	64	214	0.23	99	< 10	70
TY 6600E 4750N	241 202	2910	28	0.54	21	890	70	70	0.24	116	< 10	128
TY 6600E 4775N	241 202	600	29	0.58	18	1020	68	90	0.28	134	< 10	128
TY 6600E 4800N	241 202	735	30	0.48	19	910	52	83	0.24	116	< 10	150
TY 6600E 4825N	241 202	1185	31	0.51	27	1040	78	87	0.24	133	< 10	222
TY 6600E 4850N	241 202	805	25	0.55	18	1140	54	77	0.25	109	< 10	124
TY 6600E 4875N	241 202	790	25	0.59	19	1060	68	96	0.28	122	< 10	132
TY 6600E 4900N	241 202	765	6	0.94	24	760	52	160	0.31	107	< 10	174
TY 6600E 4925N	241 202	285	1	0.86	10	1110	10	284	0.11	27	< 10	34
TY 6600E 4950N	241 202	645	3	1.27	19	810	30	184	0.36	86	< 10	74
TY 6600E 4975N	241 202	360	2	1.62	9	690	16	225	0.41	91	10	58
TY 6600E 5000N	241 202	510	2	1.15	17	1140	24	204	0.33	89	< 10	102
TY 6800E 4550N	241 202	465	30	0.72	11	730	76	97	0.27	123	< 10	94
TY 6800E 4575N	241 202	400	22	0.82	12	650	80	113	0.25	112	< 10	80
TY 6800E 4600N	241 202	405	18	0.76	13	820	90	107	0.27	114	< 10	74

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 4500e, [illegible]
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: cc:David Terry

Invoice No. : A9626750
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9626750

SAMPLE	PREP CODE		Au ppb RUSH	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
TY 6800E 4625N	241	202	25	0.6	7.07	1230	1.5	4	0.46	< 0.5	4	36	258	3.89	2.63	0.94
TY 6800E 4650N	241	202	20	< 0.2	8.69	1490	1.5	6	0.36	< 0.5	10	48	446	4.55	3.29	1.18
TY 6800E 4675N	241	202	10	0.4	7.92	1420	1.5	2	0.50	< 0.5	8	52	451	4.64	3.00	1.20
TY 6800E 4700N	241	202	5	< 0.2	7.70	1500	1.5	< 2	0.63	< 0.5	16	54	777	5.40	2.98	1.25
TY 6800E 4725N	241	202	< 5	< 0.2	7.09	1350	1.5	2	0.75	< 0.5	13	50	434	5.06	2.73	1.22
TY 6800E 4750N	241	202	< 5	< 0.2	7.67	1500	1.5	< 2	0.74	< 0.5	10	56	223	3.98	2.96	1.34
TY 6800E 4775N	241	202	< 5	< 0.2	7.80	1690	2.0	2	0.86	< 0.5	14	61	285	4.65	3.19	1.46
TY 6800E 4800N	241	202	< 5	< 0.2	7.54	1660	2.0	2	0.80	< 0.5	17	60	234	4.59	3.06	1.41
TY 6800E 4825N	241	202	< 5	< 0.2	6.31	1290	1.5	2	0.85	< 0.5	15	48	154	4.00	2.50	1.20
TY 6800E 4850N	241	202	< 5	0.6	5.48	1220	1.0	2	1.83	< 0.5	8	25	136	1.65	1.46	0.56
TY 6800E 4875N	241	202	< 5	< 0.2	6.47	1040	1.0	2	1.17	< 0.5	6	43	17	2.44	2.21	0.68
TY 6800E 4900N	241	202	< 5	< 0.2	6.86	1000	1.0	< 2	1.20	< 0.5	6	38	18	2.63	2.13	0.70
TY 6800E 4925N	241	202	< 5	< 0.2	6.54	870	1.0	2	1.35	< 0.5	6	19	17	1.70	2.02	0.53
TY 6800E 4950N	241	202	< 5	< 0.2	5.90	970	1.0	2	1.27	< 0.5	5	33	20	2.25	2.04	0.66
TY 6800E 4975N	241	202	< 5	< 0.2	6.32	1080	1.5	< 2	1.91	< 0.5	8	28	41	2.31	1.92	0.89
TY 6800E 5000N	241	202	< 5	< 0.2	6.20	1490	1.5	4	1.67	< 0.5	11	55	33	3.03	2.23	1.29

CERTIFICATION: Hans Buchler

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
[illegible]
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: cc:David Terry

Page N[illegible] 3 B
Total P[illegible]
Invoice No. [illegible]9626750
P.O. Number
Account : GP W

CERTIFICATE OF ANALYSIS A9626750

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
TY 6800E 4625N	241	202	310	30	0.76	11	850	76	126	0.23	99	< 10	86
TY 6800E 4650N	241	202	565	36	0.74	12	740	76	103	0.24	126	< 10	86
TY 6800E 4675N	241	202	565	24	0.83	18	840	66	110	0.28	117	< 10	116
TY 6800E 4700N	241	202	705	21	0.86	23	910	66	117	0.30	113	10	136
TY 6800E 4725N	241	202	575	14	0.91	21	910	52	118	0.31	100	< 10	138
TY 6800E 4750N	241	202	795	14	0.90	19	790	36	122	0.31	112	< 10	140
TY 6800E 4775N	241	202	870	11	0.91	25	860	50	122	0.32	117	10	186
TY 6800E 4800N	241	202	1410	11	0.95	27	870	50	125	0.35	112	10	170
TY 6800E 4825N	241	202	855	7	0.94	21	830	52	129	0.31	90	< 10	162
TY 6800E 4850N	241	202	635	2	1.49	29	960	18	325	0.19	46	< 10	58
TY 6800E 4875N	241	202	435	1	1.59	9	510	20	222	0.44	94	< 10	60
TY 6800E 4900N	241	202	635	2	1.72	9	830	20	273	0.45	94	< 10	60
TY 6800E 4925N	241	202	605	1	2.13	5	1020	12	376	0.24	49	< 10	52
TY 6800E 4950N	241	202	370	2	1.47	11	710	16	241	0.35	87	< 10	48
TY 6800E 4975N	241	202	735	2	1.65	18	950	16	329	0.22	61	< 10	100
TY 6800E 5000N	241	202	560	1	1.06	24	900	28	190	0.29	89	< 10	142

CERTIFICATION: [signature]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9626866

Comments: ATTN:DAVID TERRY

CERTIFICATE A9626866

(GP W) - WESTMIN RESOURCES LTD.

Project: 6408
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 18-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	100	Dry, sieve to -80 mesh
202	100	save reject
285	100	ICP - HF digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	97	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
578	100	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	100	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	100	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	100	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	100	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	100	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	100	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	100	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	100	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	100	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	100	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	100	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	100	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	100	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	100	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	100	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	100	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	100	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	100	Pb ppm: 24 element, rock & core	AAS	2	10000
582	100	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	100	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	100	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	100	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	100	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN:DAVID TERRY

Page Number : 1-A
Total Pages : 3
Certificate Date: 18-AUG-96
Invoice No. : I9626866
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9626866

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
130391	201	202	< 5	< 0.2	4.47	1240	0.5	2	0.89	1.0	15	66	52	3.95	1.29	0.96
130392	201	202	< 5	< 0.2	4.06	1280	0.5	< 2	0.65	0.5	15	83	67	4.23	1.19	0.82
130393	201	202	< 5	< 0.2	5.64	1220	0.5	< 2	0.99	0.5	7	41	30	2.29	1.65	0.49
130394	201	202	< 5	< 0.2	4.67	1260	0.5	< 2	0.86	< 0.5	10	54	40	3.10	1.34	0.58
130395	201	202	< 5	< 0.2	4.72	1810	1.0	< 2	0.74	0.5	17	86	71	4.23	1.63	0.86
130396	201	202	< 5	< 0.2	6.06	1270	1.0	< 2	1.09	< 0.5	9	46	35	2.78	1.81	0.70
130397	201	202	< 5	< 0.2	4.79	1980	1.0	< 2	0.59	0.5	28	67	53	3.52	1.66	0.65
130398	201	202	< 5	< 0.2	4.54	1350	0.5	< 2	0.44	< 0.5	14	68	53	4.15	1.62	0.62
130399	201	202	< 5	< 0.2	4.28	1360	1.0	< 2	0.34	0.5	13	67	59	3.22	1.56	0.46
130400	201	202	10	< 0.2	3.94	1260	1.0	< 2	0.77	0.5	11	82	87	3.55	1.37	0.64
271146	201	202	< 5	< 0.2	6.84	1090	1.0	< 2	1.26	1.5	5	24	20	1.72	2.14	0.56
271147	201	202	< 5	< 0.2	6.87	1420	1.0	< 2	0.89	< 0.5	5	51	26	2.66	2.62	0.84
271148	201	202	< 5	0.2	7.02	1280	1.0	< 2	1.14	1.5	7	35	30	2.18	2.15	0.70
271149	201	202	< 5	< 0.2	6.71	1210	1.0	< 2	1.08	< 0.5	6	35	25	2.53	2.43	0.79
271150	201	202	< 5	< 0.2	6.70	1390	1.5	4	0.83	< 0.5	12	51	42	4.17	2.67	1.17
272701	201	202	< 5	< 0.2	6.65	1420	1.0	2	0.97	2.0	13	40	28	2.35	2.37	0.77
272702	201	202	< 5	< 0.2	6.46	1140	1.0	< 2	1.03	1.0	5	34	26	1.93	1.89	0.53
272703	201	202	< 5	< 0.2	6.87	1430	1.0	8	1.01	< 0.5	7	32	25	2.14	2.32	0.64
272704	201	202	< 5	< 0.2	6.20	1040	0.5	< 2	1.38	2.5	6	13	20	1.46	1.84	0.46
272705	201	202	< 5	0.2	6.37	1160	1.0	< 2	1.09	0.5	7	41	27	2.64	2.11	0.70
272706	201	202	< 5	< 0.2	6.70	1180	1.0	< 2	1.23	0.5	6	32	24	2.61	2.15	0.72
272707	201	202	< 5	< 0.2	6.36	1210	0.5	< 2	1.15	2.5	6	27	25	1.99	1.88	0.59
272708	201	202	< 5	< 0.2	6.56	1420	1.0	< 2	1.02	< 0.5	8	40	18	2.32	2.40	0.76
272709	201	202	< 5	< 0.2	6.38	1510	1.0	< 2	1.02	1.5	16	41	16	2.40	2.14	0.70
272710	201	202	< 5	< 0.2	6.09	1720	0.5	4	0.77	< 0.5	6	42	26	5.08	2.80	0.95
272711	201	202	< 5	< 0.2	6.35	1560	1.0	< 2	0.92	< 0.5	5	46	18	2.63	2.44	0.85
272712	201	202	< 5	0.4	4.66	2160	1.0	< 2	0.52	0.5	10	147	61	3.05	1.54	0.87
272713	201	202	< 5	< 0.2	6.72	3130	2.0	< 2	0.60	1.5	8	115	64	2.73	2.35	0.64
272714	201	202	< 5	0.8	3.08	1160	< 0.5	< 2	2.11	7.0	4	7	23	0.83	0.85	0.36
275021	201	202	< 5	< 0.2	5.72	1050	0.5	< 2	1.22	< 0.5	9	42	41	2.75	1.60	0.62
275022	201	202	< 5	< 0.2	6.14	1380	0.5	< 2	1.31	< 0.5	9	34	26	2.11	1.78	0.59
275023	201	202	< 5	0.4	6.31	830	0.5	< 2	1.67	< 0.5	7	20	32	2.12	1.59	0.69
275024	201	202	< 5	< 0.2	5.34	1190	0.5	< 2	0.85	< 0.5	5	52	37	2.51	1.58	0.51
275025	201	202	< 5	< 0.2	4.26	1340	0.5	< 2	0.44	< 0.5	10	72	67	3.88	1.24	0.55
275026	201	202	< 5	0.4	4.23	1240	0.5	< 2	0.44	< 0.5	8	63	48	2.65	1.25	0.44
275027	201	202	< 5	1.2	5.93	3090	1.5	< 2	0.83	1.0	29	105	130	6.10	2.29	0.66
275028	201	202	< 5	< 0.2	5.80	1680	0.5	< 2	0.51	< 0.5	9	66	32	4.64	1.32	1.09
275029	201	202	< 5	0.2	6.09	1880	1.0	< 2	1.69	< 0.5	28	121	106	6.01	1.59	1.64
275030	201	202	< 5	< 0.2	6.66	2070	1.0	< 2	1.29	< 0.5	20	105	73	5.81	1.92	1.72
275031	201	202	< 5	< 0.2	6.54	1950	1.0	< 2	1.38	< 0.5	15	116	64	5.70	1.69	1.74

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN:DAVID TERRY

Certificate Date: 18-AUG-96
Invoice No. :I9626866
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9626866

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
130391	201	202	910	4	0.96	43	3300	24	109	0.75	113	< 10	118			
130392	201	202	590	5	0.70	45	2750	36	95	0.74	131	< 10	118			
130393	201	202	1145	3	1.58	15	2680	20	290	0.33	88	< 10	70			
130394	201	202	750	4	1.07	23	2960	24	195	0.43	93	< 10	88			
130395	201	202	1195	6	0.63	51	2500	52	95	0.51	136	< 10	160			
130396	201	202	515	3	1.67	21	1980	16	309	0.37	78	< 10	78			
130397	201	202	5900	4	0.67	32	4250	40	80	0.43	102	< 10	124			
130398	201	202	1465	5	0.78	28	2240	22	81	0.62	118	< 10	104			
130399	201	202	2020	4	0.55	32	1770	24	71	0.44	128	< 10	110			
130400	201	202	385	5	0.56	56	3060	30	98	0.35	161	< 10	160			
271146	201	202	360	3	2.13	6	840	12	370	0.25	55	< 10	74			
271147	201	202	425	3	1.38	7	780	44	206	0.33	100	< 10	86			
271148	201	202	470	3	1.74	9	1430	24	298	0.31	84	< 10	100			
271149	201	202	405	2	1.72	10	590	28	292	0.25	75	< 10	78			
271150	201	202	705	6	1.23	18	1240	40	164	0.33	103	< 10	112			
272701	201	202	1020	4	1.51	13	1530	20	230	0.34	89	< 10	94			
272702	201	202	325	1	1.86	8	1910	24	302	0.35	72	< 10	74			
272703	201	202	340	4	1.80	8	1130	20	299	0.31	91	< 10	74			
272704	201	202	430	3	2.21	4	1210	12	425	0.21	40	< 10	80			
272705	201	202	615	3	1.56	15	980	26	269	0.35	78	< 10	94			
272706	201	202	510	3	1.82	10	1200	42	316	0.29	71	< 10	92			
272707	201	202	850	3	1.82	11	1430	20	318	0.25	61	< 10	146			
272708	201	202	1375	3	1.46	10	620	20	241	0.31	88	< 10	84			
272709	201	202	1550	3	1.51	9	770	30	248	0.34	88	< 10	116			
272710	201	202	495	8	1.01	11	1130	160	157	0.31	102	< 10	102			
272711	201	202	480	4	1.19	11	630	26	174	0.32	104	< 10	108			
272712	201	202	510	8	0.57	67	1300	34	85	0.32	286	< 10	156			
272713	201	202	550	8	0.77	54	1020	26	142	0.20	286	< 10	164			
272714	201	202	1085	2	1.07	15	1290	8	269	0.09	20	< 10	438			
275021	201	202	495	4	1.65	22	1450	30	320	0.29	80	< 10	82			
275022	201	202	2280	4	1.77	11	1460	26	375	0.29	81	< 10	62			
275023	201	202	395	3	2.08	10	1340	24	453	0.26	61	< 10	56			
275024	201	202	370	3	1.12	16	2560	22	228	0.28	99	< 10	68			
275025	201	202	440	7	0.47	43	1810	32	82	0.35	145	< 10	134			
275026	201	202	675	4	0.47	24	3530	58	84	0.26	109	< 10	92			
275027	201	202	1690	12	0.37	95	3670	100	100	0.34	209	< 10	270			
275028	201	202	1010	4	1.67	31	3500	20	85	0.66	93	< 10	94			
275029	201	202	1395	8	1.27	83	3570	32	158	0.95	174	< 10	158			
275030	201	202	1340	4	1.24	56	2270	28	133	0.90	156	< 10	122			
275031	201	202	985	6	1.41	62	2690	16	149	0.89	194	< 10	116			

CERTIFICATION: Ivan Bruchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN:DAVID TERRY

Page Number :2-A
Total Pages :3
Certificate Date: 18-AUG-96
Invoice No. :I9626866
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9626866

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
275032	201	202	< 5	< 0.2	4.89	1140	0.5	2	0.92	< 0.5	14	67	43	4.47	1.25	1.01
275033	201	202	< 5	< 0.2	4.98	1350	0.5	< 2	0.62	< 0.5	14	70	52	4.34	1.40	1.11
275034	201	202	< 5	< 0.2	6.78	2520	1.0	< 2	2.45	< 0.5	37	257	62	8.12	1.79	4.03
275035	201	202	< 5	< 0.2	7.14	3480	1.5	< 2	0.75	< 0.5	22	133	136	5.86	2.57	1.18
275036	201	202	< 5	0.2	6.18	2870	1.0	< 2	1.23	< 0.5	28	116	97	6.99	1.91	2.37
275037	201	202	40	< 0.2	4.38	1630	0.5	< 2	0.46	0.5	10	70	47	3.10	1.37	0.53
275038	201	202	< 5	< 0.2	7.27	3100	1.5	< 2	0.76	< 0.5	21	119	67	6.27	2.18	1.82
275039	201	202	< 5	< 0.2	7.40	3040	1.5	< 2	0.74	< 0.5	26	150	76	6.53	2.30	1.73
275040	201	202	< 5	< 0.2	6.52	3280	1.5	< 2	0.48	< 0.5	16	118	66	4.12	2.43	1.09
275041	201	202	< 5	< 0.2	7.61	3320	2.0	< 2	0.32	< 0.5	11	131	60	3.82	3.00	1.00
275042	201	202	< 5	< 0.2	7.22	3460	2.0	< 2	0.25	< 0.5	15	126	134	4.32	2.87	1.12
275043	201	202	< 5	< 0.2	5.92	3020	1.5	< 2	0.21	< 0.5	17	107	125	3.96	2.50	0.80
275044	201	202	< 5	< 0.2	3.86	1570	0.5	4	0.31	1.5	12	94	133	3.48	1.14	1.39
275045	201	202	< 5	< 0.2	4.56	3160	1.5	< 2	1.20	2.0	11	197	156	2.88	1.72	2.01
275046	201	202	< 5	< 0.2	5.62	2700	1.5	< 2	0.26	0.5	8	77	103	2.98	2.20	0.50
275047	201	202	< 5	< 0.2	5.45	3720	2.0	< 2	0.50	< 0.5	11	136	176	2.99	2.30	0.60
275048	201	202	< 5	< 0.2	3.89	1560	0.5	< 2	0.49	< 0.5	7	75	68	2.77	1.32	0.44
275049	201	202	< 5	0.4	3.99	1890	0.5	2	0.81	12.0	15	126	116	5.18	1.07	2.35
275050	201	202	< 5	0.6	5.07	1330	0.5	< 2	0.74	< 0.5	6	70	49	2.69	1.49	0.59
275051	201	202	< 5	< 0.2	4.45	1500	0.5	< 2	0.52	< 0.5	9	77	61	3.14	1.40	0.60
275052	201	202	< 5	< 0.2	4.86	1980	1.5	< 2	0.34	< 0.5	10	126	86	3.37	1.75	0.62
275053	201	202	< 5	0.8	5.11	3440	2.5	< 2	0.30	0.5	12	274	210	2.72	1.99	0.38
275054	201	202	< 5	0.6	5.20	3050	2.0	< 2	0.35	1.5	7	185	82	2.29	1.80	0.55
275055	201	202	< 5	1.0	7.58	4100	2.5	< 2	1.23	1.5	9	247	118	2.26	2.42	0.64
275056	201	202	< 5	0.4	8.46	6160	3.5	< 2	0.52	0.5	12	345	97	3.29	3.26	1.04
275057	201	202	< 5	< 0.2	6.42	1070	0.5	< 2	1.69	< 0.5	6	23	36	1.93	1.81	0.64
275058	201	202	< 5	1.6	5.12	2900	1.5	< 2	0.54	7.0	19	95	265	2.88	1.71	0.52
275059	201	202	< 5	< 0.2	7.19	3130	2.0	2	0.20	< 0.5	12	94	115	3.69	2.94	1.06
275060	201	202	< 5	< 0.2	6.48	1930	1.5	2	0.88	< 0.5	8	60	64	2.74	2.24	0.73
275061	201	202	< 5	< 0.2	5.39	1180	0.5	< 2	0.96	< 0.5	8	25	41	1.96	1.64	0.45
275062	201	202	< 5	0.4	4.83	1920	1.0	< 2	0.30	< 0.5	16	79	96	2.66	1.76	0.49
275063	201	202	< 5	< 0.2	4.18	1840	1.0	< 2	0.24	0.5	8	62	72	2.56	1.57	0.55
275064	201	202	< 5	< 0.2	3.57	1340	0.5	< 2	0.44	< 0.5	8	58	60	2.59	1.28	0.53
275065	201	202	< 5	< 0.2	6.05	910	0.5	< 2	1.53	1.0	9	23	23	2.16	1.66	0.69
275066	201	202	< 5	< 0.2	3.43	1320	0.5	< 2	0.39	0.5	11	44	50	2.03	1.25	0.36
275067	201	202	< 5	< 0.2	3.25	1340	0.5	< 2	0.34	< 0.5	9	69	63	2.72	1.22	0.48
275068	201	202	< 5	< 0.2	6.02	1060	0.5	< 2	1.22	< 0.5	6	33	35	2.16	1.75	0.52
275069	201	202	< 5	< 0.2	3.39	1310	0.5	< 2	0.35	0.5	5	73	58	2.18	1.11	0.34
275070	201	202	< 5	< 0.2	4.81	1390	1.0	< 2	0.78	< 0.5	13	82	72	3.23	1.57	0.77
275071	201	202	< 5	< 0.2	4.64	1140	0.5	< 2	0.69	< 0.5	8	55	41	1.97	1.38	0.40

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN:DAVID TERRY

Certificate Date: 18-AUG-96
Invoice No. : I9626866
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9626866

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
275032	201	202	880	3	1.14	32	2970	18	127	0.79	121	< 10	90			
275033	201	202	1135	4	0.81	46	2450	22	121	0.52	109	< 10	100			
275034	201	202	2140	4	0.62	178	3230	28	118	1.21	198	< 10	156			
275035	201	202	1015	11	0.46	76	2760	24	106	0.38	264	< 10	140			
275036	201	202	1780	7	0.54	69	2740	26	90	0.76	181	< 10	128			
275037	201	202	975	4	0.66	26	4720	44	84	0.43	133	< 10	82			
275038	201	202	1245	6	0.67	73	2660	34	89	0.66	173	< 10	132			
275039	201	202	1350	7	0.62	90	2380	30	113	0.78	183	< 10	162			
275040	201	202	580	5	0.42	56	1220	24	81	0.42	165	< 10	124			
275041	201	202	465	5	0.28	53	1230	20	74	0.40	164	< 10	110			
275042	201	202	665	7	0.17	71	990	52	54	0.28	168	< 10	280			
275043	201	202	670	6	0.16	71	1000	42	56	0.26	162	< 10	202			
275044	201	202	745	4	0.29	67	1050	60	47	0.28	148	< 10	298			
275045	201	202	445	19	0.13	189	5520	46	80	0.28	1135	< 10	600			
275046	201	202	270	5	0.41	39	1460	14	76	0.18	130	< 10	122			
275047	201	202	660	10	0.31	72	2090	42	82	0.22	451	< 10	198			
275048	201	202	365	4	0.53	37	1030	32	84	0.31	128	< 10	140			
275049	201	202	3090	10	0.23	85	3080	54	62	0.24	336	< 10	1250			
275050	201	202	390	4	1.08	30	1600	24	188	0.35	139	< 10	110			
275051	201	202	1030	4	0.66	37	2670	26	115	0.38	138	< 10	110			
275052	201	202	850	7	0.44	53	1960	46	68	0.34	340	< 10	156			
275053	201	202	1015	16	0.21	141	1880	40	50	0.14	493	< 10	256			
275054	201	202	560	8	0.42	63	2640	36	88	0.17	377	< 10	158			
275055	201	202	1030	8	1.55	89	2060	36	313	0.20	745	< 10	176			
275056	201	202	695	13	0.39	129	2720	42	72	0.22	1065	< 10	232			
275057	201	202	570	4	2.31	18	1500	16	474	0.22	94	< 10	68			
275058	201	202	7170	6	0.37	98	4540	44	69	0.26	143	< 10	238			
275059	201	202	590	5	0.42	36	1220	30	115	0.22	111	< 10	112			
275060	201	202	405	5	1.31	32	980	16	240	0.27	138	< 10	98			
275061	201	202	2150	4	1.53	16	2300	18	286	0.22	63	< 10	78			
275062	201	202	2800	6	0.49	38	1650	52	67	0.34	154	< 10	140			
275063	201	202	970	5	0.28	34	830	26	43	0.27	150	< 10	102			
275064	201	202	875	3	0.50	35	2230	24	74	0.31	113	< 10	110			
275065	201	202	1135	1	2.02	13	2210	12	419	0.27	67	< 10	66			
275066	201	202	1985	3	0.56	28	2390	26	101	0.20	101	< 10	120			
275067	201	202	1345	4	0.31	40	1770	32	52	0.27	130	< 10	134			
275068	201	202	420	4	1.83	17	2130	12	363	0.28	76	< 10	70			
275069	201	202	500	5	0.38	36	2900	24	65	0.24	141	< 10	98			
275070	201	202	640	5	0.87	53	1550	24	120	0.36	141	< 10	132			
275071	201	202	940	3	1.01	23	2790	24	172	0.35	128	< 10	62			

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
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V7X 1C4

Project : 6408
Comments: ATTN:DAVID TERRY

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CERTIFICATE OF ANALYSIS A9626866

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
275072	201	202	< 5	0.4	6.61	1070	1.0	< 2	1.52	< 0.5	5	27	21	1.59	1.96	0.55
TY7000E 4550N	201	202	35	< 0.2	7.01	1210	0.5	< 2	0.58	< 0.5	7	42	435	4.76	2.73	1.12
TY7000E 4575N	201	202	25	< 0.2	6.34	1030	0.5	< 2	0.85	0.5	12	35	302	3.29	2.32	1.07
TY7000E 4600N	201	202	not/ss	< 0.2	5.54	860	0.5	< 2	0.48	< 0.5	6	23	194	3.93	2.15	0.79
TY7000E 4625N	201	202	< 5	< 0.2	5.14	910	0.5	< 2	0.54	< 0.5	4	27	105	2.53	2.00	0.77
TY7000E 4650N	201	202	10	< 0.2	7.45	1220	1.0	< 2	1.07	2.0	9	41	1560	3.75	2.63	1.05
TY7000E 4675N	201	202	< 5	< 0.2	6.82	1150	1.0	6	1.38	2.5	11	37	1805	3.45	2.42	0.99
TY7000E 4700N	201	202	< 5	< 0.2	7.01	1120	1.0	< 2	0.98	< 0.5	12	41	1955	3.64	2.54	1.04
TY7000E 4725N	201	202	< 5	< 0.2	6.61	1290	1.0	< 2	0.91	< 0.5	13	48	139	4.12	2.62	1.29
TY7000E 4750N	201	202	< 5	< 0.2	6.34	1290	1.0	< 2	1.16	< 0.5	15	47	98	4.15	2.50	1.31
TY7000E 4775N	201	202	< 5	< 0.2	6.09	990	0.5	< 2	1.63	1.5	8	33	27	2.59	2.16	0.79
TY7000E 4800N	201	202	< 5	< 0.2	6.13	1020	1.0	< 2	1.22	< 0.5	6	30	23	1.95	1.84	0.56
TY7000E 4825N	201	202	< 5	< 0.2	6.70	1100	1.0	< 2	1.12	< 0.5	7	52	22	3.23	2.36	0.74
TY7000E 4850N	201	202	< 5	< 0.2	7.42	1620	1.5	< 2	1.46	< 0.5	12	67	38	3.58	2.78	1.47
TY7000E 4875N	201	202	< 5	< 0.2	6.93	1700	1.5	< 2	1.62	0.5	13	65	36	3.38	2.61	1.39
TY7000E 4900N	201	202	< 5	0.2	6.89	1410	1.5	< 2	1.64	< 0.5	10	55	32	3.24	2.48	1.30
TY7000E 4925N	201	202	< 5	< 0.2	6.69	1370	1.5	4	1.67	< 0.5	11	57	35	3.25	2.56	1.24
TY7000E 4950N	201	202	not/ss	< 0.2	2.49	760	0.5	2	2.64	1.5	6	26	57	1.35	0.92	0.72
TY7000E 4975N	201	202	not/ss	< 0.2	5.88	1460	1.5	2	1.99	1.5	13	55	53	3.01	2.10	1.26
TY7000E 5000N	201	202	< 5	< 0.2	6.94	1440	1.5	6	1.58	< 0.5	11	57	37	3.36	2.50	1.32

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN:DAVID TERRY

Certificate Date: 18-AUG-96
Invoice No. : I9626866
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CERTIFICATE OF ANALYSIS A9626866

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275072	201	202	315	2	2.36	10	860	14	464	0.18	85	< 10	52			
TY7000E 4550N	201	202	475	22	0.66	15	1040	106	93	0.21	90	< 10	156			
TY7000E 4575N	201	202	635	15	0.93	19	1180	48	132	0.31	91	< 10	126			
TY7000E 4600N	201	202	420	18	0.68	12	830	54	82	0.21	64	< 10	108			
TY7000E 4625N	201	202	385	13	0.95	10	320	34	99	0.29	62	< 10	80			
TY7000E 4650N	201	202	595	16	1.02	28	1210	40	177	0.25	96	< 10	428			
TY7000E 4675N	201	202	750	15	1.06	32	1140	40	206	0.23	85	< 10	418			
TY7000E 4700N	201	202	795	13	1.34	18	1110	38	211	0.28	84	< 10	198			
TY7000E 4725N	201	202	875	9	1.11	18	960	66	158	0.29	89	< 10	134			
TY7000E 4750N	201	202	885	9	1.12	18	1070	64	181	0.30	85	< 10	142			
TY7000E 4775N	201	202	725	3	1.84	13	1030	24	330	0.30	68	< 10	114			
TY7000E 4800N	201	202	615	3	1.62	11	1840	14	264	0.28	73	< 10	42			
TY7000E 4825N	201	202	540	4	1.58	14	1230	26	212	0.43	110	< 10	72			
TY7000E 4850N	201	202	860	1	1.31	24	870	30	175	0.35	107	< 10	122			
TY7000E 4875N	201	202	1020	2	1.23	28	890	32	178	0.32	100	< 10	132			
TY7000E 4900N	201	202	750	1	1.52	23	920	36	209	0.36	94	< 10	104			
TY7000E 4925N	201	202	1260	1	1.45	23	870	34	206	0.34	93	< 10	96			
TY7000E 4950N	201	202	1070	1	0.34	20	1080	16	153	0.10	36	< 10	90			
TY7000E 4975N	201	202	1400	1	0.85	29	1080	32	161	0.24	87	< 10	130			
TY7000E 5000N	201	202	755	3	1.42	24	900	34	197	0.35	98	< 10	102			

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : TY
Comments: ATTN: DAVID TERRY

Page Number :2-A
Total Pages :8
Certificate Date: 20-AUG-96
Invoice No. :I9627301
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627301

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
[redacted]	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
	201	202	< 5	< 0.2	7.20	810	0.5	< 2	1.57	< 0.5	7	16	17	2.11	2.15	0.72
	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
	201	202	< 5	< 0.2	7.47	1050	1.0	2	0.84	< 0.5	8	37	21	4.11	2.88	1.36
	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
[redacted]	201	202	< 5	< 0.2	6.91	1000	1.0	4	0.79	< 0.5	4	28	14	1.78	2.40	0.66
	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
	201	202	< 5	< 0.2	7.50	1610	1.5	< 2	0.28	< 0.5	8	42	49	3.97	3.03	0.88
	201	202	< 5	< 0.2	7.57	1220	1.5	< 2	0.38	< 0.5	5	24	22	2.28	3.15	0.71
	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4450N	201	202	< 5	< 0.2	8.30	1950	1.5	< 2	0.56	< 0.5	5	28	33	3.21	3.82	0.88
TY 5200E 4475N	201	202	< 5	1.6	7.36	1490	1.5	4	0.40	< 0.5	12	25	53	4.57	3.31	0.86
TY 5200E 4500N	201	202	< 5	0.8	6.95	1150	1.5	< 2	0.68	< 0.5	12	32	49	3.80	2.79	0.80
TY 5200E 4525N	201	202	< 5	1.2	7.28	1210	1.5	< 2	1.19	< 0.5	11	25	42	3.34	3.10	0.87
TY 5200E 4550N	201	202	< 5	1.4	8.54	1700	2.0	6	0.93	< 0.5	8	31	25	3.09	3.85	0.97
TY 5200E 4575N	201	202	< 5	0.2	8.27	1410	2.0	10	0.96	< 0.5	10	40	31	3.83	3.79	1.27
TY 5200E 4600N	201	202	< 5	2.0	5.11	780	0.5	< 2	1.04	< 0.5	4	11	20	1.85	1.58	0.45
TY 5200E 4625N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4650N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4675N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4700N	201	202	< 5	1.4	7.25	1220	1.5	< 2	0.94	< 0.5	18	37	33	3.28	2.67	0.91
TY 5200E 4725N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4750N	201	202	< 5	1.4	4.96	770	0.5	< 2	2.02	< 0.5	8	24	51	2.04	1.53	0.50
TY 5200E 4775N	201	202	< 5	0.8	5.85	980	1.0	< 2	1.47	< 0.5	11	30	38	2.87	2.10	0.71
TY 5200E 4800N	201	202	< 5	< 0.2	6.80	980	1.0	< 2	0.69	< 0.5	4	29	17	1.81	2.28	0.64
TY 5200E 4825N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4850N	201	202	< 5	< 0.2	6.77	1350	1.5	2	0.30	< 0.5	13	49	40	4.58	2.85	0.75
TY 5200E 4875N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4900N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4925N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4950N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4975N	201	202	< 5	< 0.2	5.99	1110	1.5	4	1.02	< 0.5	13	44	44	3.35	2.43	0.97
TY 5200E 5000N	201	202	< 5	< 0.2	6.47	1160	1.5	< 2	0.85	< 0.5	14	55	45	3.81	2.69	1.07
[redacted]	201	202	not/ss	0.6	8.96	1520	3.0	< 2	0.34	< 0.5	12	35	41	3.72	4.13	1.06
	201	202	< 5	< 0.2	7.52	1200	2.0	< 2	0.48	< 0.5	17	27	43	5.49	4.29	2.10
[redacted]	201	202	< 5	< 0.2	7.71	1480	2.0	6	0.20	< 0.5	9	24	28	3.11	3.77	0.87
	201	202	< 5	< 0.2	7.44	1160	2.0	2	0.29	< 0.5	7	40	15	2.77	3.05	0.80
	201	202	< 5	< 0.2	6.93	1500	1.5	4	0.17	< 0.5	7	25	17	2.29	3.23	0.63
	201	202	< 5	< 0.2	8.56	980	2.0	6	1.24	< 0.5	13	36	24	4.36	3.54	1.53
	201	202	< 5	< 0.2	8.48	1290	2.5	6	0.68	< 0.5	13	120	30	3.84	4.02	1.59

CERTIFICATION: Stewart Bichler

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SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
[redacted]	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
	201	202	465	2	2.47	6	680	10	451	0.29	60	< 10	52
	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
	201	202	510	3	1.49	11	840	42	200	0.36	83	< 10	74
	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
[redacted]	201	202	255	3	1.86	7	580	10	242	0.32	71	< 10	48
	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
	201	202	335	7	0.90	20	500	70	83	0.32	100	< 10	118
	201	202	260	8	1.25	8	620	32	138	0.27	74	< 10	64
	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4450N	201	202	290	5	1.30	10	830	68	245	0.29	79	< 10	78
TY 5200E 4475N	201	202	540	9	0.73	16	1700	130	100	0.28	71	< 10	140
TY 5200E 4500N	201	202	630	7	1.07	15	980	86	169	0.30	72	< 10	116
TY 5200E 4525N	201	202	705	7	1.01	14	1090	70	236	0.24	67	< 10	108
TY 5200E 4550N	201	202	455	5	0.93	9	920	78	207	0.21	75	< 10	86
TY 5200E 4575N	201	202	510	4	1.20	10	690	50	216	0.31	84	< 10	104
TY 5200E 4600N	201	202	210	3	1.34	6	1260	38	278	0.16	35	< 10	42
TY 5200E 4625N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4650N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4675N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4700N	201	202	1515	6	1.55	13	1600	46	233	0.26	86	< 10	70
TY 5200E 4725N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4750N	201	202	565	3	1.18	15	1520	26	334	0.14	45	< 10	70
TY 5200E 4775N	201	202	765	5	1.24	13	1460	38	271	0.21	64	< 10	98
TY 5200E 4800N	201	202	270	5	1.53	7	1270	26	210	0.27	81	< 10	50
TY 5200E 4825N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4850N	201	202	525	7	1.21	22	2100	76	90	0.29	123	< 10	84
TY 5200E 4875N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4900N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4925N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4950N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4975N	201	202	795	4	0.96	28	1230	62	159	0.30	86	< 10	124
TY 5200E 5000N	201	202	845	3	0.85	27	1160	68	136	0.31	96	< 10	138
[redacted]	201	202	1130	5	1.16	15	1260	206	81	0.27	62	< 10	154
	201	202	1370	5	0.67	9	980	144	73	0.37	118	< 10	210
[redacted]	201	202	525	3	1.11	8	660	72	73	0.24	53	< 10	104
	201	202	370	2	1.29	11	460	42	83	0.31	63	< 10	84
	201	202	390	3	1.26	7	530	44	89	0.24	51	< 10	80
	201	202	945	6	1.93	12	940	54	332	0.36	107	< 10	174
	201	202	910	5	1.17	44	890	136	121	0.29	73	< 10	172

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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To: WESTMIN RESOURCES LTD.
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SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
[redacted]	201	202	< 5	< 0.2	7.51	1260	1.5	< 2	0.82	< 0.5	7	23	23	3.03	2.71	0.86
	201	202	< 5	< 0.2	7.65	1250	1.5	< 2	0.91	< 0.5	4	23	11	1.70	2.67	0.69
	201	202	< 5	< 0.2	7.62	1460	1.5	6	0.33	< 0.5	4	24	13	1.79	2.65	0.70
	201	202	< 5	< 0.2	7.18	1180	1.5	< 2	0.77	< 0.5	6	21	20	1.93	2.56	0.65
TY 5400E 4475N	201	202	< 5	< 0.2	6.98	1040	1.0	6	0.75	< 0.5	6	22	17	2.21	2.37	0.73
TY 5400E 4500N	201	202	< 5	< 0.2	7.81	1670	1.5	< 2	0.65	< 0.5	6	19	15	2.23	2.91	0.76
TY 5400E 4525N	201	202	< 5	< 0.2	7.75	940	1.0	< 2	0.93	< 0.5	4	24	13	1.65	2.44	0.71
TY 5400E 4550N	201	202	< 5	< 0.2	6.87	950	1.5	< 2	0.50	< 0.5	6	31	18	2.66	2.49	0.85
TY 5400E 4575N	201	202	< 5	< 0.2	7.21	900	1.5	< 2	0.69	< 0.5	7	45	23	2.44	2.27	0.93
TY 5400E 4600N	201	202	< 5	< 0.2	7.02	890	1.0	< 2	0.58	< 0.5	4	26	9	1.72	2.16	0.72
TY 5400E 4625N	201	202	< 5	0.6	8.19	1350	1.5	< 2	0.83	< 0.5	10	13	42	4.47	3.35	1.01
TY 5400E 4650N	201	202	< 5	0.6	8.05	1300	2.0	< 2	1.34	< 0.5	14	46	64	3.66	3.10	1.13
TY 5400E 4675N	201	202	< 5	< 0.2	7.66	1300	1.5	< 2	1.26	< 0.5	10	44	50	3.21	2.95	1.08
TY 5400E 4700N	201	202	< 5	< 0.2	7.82	1580	2.0	< 2	0.66	< 0.5	9	49	40	3.19	3.53	1.05
TY 5400E 4725N	201	202	< 5	< 0.2	6.87	1310	1.5	< 2	0.55	< 0.5	8	43	43	3.08	3.11	0.94
TY 5400E 4750N	201	202	< 5	< 0.2	7.17	1410	2.0	< 2	0.45	< 0.5	17	49	46	3.45	3.22	0.97
TY 5400E 4775N	201	202	< 5	0.4	7.08	1280	1.5	< 2	0.50	< 0.5	16	49	48	3.88	2.95	0.94
TY 5400E 4800N	201	202	< 5	< 0.2	6.85	1320	1.5	< 2	0.49	< 0.5	7	42	34	2.85	3.10	0.91
TY 5400E 4825N	201	202	< 5	< 0.2	7.06	1370	1.5	< 2	0.52	< 0.5	9	38	35	3.18	3.15	0.96
TY 5400E 4850N	201	202	< 5	0.4	6.93	1130	1.5	< 2	1.03	< 0.5	7	26	29	2.57	2.44	0.84
TY 5400E 4875N	201	202	< 5	< 0.2	7.20	1450	2.0	< 2	0.74	< 0.5	9	46	41	3.12	3.13	0.96
TY 5400E 4900N	201	202	< 5	0.2	7.61	1470	2.0	< 2	0.76	< 0.5	9	42	26	3.04	3.18	1.02
TY 5400E 4925N	201	202	< 5	0.2	6.90	1320	1.5	< 2	0.73	< 0.5	10	42	31	3.20	2.86	0.99
TY 5400E 4950N	201	202	< 5	0.2	5.55	1000	1.0	< 2	0.89	< 0.5	8	46	30	2.89	1.93	0.99
TY 5400E 4975N	201	202	< 5	0.4	6.78	1250	1.5	2	1.16	< 0.5	16	63	51	4.02	2.50	1.29
TY 5400E 5000N	201	202	< 5	0.8	6.54	1230	1.5	< 2	1.35	1.5	15	57	46	3.61	2.41	1.23
[redacted]	201	202	< 5	< 0.2	6.54	1060	1.5	< 2	0.44	< 0.5	6	26	18	2.15	2.74	0.57
	201	202	< 5	0.4	8.28	910	2.0	< 2	0.48	< 0.5	5	7	15	2.11	3.03	0.61
	201	202	< 5	0.8	9.07	1030	2.5	< 2	0.06	< 0.5	5	8	11	2.50	3.66	0.83
	201	202	< 5	0.4	6.36	1250	1.5	< 2	0.57	< 0.5	6	23	15	1.95	2.60	0.61
	201	202	< 5	0.6	8.33	1070	2.0	< 2	0.68	< 0.5	6	8	22	2.69	3.25	0.68
	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
	201	202	< 5	0.6	7.44	910	1.0	< 2	1.68	< 0.5	6	8	43	1.77	2.15	0.57
	201	202	< 5	1.4	8.12	1560	1.5	4	0.33	< 0.5	5	43	179	5.50	3.78	1.10
	201	202	< 5	< 0.2	7.54	1010	2.0	< 2	0.50	< 0.5	6	9	54	2.31	2.93	0.56
	201	202	< 5	< 0.2	7.83	970	1.5	2	0.82	< 0.5	8	44	17	2.93	2.60	0.94
	201	202	< 5	< 0.2	7.45	970	1.5	< 2	0.55	< 0.5	8	43	20	3.25	2.58	0.96
	201	202	< 5	< 0.2	8.79	890	2.0	< 2	0.30	< 0.5	4	60	10	2.06	2.92	0.61
	201	202	< 5	< 0.2	7.21	920	1.5	< 2	0.55	< 0.5	4	33	7	1.66	2.49	0.69
	201	202	< 5	< 0.2	7.61	910	1.5	2	0.64	< 0.5	5	32	12	2.09	2.66	0.75

CERTIFICATION: Ivan Bichler

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[redacted]	201 202	400	4	1.55	7	500	30	227	0.32	79	< 10	62
	201 202	340	3	1.85	3	480	12	289	0.28	71	< 10	48
	201 202	205	4	1.43	4	540	4	121	0.36	83	< 10	46
	201 202	265	3	1.66	6	390	10	248	0.31	80	< 10	64
TY 5400E 4475N	201 202	315	4	1.39	6	380	18	221	0.35	81	< 10	58
TY 5400E 4500N	201 202	280	4	1.47	7	400	38	199	0.29	68	< 10	78
TY 5400E 4525N	201 202	285	3	1.75	5	510	10	284	0.27	63	< 10	46
TY 5400E 4550N	201 202	385	4	1.14	9	360	24	134	0.33	83	< 10	54
TY 5400E 4575N	201 202	440	3	1.10	17	530	20	169	0.43	87	< 10	54
TY 5400E 4600N	201 202	295	3	1.26	8	660	14	167	0.31	81	< 10	44
TY 5400E 4625N	201 202	435	13	1.15	9	770	62	240	0.29	78	< 10	92
TY 5400E 4650N	201 202	755	4	1.26	25	1000	50	279	0.29	89	< 10	114
TY 5400E 4675N	201 202	625	3	1.22	19	880	42	262	0.30	90	< 10	90
TY 5400E 4700N	201 202	475	5	0.93	21	670	40	131	0.28	114	< 10	88
TY 5400E 4725N	201 202	385	5	0.92	19	840	46	118	0.30	98	< 10	88
TY 5400E 4750N	201 202	1050	5	0.85	21	790	60	99	0.28	105	< 10	92
TY 5400E 4775N	201 202	1155	7	0.84	22	1110	84	118	0.27	105	< 10	102
TY 5400E 4800N	201 202	435	4	0.94	16	690	36	107	0.29	98	< 10	78
TY 5400E 4825N	201 202	540	4	1.03	15	750	44	118	0.28	98	< 10	78
TY 5400E 4850N	201 202	420	2	1.37	11	1070	34	255	0.23	77	< 10	72
TY 5400E 4875N	201 202	715	4	0.98	19	930	44	144	0.27	98	< 10	80
TY 5400E 4900N	201 202	685	3	1.08	16	910	38	156	0.26	105	< 10	88
TY 5400E 4925N	201 202	835	4	0.98	17	1050	36	140	0.29	95	< 10	92
TY 5400E 4950N	201 202	690	3	0.80	23	1080	30	148	0.29	79	< 10	94
TY 5400E 4975N	201 202	1335	4	0.90	32	1210	50	168	0.33	100	< 10	128
TY 5400E 5000N	201 202	1110	1	0.80	34	1090	42	180	0.28	93	< 10	148
[redacted]	201 202	405	1	1.28	9	520	46	119	0.25	52	< 10	80
	201 202	395	3	1.98	5	680	12	192	0.22	41	< 10	106
	201 202	440	5	1.61	1	320	14	73	0.24	48	< 10	102
	201 202	330	1	1.39	11	630	24	163	0.24	47	< 10	72
	201 202	510	3	1.91	3	610	42	237	0.21	42	< 10	116
	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
	201 202	370	3	2.61	5	680	26	516	0.20	41	< 10	60
	201 202	570	15	0.77	9	970	390	92	0.31	103	< 10	224
	201 202	470	7	1.55	5	770	56	155	0.16	46	< 10	114
	201 202	545	3	1.70	10	560	16	222	0.39	114	< 10	58
	201 202	485	3	1.24	13	590	16	149	0.38	110	< 10	66
	201 202	275	2	1.13	9	360	6	123	0.43	112	< 10	40
	201 202	280	2	1.49	5	300	8	165	0.37	81	< 10	40
	201 202	315	3	1.71	7	570	10	196	0.37	82	< 10	58

CERTIFICATION: Hart Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : TY
Comments: ATTN: DAVID TERRY

Page Number :5-A
Total Pages :8
Certificate Date: 20-AUG-96
Invoice No. :I9627301
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627301

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
[redacted]	201	202	< 5	< 0.2	7.84	1000	1.0	< 2	0.91	< 0.5	5	44	9	2.11	2.38	1.05
	201	202	< 5	< 0.2	7.40	1160	1.5	2	1.16	1.5	14	44	97	3.92	2.05	0.94
	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
	201	202	< 5	< 0.2	7.22	920	1.0	2	0.98	< 0.5	4	21	10	1.53	2.37	0.63
	201	202	< 5	< 0.2	7.11	940	1.0	< 2	1.15	< 0.5	5	18	12	1.57	2.34	0.59
[redacted]	201	202	< 5	1.2	4.56	630	0.5	< 2	2.28	< 0.5	7	20	27	1.73	1.05	0.55
	201	202	< 5	< 0.2	7.21	940	1.5	< 2	1.07	< 0.5	6	36	15	2.14	2.23	0.85
	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
	201	202	< 5	< 0.2	7.32	920	1.0	< 2	1.58	< 0.5	6	6	18	1.49	2.17	0.49
TY 5600E 4475N	201	202	< 5	0.4	6.57	1310	1.0	< 2	1.23	< 0.5	6	37	17	2.17	2.16	0.88
TY 5600E 4500N	201	202	< 5	< 0.2	6.87	870	1.0	< 2	1.63	< 0.5	6	10	17	1.56	1.99	0.53
TY 5600E 4525N	201	202	< 5	< 0.2	6.56	870	0.5	< 2	0.61	< 0.5	4	31	10	1.40	1.87	0.53
TY 5600E 4550N	201	202	< 5	< 0.2	7.77	1040	1.5	< 2	0.41	< 0.5	14	61	51	4.94	2.69	1.20
TY 5600E 4575N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5600E 4600N	201	202	< 5	< 0.2	6.66	1100	1.5	2	0.46	< 0.5	8	38	26	2.66	2.67	0.80
TY 5600E 4625N	201	202	< 5	< 0.2	7.02	1190	1.5	2	0.73	< 0.5	10	60	37	3.31	2.96	1.24
TY 5600E 4650N	201	202	< 5	< 0.2	6.95	1010	1.5	< 2	0.50	< 0.5	9	49	31	3.42	2.43	0.79
TY 5600E 4675N	201	202	< 5	< 0.2	6.70	970	1.5	< 2	0.61	< 0.5	7	52	17	2.20	2.25	0.75
TY 5600E 4700N	201	202	< 5	< 0.2	7.19	940	1.0	< 2	0.61	< 0.5	12	58	31	4.23	2.33	0.97
TY 5600E 4725N	201	202	< 5	< 0.2	7.13	960	1.5	< 2	0.73	< 0.5	13	72	37	4.49	2.39	1.27
TY 5600E 4750NA	201	202	< 5	< 0.2	8.02	1440	1.5	< 2	0.10	< 0.5	6	24	20	3.82	3.06	0.78
TY 5600E 4750NB	201	202	< 5	< 0.2	6.33	1140	1.5	< 2	0.58	< 0.5	8	50	34	2.96	2.62	0.92
TY 5600E 4775N	201	202	< 5	< 0.2	6.03	1210	1.5	< 2	0.35	< 0.5	4	44	18	1.95	2.40	0.78
TY 5600E 4800N	201	202	< 5	< 0.2	6.32	1280	1.5	2	0.44	< 0.5	6	44	27	2.87	2.55	0.96
TY 5600E 4825N	201	202	< 5	1.0	7.09	1080	1.5	2	1.10	< 0.5	11	37	29	2.54	2.18	0.72
TY 5600E 4850N	201	202	< 5	< 0.2	7.16	1200	1.5	< 2	0.76	< 0.5	18	73	48	4.30	2.73	1.49
TY 5600E 4875N	201	202	< 5	< 0.2	7.29	1160	1.5	2	0.54	< 0.5	7	61	26	2.89	2.44	1.15
TY 5600E 4900N	201	202	< 5	< 0.2	6.76	1130	1.5	< 2	0.63	< 0.5	9	55	31	3.45	2.53	1.21
TY 5600E 4925N	201	202	< 5	< 0.2	6.62	1120	1.0	< 2	0.86	< 0.5	11	42	29	3.10	2.26	1.01
TY 5600E 4950N	201	202	< 5	< 0.2	7.54	1380	1.5	2	0.80	< 0.5	24	59	33	4.00	2.85	1.38
TY 5600E 4975N	201	202	< 5	< 0.2	6.75	1120	1.5	< 2	0.48	< 0.5	7	50	26	3.10	2.47	0.93
TY 5600E 5000N	201	202	< 5	< 0.2	7.04	1240	1.5	< 2	0.61	< 0.5	12	55	34	3.82	2.82	1.26
[redacted]	201	202	< 5	< 0.2	6.39	1170	1.5	< 2	0.56	< 0.5	7	38	19	2.39	2.71	0.67
	201	202	< 5	< 0.2	6.95	1490	2.0	2	0.38	< 0.5	8	29	17	2.40	3.19	0.71
	201	202	< 5	0.6	7.79	1520	2.5	< 2	0.47	< 0.5	8	36	35	2.71	3.48	0.85
[redacted]	201	202	< 5	< 0.2	7.03	1230	2.0	< 2	0.51	< 0.5	8	37	22	2.62	3.06	0.76
	201	202	< 5	< 0.2	9.18	1810	2.5	< 2	0.32	< 0.5	16	64	20	3.63	4.45	1.15
	201	202	< 5	< 0.2	9.91	1270	3.0	< 2	0.15	< 0.5	7	12	26	3.25	3.81	0.88
	201	202	< 5	< 0.2	8.91	950	2.0	< 2	0.09	< 0.5	4	18	5	1.65	2.92	0.71
	201	202	< 5	< 0.2	8.70	900	3.0	2	0.80	< 0.5	7	8	32	2.56	3.37	0.72

CERTIFICATION: Hart Bichler

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To: WESTMIN RESOURCES LTD.
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VANCOUVER, BC
V7X 1C4

Project : TY
Comments: ATTN: DAVID TERRY

Page Number : 5-B
Total Pages : 8
Certificate Date: 20-AUG-96
Invoice No. : I9627301
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9627301

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
[redacted]	201	202	375	1	1.70	6	670	10	203	0.41	94	< 10	52			
	201	202	2050	11	1.34	19	1610	36	283	0.23	81	< 10	390			
	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
	201	202	305	< 1	1.96	4	830	10	272	0.30	65	< 10	42			
	201	202	315	1	2.23	3	350	6	358	0.27	54	< 10	44			
	201	202	965	3	1.27	5	2180	14	389	0.16	36	< 10	38			
	201	202	405	2	1.63	8	600	10	277	0.31	76	< 10	54			
	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
TY 5600E 4475N	201	202	350	1	2.76	1	420	8	517	0.19	33	< 10	46			
	201	202	420	1	1.61	10	720	12	282	0.41	73	< 10	54			
TY 5600E 4500N	201	202	360	2	2.62	3	690	10	513	0.23	39	< 10	50			
TY 5600E 4525N	201	202	240	1	1.64	3	450	4	210	0.39	67	< 10	38			
TY 5600E 4550N	201	202	745	4	0.83	29	1090	52	98	0.46	110	< 10	102			
TY 5600E 4575N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
TY 5600E 4600N	201	202	420	4	0.98	10	510	24	119	0.34	92	< 10	66			
TY 5600E 4625N	201	202	470	4	0.92	16	510	44	116	0.35	105	< 10	86			
TY 5600E 4650N	201	202	565	5	0.96	15	880	46	135	0.34	112	< 10	82			
TY 5600E 4675N	201	202	425	3	1.25	12	750	14	165	0.45	100	< 10	48			
TY 5600E 4700N	201	202	645	2	1.28	18	800	22	145	0.50	119	< 10	72			
TY 5600E 4725N	201	202	850	3	1.20	28	920	32	155	0.46	115	< 10	84			
EY 5600E 4750NA	201	202	280	4	0.84	7	510	24	49	0.30	85	< 10	58			
TY 5600E 4750NB	201	202	410	4	1.05	14	820	34	133	0.30	98	< 10	68			
TY 5600E 4775N	201	202	270	5	1.09	9	920	18	106	0.31	108	< 10	44			
TY 5600E 4800N	201	202	375	5	1.07	17	870	22	111	0.35	113	< 10	62			
TY 5600E 4825N	201	202	600	3	1.63	11	1240	28	299	0.25	85	< 10	62			
TY 5600E 4850N	201	202	860	2	1.16	24	1150	38	151	0.35	136	< 10	90			
TY 5600E 4875N	201	202	380	5	1.11	14	950	18	154	0.26	141	< 10	62			
TY 5600E 4900N	201	202	505	4	1.17	19	830	30	137	0.34	118	< 10	72			
TY 5600E 4925N	201	202	525	3	1.44	17	970	32	218	0.30	88	< 10	78			
TY 5600E 4950N	201	202	1075	4	1.25	25	1040	34	168	0.36	122	< 10	94			
TY 5600E 4975N	201	202	470	5	1.01	17	930	28	136	0.28	111	< 10	74			
TY 5600E 5000N	201	202	680	4	1.14	22	980	34	128	0.35	104	< 10	90			
[redacted]	201	202	405	3	1.35	13	700	40	118	0.28	64	< 10	94			
	201	202	500	1	1.32	8	590	62	100	0.25	56	< 10	88			
	201	202	550	4	1.14	13	650	76	109	0.27	57	< 10	112			
	201	202	470	2	1.30	10	670	74	106	0.25	59	< 10	120			
	201	202	730	2	1.20	26	530	72	93	0.38	89	< 10	120			
	201	202	490	6	2.02	1	450	24	67	0.24	55	< 10	152			
	201	202	265	1	2.16	1	310	4	64	0.27	47	< 10	50			
	201	202	1025	3	1.70	3	460	56	234	0.19	33	< 10	156			

CERTIFICATION: Hart Bichler

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V7X 1C4

Project : TY
Comments: ATTN: DAVID TERRY

Certificate Date: 20-AUG-96
Invoice No. :I9627301
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627301

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
[redacted]	201	202	< 5	< 0.2	10.35	1180	3.5	< 2	0.14	< 0.5	10	7	16	2.42	4.83	0.97
	201	202	< 5	< 0.2	9.51	990	2.5	< 2	0.10	< 0.5	6	10	23	2.44	3.70	0.78
	201	202	< 5	< 0.2	8.54	1140	1.5	< 2	0.87	< 0.5	7	19	37	2.67	2.81	0.81
	201	202	< 5	0.4	8.95	2500	2.0	2	0.61	< 0.5	9	50	123	4.99	3.81	1.20
	201	202	< 5	< 0.2	11.25	2710	3.0	< 2	0.08	< 0.5	12	74	47	5.55	3.90	1.55
	201	202	< 5	1.0	11.20	2940	2.5	2	0.04	< 0.5	8	16	53	6.96	5.71	1.31
	201	202	< 5	0.4	10.95	2200	2.0	2	0.04	< 0.5	7	54	154	6.53	3.95	0.86
	201	202	< 5	1.0	9.59	1780	1.5	2	0.38	< 0.5	4	67	44	4.93	3.70	1.72
	201	202	< 5	< 0.2	10.10	2330	2.0	4	0.14	< 0.5	7	47	115	5.41	4.11	1.31
	201	202	150	0.6	11.70	2640	2.5	4	0.14	< 0.5	2	138	15	3.89	4.70	2.79
	201	202	< 5	0.8	7.34	1770	0.5	4	0.68	< 0.5	12	104	420	8.45	2.77	2.05
	201	202	< 5	< 0.2	7.26	1080	1.5	< 2	1.43	0.5	19	75	82	4.65	2.83	1.72
	201	202	< 5	< 0.2	6.70	1000	1.5	2	0.85	< 0.5	16	53	44	3.55	2.98	1.30
	201	202	< 5	< 0.2	7.52	970	1.5	< 2	0.74	< 0.5	28	100	71	5.79	2.54	1.77
	201	202	< 5	< 0.2	7.96	1100	1.5	< 2	0.81	< 0.5	10	64	29	4.27	2.80	1.21
[redacted]	201	202	< 5	0.6	7.60	910	1.0	2	0.92	< 0.5	9	43	24	3.01	2.25	1.00
TY 5800E 4475N	201	202	< 5	< 0.2	7.30	930	1.0	< 2	1.16	< 0.5	5	39	10	2.04	2.19	0.94
TY 5800E 4500N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5800E 4525N	201	202	< 5	< 0.2	7.99	1670	1.5	< 2	0.27	< 0.5	5	31	19	2.72	3.06	0.93
TY 5800E 4550N	201	202	< 5	< 0.2	7.78	1810	1.5	< 2	0.22	< 0.5	5	32	20	2.89	3.15	1.03
TY 5800E 4575N	201	202	< 5	< 0.2	7.57	1060	1.5	< 2	0.73	< 0.5	10	42	35	2.95	2.69	0.93
TY 5800E 4600N	201	202	< 5	< 0.2	7.02	1150	1.5	2	0.50	< 0.5	9	44	28	3.66	2.64	1.01
TY 5800E 4625N	201	202	< 5	< 0.2	6.84	1180	1.5	< 2	0.45	< 0.5	8	38	30	3.63	2.73	1.00
TY 5800E 4650N	201	202	< 5	< 0.2	7.12	1290	1.5	2	0.50	< 0.5	10	37	36	3.41	2.99	1.03
TY 5800E 4675N	201	202	< 5	< 0.2	6.90	1100	1.5	< 2	0.54	< 0.5	6	44	16	2.56	2.52	0.79
TY 5800E 4700N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5800E 4725N	201	202	< 5	< 0.2	6.64	1250	1.0	< 2	0.45	< 0.5	6	44	17	2.82	2.22	0.82
TY 5800E 4750N	201	202	< 5	1.0	6.39	900	0.5	< 2	1.09	< 0.5	5	29	20	1.80	1.84	0.59
TY 5800E 4775N	201	202	< 5	0.4	7.49	1380	1.5	2	0.68	< 0.5	17	62	44	4.22	2.67	1.22
	201	202	< 5	< 0.2	7.06	1020	1.5	< 2	0.89	< 0.5	5	18	20	1.86	2.42	0.59
[redacted]	201	202	< 5	< 0.2	8.98	1090	2.5	< 2	0.09	< 0.5	5	12	37	2.45	3.87	0.58
	201	202	< 5	< 0.2	7.96	1090	2.0	< 2	0.15	< 0.5	5	17	11	1.67	2.53	0.60
	201	202	< 5	0.4	9.08	1250	1.5	2	0.05	< 0.5	5	10	54	3.54	3.55	0.45
	201	202	< 5	0.8	7.67	830	2.0	< 2	0.20	1.0	5	15	25	2.47	2.96	0.56
	201	202	< 5	0.4	7.79	1000	1.5	< 2	0.22	< 0.5	4	6	8	1.86	3.21	0.48
	201	202	< 5	< 0.2	8.97	970	2.0	< 2	0.09	< 0.5	5	14	21	2.47	3.63	0.71
	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
	201	202	< 5	< 0.2	9.16	1310	2.5	< 2	0.16	< 0.5	7	20	30	3.13	3.74	0.84
	201	202	< 5	0.4	7.65	920	1.5	< 2	1.16	< 0.5	6	14	38	2.05	2.14	0.55
	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : TY
Comments: ATTN: DAVID TERRY

Certificate Date: 20-AUG-96
Invoice No. : I9627301
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9627301

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
[redacted]	201 202	755	3	1.25	3	430	56	60	0.15	33	< 10	114
	201 202	330	5	1.51	2	480	160	64	0.15	33	< 10	190
	201 202	315	6	1.61	4	440	14	250	0.25	72	< 10	64
	201 202	440	8	0.74	7	820	372	171	0.32	98	< 10	294
	201 202	700	4	0.43	26	730	46	48	0.49	133	< 10	78
	201 202	565	6	0.49	3	1350	300	240	0.26	67	< 10	138
	201 202	565	12	0.35	9	1280	112	173	0.32	248	< 10	558
	201 202	1045	5	0.69	3	870	304	148	0.29	172	< 10	318
	201 202	995	15	0.43	8	1090	150	123	0.32	163	< 10	324
	201 202	760	12	0.47	10	280	104	56	0.46	237	< 10	220
	201 202	615	21	0.44	22	860	70	81	0.30	126	< 10	170
	201 202	1105	5	1.14	29	1050	48	221	0.38	103	< 10	188
	201 202	1405	4	1.05	15	970	44	152	0.29	81	< 10	158
	201 202	1690	4	1.01	49	860	48	133	0.47	125	< 10	110
	201 202	655	2	1.37	18	600	24	182	0.44	124	< 10	74
TY 5800E 4450N	201 202	525	4	1.75	13	570	12	252	0.35	99	< 10	68
TY 5800E 4475N	201 202	430	2	1.54	4	580	4	242	0.38	86	< 10	50
TY 5800E 4500N	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5800E 4525N	201 202	290	5	0.97	7	500	36	83	0.32	93	< 10	58
TY 5800E 4550N	201 202	300	5	0.88	8	510	42	73	0.30	93	< 10	70
TY 5800E 4575N	201 202	510	3	1.16	16	630	26	192	0.37	88	< 10	74
TY 5800E 4600N	201 202	450	4	0.97	12	620	38	115	0.31	94	< 10	82
TY 5800E 4625N	201 202	455	5	0.96	11	640	36	112	0.29	86	< 10	80
TY 5800E 4650N	201 202	550	3	1.02	14	750	46	113	0.29	85	< 10	84
TY 5800E 4675N	201 202	380	3	1.07	11	420	24	135	0.32	103	< 10	58
TY 5800E 4700N	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5800E 4725N	201 202	415	5	0.99	9	500	20	114	0.37	107	< 10	62
TY 5800E 4750N	201 202	325	3	1.72	5	970	14	304	0.28	64	< 10	42
TY 5800E 4775N	201 202	1470	3	1.07	20	1170	50	125	0.41	104	< 10	114
[redacted]	201 202	280	2	1.68	3	850	28	270	0.24	48	< 10	54
	201 202	245	1	0.98	1	450	42	47	0.21	31	< 10	86
	201 202	285	3	1.24	< 1	490	16	78	0.23	41	< 10	74
	201 202	270	5	1.81	2	610	116	109	0.16	36	< 10	124
	201 202	405	3	1.22	1	1000	86	87	0.16	41	< 10	146
	201 202	245	3	1.24	1	600	164	113	0.16	32	< 10	68
	201 202	365	3	1.38	1	360	28	72	0.21	43	< 10	130
	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
	201 202	450	5	1.27	3	810	36	75	0.24	59	< 10	108
	201 202	360	3	2.02	< 1	990	96	357	0.17	38	< 10	66
	-- --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION: Stewart Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : TY
Comments: ATTN: DAVID TERRY

Page Number :7-A
Total Pages :8
Certificate Date: 20-AUG-96
Invoice No. :I9627301
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627301

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
[redacted]	201 202	< 5	< 0.2	6.15	1250	1.0	2	0.59	< 0.5	13	44	119	3.61	2.01	0.46
	201 202	< 5	< 0.2	7.35	850	1.0	< 2	1.08	< 0.5	6	13	61	1.66	1.99	0.49
	201 202	< 5	0.6	7.86	1160	1.5	< 2	1.03	< 0.5	6	35	125	1.67	2.43	0.58
	201 202	< 5	< 0.2	7.94	1330	1.5	< 2	0.29	< 0.5	7	54	111	2.66	2.73	0.58
	201 202	< 5	< 0.2	8.28	1260	1.5	< 2	0.38	< 0.5	6	32	57	3.02	2.39	0.68
	201 202	< 5	< 0.2	10.95	1330	1.0	< 2	0.12	< 0.5	6	19	652	2.45	3.13	0.66
TY 6000E 4825N	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 6000E 4850N	201 202	< 5	0.4	6.39	1310	0.5	2	1.40	< 0.5	33	43	43	2.63	1.82	0.86
TY 6000E 4875N	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 6000E 4900N	201 202	< 5	< 0.2	7.33	1390	1.5	< 2	0.82	< 0.5	15	61	46	4.11	2.58	1.25
TY 6000E 4925N	201 202	< 5	0.8	7.74	1470	1.5	< 2	0.76	< 0.5	9	68	34	3.81	2.65	1.45
TY 6000E 4950N	201 202	< 5	0.6	6.44	1110	1.0	2	0.84	< 0.5	6	42	22	2.14	2.17	0.88
TY 6000E 4975N	201 202	< 5	0.6	7.22	1280	1.5	< 2	0.90	< 0.5	8	68	24	3.46	2.63	1.38
TY 6000E 5000N	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
[redacted]	201 202	< 5	< 0.2	8.66	2100	1.5	4	0.37	< 0.5	12	72	174	5.74	3.12	1.58
	201 202	< 5	0.6	6.93	1460	1.0	2	0.75	< 0.5	18	98	102	5.90	2.06	2.12
	201 202	< 5	< 0.2	10.15	2210	2.0	2	0.82	< 0.5	8	50	84	4.73	3.75	1.29
	201 202	< 5	< 0.2	8.09	1190	1.0	< 2	0.32	< 0.5	7	48	58	3.54	2.28	0.78
	201 202	< 5	< 0.2	8.17	1300	1.0	< 2	0.22	< 0.5	8	65	152	5.92	2.46	0.96
	201 202	< 5	0.2	8.51	1780	1.5	< 2	0.20	< 0.5	7	50	216	6.24	2.70	0.91
	201 202	< 5	0.4	8.70	2000	1.5	< 2	0.20	< 0.5	7	43	83	5.27	3.04	0.92
	201 202	< 5	< 0.2	7.59	1310	1.0	2	0.72	< 0.5	7	43	47	3.24	2.34	0.87
	201 202	< 5	< 0.2	8.87	2450	2.0	< 2	0.29	< 0.5	6	28	73	2.64	3.03	0.77
	201 202	< 5	< 0.2	7.98	1630	1.5	2	0.24	< 0.5	7	42	73	2.76	2.71	0.70
	201 202	< 5	< 0.2	7.48	1510	1.5	< 2	0.29	< 0.5	9	37	71	3.90	2.56	0.84
	201 202	< 5	0.4	8.31	1610	1.5	< 2	0.38	< 0.5	7	36	140	3.97	2.58	0.86
	201 202	< 5	0.8	9.12	1910	1.5	< 2	0.28	< 0.5	7	36	125	4.35	3.04	0.93
	201 202	< 5	0.2	8.77	1670	1.5	< 2	0.43	< 0.5	9	54	134	4.05	2.54	0.93
	201 202	< 5	0.2	8.82	2180	2.0	< 2	0.26	< 0.5	5	37	71	2.63	2.93	0.91
	201 202	< 5	0.6	7.71	1540	1.0	< 2	0.37	< 0.5	6	48	153	4.92	2.53	0.81
	201 202	< 5	0.8	8.14	1270	1.5	2	0.50	< 0.5	11	49	146	4.47	2.51	0.91
	201 202	< 5	< 0.2	7.54	1280	1.5	2	0.25	< 0.5	7	47	56	3.13	2.33	0.73
	201 202	< 5	< 0.2	7.31	1130	1.0	< 2	0.32	< 0.5	8	35	43	2.57	2.14	0.58
	201 202	40	< 0.2	8.61	1040	0.5	4	0.15	< 0.5	5	35	189	4.80	2.72	0.78
	201 202	5	< 0.2	8.85	1290	1.5	< 2	0.33	< 0.5	8	63	170	5.37	2.85	1.15
	201 202	< 5	< 0.2	8.05	1440	1.5	< 2	0.48	< 0.5	17	77	182	5.85	2.82	1.30
	201 202	5	< 0.2	8.45	1300	1.5	< 2	1.11	< 0.5	17	77	244	5.57	2.64	1.60
	201 202	< 5	< 0.2	9.61	2420	2.5	< 2	0.14	< 0.5	13	13	49	4.17	5.30	1.55
	201 202	< 5	< 0.2	7.43	1420	1.0	< 2	0.44	< 0.5	7	115	78	3.73	2.46	1.32
	201 202	< 5	3.0	8.19	1820	1.0	14	0.47	< 0.5	6	86	58	3.63	2.54	1.95

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : TY
Comments: ATTN: DAVID TERRY

Page Number :7-B
Total Pages :8
Certificate Date: 20-AUG-96
Invoice No. :I9627301
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627301

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
[redacted]	201	202	435	11	1.13	28	1000	14	306	0.22	162	< 10	98
	201	202	305	3	2.20	2	630	8	359	0.26	65	< 10	52
	201	202	305	3	1.73	7	1320	20	336	0.22	96	< 10	56
	201	202	325	8	0.90	12	1190	30	129	0.27	158	< 10	76
	201	202	695	9	1.13	8	1100	46	148	0.22	103	< 10	132
[redacted]	201	202	215	77	0.56	4	950	32	92	0.10	154	< 10	104
TY 6000E 4825N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 6000E 4850N	201	202	6570	4	1.71	20	1340	50	344	0.23	68	< 10	62
TY 6000E 4875N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 6000E 4900N	201	202	1465	5	1.19	18	1110	24	171	0.31	151	< 10	84
TY 6000E 4925N	201	202	585	3	1.15	20	1420	24	140	0.35	129	< 10	86
TY 6000E 4950N	201	202	370	1	1.41	10	1070	12	219	0.26	78	< 10	50
TY 6000E 4975N	201	202	595	3	1.23	19	1080	20	150	0.40	118	< 10	72
TY 6000E 5000N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
[redacted]	201	202	1000	10	0.75	27	1360	76	83	0.56	156	< 10	126
[redacted]	201	202	2060	7	0.84	50	1730	58	75	0.76	166	< 10	130
	201	202	615	7	1.11	14	950	84	207	0.28	122	< 10	152
	201	202	405	12	0.96	8	550	34	80	0.36	134	< 10	80
	201	202	500	15	0.78	17	880	36	64	0.33	126	< 10	102
	201	202	375	13	0.73	12	830	28	70	0.32	113	< 10	94
[redacted]	201	202	315	13	0.82	10	750	26	73	0.34	122	< 10	90
	201	202	415	7	1.27	9	800	18	187	0.40	110	< 10	70
	201	202	220	6	1.76	3	680	6	126	0.35	86	< 10	48
	201	202	280	9	1.05	7	650	16	80	0.37	118	< 10	76
	201	202	570	7	1.28	18	1170	36	116	0.31	113	< 10	112
[redacted]	201	202	300	13	1.13	7	920	38	118	0.29	92	< 10	78
	201	202	350	10	1.01	8	940	28	104	0.27	106	< 10	108
	201	202	320	11	0.91	10	730	12	103	0.36	140	< 10	80
	201	202	235	9	0.90	6	480	10	92	0.32	105	< 10	70
	201	202	280	15	1.04	8	1160	86	120	0.30	117	< 10	70
[redacted]	201	202	445	15	1.25	14	580	48	158	0.33	98	< 10	118
	201	202	345	10	0.95	12	650	22	83	0.38	133	< 10	72
	201	202	360	10	1.31	13	630	12	120	0.40	126	< 10	66
	201	202	270	41	0.62	5	940	46	65	0.21	135	< 10	94
	201	202	500	17	0.94	10	760	90	102	0.30	135	< 10	128
[redacted]	201	202	1160	9	0.91	26	1150	88	92	0.36	142	< 10	162
	201	202	935	17	1.22	24	1070	72	176	0.27	134	< 10	136
	201	202	1155	29	0.24	8	1290	88	35	0.32	51	< 10	56
	201	202	555	6	0.66	24	1060	40	160	0.23	196	< 10	108
	201	202	660	11	0.91	16	1000	832	159	0.31	173	< 10	182

CERTIFICATION: Hart Bichler

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SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
[redacted]	201	202	< 5	1.4	8.62	1670	1.5	4	0.42	< 0.5	7	104	121	3.66	2.53	1.28
TY 6400E 4475N	201	202	< 5	< 0.2	7.59	1270	1.0	6	0.50	< 0.5	6	64	44	3.27	2.57	1.01
TY 6400E 4500N	201	202	< 5	0.6	8.13	1470	1.5	< 2	0.85	< 0.5	5	46	39	3.33	3.04	0.98
TY 6400E 4525N	201	202	< 5	< 0.2	7.14	1270	1.0	< 2	0.98	< 0.5	7	63	47	3.11	2.30	1.01

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[redacted]	201	202	475	15	0.63	17	1450	516	167	0.27	259	< 10	144			
TY 6400E 4475N	201	202	320	12	0.81	8	1050	176	130	0.29	153	< 10	76			
TY 6400E 4500N	201	202	395	7	1.50	8	1090	46	264	0.35	91	< 10	52			
TY 6400E 4525N	201	202	390	9	1.12	10	1040	80	191	0.31	121	< 10	66			

CERTIFICATION: Ivan Bichler

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VANCOUVER, BC
V7X 1C4

A9627788

Comments: ATTN: DAVID TERRY

CERTIFICATE A9627788

(GP W) - WESTMIN RESOURCES LTD.

Project:
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 27-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	166	Dry, sieve to -80 mesh
202	166	save reject
285	166	ICP - HF digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	166	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
578	165	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	166	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	166	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	166	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	166	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	166	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	166	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	166	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	166	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	166	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	166	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	166	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	166	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	166	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	166	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	166	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	166	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	166	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	165	Pb ppm: 24 element, rock & core	AAS	2	10000
582	166	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	166	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	166	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	166	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	166	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project :
Comments: ATTN: DAVID TERRY

Page Number :1-A
Total Pages :5
Certificate Date: 27-AUG-96
Invoice No. :19627788
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627788

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
130351	201	202	10	< 0.2	4.73	1900	1.0	2	0.67	0.5	12	79	67	3.57	1.78	0.84
130352	201	202	< 5	< 0.2	4.48	1880	1.0	< 2	0.43	0.5	15	70	85	3.86	1.71	0.79
130353	201	202	< 5	< 0.2	5.51	2450	1.5	< 2	0.33	< 0.5	11	65	71	3.80	2.30	0.75
130354	201	202	< 5	< 0.2	4.27	1620	1.0	< 2	0.40	1.0	12	49	66	3.38	1.37	0.44
130355	201	202	< 5	< 0.2	3.52	1480	0.5	< 2	0.30	< 0.5	13	58	62	2.80	1.39	0.37
130356	201	202	< 5	< 0.2	4.43	1600	1.0	< 2	0.52	< 0.5	10	72	58	3.48	1.63	0.64
130357	201	202	< 5	0.4	3.56	1180	0.5	< 2	0.66	< 0.5	12	43	51	2.45	1.04	0.45
130358	201	202	< 5	< 0.2	4.90	1770	1.5	2	0.66	0.5	14	77	62	3.76	1.66	0.92
130359	201	202	< 5	< 0.2	4.27	1300	0.5	< 2	0.75	< 0.5	9	40	47	2.44	1.35	0.51
130360	201	202	< 5	< 0.2	4.08	1340	0.5	< 2	0.58	< 0.5	15	66	64	4.09	1.30	0.72
130361	201	202	< 5	< 0.2	4.20	1870	1.0	< 2	0.52	< 0.5	14	68	75	3.31	1.72	0.53
130362	201	202	< 5	< 0.2	2.73	1540	0.5	< 2	0.23	0.5	14	34	64	1.87	1.06	0.24
130363	201	202	< 5	< 0.2	5.49	1340	1.0	< 2	0.98	< 0.5	11	46	43	2.78	1.79	0.71
130364	201	202	< 5	< 0.2	4.86	1460	1.0	< 2	0.76	< 0.5	13	76	62	3.72	1.60	0.88
130365	201	202	< 5	< 0.2	5.27	1190	1.0	4	0.86	0.5	7	41	47	2.29	1.65	0.56
130366	201	202	< 5	< 0.2	5.06	1440	1.0	2	0.64	< 0.5	9	49	50	2.94	1.76	0.53
130367	201	202	< 5	< 0.2	4.19	1280	1.0	2	0.50	0.5	14	57	43	3.50	1.29	0.71
130368	201	202	< 5	< 0.2	4.00	1490	1.0	< 2	0.50	1.5	12	62	54	3.17	1.39	0.57
130369	201	202	< 5	< 0.2	4.49	1770	1.0	< 2	0.55	1.5	14	74	55	3.08	1.65	0.64
130370	201	202	< 5	0.4	3.56	2350	0.5	< 2	0.33	4.0	50	47	48	2.45	1.15	0.28
130371	201	202	< 5	< 0.2	4.22	1820	1.0	< 2	0.35	< 0.5	14	64	56	3.13	1.89	0.54
130372	201	202	< 5	< 0.2	3.69	2180	1.0	< 2	0.25	2.0	11	47	54	2.43	1.61	0.40
130373	201	202	< 5	< 0.2	4.02	1930	1.0	< 2	0.29	0.5	20	54	46	2.59	1.63	0.42
130374	201	202	< 5	< 0.2	4.62	1200	1.0	< 2	0.58	< 0.5	14	69	44	3.67	1.42	0.79
130375	201	202	< 5	< 0.2	4.23	1160	0.5	< 2	0.53	< 0.5	12	59	47	3.34	1.37	0.67
130376	201	202	< 5	1.0	4.41	1140	0.5	< 2	0.75	1.0	9	42	62	2.51	1.35	0.52
130377	201	202	< 5	< 0.2	3.90	2120	1.0	< 2	0.21	< 0.5	15	47	51	2.58	1.74	0.46
130378	201	202	< 5	< 0.2	4.79	1970	1.0	< 2	0.54	1.5	23	47	49	2.78	1.78	0.54
130379	201	202	< 5	< 0.2	4.03	1420	0.5	< 2	0.30	< 0.5	17	63	59	3.75	1.36	0.68
130380	201	202	< 5	< 0.2	4.51	2080	1.0	< 2	0.31	< 0.5	15	60	55	3.09	1.83	0.62
130381	201	202	< 5	< 0.2	4.08	1250	0.5	< 2	0.31	< 0.5	11	81	50	3.38	1.40	0.51
130382	201	202	< 5	< 0.2	5.43	1230	0.5	< 2	0.98	< 0.5	10	36	30	2.33	1.79	0.55
130383	201	202	< 5	< 0.2	4.54	1140	1.0	< 2	0.53	< 0.5	11	57	44	3.10	1.48	0.54
130384	201	202	< 5	< 0.2	7.24	780	0.5	< 2	2.12	< 0.5	8	12	18	2.15	1.98	0.83
130385	201	202	< 5	< 0.2	6.18	1000	0.5	< 2	1.29	< 0.5	7	28	25	2.08	1.95	0.56
130386	201	202	< 5	< 0.2	6.23	1210	0.5	< 2	1.56	< 0.5	16	19	23	2.27	1.88	0.66
130387	201	202	< 5	< 0.2	6.16	1170	1.0	< 2	1.38	< 0.5	14	17	22	1.92	1.97	0.55
130388	201	202	< 5	0.2	5.24	1710	1.0	< 2	0.74	< 0.5	17	83	46	4.22	1.53	1.12
130389	201	202	< 5	< 0.2	4.97	1320	1.0	< 2	0.79	0.5	16	73	66	4.27	1.39	1.01
130390	201	202	< 5	< 0.2	5.08	1430	1.0	< 2	0.78	1.5	12	82	54	4.43	1.46	1.11

CERTIFICATION: Ivan Bichler

Chemex Labs Ltd.

*Analytical Chemists * Geochemists * Registered Assayers*

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CERTIFICATE OF ANALYSIS A9627788

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
130351	201	202	500	5	0.67	44	1370	36	102	0.46	137	< 10	122			
130352	201	202	1380	5	0.51	44	3020	32	65	0.39	150	< 10	112			
130353	201	202	670	5	0.60	36	1670	18	66	0.38	155	< 10	122			
130354	201	202	2300	4	0.76	29	3400	24	86	0.27	110	< 10	106			
130355	201	202	1980	4	0.46	28	3900	40	60	0.32	116	< 10	104			
130356	201	202	495	4	0.67	40	2480	22	95	0.39	168	< 10	118			
130357	201	202	1775	4	0.60	23	4280	24	108	0.29	96	< 10	62			
130358	201	202	850	4	0.86	47	1820	24	103	0.48	169	< 10	140			
130359	201	202	570	4	1.10	25	3160	16	183	0.38	101	< 10	94			
130360	201	202	570	4	0.70	43	1520	42	96	0.61	124	< 10	112			
130361	201	202	1315	6	0.60	41	1270	32	101	0.56	147	< 10	144			
130362	201	202	4160	3	0.37	26	1140	36	46	0.19	75	< 10	132			
130363	201	202	1600	3	1.47	23	2230	20	249	0.37	98	< 10	88			
130364	201	202	1380	5	0.87	39	2090	30	118	0.50	135	< 10	112			
130365	201	202	635	3	1.46	23	2220	34	233	0.29	76	< 10	84			
130366	201	202	760	3	1.09	25	2470	20	177	0.37	111	< 10	94			
130367	201	202	1110	3	0.63	29	3610	36	85	0.33	98	< 10	94			
130368	201	202	1305	3	0.72	36	4890	20	87	0.43	110	< 10	104			
130369	201	202	2050	4	0.79	37	4220	28	88	0.48	135	< 10	130			
130370	201	202	>10000	7	0.60	23	8080	62	71	0.31	94	< 10	158			
130371	201	202	2110	6	0.39	36	2430	30	60	0.31	172	< 10	118			
130372	201	202	3740	3	0.43	28	2090	20	56	0.19	153	< 10	126			
130373	201	202	5660	4	0.58	28	4460	36	73	0.35	117	< 10	112			
130374	201	202	1115	3	0.90	35	2980	42	94	0.51	107	< 10	106			
130375	201	202	575	3	0.89	33	2150	20	99	0.51	96	< 10	102			
130376	201	202	500	3	0.99	30	2340	34	172	0.32	92	< 10	82			
130377	201	202	4360	5	0.45	23	2180	34	42	0.27	111	< 10	92			
130378	201	202	5720	4	0.90	24	1720	50	148	0.33	113	< 10	110			
130379	201	202	1965	4	0.50	42	2650	20	64	0.33	98	< 10	110			
130380	201	202	3060	4	0.49	31	1720	20	72	0.27	140	< 10	96			
130381	201	202	625	3	0.49	39	1990	32	70	0.35	106	< 10	92			
130382	201	202	1735	2	1.39	18	1860	16	269	0.27	97	< 10	74			
130383	201	202	755	2	0.85	30	1840	38	135	0.35	101	< 10	98			
130384	201	202	395	1	2.71	7	890	6	588	0.26	59	< 10	52			
130385	201	202	1055	2	1.94	10	1840	18	384	0.27	74	< 10	62			
130386	201	202	4310	3	2.11	9	1320	28	442	0.28	76	< 10	74			
130387	201	202	4080	3	2.11	6	1790	14	412	0.24	59	< 10	72			
130388	201	202	1710	4	1.27	35	3340	24	94	0.70	125	< 10	102			
130389	201	202	1080	4	1.00	39	2760	30	108	0.70	124	< 10	120			
130390	201	202	970	3	1.16	41	3770	22	102	0.70	124	< 10	108			

CERTIFICATION: Ian Bachlet

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project :
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Page Number :2-A
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CERTIFICATE OF ANALYSIS A9627788

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
131984	201	202	< 5	< 0.2	6.60	1420	1.5	< 2	1.22	< 0.5	12	53	31	3.73	2.07	1.01
131985	201	202	< 5	< 0.2	6.47	1370	1.0	< 2	1.41	< 0.5	12	49	29	3.96	1.89	1.14
131986	201	202	< 5	< 0.2	7.42	910	1.0	< 2	1.96	< 0.5	8	12	17	1.97	2.21	0.72
131987	201	202	< 5	< 0.2	6.44	1090	1.0	< 2	1.28	< 0.5	8	28	26	2.34	1.98	0.64
131988	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
131989	201	202	< 5	< 0.2	5.69	1590	1.0	< 2	0.74	0.5	8	62	35	3.32	1.90	0.67
131990	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
131991	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
131992	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
131993	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
131994	201	202	< 5	< 0.2	5.91	1500	1.0	< 2	1.47	0.5	14	74	52	4.57	1.60	1.10
131995	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
131996	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
131997	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
131998	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
131999	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
132000	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
132732	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
132733	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
132734	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
132735	201	202	< 5	< 0.2	4.27	3740	1.0	< 2	0.25	< 0.5	6	77	48	2.50	1.81	0.56
132736	201	202	< 5	0.8	4.75	2440	1.0	< 2	0.47	0.5	11	87	77	3.85	1.75	0.67
132737	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
132738	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
132739	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
132740	201	202	< 5	< 0.2	6.32	2290	1.5	< 2	0.90	< 0.5	7	53	44	2.38	2.11	0.51
132741	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
132742	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
132743	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
132744	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
132745	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
132746	201	202	< 5	< 0.2	5.43	1960	1.0	< 2	0.30	< 0.5	7	66	36	2.58	2.11	0.57
132747	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
132748	201	202	10	0.8	6.34	4510	2.0	< 2	0.99	3.0	16	148	158	3.68	2.27	1.06
132749	201	202	< 5	< 0.2	7.55	3310	1.5	< 2	1.42	0.5	12	59	66	3.35	2.56	0.81
132750	201	202	< 5	< 0.2	6.81	6390	2.0	< 2	0.69	< 0.5	8	113	72	2.73	2.48	0.51
132751	201	202	< 5	1.0	4.90	3070	1.5	< 2	0.52	0.5	9	127	62	2.96	1.66	0.46
132752	201	202	10	0.6	5.00	9650	2.5	< 2	0.17	1.0	14	262	212	6.50	1.60	0.33
132753	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
132754	201	202	< 5	0.6	6.78	8890	2.5	< 2	0.12	1.0	13	202	117	3.86	2.90	0.54

CERTIFICATION:

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131984	201	202	985	1	1.75	23	1540	22	277	0.49	111	< 10	138			
131985	201	202	885	1	1.46	21	1380	26	232	0.41	122	< 10	114			
131986	201	202	600	1	2.84	4	650	10	578	0.25	53	< 10	60			
131987	201	202	710	2	2.10	12	1440	16	370	0.34	73	< 10	72			
131988	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
131989	201	202	840	3	1.23	26	1530	20	149	0.68	139	< 10	140			
131990	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
131991	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
131992	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
131993	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
131994	201	202	1070	4	1.55	29	1710	22	242	0.70	139	< 10	118			
131995	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
131996	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
131997	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
131998	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
131999	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
132000	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
132732	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
132733	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
132734	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
132735	201	202	715	6	0.47	34	1260	16	66	0.28	209	< 10	140			
132736	201	202	290	9	0.64	76	1220	24	117	0.32	192	< 10	262			
132737	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
132738	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
132739	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
132740	201	202	495	5	1.55	25	1400	12	287	0.29	135	< 10	96			
132741	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
132742	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
132743	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
132744	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
132745	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
132746	201	202	435	5	0.95	24	870	16	90	0.49	153	< 10	102			
132747	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
132748	201	202	835	10	1.10	133	2810	26	245	0.32	364	< 10	534			
132749	201	202	575	5	1.88	32	1330	14	407	0.30	201	< 10	146			
132750	201	202	310	6	1.34	58	2420	24	262	0.26	252	< 10	162			
132751	201	202	410	6	0.75	60	4280	20	160	0.27	235	< 10	206			
132752	201	202	1365	17	0.27	216	3880	24	109	0.19	481	< 10	594			
132753	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
132754	201	202	345	12	0.35	129	2120	32	131	0.31	348	< 10	444			

CERTIFICATION:

Chemex Labs Ltd.

*Analytical Chemists * Geochemists * Registered Assayers*

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project :
Comments: ATTN: DAVID TERRY

Page Number :3-A
Total Pages :5
Certificate Date: 27-AUG-96
Invoice No. :I9627788
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627788

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
132755	201	202	35	2.8	5.02	8300	2.0	< 2	0.62	3.0	24	262	284	4.33	1.91	0.46
132756	201	202	10	1.4	6.06	6800	2.0	< 2	0.92	1.5	13	218	150	3.49	2.14	0.72
132757	201	202	< 5	0.4	6.21	4560	1.5	< 2	0.66	< 0.5	11	123	85	3.02	2.27	0.62
132758	201	202	< 5	2.4	4.75	8690	2.0	< 2	0.45	1.0	22	244	155	3.03	1.73	0.55
132759	201	202	< 5	3.6	5.95	8840	2.0	< 2	0.33	0.5	18	243	197	4.20	2.11	0.67
132760	201	202	< 5	0.8	6.39	5700	2.0	< 2	0.87	0.5	18	167	115	3.78	2.25	1.04
132761	201	202	< 5	1.6	5.22	6920	1.5	< 2	0.48	3.0	31	223	311	3.35	1.87	1.04
132762	201	202	< 5	1.4	7.02	1850	2.0	< 2	0.52	< 0.5	5	197	113	4.30	3.08	1.41
132763	201	202	< 5	1.2	5.77	4520	1.0	< 2	2.18	1.0	18	452	149	6.76	1.91	3.35
132764	201	202	< 5	1.2	6.33	5920	2.0	< 2	0.88	4.5	20	243	83	4.93	2.51	1.43
132765	201	202	< 5	0.2	4.99	2820	1.0	< 2	0.58	< 0.5	7	94	52	3.47	1.70	0.76
132766	201	202	< 5	2.6	6.45	>10000	2.5	< 2	0.68	3.0	20	268	176	4.20	2.36	0.87
132767	201	202	< 5	5.6	4.45	3890	1.0	< 2	0.85	23.0	27	122	103	3.17	1.47	0.74
132768	201	202	< 5	0.8	6.39	4560	1.5	< 2	0.61	1.5	40	113	108	4.60	2.40	0.77
132769	201	202	< 5	0.6	6.31	4620	1.5	< 2	0.33	0.5	19	126	84	4.51	2.43	0.77
132770	201	202	< 5	not/ss	< 0.01	< 10	< 0.5	< 2	< 0.01	< 0.5	< 1	< 1	< 1	< 0.01	< 0.01	< 0.01
132771	201	202	< 5	0.4	6.38	2770	1.5	< 2	0.39	< 0.5	12	97	70	4.04	2.39	0.64
132772	201	202	< 5	0.6	5.62	3520	1.5	< 2	0.35	19.5	24	92	96	3.55	2.63	0.67
132773	201	202	< 5	< 0.2	5.95	4480	1.5	< 2	0.57	0.5	12	109	76	3.69	2.54	0.82
132774	201	202	< 5	0.4	4.72	4410	1.5	< 2	0.50	5.0	16	89	67	2.71	1.88	0.51
132775	201	202	< 5	< 0.2	5.08	3400	1.0	< 2	0.45	0.5	10	80	58	2.91	2.00	0.55
132776	201	202	< 5	< 0.2	5.86	2960	1.5	< 2	0.22	0.5	9	82	56	2.87	2.34	0.49
132777	201	202	< 5	0.2	5.02	2770	1.0	< 2	0.38	< 0.5	9	74	55	2.97	1.56	0.53
132778	201	202	< 5	0.4	5.10	2590	1.0	< 2	0.34	< 0.5	9	83	59	3.17	1.45	0.48
132779	201	202	< 5	0.2	5.99	2650	1.5	< 2	0.47	< 0.5	9	92	55	3.99	1.69	0.74
132780	201	202	< 5	0.2	4.79	2190	1.0	< 2	0.51	0.5	10	84	52	3.20	1.70	0.63
132781	201	202	< 5	0.4	5.36	2760	1.5	< 2	0.58	0.5	14	121	110	3.58	2.01	0.71
132782	201	202	< 5	0.2	4.44	2150	0.5	< 2	0.49	< 0.5	8	83	53	3.37	1.55	0.57
132783	201	202	< 5	0.4	5.09	2210	1.0	< 2	0.51	0.5	10	90	57	3.52	1.81	0.63
132784	201	202	< 5	0.4	4.98	2470	1.5	< 2	0.42	0.5	12	92	97	3.51	1.82	0.63
132785	201	202	< 5	< 0.2	5.07	2400	1.5	< 2	0.60	0.5	11	86	67	3.25	1.88	0.62
132786	201	202	< 5	0.2	5.06	2090	1.0	< 2	0.59	< 0.5	10	61	48	2.79	1.69	0.48
132787	201	202	< 5	0.2	5.54	1670	1.0	< 2	0.92	< 0.5	8	46	44	2.48	1.73	0.54
132788	201	202	< 5	0.2	4.73	2300	1.0	< 2	0.32	< 0.5	12	81	67	3.53	1.72	0.49
132789	201	202	< 5	< 0.2	4.77	2570	1.0	< 2	0.35	< 0.5	12	87	64	3.25	1.73	0.55
132790	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
132791	201	202	< 5	< 0.2	4.68	2380	1.0	< 2	0.33	< 0.5	24	95	70	4.05	1.51	0.58
132792	201	202	< 5	< 0.2	4.47	2600	1.0	< 2	0.31	< 0.5	7	75	45	2.65	1.59	0.45
132793	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
132794	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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Project :
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Page . . . :3-B
Total Pages :5
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Account :GP W

CERTIFICATE OF ANALYSIS A9627788

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
132755	201	202	1995	22	0.44	258	4290	32	281	0.27	503	< 10	722			
132756	201	202	925	14	1.02	117	2910	26	258	0.36	535	< 10	372			
132757	201	202	735	8	1.02	62	1810	14	226	0.27	253	< 10	202			
132758	201	202	1070	15	0.49	143	4000	26	185	0.18	605	< 10	400			
132759	201	202	1085	19	0.52	127	2830	26	132	0.25	641	< 10	390			
132760	201	202	915	14	1.05	94	2380	20	210	0.35	651	< 10	344			
132761	201	202	1290	17	0.40	207	3310	14	98	0.22	678	< 10	530			
132762	201	202	270	46	0.36	56	3400	26	93	0.32	1540	< 10	184			
132763	201	202	770	9	0.64	125	2260	18	133	0.77	322	10	310			
132764	201	202	1390	12	0.57	94	2890	24	115	0.49	512	< 10	336			
132765	201	202	335	5	0.69	41	2120	20	103	0.37	160	< 10	158			
132766	201	202	1035	27	0.80	134	2120	52	160	0.40	1565	< 10	714			
132767	201	202	2430	6	0.65	107	2530	16	136	0.31	217	< 10	336			
132768	201	202	2170	15	0.83	78	2070	42	169	0.29	210	< 10	338			
132769	201	202	1145	8	0.54	68	1950	20	118	0.41	199	< 10	196			
132770	201	202	< 5	< 1	< 0.01	< 1	< 10	not/as	< 1	< 0.01	< 1	< 10	< 2			
132771	201	202	770	6	0.66	43	1930	24	91	0.34	155	< 10	140			
132772	201	202	2970	4	0.45	55	1930	30	66	0.28	142	< 10	314			
132773	201	202	530	6	0.67	55	1880	48	112	0.37	192	< 10	188			
132774	201	202	1055	6	0.69	45	2370	16	113	0.29	190	< 10	186			
132775	201	202	315	6	0.67	37	1000	26	101	0.35	154	< 10	126			
132776	201	202	465	6	0.47	34	2030	30	64	0.29	161	< 10	138			
132777	201	202	380	4	0.57	36	1290	16	84	0.36	150	< 10	116			
132778	201	202	460	6	0.66	37	2090	22	85	0.35	165	< 10	116			
132779	201	202	450	4	0.59	31	1170	24	79	0.38	154	< 10	106			
132780	201	202	560	5	0.62	36	1730	20	88	0.33	176	< 10	120			
132781	201	202	510	12	0.67	79	1470	26	108	0.31	355	< 10	140			
132782	201	202	325	5	0.62	40	1650	20	88	0.32	152	< 10	100			
132783	201	202	575	5	0.65	41	2100	28	89	0.33	153	< 10	116			
132784	201	202	295	10	0.53	58	960	34	80	0.31	187	< 10	144			
132785	201	202	395	6	0.71	40	1520	36	106	0.35	157	< 10	126			
132786	201	202	1060	4	0.85	21	2870	16	161	0.24	121	< 10	86			
132787	201	202	645	4	1.39	20	1840	18	269	0.23	97	< 10	78			
132788	201	202	695	5	0.47	34	2440	26	73	0.30	136	< 10	114			
132789	201	202	725	7	0.50	41	1760	28	77	0.32	153	< 10	126			
132790	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
132791	201	202	1770	8	0.52	40	4380	42	72	0.31	166	< 10	124			
132792	201	202	400	5	0.58	25	2010	20	84	0.31	165	< 10	106			
132793	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
132794	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			

CERTIFICATION: Ian R. Bickler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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CERTIFICATE OF ANALYSIS A9627788

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
132795	201	202	< 5	0.2	4.18	2710	1.0	< 2	0.18	< 0.5	10	63	58	2.83	1.58	0.45
132796	201	202	< 5	< 0.2	4.31	2050	1.0	< 2	0.60	0.5	12	71	58	3.02	1.44	0.68
132797	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
132798	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
132799	201	202	< 5	< 0.2	4.80	1690	1.0	< 2	0.50	1.5	16	89	61	3.81	1.60	0.75
132800	201	202	< 5	< 0.2	4.50	1780	0.5	< 2	0.54	1.5	14	89	60	3.67	1.65	0.71
132801	201	202	10	1.2	5.41	4140	1.5	< 2	0.75	2.0	17	181	154	4.08	1.79	1.03
132802	201	202	10	1.4	6.44	5230	1.5	< 2	0.82	3.0	27	163	104	4.77	2.20	1.10
132803	201	202	< 5	1.0	5.94	4800	1.5	< 2	0.71	2.5	20	183	108	4.38	1.89	1.39
132804	201	202	< 5	1.0	5.43	4300	1.5	< 2	0.43	2.0	18	159	101	4.17	1.97	1.48
132805	201	202	5	1.4	6.20	4470	1.5	< 2	0.49	1.0	18	150	97	4.37	2.23	1.24
132806	201	202	< 5	1.6	6.16	7190	2.0	< 2	0.59	3.0	30	277	158	5.39	2.28	2.12
132807	201	202	60	1.6	5.71	3080	1.5	< 2	0.37	5.0	16	180	124	4.60	2.10	1.13
132808	201	202	15	1.0	5.98	4430	1.5	< 2	0.20	1.5	17	115	106	4.74	2.41	0.67
132809	201	202	10	0.6	6.28	2810	1.5	< 2	0.19	0.5	13	104	98	4.27	2.44	0.63
132810	201	202	< 5	1.2	7.54	1090	2.0	< 2	0.12	< 0.5	13	151	133	5.84	3.17	0.92
132811	201	202	< 5	1.0	5.51	870	0.5	< 2	2.71	2.0	17	375	129	10.05	1.59	2.34
132812	201	202	45	1.8	5.66	3130	1.0	< 2	1.39	2.5	39	278	220	6.07	1.71	1.89
132813	201	202	10	1.6	6.25	3170	1.5	< 2	1.75	1.5	40	336	187	6.75	1.91	2.65
132814	201	202	< 5	1.0	6.97	4360	1.5	< 2	1.26	2.0	41	291	125	5.11	2.42	2.23
132815	201	202	< 5	1.4	6.82	6030	1.5	< 2	1.10	3.0	37	260	143	5.60	2.41	1.97
132816	201	202	< 5	0.4	5.84	2660	1.0	< 2	2.04	0.5	30	342	91	5.99	1.78	2.66
132817	201	202	< 5	2.0	7.13	5380	1.5	< 2	0.52	6.5	35	114	102	4.99	2.01	1.40
132818	201	202	15	0.8	4.90	4060	1.0	< 2	1.12	5.5	23	180	87	4.26	1.67	1.09
132819	201	202	10	0.4	6.42	4750	1.5	< 2	1.04	1.5	18	193	102	4.81	2.18	1.34
132820	201	202	15	0.6	6.26	3830	1.5	< 2	0.96	1.5	26	181	113	5.39	2.00	1.25
132821	201	202	15	2.0	6.64	6520	1.5	< 2	0.62	3.5	32	214	145	5.78	2.07	1.57
132822	201	202	< 5	0.4	4.32	3480	1.0	< 2	0.43	1.5	8	141	86	3.67	1.48	0.79
132823	201	202	10	0.2	6.23	4290	1.0	< 2	0.26	2.0	27	128	100	5.76	2.05	1.32
132824	201	202	45	3.0	5.11	4430	1.0	< 2	0.25	5.0	19	134	82	5.42	1.65	0.83
132825	201	202	15	0.2	4.58	3430	0.5	< 2	0.36	< 0.5	10	109	61	4.01	1.48	0.80
132826	201	202	< 5	0.6	4.43	4690	1.5	< 2	0.64	0.5	11	187	109	3.86	1.36	0.90
132827	201	202	< 5	0.8	5.27	4890	1.5	< 2	0.39	0.5	11	140	105	3.83	1.74	0.66
132828	201	202	< 5	0.4	4.67	4470	1.0	< 2	0.34	0.5	8	106	63	3.35	1.66	0.59
132829	201	202	< 5	0.4	4.02	5050	1.0	< 2	0.14	0.5	9	82	60	2.43	1.61	0.55
132830	201	202	< 5	< 0.2	4.55	3170	1.0	< 2	0.39	< 0.5	9	93	63	3.64	1.50	0.63
132831	201	202	< 5	< 0.2	4.47	2470	1.0	< 2	0.34	< 0.5	9	89	54	3.31	1.52	0.58
132832	201	202	10	0.4	5.22	2720	1.0	< 2	0.43	0.5	15	98	137	3.84	1.80	0.73
132833	201	202	< 5	< 0.2	4.18	2410	0.5	< 2	0.56	< 0.5	9	92	55	3.62	1.31	0.73
132834	201	202	< 5	< 0.2	4.29	2790	0.5	< 2	0.29	< 0.5	9	94	59	3.26	1.38	0.63

CERTIFICATION: Ian Bichler

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Invoice No. :I9627788
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627788

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
132795	201	202	1270	5	0.36	27	2820	28	50	0.21	134	< 10	98			
132796	201	202	820	4	0.64	34	1450	30	101	0.32	128	< 10	112			
132797	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
132798	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
132799	201	202	1250	4	0.65	37	2290	56	83	0.39	124	< 10	106			
132800	201	202	930	6	0.53	41	3060	24	73	0.37	132	< 10	116			
132801	201	202	560	17	0.64	156	3440	40	132	0.36	616	< 10	766			
132802	201	202	840	8	0.60	90	1970	40	140	0.53	251	< 10	316			
132803	201	202	745	12	0.60	104	2500	30	113	0.46	390	< 10	522			
132804	201	202	750	11	0.48	102	2070	30	102	0.41	385	< 10	558			
132805	201	202	1230	13	0.67	82	2490	48	147	0.42	327	< 10	334			
132806	201	202	775	15	0.44	180	2850	46	101	0.52	657	< 10	712			
132807	201	202	645	15	0.34	122	2520	46	81	0.40	460	< 10	756			
132808	201	202	390	11	0.28	81	1580	30	87	0.40	241	< 10	274			
132809	201	202	275	6	0.28	53	1260	28	56	0.26	193	< 10	212			
132810	201	202	230	17	0.24	83	2500	28	74	0.38	334	< 10	244			
132811	201	202	815	5	0.60	86	3190	14	200	0.89	253	< 10	326			
132812	201	202	760	9	0.50	326	2500	12	104	0.57	296	< 10	588			
132813	201	202	1055	13	0.55	163	2590	46	141	0.66	368	< 10	450			
132814	201	202	905	9	0.55	180	1900	20	108	0.53	359	< 10	380			
132815	201	202	1080	13	0.50	190	1880	32	115	0.49	380	< 10	608			
132816	201	202	820	6	0.54	146	1830	22	108	0.68	260	< 10	230			
132817	201	202	1240	5	0.84	104	1560	172	86	0.38	173	< 10	850			
132818	201	202	815	7	0.47	93	2690	34	135	0.48	332	< 10	324			
132819	201	202	540	7	0.58	108	1980	28	116	0.48	302	< 10	258			
132820	201	202	845	6	0.77	102	1730	28	122	0.61	261	< 10	220			
132821	201	202	1005	10	0.58	139	2520	32	129	0.57	340	< 10	684			
132822	201	202	425	8	0.54	71	2810	26	104	0.35	245	< 10	312			
132823	201	202	1070	6	0.52	88	1370	16	67	0.56	139	< 10	308			
132824	201	202	735	5	0.46	72	1960	26	84	0.41	156	< 10	252			
132825	201	202	320	4	0.47	45	1910	22	77	0.44	156	< 10	130			
132826	201	202	670	6	0.58	99	2900	32	107	0.38	334	< 10	158			
132827	201	202	330	10	0.47	73	2600	24	101	0.36	355	< 10	192			
132828	201	202	335	5	0.46	48	1920	18	89	0.39	203	< 10	144			
132829	201	202	220	3	0.21	44	990	10	39	0.25	144	< 10	112			
132830	201	202	395	4	0.50	46	1100	16	79	0.38	166	< 10	108			
132831	201	202	480	3	0.50	35	1980	16	72	0.34	138	< 10	96			
132832	201	202	420	9	0.59	55	1270	80	84	0.34	148	< 10	262			
132833	201	202	375	4	0.58	44	1310	18	91	0.40	146	< 10	128			
132834	201	202	540	4	0.42	42	1790	16	61	0.31	161	< 10	116			

CERTIFICATION: Ian Bradley

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project :
Comments: ATTN: DAVID TERRY

Certificate Date: 27-AUG-96
Invoice No. :I9627788
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627788

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
132835	201 202	< 5	< 0.2	3.41	1870	0.5	< 2	0.33	< 0.5	6	71	41	2.39	1.10	0.38
132836	201 202	15	0.4	5.27	5200	1.5	< 2	0.31	1.5	18	144	82	3.55	1.84	0.76
132837	201 202	10	0.6	6.32	5130	1.5	< 2	0.31	< 0.5	13	135	91	3.50	2.21	0.88
132838	201 202	< 5	1.0	4.41	2240	0.5	< 2	0.34	0.5	10	83	68	3.17	1.59	0.59
132839	201 202	< 5	0.8	4.51	2310	1.0	< 2	0.57	8.0	19	68	51	2.99	1.84	0.72
132840	201 202	< 5	0.6	4.75	2590	1.0	< 2	0.45	2.5	12	69	58	2.83	1.76	0.55
132841	201 202	< 5	0.6	5.42	3400	1.0	< 2	0.32	0.5	20	50	77	6.62	2.16	2.28
132842	201 202	< 5	0.4	4.07	2280	1.0	2	0.27	1.0	10	58	58	2.46	1.63	0.43
132843	201 202	< 5	< 0.2	5.82	2050	1.0	< 2	1.80	1.5	65	373	146	8.02	1.19	4.32
132844	201 202	< 5	0.8	7.99	3380	1.5	< 2	0.41	0.5	28	209	124	4.53	2.93	1.60
132845	201 202	< 5	0.8	4.73	1700	0.5	< 2	0.37	1.5	8	62	52	2.57	1.48	0.43
132846	201 202	< 5	0.8	6.12	2190	1.0	< 2	0.35	0.5	19	164	159	5.07	2.15	1.56
132847	201 202	< 5	< 0.2	5.13	2250	1.5	< 2	0.26	< 0.5	13	75	114	3.48	1.90	0.67
132848	201 202	30	0.8	7.12	2730	1.5	< 2	0.10	0.5	18	111	92	4.77	2.87	0.92
132849	201 202	< 5	0.8	5.90	2320	1.5	< 2	0.79	< 0.5	17	150	94	4.26	1.99	1.22
132850	201 202	< 5	0.8	3.96	1830	0.5	< 2	0.47	1.5	9	65	72	2.49	1.38	0.45
132851	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
132852	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
132853	201 202	< 5	1.2	4.56	3360	1.0	< 2	0.77	1.0	7	112	87	2.83	1.36	0.67
132854	201 202	< 5	0.8	5.70	5320	1.0	< 2	0.37	2.0	22	170	110	4.77	1.77	0.82
132855	201 202	< 5	1.6	4.58	5430	1.5	< 2	0.27	< 0.5	8	121	87	2.67	1.61	0.56
132856	201 202	< 5	0.6	4.24	3590	0.5	< 2	0.30	0.5	9	84	73	3.06	1.36	0.59
132857	201 202	< 5	1.2	4.81	3410	0.5	< 2	0.56	0.5	6	89	78	3.18	1.57	0.61
132858	201 202	15	1.2	5.38	4310	1.0	< 2	0.67	3.0	20	180	174	5.31	1.80	1.16
132859	201 202	10	0.8	5.18	4070	1.0	< 2	0.63	2.0	15	133	147	4.24	1.71	1.02
132860	201 202	< 5	1.0	5.92	3800	1.5	< 2	0.48	10.5	18	150	144	4.56	2.32	1.40
132861	201 202	< 5	0.8	4.30	3370	0.5	< 2	0.55	1.0	7	106	79	3.02	1.46	0.61
132862	201 202	< 5	1.2	6.67	5310	1.5	< 2	0.36	2.0	19	178	147	5.22	2.15	1.84
132863	201 202	< 5	0.8	4.74	3490	1.0	< 2	0.47	< 0.5	8	130	70	2.82	1.56	0.62
132864	201 202	< 5	0.4	7.45	4400	2.0	< 2	0.04	1.5	19	92	67	3.28	2.98	0.54
132865	201 202	< 5	0.6	7.01	3940	1.5	< 2	0.07	< 0.5	19	94	70	3.81	2.57	0.71
132866	201 202	< 5	0.4	6.47	2400	1.0	< 2	1.11	0.5	20	102	97	4.04	1.92	0.93
132867	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
132868	201 202	< 5	0.8	4.88	2600	0.5	< 2	0.48	0.5	16	152	89	4.35	1.53	0.98
132869	201 202	< 5	1.4	4.90	3120	1.0	< 2	0.22	< 0.5	10	101	70	3.12	1.76	0.49
132870	201 202	< 5	1.6	5.40	3890	1.0	< 2	0.40	2.5	23	148	112	5.62	1.89	0.96
132871	201 202	< 5	0.4	5.60	3660	1.0	< 2	0.56	1.5	20	139	118	4.64	1.69	1.20
132872	201 202	< 5	0.8	6.38	3410	1.5	< 2	0.45	2.0	30	221	91	4.81	2.14	0.94

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project :
Comments: ATTN: DAVID TERRY

Page Number :5-B
Total Pages :5
Certificate Date: 27-AUG-96
Invoice No. :I9627788
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627788

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
132835	201	202	320	4	0.51	27	2770	14	73	0.29	130	< 10	92			
132836	201	202	690	7	0.34	69	1300	20	72	0.29	187	< 10	148			
132837	201	202	450	8	0.41	66	1300	24	77	0.31	250	< 10	204			
132838	201	202	350	12	0.51	41	1380	84	73	0.36	188	< 10	134			
132839	201	202	2050	9	0.63	26	1730	52	91	0.31	143	< 10	120			
132840	201	202	2130	7	0.52	27	1080	66	85	0.26	140	< 10	118			
132841	201	202	2050	4	0.26	30	1950	66	49	0.30	181	< 10	194			
132842	201	202	1375	6	0.38	25	2380	22	61	0.18	118	< 10	100			
132843	201	202	3110	4	0.63	239	1540	76	73	1.08	215	< 10	200			
132844	201	202	1345	5	0.33	116	1150	74	77	0.31	177	< 10	190			
132845	201	202	585	11	0.56	24	2360	46	93	0.25	133	< 10	82			
132846	201	202	1960	15	0.40	88	2700	220	50	0.54	179	< 10	322			
132847	201	202	480	9	0.42	44	1060	60	63	0.30	140	< 10	160			
132848	201	202	720	7	0.25	61	1010	34	52	0.33	171	< 10	120			
132849	201	202	1145	5	0.52	65	1890	56	98	0.57	154	< 10	130			
132850	201	202	955	4	0.42	31	2460	28	70	0.26	133	< 10	132			
132851	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
132852	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
132853	201	202	285	10	0.73	72	2630	24	137	0.34	308	< 10	268			
132854	201	202	565	12	0.47	128	1950	24	107	0.49	223	< 10	434			
132855	201	202	240	10	0.49	68	1650	22	83	0.30	401	< 10	218			
132856	201	202	275	8	0.44	70	1590	24	82	0.28	152	< 10	264			
132857	201	202	255	7	0.78	59	2320	28	125	0.34	206	< 10	228			
132858	201	202	490	12	0.52	157	2580	26	111	0.55	225	< 10	534			
132859	201	202	465	15	0.67	110	2340	32	112	0.41	278	< 10	418			
132860	201	202	575	14	0.31	160	2070	32	86	0.46	291	< 10	746			
132861	201	202	250	10	0.71	64	1660	28	112	0.40	241	< 10	248			
132862	201	202	500	8	0.37	114	1710	30	71	0.47	207	< 10	334			
132863	201	202	225	7	0.65	61	1860	24	127	0.37	219	< 10	200			
132864	201	202	795	10	0.19	79	590	16	63	0.26	175	< 10	216			
132865	201	202	450	8	0.24	65	810	30	70	0.26	150	< 10	196			
132866	201	202	580	9	1.26	85	1380	32	276	0.36	149	< 10	262			
132867	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
132868	201	202	705	10	0.55	95	2120	30	98	0.38	228	< 10	290			
132869	201	202	225	9	0.37	61	1450	32	94	0.28	226	< 10	210			
132870	201	202	1020	18	0.41	138	1630	30	80	0.43	270	< 10	634			
132871	201	202	615	12	0.60	120	2220	32	110	0.44	262	< 10	554			
132872	201	202	880	8	0.53	135	2010	32	128	0.35	212	< 10	330			

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9627252

Comments: ATTN: DAVID TERRY

CERTIFICATE A9627252

(GP W) - WESTMIN RESOURCES LTD.

Project: 6408
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 17-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
241	197	RUSH: Dry, sieve to -80 mesh
202	197	save reject
285	197	ICP - HF digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	190	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
578	197	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	197	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	197	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	197	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	197	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	197	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	197	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	197	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	197	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	197	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	197	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	197	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	197	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	197	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	197	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	197	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	197	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	197	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	197	Pb ppm: 24 element, rock & core	AAS	2	10000
582	197	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	197	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	197	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	197	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	197	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

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To: WESTMIN RESOURCES LTD.
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VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN: DAVID TERRY

Page Number : 1-A
Total Pages : 5
Certificate Date: 17-AUG-96
Invoice No. : I9627252
P.O. Number :
Account : GP W

*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9627252

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
TY 5100E 4500N	241	202	< 5	0.6	8.22	1850	2.5	< 2	0.32	< 0.5	18	39	61	4.50	3.94	1.03
TY 5200E 4225N	241	202	< 5	0.4	7.33	940	1.5	< 2	1.53	< 0.5	7	19	20	2.36	2.47	0.77
TY 5200E 4250N	241	202	< 5	< 0.2	7.55	1050	1.5	< 2	1.30	< 0.5	7	27	15	2.26	2.64	0.89
TY 5200E 4275N	241	202	< 5	< 0.2	7.38	1170	1.5	< 2	0.88	< 0.5	9	38	18	3.58	3.01	1.22
TY 5200E 4300N	241	202	< 5	< 0.2	7.10	1000	1.5	< 2	0.45	< 0.5	2	36	11	1.41	2.37	0.58
TY 5200E 4325N	241	202	< 5	< 0.2	7.04	1470	2.0	< 2	0.36	< 0.5	8	122	44	2.56	2.99	0.74
TY 5200E 4350N	241	202	< 5	< 0.2	7.55	1850	2.0	< 2	0.26	0.5	8	47	40	3.15	3.37	0.84
TY 5200E 4375N	241	202	< 5	< 0.2	8.19	2020	2.0	< 2	0.35	< 0.5	12	45	69	4.75	3.58	1.00
TY 5200E 4400N	241	202	< 5	< 0.2	8.25	1540	2.0	< 2	0.22	< 0.5	6	17	26	2.62	4.01	0.73
TY 5200E 4425N	241	202	< 5	< 0.2	9.46	1970	2.0	< 2	0.11	< 0.5	6	33	31	3.32	4.01	1.06
TY 5200E 4450N	241	202	< 5	0.4	9.50	2780	2.5	< 2	0.11	< 0.5	7	43	49	4.70	4.87	1.14
TY 5200E 4475N	241	202	< 5	0.8	7.56	1550	2.0	< 2	0.41	0.5	22	26	73	4.73	3.38	0.90
TY 5200E 4500N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 5200E 4525N	241	202	< 5	1.0	8.60	1540	2.0	< 2	0.69	1.0	14	19	38	3.47	4.01	0.87
TY 5200E 4550N	241	202	< 5	1.2	8.16	1370	1.5	< 2	1.30	0.5	8	28	28	3.34	3.24	0.94
TY 5200E 4575N	241	202	< 5	0.4	8.73	1670	2.0	< 2	0.88	< 0.5	12	43	35	4.24	4.16	1.35
TY 5200E 4600N	241	202	< 5	< 0.2	8.22	1610	2.0	< 2	0.31	< 0.5	5	26	29	3.94	3.63	0.83
TY 5200E 4625N	241	202	< 5	0.8	7.40	1140	1.5	< 2	0.88	< 0.5	7	27	28	2.63	2.62	0.79
TY 5200E 4650N	241	202	< 5	0.6	7.75	1310	1.5	< 2	0.58	< 0.5	6	40	26	2.58	2.89	0.87
TY 5200E 4675N	241	202	< 5	0.4	8.11	2200	2.0	< 2	0.28	< 0.5	11	75	59	5.02	3.61	1.11
TY 5200E 4700N	241	202	< 5	1.2	7.63	1400	1.5	< 2	0.80	< 0.5	14	40	41	3.39	2.86	0.96
TY 5200E 4725N	241	202	< 5	1.2	6.99	1220	1.5	< 2	1.27	0.5	14	42	61	3.24	2.63	0.90
TY 5200E 4750N	241	202	< 5	0.6	5.94	1010	1.5	< 2	1.35	0.5	12	35	49	2.99	2.20	0.69
TY 5200E 4775N	241	202	< 5	0.4	7.05	1350	1.5	< 2	1.01	< 0.5	12	37	39	3.87	2.88	0.95
TY 5200E 4800N	241	202	< 5	0.4	7.68	1420	1.5	< 2	0.45	< 0.5	11	47	31	3.99	3.24	0.92
TY 5200E 4825N	241	202	< 5	0.2	7.02	1120	1.5	< 2	0.70	< 0.5	5	29	15	1.77	2.53	0.62
TY 5200E 4850N	241	202	< 5	0.2	6.59	1360	1.5	< 2	0.33	< 0.5	12	45	37	4.37	2.78	0.73
TY 5200E 4875N	241	202	< 5	0.4	5.95	1080	1.5	< 2	0.66	< 0.5	6	37	26	2.51	2.27	0.83
TY 5200E 4900N	241	202	< 5	1.6	7.34	1230	1.5	< 2	0.78	< 0.5	7	66	45	3.18	2.56	1.04
TY 5200E 4925N	241	202	< 5	1.2	7.10	1250	1.5	< 2	0.57	< 0.5	10	43	41	3.24	2.62	0.74
TY 5200E 4950N	241	202	< 5	0.6	7.01	1250	1.5	< 2	0.90	0.5	17	52	51	4.19	2.80	1.05
TY 5200E 4975N	241	202	< 5	0.4	6.63	1280	1.5	< 2	0.91	0.5	13	54	39	3.54	2.77	1.04
TY 5200E 5000N	241	202	< 5	0.8	7.34	1370	1.5	< 2	0.98	0.5	15	68	63	4.32	3.00	1.32
TY 6200E 3900N	241	202	< 5	< 0.2	7.53	1160	1.5	< 2	0.55	< 0.5	3	25	46	1.40	2.44	0.60
TY 6200E 3925N	241	202	< 5	< 0.2	7.95	1440	1.5	< 2	0.30	< 0.5	5	33	141	1.78	2.67	0.67
TY 6200E 3950N	241	202	< 5	< 0.2	8.00	1050	1.5	< 2	0.36	< 0.5	6	35	96	2.77	2.48	0.80
TY 6200E 3975N	241	202	< 5	< 0.2	9.38	1290	1.5	< 2	0.17	< 0.5	5	30	59	2.58	3.20	0.69
TY 6200E 4000N	241	202	< 5	< 0.2	8.84	1170	1.5	< 2	0.25	< 0.5	6	32	73	2.52	2.86	0.75
TY 6200E 4025N	241	202	15	0.8	8.93	1100	1.5	< 2	0.49	< 0.5	4	28	140	1.54	2.60	0.56
TY 6200E 4050N	241	202	45	0.4	8.25	990	1.0	< 2	0.19	< 0.5	4	28	126	1.82	2.58	0.49

CERTIFICATION: Hart Bichler

*INTERFERENCE: Cu ON Bi AND P.

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN: DAVID TERRY

Page Number :1-B
Total Pages :5
Certificate Date: 17-AUG-96
Invoice No. :I9627252
P.O. Number :
Account :GP W

*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9627252

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
TY 5100E 4500N	241 202	780	4	0.67	20	580	86	90	0.34	93	< 10	154			
TY 5200E 4225N	241 202	505	3	2.40	8	570	18	451	0.30	71	< 10	50			
TY 5200E 4250N	241 202	390	< 1	2.21	8	630	16	368	0.32	72	< 10	46			
TY 5200E 4275N	241 202	495	1	1.66	11	850	30	215	0.38	91	< 10	60			
TY 5200E 4300N	241 202	210	1	1.22	6	690	16	145	0.44	83	< 10	34			
TY 5200E 4325N	241 202	280	14	1.04	56	500	20	110	0.37	248	< 10	70			
TY 5200E 4350N	241 202	295	5	0.99	23	680	40	78	0.37	122	< 10	102			
TY 5200E 4375N	241 202	470	7	0.91	30	690	88	91	0.35	121	< 10	150			
TY 5200E 4400N	241 202	265	8	1.20	13	560	32	102	0.28	73	< 10	78			
TY 5200E 4425N	241 202	310	11	0.86	10	320	40	58	0.32	105	< 10	76			
TY 5200E 4450N	241 202	305	8	0.54	15	780	102	133	0.37	121	< 10	106			
TY 5200E 4475N	241 202	865	7	0.74	34	1220	120	106	0.29	72	< 10	186			
TY 5200E 4500N	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
TY 5200E 4525N	241 202	690	6	0.67	12	720	64	153	0.21	55	< 10	126			
TY 5200E 4550N	241 202	490	5	1.48	6	880	68	319	0.25	74	< 10	94			
TY 5200E 4575N	241 202	580	5	1.11	10	590	54	209	0.33	95	< 10	114			
TY 5200E 4600N	241 202	345	9	0.89	11	900	76	117	0.33	79	< 10	70			
TY 5200E 4625N	241 202	390	5	1.52	9	870	36	267	0.28	71	< 10	66			
TY 5200E 4650N	241 202	310	7	1.05	10	870	32	174	0.32	114	< 10	64			
TY 5200E 4675N	241 202	855	8	1.07	34	1190	60	83	0.40	289	< 10	132			
TY 5200E 4700N	241 202	1185	5	1.32	15	1560	40	199	0.26	95	< 10	72			
TY 5200E 4725N	241 202	855	4	1.27	19	1650	28	253	0.24	88	< 10	96			
TY 5200E 4750N	241 202	715	3	1.18	16	1190	44	254	0.22	70	< 10	94			
TY 5200E 4775N	241 202	775	5	1.15	15	1160	56	194	0.27	85	< 10	108			
TY 5200E 4800N	241 202	505	9	1.08	15	800	68	145	0.30	119	< 10	90			
TY 5200E 4825N	241 202	275	3	1.59	6	650	22	210	0.32	82	< 10	44			
TY 5200E 4850N	241 202	435	8	0.87	22	970	58	110	0.29	118	< 10	76			
TY 5200E 4875N	241 202	385	3	1.04	12	850	30	145	0.36	85	< 10	70			
TY 5200E 4900N	241 202	450	4	1.24	21	1410	36	185	0.40	109	< 10	86			
TY 5200E 4925N	241 202	650	5	1.17	13	1030	64	179	0.27	99	< 10	90			
TY 5200E 4950N	241 202	1100	4	0.99	23	1130	76	172	0.30	97	< 10	134			
TY 5200E 4975N	241 202	715	4	0.90	24	1090	54	149	0.34	102	< 10	132			
TY 5200E 5000N	241 202	825	4	0.93	35	1170	64	162	0.36	114	< 10	160			
TY 6200E 3900N	241 202	245	2	1.58	3	360	8	199	0.32	68	< 10	40			
TY 6200E 3925N	241 202	240	7	1.46	1	220	10	120	0.36	90	< 10	50			
TY 6200E 3950N	241 202	285	9	1.12	8	410	22	117	0.31	101	< 10	60			
TY 6200E 3975N	241 202	255	8	0.93	6	230	16	79	0.28	80	< 10	62			
TY 6200E 4000N	241 202	285	11	1.13	6	410	8	102	0.29	105	< 10	56			
TY 6200E 4025N	241 202	215	7	1.41	2	590	20	203	0.25	91	< 10	34			
TY 6200E 4050N	241 202	200	13	1.20	4	380	30	101	0.23	95	< 10	48			

CERTIFICATION: Ivan Bridley

*INTERFERENCE: Cu ON Bi AND P.

Chemex Labs Ltd.

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Total Pages :5
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*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9627252

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
TY 6200E 4075N	241	202	20	1.6	7.94	970	0.5	< 2	0.99	< 0.5	5	27	42	1.44	2.32	0.44
TY 6200E 4100N	241	202	50	< 0.2	9.94	900	0.5	< 2	0.20	< 0.5	6	32	120	1.43	2.87	0.29
TY 6200E 4125N	241	202	90	0.6	11.75	1330	1.5	< 2	0.17	< 0.5	7	63	562	3.17	4.27	0.52
TY 6200E 4150N	241	202	65	0.4	6.92	750	0.5	< 2	0.19	< 0.5	3	35	70	0.60	1.97	0.23
TY 6200E 4175N	241	202	5	0.2	8.47	1230	1.0	< 2	0.21	< 0.5	7	38	95	3.79	2.64	0.79
TY 6200E 4200N	241	202	< 5	< 0.2	8.28	1070	0.5	< 2	0.74	< 0.5	7	54	28	2.25	2.19	0.82
TY 6200E 4225N	241	202	15	< 0.2	8.90	1810	2.0	< 2	0.10	0.5	65	67	236	6.12	3.11	1.14
TY 6200E 4250N	241	202	10	0.4	10.35	6090	2.0	< 2	0.13	< 0.5	6	44	66	4.07	3.88	1.22
TY 6200E 4275N	241	202	145	1.4	10.05	1610	0.5	< 2	0.08	< 0.5	6	45	127	4.81	2.87	0.50
TY 6200E 4300N	241	202	70	0.4	7.94	4050	1.0	< 2	0.10	< 0.5	7	34	93	3.93	2.79	0.71
TY 6200E 4325N	241	202	10	0.2	9.86	2560	1.0	< 2	0.12	< 0.5	6	68	113	3.63	3.15	0.60
TY 6200E 4350N	241	202	5	1.0	9.08	2310	1.5	< 2	0.67	< 0.5	10	48	246	4.09	3.04	0.83
TY 6200E 4375N	241	202	50	0.4	9.77	3310	1.5	< 2	0.34	0.5	12	58	467	4.19	3.27	0.96
TY 6200E 4400N	241	202	< 5	0.2	8.48	1800	0.5	< 2	0.51	< 0.5	3	71	104	7.91	2.82	1.18
TY 6200E 4425N	241	202	< 5	< 0.2	8.11	1380	1.0	< 2	0.71	< 0.5	3	62	14	4.10	2.47	1.13
TY 6200E 4450N	241	202	< 5	0.6	8.24	1290	1.0	< 2	0.64	< 0.5	3	57	13	2.96	2.64	0.88
TY 6200E 4475N	241	202	< 5	0.4	7.69	1180	0.5	< 2	0.53	< 0.5	3	72	55	8.29	2.47	1.14
TY 6200E 4500N	241	202	< 5	< 0.2	9.06	1290	1.5	< 2	0.54	< 0.5	3	64	93	4.57	3.30	1.70
TY 6200E 4525N	241	202	25	1.4	9.30	1400	0.5	10	0.96	< 0.5	5	123	35	8.20	2.70	1.89
TY 6600E 3800N	241	202	10	1.0	10.35	2250	2.0	< 2	0.13	< 0.5	6	57	206	6.60	3.86	1.24
TY 6600E 3825N	241	202	< 5	< 0.2	9.05	1950	1.5	6	0.24	0.5	10	57	259	7.05	3.26	1.49
TY 6600E 3850N	241	202	< 5	1.6	8.94	1980	1.5	2	0.29	< 0.5	4	36	62	3.63	3.44	0.93
TY 6600E 3875N	241	202	< 5	0.6	10.25	2480	2.0	4	0.09	< 0.5	4	29	72	4.48	4.23	1.06
TY 6600E 3900N	241	202	< 5	0.6	8.75	1700	1.5	< 2	0.69	< 0.5	5	28	63	3.24	3.09	0.88
TY 6600E 3925N	241	202	< 5	0.2	7.52	1060	1.0	< 2	0.32	< 0.5	8	45	89	2.90	2.09	0.72
TY 6600E 3950N	241	202	< 5	< 0.2	7.85	1260	1.5	< 2	0.50	< 0.5	7	49	114	3.72	2.34	0.85
TY 6600E 3975N	241	202	< 5	0.2	8.45	1150	1.0	< 2	0.36	< 0.5	7	56	142	3.79	2.33	0.76
TY 6600E 4000N	241	202	< 5	< 0.2	8.02	1570	1.5	< 2	0.22	0.5	9	67	249	5.61	2.62	1.13
TY 6600E 4025N	241	202	< 5	0.4	7.52	1340	1.5	< 2	0.38	< 0.5	14	68	125	5.61	2.26	1.00
TY 6600E 4050N	241	202	< 5	< 0.2	8.66	1960	1.5	< 2	0.35	< 0.5	5	43	68	3.35	2.74	0.87
TY 6600E 4075N	241	202	< 5	< 0.2	7.43	1300	1.5	< 2	0.23	< 0.5	9	38	41	3.25	2.41	0.77
TY 6600E 4100N	241	202	< 5	< 0.2	6.99	1240	1.0	< 2	0.45	< 0.5	9	38	63	3.63	2.18	0.67
TY 6600E 4125N	241	202	< 5	< 0.2	8.17	1670	1.5	< 2	0.31	0.5	10	56	82	4.56	2.63	0.85
TY 6600E 4150N	241	202	< 5	< 0.2	7.95	1380	1.5	< 2	0.25	< 0.5	5	39	27	2.94	2.35	0.75
TY 6600E 4175N	241	202	< 5	< 0.2	8.20	1480	1.5	< 2	0.21	0.5	6	34	49	3.05	2.74	0.78
TY 6600E 4200N	241	202	< 5	0.4	8.05	1560	1.0	< 2	0.21	0.5	7	45	104	4.49	2.59	0.91
TY 6600E 4225N	241	202	120	0.6	7.16	1330	0.5	< 2	0.13	0.5	23	46	100	5.66	1.89	0.64
TY 6600E 4250N	241	202	< 5	0.6	7.26	1390	1.0	< 2	0.32	1.5	47	45	118	4.64	2.10	0.67
TY 6600E 4275N	241	202	< 5	< 0.2	7.28	1580	1.0	< 2	0.15	0.5	40	54	169	5.62	2.26	0.85
TY 6600E 4300N	241	202	< 5	0.2	7.25	1240	0.5	< 2	0.62	0.5	17	68	150	7.49	1.90	1.41

CERTIFICATION: Hart Bichler

*INTERFERENCE: Cu ON Bi AND P.

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VANCOUVER, BC
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Project : 6408
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CERTIFICATE OF ANALYSIS A9627252

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
TY 6200E 4075N	241 202	245	12	1.92	3	460	20	346	0.20	98	< 10	38			
TY 6200E 4100N	241 202	120	34	0.75	< 1	450	8	129	0.10	155	< 10	70			
TY 6200E 4125N	241 202	170	51	0.58	6	1120	20	106	0.13	218	< 10	86			
TY 6200E 4150N	241 202	100	3	0.62	< 1	290	14	110	0.12	114	< 10	20			
TY 6200E 4175N	241 202	395	19	0.93	7	480	32	90	0.30	129	< 10	86			
TY 6200E 4200N	241 202	340	6	1.01	6	270	14	183	0.35	129	< 10	56			
TY 6200E 4225N	241 202	3010	9	0.62	32	940	170	88	0.31	130	< 10	206			
TY 6200E 4250N	241 202	450	11	0.88	7	700	88	93	0.33	120	< 10	100			
TY 6200E 4275N	241 202	200	29	0.51	9	1600	52	141	0.15	197	< 10	116			
TY 6200E 4300N	241 202	380	21	0.70	6	780	80	102	0.28	111	< 10	112			
TY 6200E 4325N	241 202	285	29	0.41	10	1080	70	100	0.21	185	< 10	174			
TY 6200E 4350N	241 202	735	19	1.25	8	1010	88	241	0.25	131	< 10	136			
TY 6200E 4375N	241 202	1165	37	0.54	18	950	38	118	0.27	151	< 10	190			
TY 6200E 4400N	241 202	360	13	0.83	6	730	14	113	0.29	146	< 10	80			
TY 6200E 4425N	241 202	325	9	1.05	8	370	16	143	0.32	151	< 10	68			
TY 6200E 4450N	241 202	280	8	1.07	5	550	60	139	0.33	165	< 10	56			
TY 6200E 4475N	241 202	335	18	0.86	5	1030	54	121	0.34	144	< 10	70			
TY 6200E 4500N	241 202	385	9	1.09	6	610	32	116	0.39	187	< 10	78			
TY 6200E 4525N	241 202	690	8	1.02	9	780	190	177	0.49	210	< 10	188			
TY 6600E 3800N	241 202	480	17	0.55	9	1010	94	71	0.32	151	< 10	110			
TY 6600E 3825N	241 202	840	16	0.55	24	1320	104	71	0.43	150	< 10	124			
TY 6600E 3850N	241 202	325	6	0.69	7	780	60	112	0.25	87	< 10	70			
TY 6600E 3875N	241 202	360	9	0.54	4	780	90	68	0.27	91	< 10	82			
TY 6600E 3900N	241 202	415	6	1.20	8	1000	70	210	0.24	75	< 10	80			
TY 6600E 3925N	241 202	305	11	0.89	11	550	32	78	0.32	112	< 10	80			
TY 6600E 3950N	241 202	400	10	1.03	14	710	44	135	0.32	114	< 10	80			
TY 6600E 3975N	241 202	340	17	0.82	11	660	24	78	0.35	153	< 10	110			
TY 6600E 4000N	241 202	555	12	0.64	23	900	48	68	0.32	129	< 10	114			
TY 6600E 4025N	241 202	660	10	0.68	24	2540	40	99	0.40	179	< 10	100			
TY 6600E 4050N	241 202	410	8	0.95	9	870	32	113	0.32	114	< 10	68			
TY 6600E 4075N	241 202	430	4	1.06	16	740	24	86	0.35	110	< 10	82			
TY 6600E 4100N	241 202	505	7	1.03	18	790	36	147	0.31	109	< 10	90			
TY 6600E 4125N	241 202	525	9	0.78	15	870	28	92	0.37	126	< 10	86			
TY 6600E 4150N	241 202	400	8	0.96	10	460	24	82	0.36	107	< 10	62			
TY 6600E 4175N	241 202	350	8	0.96	10	690	20	82	0.32	100	< 10	80			
TY 6600E 4200N	241 202	410	11	0.77	15	570	46	67	0.32	109	< 10	84			
TY 6600E 4225N	241 202	1585	16	0.67	33	1050	32	105	0.29	119	< 10	146			
TY 6600E 4250N	241 202	7010	17	0.82	28	1400	64	148	0.31	113	< 10	142			
TY 6600E 4275N	241 202	4740	19	0.54	38	950	78	112	0.28	111	< 10	182			
TY 6600E 4300N	241 202	1190	11	0.92	42	1970	48	138	0.72	150	< 10	154			

CERTIFICATION: Ian Bradley

*INTERFERENCE: Cu ON Bi AND P.

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN: DAVID TERRY

Certificate Date: 17-AUG-96
Invoice No. :19627252
P.O. Number :
Account :GP W

*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9627252

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
TY 6600E 4325N	241 202	5	< 0.2	8.71	1500	1.5	< 2	0.34	< 0.5	5	44	34	1.87	2.47	0.83
TY 6600E 4350N	241 202	< 5	0.4	7.69	1490	1.0	< 2	0.78	< 0.5	10	80	97	4.26	2.65	1.43
TY 6600E 4375N	241 202	5	< 0.2	8.51	1540	1.5	< 2	0.51	< 0.5	9	90	171	5.42	2.98	1.33
TY 6600E 4400N	241 202	< 5	< 0.2	8.17	1580	1.5	< 2	0.80	< 0.5	6	63	85	3.35	2.82	1.18
TY 6600E 4425N	241 202	< 5	< 0.2	7.92	1630	1.5	< 2	0.50	< 0.5	6	42	136	2.88	2.53	0.91
TY 6600E 4450N	241 202	< 5	< 0.2	7.30	1470	1.5	< 2	1.05	0.5	8	20	53	2.54	2.35	0.67
TY 6600E 4475N	241 202	5	< 0.2	9.39	2160	2.0	< 2	0.39	< 0.5	13	43	43	3.90	3.56	1.10
TY 6600E 4500N	241 202	< 5	< 0.2	8.64	1700	1.5	< 2	1.15	< 0.5	10	35	76	2.67	2.89	0.98
TY 6600E 4525N	241 202	20	< 0.2	8.24	1580	1.5	< 2	0.71	0.5	11	54	233	3.93	2.75	1.32
TY 6800E 3800N	241 202	10	< 0.2	9.74	3000	2.5	< 2	0.26	< 0.5	11	22	926	4.67	4.02	1.33
TY 6800E 3825N	241 202	< 5	< 0.2	8.29	1790	1.5	< 2	0.44	0.5	10	25	195	3.61	3.00	1.00
TY 6800E 3850N	241 202	< 5	< 0.2	7.50	1660	1.5	< 2	0.49	< 0.5	11	22	165	2.90	2.61	0.88
TY 6800E 3875N	241 202	35	1.2	10.55	2070	1.5	< 2	0.14	0.5	5	71	158	6.56	3.69	1.60
TY 6800E 3900N	241 202	10	0.2	8.07	1430	1.0	< 2	0.26	< 0.5	5	41	109	5.11	2.63	0.95
TY 6800E 3925N	241 202	< 5	0.2	9.18	1850	1.0	< 2	0.15	0.5	4	45	116	5.99	3.29	1.19
TY 6800E 3950N	241 202	< 5	< 0.2	7.51	1390	0.5	< 2	1.25	0.5	5	37	154	4.32	2.49	1.14
TY 6800E 3975N	241 202	15	< 0.2	9.76	1850	1.5	< 2	0.23	< 0.5	5	44	160	4.66	3.26	1.17
TY 6800E 4000N	241 202	20	0.2	9.35	1740	1.5	< 2	0.19	< 0.5	4	49	187	5.18	3.15	1.11
TY 6800E 4025N	241 202	< 5	1.2	8.19	1320	1.5	< 2	0.63	< 0.5	3	33	99	2.19	2.44	0.70
TY 6800E 4050N	241 202	5	1.0	6.95	1050	0.5	< 2	0.62	< 0.5	4	37	103	2.79	2.03	0.66
TY 6800E 4075N	241 202	5	< 0.2	8.07	1400	0.5	< 2	0.25	< 0.5	5	43	142	5.24	2.39	0.91
TY 6800E 4100N	241 202	15	< 0.2	9.01	2010	1.5	< 2	0.13	< 0.5	7	37	280	5.83	3.52	1.13
TY 6800E 4125N	241 202	< 5	< 0.2	8.04	1800	0.5	< 2	0.23	< 0.5	10	45	130	7.18	2.80	1.00
TY 6800E 4150N	241 202	< 5	< 0.2	7.79	1420	1.0	< 2	0.17	< 0.5	9	64	173	5.86	2.44	1.09
TY 6800E 4175N	241 202	< 5	< 0.2	7.81	1650	1.5	< 2	0.23	< 0.5	11	55	109	4.88	2.48	0.95
TY 6800E 4200N	241 202	< 5	< 0.2	8.25	1290	1.0	< 2	0.30	< 0.5	9	49	180	4.88	2.82	0.97
TY 6800E 4225N	241 202	< 5	< 0.2	8.01	1330	1.0	< 2	0.39	< 0.5	22	69	177	5.43	2.57	1.16
TY 6800E 4250N	241 202	< 5	< 0.2	7.68	1480	1.0	< 2	0.25	< 0.5	13	57	116	5.99	2.57	1.12
TY 6800E 4275N	241 202	< 5	< 0.2	7.32	1290	1.0	< 2	0.52	< 0.5	8	55	104	3.81	2.37	1.05
TY 6800E 4300N	241 202	40	< 0.2	5.77	1160	0.5	< 2	1.40	1.0	21	27	1425	3.15	1.85	0.92
TY 6800E 4325N	241 202	15	0.4	7.53	1480	1.0	< 2	0.87	1.0	19	43	264	3.78	2.36	0.92
TY 6800E 4350N	241 202	50	0.6	9.93	1040	0.5	< 2	0.16	< 0.5	5	51	123	2.65	2.76	1.23
TY 6800E 4375N	241 202	70	0.6	9.78	1190	0.5	< 2	0.21	< 0.5	5	42	101	2.55	2.73	0.92
TY 6800E 4400N	241 202	50	0.6	7.36	970	0.5	< 2	0.47	< 0.5	5	31	288	1.77	1.92	0.58
TY 6800E 4425N	241 202	40	1.0	8.32	1270	1.0	< 2	0.38	< 0.5	39	38	765	3.39	2.36	0.72
TY 6800E 4450N	241 202	40	1.0	8.66	1240	0.5	< 2	0.18	< 0.5	34	42	629	5.63	2.66	0.87
TY 6800E 4475N	241 202	40	0.8	8.42	1190	0.5	< 2	0.28	< 0.5	16	41	383	5.14	2.75	0.87
TY 6800E 4500N	241 202	45	2.2	8.01	1210	0.5	< 2	0.45	< 0.5	5	46	326	4.21	2.46	0.84
TY 6800E 4525N	241 202	35	1.4	9.27	1390	1.5	< 2	0.46	< 0.5	7	54	259	3.87	3.29	1.25
TY 7000E 3800N	241 202	< 5	< 0.2	7.98	1700	1.0	< 2	0.35	< 0.5	6	35	182	3.92	2.55	0.79

CERTIFICATION: Hart Bichler

*INTERFERENCE: Cu ON Bi AND P.

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CERTIFICATE OF ANALYSIS A9627252

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
TY 6600E 4325N	241	202	330	7	1.03	9	750	26	113	0.37	120	< 10	54			
TY 6600E 4350N	241	202	750	7	0.96	18	740	46	128	0.29	133	< 10	98			
TY 6600E 4375N	241	202	560	10	0.70	17	960	70	100	0.30	147	< 10	136			
TY 6600E 4400N	241	202	445	8	1.18	16	790	44	185	0.28	118	< 10	92			
TY 6600E 4425N	241	202	305	8	1.09	12	790	26	140	0.30	97	< 10	78			
TY 6600E 4450N	241	202	925	5	1.68	15	660	26	311	0.21	59	< 10	76			
TY 6600E 4475N	241	202	1030	7	0.84	20	740	76	110	0.32	110	< 10	118			
TY 6600E 4500N	241	202	640	6	1.57	13	690	34	311	0.22	87	< 10	78			
TY 6600E 4525N	241	202	840	21	1.05	15	780	84	176	0.27	121	< 10	110			
TY 6800E 3800N	241	202	605	14	0.77	17	610	52	70	0.26	83	< 10	266			
TY 6800E 3825N	241	202	580	10	1.05	11	810	36	112	0.28	88	< 10	126			
TY 6800E 3850N	241	202	715	7	1.08	9	700	32	119	0.23	70	< 10	112			
TY 6800E 3875N	241	202	660	14	0.53	16	1190	160	78	0.31	176	< 10	112			
TY 6800E 3900N	241	202	355	13	0.77	9	1050	96	97	0.27	108	< 10	80			
TY 6800E 3925N	241	202	435	11	0.68	10	1180	116	74	0.28	123	< 10	92			
TY 6800E 3950N	241	202	480	22	0.87	7	880	32	212	0.25	127	< 10	66			
TY 6800E 3975N	241	202	380	17	0.68	8	740	80	94	0.25	122	< 10	86			
TY 6800E 4000N	241	202	365	17	0.60	8	850	76	82	0.26	133	< 10	86			
TY 6800E 4025N	241	202	265	8	1.14	3	940	28	194	0.28	94	< 10	48			
TY 6800E 4050N	241	202	295	7	1.10	4	1090	52	175	0.29	95	< 10	52			
TY 6800E 4075N	241	202	425	9	0.75	8	1030	70	82	0.32	121	< 10	86			
TY 6800E 4100N	241	202	550	11	0.86	12	1130	88	61	0.31	101	< 10	122			
TY 6800E 4125N	241	202	815	9	0.87	15	1360	120	77	0.35	116	< 10	120			
TY 6800E 4150N	241	202	650	15	0.53	31	840	72	63	0.40	136	< 10	158			
TY 6800E 4175N	241	202	675	13	0.84	22	1370	68	73	0.32	132	< 10	100			
TY 6800E 4200N	241	202	535	21	0.69	18	1100	40	77	0.33	133	< 10	102			
TY 6800E 4225N	241	202	1650	12	0.78	27	1370	88	85	0.31	129	< 10	140			
TY 6800E 4250N	241	202	745	11	0.68	26	1280	72	63	0.33	119	< 10	120			
TY 6800E 4275N	241	202	530	9	0.94	24	840	38	131	0.33	111	< 10	88			
TY 6800E 4300N	241	202	1105	14	0.59	26	980	64	123	0.16	80	< 10	160			
TY 6800E 4325N	241	202	1470	13	0.89	24	1760	68	187	0.22	107	< 10	190			
TY 6800E 4350N	241	202	325	28	0.39	19	980	48	48	0.25	189	< 10	112			
TY 6800E 4375N	241	202	285	36	0.51	12	890	28	78	0.19	174	< 10	84			
TY 6800E 4400N	241	202	215	14	0.73	9	920	20	146	0.17	107	< 10	50			
TY 6800E 4425N	241	202	895	38	0.72	16	1260	30	115	0.17	106	< 10	128			
TY 6800E 4450N	241	202	1245	54	0.48	17	1120	58	64	0.19	120	< 10	166			
TY 6800E 4475N	241	202	870	60	0.66	11	1160	62	84	0.19	113	< 10	122			
TY 6800E 4500N	241	202	320	33	0.80	11	1100	58	138	0.20	130	< 10	76			
TY 6800E 4525N	241	202	440	37	0.75	13	850	58	114	0.23	133	< 10	98			
TY 7000E 3800N	241	202	255	10	0.80	9	1020	54	115	0.31	123	< 10	86			

CERTIFICATION: Hart Bradley

*INTERFERENCE: Cu ON Bi AND P.

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SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
TY 7000E 3825N	241	202	< 5	0.6	6.56	980	0.5	< 2	0.54	0.5	9	53	121	6.48	1.53	1.41
TY 7000E 3850N	241	202	< 5	0.2	7.07	1130	1.0	< 2	0.61	< 0.5	5	37	95	2.88	1.89	0.82
TY 7000E 3875N	241	202	10	< 0.2	7.37	1060	1.0	< 2	0.55	< 0.5	6	31	140	2.61	2.09	0.69
TY 7000E 3900N	241	202	< 5	< 0.2	8.23	1400	1.0	< 2	0.64	< 0.5	5	41	184	2.91	2.28	0.83
TY 7000E 3925N	241	202	20	0.4	8.97	1480	2.0	< 2	0.49	1.5	39	51	3950	4.74	2.51	1.35
TY 7000E 3950N	241	202	20	< 0.2	9.24	1720	1.5	< 2	0.37	4.5	90	39	4410	5.30	2.62	1.66
TY 7000E 3975N	241	202	20	< 0.2	8.08	1460	1.0	< 2	0.68	2.0	8	40	763	3.43	2.53	1.11
TY 7000E 4000N	241	202	< 5	< 0.2	11.65	1580	2.5	< 2	0.10	< 0.5	11	110	188	7.33	4.00	1.08
TY 7000E 4025N	241	202	< 5	< 0.2	10.65	1700	2.0	< 2	0.26	3.0	16	106	4050	6.02	3.88	1.22
TY 7000E 4050N	241	202	< 5	< 0.2	9.24	1690	1.5	< 2	0.20	< 0.5	6	52	193	5.34	3.15	0.98
TY 7000E 4075N	241	202	< 5	< 0.2	9.12	1740	1.5	< 2	0.19	0.5	5	49	162	7.02	3.29	1.08
TY 7000E 4100N	241	202	< 5	< 0.2	8.15	1450	1.0	< 2	0.18	0.5	6	50	141	5.83	2.74	1.00
TY 7000E 4125N	241	202	5	< 0.2	8.76	1340	1.5	< 2	0.25	< 0.5	7	33	125	4.43	2.71	0.85
TY 7000E 4150N	241	202	< 5	< 0.2	7.70	1250	1.0	< 2	0.28	< 0.5	5	46	138	4.89	2.42	0.85
TY 7000E 4175N	241	202	< 5	0.4	7.78	1460	1.0	< 2	0.25	< 0.5	6	54	160	5.97	2.61	0.97
TY 7000E 4200N	241	202	< 5	< 0.2	8.29	1640	1.5	< 2	0.21	0.5	6	57	310	5.68	3.08	0.99
TY 7000E 4225N	241	202	10	< 0.2	8.01	1370	1.5	< 2	0.40	< 0.5	5	52	103	3.63	2.73	0.86
TY 7000E 4250N	241	202	10	0.6	9.03	1540	1.0	< 2	0.66	< 0.5	5	98	147	5.89	3.08	1.38
TY 7000E 4275N	241	202	15	0.2	8.52	1280	1.0	< 2	0.38	< 0.5	6	64	187	5.85	2.66	1.19
TY 7000E 4300N	241	202	25	0.8	9.70	1610	1.5	< 2	0.27	< 0.5	7	68	355	5.19	3.61	1.51
TY 7000E 4325N	241	202	< 5	< 0.2	7.67	1010	1.0	< 2	0.86	0.5	3	103	174	5.35	2.39	1.28
TY 7000E 4350N	241	202	25	< 0.2	8.51	1580	1.5	< 2	0.90	2.0	14	80	1330	5.19	3.04	1.70
TY 7000E 4375N	241	202	< 5	0.4	9.69	2340	2.0	< 2	0.34	0.5	15	39	250	5.05	4.06	1.14
TY 7000E 4400N	241	202	< 5	0.4	8.25	1900	1.5	< 2	0.21	< 0.5	5	29	101	3.87	3.51	0.93
TY 7000E 4425N	241	202	< 5	0.6	10.40	2290	2.0	< 2	0.47	0.5	11	60	286	4.91	4.26	1.47
TY 7000E 4450N	241	202	< 5	0.4	10.50	2510	2.0	< 2	0.27	< 0.5	9	39	231	4.50	4.50	1.24
TY 7000E 4475N	241	202	35	< 0.2	9.00	1730	1.5	< 2	0.60	< 0.5	10	57	287	4.52	3.45	1.36
TY 7000E 4500N	241	202	25	< 0.2	9.46	1800	1.5	< 2	0.59	0.5	12	57	428	4.88	3.58	1.46
TY 7000E 4525N	241	202	30	< 0.2	8.35	1450	1.5	< 2	0.75	0.5	18	58	359	4.46	3.12	1.42
TY 7200E 3800N	241	202	10	1.0	9.07	1560	1.5	< 2	0.47	< 0.5	12	36	294	3.08	2.99	1.30
TY 7200E 3825N	241	202	< 5	1.4	7.73	1310	1.0	< 2	0.52	0.5	7	52	280	3.91	2.22	0.87
TY 7200E 3850N	241	202	130	0.4	8.16	1090	1.0	< 2	0.72	< 0.5	5	56	164	3.56	2.57	1.05
TY 7200E 3875N	241	202	110	0.2	7.50	950	1.0	< 2	1.39	< 0.5	5	15	53	1.58	2.28	0.54
TY 7200E 3900N	241	202	< 5	0.4	8.96	1040	1.0	< 2	1.01	< 0.5	5	68	174	3.42	2.56	1.19
TY 7200E 3925N	241	202	< 5	< 0.2	8.53	1800	1.5	< 2	0.35	< 0.5	5	44	177	3.40	2.83	0.81
TY 7200E 3950N	241	202	< 5	0.4	7.80	1080	0.5	< 2	0.44	0.5	27	55	480	5.77	2.24	1.07
TY 7200E 3975N	241	202	< 5	1.0	10.70	1390	1.5	< 2	0.10	1.5	38	10	1135	5.94	4.33	0.57
TY 7200E 4000N	241	202	< 5	0.4	8.25	1270	1.0	4	0.56	2.5	30	41	2290	5.85	2.60	1.13
TY 7200E 4025N	241	202	< 5	< 0.2	8.29	1060	1.0	6	0.51	1.5	38	43	1890	4.50	2.52	0.89
TY 7200E 4050N	241	202	15	0.2	8.60	910	3.0	Intf*	0.42	2.5	77	47	>10000	3.81	1.96	0.98

CERTIFICATION: Hart Bichler

*INTERFERENCE: Cu ON Bi AND P.

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TY 7000E 3825N	241	202	870	8	0.79	24	2360	66	124	0.79	169	< 10	90			
TY 7000E 3850N	241	202	350	7	1.17	12	1350	32	166	0.55	131	< 10	58			
TY 7000E 3875N	241	202	275	14	1.20	10	660	20	158	0.35	123	< 10	62			
TY 7000E 3900N	241	202	205	23	0.90	11	780	22	136	0.46	192	< 10	58			
TY 7000E 3925N	241	202	1515	38	0.59	36	1400	58	93	0.25	124	< 10	206			
TY 7000E 3950N	241	202	3460	47	0.58	63	1100	50	73	0.34	174	< 10	308			
TY 7000E 3975N	241	202	450	35	0.72	21	480	22	99	0.27	145	< 10	210			
TY 7000E 4000N	241	202	640	36	0.37	22	660	28	49	0.35	209	< 10	142			
TY 7000E 4025N	241	202	1200	46	0.37	50	760	28	65	0.53	151	< 10	310			
TY 7000E 4050N	241	202	365	22	0.75	10	610	58	85	0.34	144	< 10	94			
TY 7000E 4075N	241	202	415	14	0.67	13	790	52	75	0.32	129	< 10	98			
TY 7000E 4100N	241	202	420	12	0.65	11	620	42	63	0.30	122	< 10	100			
TY 7000E 4125N	241	202	405	14	1.06	10	590	32	86	0.29	112	< 10	94			
TY 7000E 4150N	241	202	400	14	0.75	12	570	40	73	0.35	136	< 10	80			
TY 7000E 4175N	241	202	465	13	0.72	16	880	58	93	0.33	126	< 10	92			
TY 7000E 4200N	241	202	440	42	0.60	17	690	100	72	0.34	144	< 10	142			
TY 7000E 4225N	241	202	340	27	0.84	8	540	34	122	0.33	145	< 10	82			
TY 7000E 4250N	241	202	400	23	0.82	13	780	64	134	0.41	170	< 10	112			
TY 7000E 4275N	241	202	435	36	0.73	11	600	46	93	0.33	157	< 10	84			
TY 7000E 4300N	241	202	465	16	0.70	14	590	112	81	0.30	138	< 10	108			
TY 7000E 4325N	241	202	260	17	1.00	9	1040	50	175	0.45	172	< 10	52			
TY 7000E 4350N	241	202	710	24	0.76	25	890	54	122	0.29	124	< 10	234			
TY 7000E 4375N	241	202	1180	11	0.64	10	890	80	89	0.25	94	< 10	144			
TY 7000E 4400N	241	202	485	8	0.67	7	610	70	75	0.25	73	< 10	92			
TY 7000E 4425N	241	202	855	14	0.71	14	970	90	96	0.26	118	< 10	162			
TY 7000E 4450N	241	202	640	11	0.64	11	700	84	83	0.26	93	< 10	140			
TY 7000E 4475N	241	202	680	15	0.79	14	830	76	112	0.29	110	< 10	152			
TY 7000E 4500N	241	202	745	20	0.82	16	900	80	115	0.28	124	< 10	170			
TY 7000E 4525N	241	202	990	18	0.80	14	810	80	107	0.25	113	< 10	164			
TY 7200E 3800N	241	202	365	16	0.73	15	970	20	123	0.25	135	< 10	66			
TY 7200E 3825N	241	202	440	17	0.81	15	1600	40	151	0.27	147	< 10	82			
TY 7200E 3850N	241	202	270	32	0.95	10	750	24	175	0.30	144	< 10	60			
TY 7200E 3875N	241	202	315	5	2.28	3	450	12	442	0.18	49	< 10	44			
TY 7200E 3900N	241	202	275	34	0.79	10	940	26	149	0.38	181	< 10	50			
TY 7200E 3925N	241	202	215	17	0.79	9	690	44	117	0.35	154	< 10	74			
TY 7200E 3950N	241	202	2770	43	0.84	18	1140	64	125	0.31	143	< 10	104			
TY 7200E 3975N	241	202	1800	47	0.38	8	560	212	60	0.16	67	< 10	330			
TY 7200E 4000N	241	202	1590	48	0.69	24	810	40	118	0.24	132	< 10	366			
TY 7200E 4025N	241	202	1265	32	0.92	33	840	80	154	0.26	122	< 10	246			
TY 7200E 4050N	241	202	2190	30	0.61	49	Intf*	36	90	0.23	106	< 10	218			

CERTIFICATION: Ian Bradley

*INTERFERENCE: Cu ON Bi AND P.

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN: DAVID TERRY

Certificate Date: 17-AUG-96
Invoice No. :19627252
P.O. Number :
Account :GP W

*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9627252

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
TY 7200E 4075N	241 202	< 5	< 0.2	7.49	1090	1.0	< 2	0.57	< 0.5	6	61	605	4.01	2.04	1.04
TY 7200E 4100N	241 202	20	< 0.2	8.89	1020	1.5	< 2	0.50	1.5	21	67	5200	4.55	2.38	1.37
TY 7200E 4125N	241 202	10	< 0.2	8.06	1050	1.5	< 2	0.73	1.0	25	60	3940	4.02	2.25	1.23
TY 7200E 4150N	241 202	< 5	< 0.2	7.96	1250	1.0	< 2	1.03	2.0	16	58	2880	3.64	2.36	1.03
TY 7200E 4175N	241 202	not/ss	< 0.2	5.64	920	0.5	< 2	1.56	5.0	11	37	5230	2.39	1.56	0.80
TY 7200E 4200N	241 202	< 5	< 0.2	9.49	1270	1.5	< 2	0.96	< 0.5	4	33	194	2.82	2.68	0.80
TY 7200E 4225N	241 202	50	2.6	8.71	1200	1.5	< 2	0.97	2.5	129	23	1975	5.95	2.87	0.98
TY 7200E 4250N	241 202	20	1.6	9.08	1270	1.5	< 2	1.20	1.5	25	42	2640	3.95	2.95	1.16
TY 7200E 4275N	241 202	< 5	< 0.2	7.55	960	1.0	< 2	1.60	< 0.5	7	18	470	1.98	2.26	0.74
TY 7200E 4300N	241 202	25	< 0.2	9.06	1410	1.5	< 2	0.87	1.0	26	78	1835	5.15	3.29	1.69
TY 7200E 4325N	241 202	15	< 0.2	9.29	1730	2.0	< 2	0.58	< 0.5	10	75	1625	4.15	3.36	1.79
TY 7200E 4350N	241 202	20	< 0.2	7.95	1310	1.5	< 2	0.92	1.5	8	60	2550	4.29	2.74	1.38
TY 7200E 4375N	241 202	not/ss	< 0.2	7.53	1210	1.5	< 2	1.22	2.0	8	44	3120	3.21	2.46	1.01
TY 7200E 4400N	241 202	not/ss	< 0.2	7.21	1160	1.5	< 2	1.26	1.5	5	40	1110	2.10	2.44	0.93
TY 7200E 4425N	241 202	< 5	< 0.2	8.72	1600	1.5	< 2	0.65	< 0.5	8	60	459	3.85	3.43	1.47
TY 7200E 4450N	241 202	< 5	< 0.2	7.56	1110	1.5	< 2	1.22	< 0.5	6	28	305	2.35	2.58	0.88
TY 7200E 4475N	241 202	< 5	0.6	7.05	1230	1.5	< 2	0.86	0.5	6	43	603	2.85	2.59	1.03
TY 7200E 4500N	241 202	15	< 0.2	6.87	1220	1.5	< 2	0.85	1.0	11	52	816	4.07	2.63	1.20
TY 7200E 4525N	241 202	10	< 0.2	6.60	1030	1.0	< 2	1.36	2.5	17	28	932	2.95	2.18	0.80
TY 7200E 4550N	241 202	< 5	< 0.2	6.66	1060	1.0	< 2	0.93	0.5	7	45	233	3.00	2.30	1.25
TY 7200E 4575N	241 202	10	< 0.2	8.65	1500	1.5	< 2	0.61	< 0.5	7	61	239	3.95	3.32	1.48
TY 7200E 4600N	241 202	< 5	< 0.2	6.69	1060	1.0	< 2	0.78	0.5	7	44	139	3.48	2.44	1.02
TY 7200E 4625N	241 202	< 5	< 0.2	5.22	860	0.5	< 2	0.78	< 0.5	13	37	79	3.28	2.09	0.89
TY 7200E 4650N	241 202	5	< 0.2	7.77	1710	2.0	< 2	0.80	< 0.5	15	58	145	3.88	3.22	1.49
TY 7200E 4675N	241 202	< 5	< 0.2	9.07	1780	2.0	< 2	0.61	0.5	8	52	719	4.59	3.50	1.27
TY 7200E 4700N	241 202	< 5	0.4	5.67	1090	1.5	< 2	1.48	0.5	9	34	64	2.65	1.95	1.00
TY 7200E 4725N	241 202	< 5	< 0.2	5.92	1260	1.5	< 2	1.95	1.0	10	57	66	3.29	2.02	1.13
TY 7200E 4750N	241 202	< 5	< 0.2	6.32	900	1.0	< 2	1.74	6.0	11	30	32	3.68	2.06	1.30
TY 7200E 4775N	241 202	< 5	< 0.2	7.60	1460	1.5	< 2	1.41	< 0.5	9	62	27	3.40	2.69	1.38
TY 7200E 4800N	241 202	not/ss	< 0.2	6.12	890	1.0	< 2	2.10	< 0.5	7	13	36	1.76	1.72	0.66
TY 7200E 4825N	241 202	< 5	0.4	6.24	1630	1.5	< 2	1.61	< 0.5	10	52	34	2.83	2.06	1.13
TY 7200E 4850N	241 202	< 5	0.4	6.99	1620	1.5	< 2	1.61	< 0.5	10	55	27	3.02	2.27	1.23
TY 7200E 4875N	241 202	< 5	< 0.2	6.41	1670	1.5	< 2	1.52	0.5	18	56	26	3.39	2.26	1.29
TY 7200E 4900N	241 202	not/ss	0.6	6.43	1800	1.5	< 2	1.33	1.0	10	60	40	2.88	2.30	1.22
TY 7200E 4925N	241 202	not/ss	0.4	6.13	1540	1.5	< 2	1.50	< 0.5	10	50	38	2.95	2.04	1.07
TY 7200E 4950N	241 202	< 5	0.2	6.96	1650	1.5	< 2	1.51	1.0	14	63	38	3.63	2.73	1.44
TY 7200E 4975N	241 202	not/ss	0.6	6.05	1540	1.5	< 2	1.27	1.0	11	38	56	2.68	1.92	0.94
TY 7200E 5000N	241 202	< 5	0.6	7.03	1190	1.5	< 2	1.52	0.5	9	23	31	2.21	2.24	0.79

CERTIFICATION:

*INTERFERENCE: Cu ON Bi AND P.

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN: DAVID TERRY

Page Number :5-B
Total Pages :5
Certificate Date: 17-AUG-96
Invoice No. :I9627252
P.O. Number :
Account :GP W

*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9627252

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
TY 7200E 4075N	241	202	340	18	0.83	15	420	32	115	0.30	132	< 10	94			
TY 7200E 4100N	241	202	740	42	0.63	29	1140	30	80	0.23	127	< 10	194			
TY 7200E 4125N	241	202	940	34	0.88	26	1130	28	138	0.24	114	< 10	170			
TY 7200E 4150N	241	202	485	34	1.16	23	610	14	211	0.28	119	< 10	202			
TY 7200E 4175N	241	202	365	13	0.88	46	1050	18	221	0.16	62	< 10	354			
TY 7200E 4200N	241	202	255	68	1.11	4	290	26	188	0.36	160	< 10	50			
TY 7200E 4225N	241	202	3980	71	0.95	23	960	80	193	0.23	96	< 10	236			
TY 7200E 4250N	241	202	995	31	1.10	25	800	54	226	0.25	113	< 10	242			
TY 7200E 4275N	241	202	370	7	2.17	8	330	18	422	0.22	60	< 10	80			
TY 7200E 4300N	241	202	1265	48	0.80	28	980	56	119	0.30	139	< 10	266			
TY 7200E 4325N	241	202	1050	52	0.71	22	800	64	115	0.32	163	< 10	208			
TY 7200E 4350N	241	202	635	47	0.78	28	1050	66	152	0.29	124	< 10	242			
TY 7200E 4375N	241	202	550	35	1.22	20	1130	64	255	0.21	92	< 10	176			
TY 7200E 4400N	241	202	345	10	1.39	14	810	20	273	0.22	79	< 10	88			
TY 7200E 4425N	241	202	600	37	0.87	16	680	48	115	0.30	125	< 10	132			
TY 7200E 4450N	241	202	410	13	1.74	8	700	30	329	0.23	73	< 10	74			
TY 7200E 4475N	241	202	425	25	0.97	15	900	50	154	0.26	98	< 10	96			
TY 7200E 4500N	241	202	810	50	0.83	21	1270	48	122	0.29	103	< 10	160			
TY 7200E 4525N	241	202	1435	41	1.59	13	1080	36	316	0.22	67	< 10	102			
TY 7200E 4550N	241	202	580	23	1.04	14	790	28	148	0.28	98	< 10	90			
TY 7200E 4575N	241	202	575	41	0.82	16	990	48	107	0.32	133	< 10	126			
TY 7200E 4600N	241	202	520	11	1.14	13	690	44	159	0.28	82	< 10	80			
TY 7200E 4625N	241	202	585	4	1.10	19	770	40	136	0.29	64	< 10	70			
TY 7200E 4650N	241	202	845	7	1.00	29	950	46	120	0.37	116	< 10	122			
TY 7200E 4675N	241	202	550	22	0.88	19	1010	66	120	0.28	121	< 10	180			
TY 7200E 4700N	241	202	705	3	1.09	20	1060	30	212	0.22	66	< 10	112			
TY 7200E 4725N	241	202	1285	3	1.12	32	1810	26	215	0.33	92	< 10	116			
TY 7200E 4750N	241	202	795	1	1.80	21	740	18	257	0.59	106	< 10	246			
TY 7200E 4775N	241	202	665	2	1.44	22	980	20	233	0.32	104	< 10	110			
TY 7200E 4800N	241	202	665	2	1.99	13	1130	12	446	0.19	44	< 10	56			
TY 7200E 4825N	241	202	790	1	1.21	23	1260	24	208	0.28	87	< 10	100			
TY 7200E 4850N	241	202	695	3	1.35	24	1180	20	232	0.31	97	< 10	112			
TY 7200E 4875N	241	202	2570	3	1.17	26	960	22	181	0.32	104	< 10	120			
TY 7200E 4900N	241	202	630	1	1.06	28	1170	18	165	0.27	95	< 10	116			
TY 7200E 4925N	241	202	650	3	1.34	23	1330	22	221	0.29	86	< 10	98			
TY 7200E 4950N	241	202	925	3	1.29	28	850	26	174	0.37	114	< 10	116			
TY 7200E 4975N	241	202	810	2	1.29	26	1040	20	237	0.25	79	< 10	92			
TY 7200E 5000N	241	202	535	2	2.06	14	610	12	392	0.23	62	< 10	76			

CERTIFICATION: Hart Bichler

*INTERFERENCE: Cu ON Bi AND P.

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9627829

Comments: ATTN: DAVID TERRY

CERTIFICATE A9627829

(GP W) - WESTMIN RESOURCES LTD.

Project:
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 28-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	103	Dry, sieve to -80 mesh
202	103	save reject
285	103	ICP - HF digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	103	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
578	103	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	103	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	103	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	103	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	103	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	103	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	103	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	103	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	103	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	103	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	103	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	103	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	103	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	103	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	103	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	103	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	103	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	103	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	103	Pb ppm: 24 element, rock & core	AAS	2	10000
582	103	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	103	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	103	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	103	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	103	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project :
Comments: ATTN: DAVID TERRY

Certificate Date: 28-AUG-96
Invoice No. :I9627829
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627829

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
133131-SS	201	202	10	< 0.2	8.68	1430	1.5	< 2	0.52	2.5	22	57	230	5.02	3.40	1.23
133132-SS	201	202	< 5	< 0.2	8.47	1420	1.0	< 2	0.41	2.0	19	48	229	4.44	3.23	1.08
133133-SS	201	202	< 5	0.2	8.46	1420	1.5	< 2	0.60	2.0	21	54	206	4.94	3.34	1.31
133134-SS	201	202	< 5	0.2	8.75	1450	1.5	< 2	0.45	1.5	18	51	186	4.26	3.40	1.13
133135-SS	201	202	15	< 0.2	8.67	1500	1.5	< 2	0.49	2.0	18	51	281	4.41	3.40	1.18
133136-SS	201	202	< 5	0.2	8.86	1510	1.5	< 2	0.51	2.0	19	52	287	4.69	3.42	1.23
133137-SS	201	202	< 5	0.2	8.31	1430	1.5	< 2	0.48	2.0	17	49	326	4.59	3.29	1.15
133138-SS	201	202	< 5	0.2	7.90	1400	1.5	< 2	0.59	2.0	18	50	238	4.40	3.18	1.20
133139-SS	201	202	< 5	< 0.2	8.63	1640	1.5	< 2	0.84	2.5	21	50	232	4.87	3.54	1.51
133140-SS	201	202	< 5	< 0.2	8.55	1670	1.5	< 2	0.53	1.5	27	83	321	5.10	3.28	1.86
133141-SS	201	202	55	< 0.2	8.88	1750	1.5	< 2	0.77	2.5	32	72	303	5.47	3.46	1.82
133142-SS	201	202	15	< 0.2	8.74	1580	1.5	< 2	0.75	3.5	54	68	1070	5.46	3.15	1.68
133143-SS	201	202	< 5	< 0.2	8.62	1630	1.5	< 2	0.70	2.0	26	70	349	4.68	3.27	1.80
133144-SS	201	202	< 5	< 0.2	8.14	1520	1.0	< 2	0.68	2.5	31	67	400	5.15	3.06	1.61
133145-SS	201	202	< 5	0.8	8.79	1700	1.5	< 2	0.79	3.5	42	70	568	4.72	3.33	1.81
133146-SS	201	202	< 5	< 0.2	8.83	1690	1.5	< 2	0.74	3.5	34	75	366	4.44	3.34	1.87
133147-SS	201	202	< 5	< 0.2	8.73	1700	1.5	< 2	0.73	4.0	40	74	392	4.44	3.25	1.85
133148-SS	201	202	< 5	< 0.2	8.83	1760	1.5	< 2	0.70	5.0	54	76	574	4.79	3.36	1.85
133149-SS	201	202	< 5	< 0.2	8.54	1590	1.5	< 2	0.80	5.0	56	72	629	5.25	3.24	1.82
133150-SS	201	202	< 5	< 0.2	8.67	1780	1.5	< 2	0.74	5.0	53	71	549	4.70	3.23	1.85
270800	201	202	< 5	< 0.2	6.05	1240	0.5	< 2	1.05	0.5	7	37	33	2.14	1.76	0.57
270801	201	202	< 5	< 0.2	6.57	1170	0.5	< 2	1.38	1.0	12	22	37	2.10	1.62	0.57
270802	201	202	< 5	< 0.2	5.63	1330	0.5	< 2	0.63	1.5	13	47	35	2.44	1.69	0.46
270803	201	202	< 5	< 0.2	4.62	1520	0.5	< 2	0.46	1.0	16	48	39	2.49	1.55	0.41
270804	201	202	< 5	< 0.2	4.37	1470	0.5	< 2	0.21	< 0.5	10	52	45	2.95	1.59	0.45
270805	201	202	< 5	1.0	4.78	1150	0.5	< 2	0.61	< 0.5	8	57	40	2.84	1.55	0.54
270806	201	202	< 5	0.6	5.80	1370	0.5	< 2	0.89	0.5	15	35	43	2.35	1.56	0.49
270807	201	202	< 5	1.0	6.28	1050	0.5	< 2	1.07	< 0.5	11	36	38	2.48	1.71	0.52
270808	201	202	< 5	0.8	6.32	910	0.5	< 2	1.18	< 0.5	5	17	31	1.79	1.68	0.48
270809	201	202	< 5	0.4	5.09	1070	0.5	< 2	0.71	< 0.5	10	60	36	2.90	1.47	0.60
270810	201	202	< 5	0.6	3.56	1380	0.5	< 2	0.52	1.0	17	49	41	2.83	1.07	0.59
270811	201	202	< 5	2.0	6.40	880	0.5	< 2	1.27	< 0.5	5	17	30	1.58	1.64	0.45
270812	201	202	< 5	0.8	5.26	1090	0.5	< 2	0.85	0.5	9	47	32	2.57	1.45	0.59
270813	201	202	< 5	< 0.2	5.82	1050	0.5	< 2	1.08	< 0.5	10	44	34	2.79	1.53	0.66
270814	201	202	< 5	< 0.2	5.11	1510	0.5	< 2	0.50	< 0.5	9	71	49	3.45	1.48	0.69
270815	201	202	< 5	< 0.2	5.25	1180	0.5	< 2	0.53	< 0.5	8	66	44	4.12	1.37	0.84
270816	201	202	< 5	< 0.2	5.76	1430	0.5	< 2	0.72	< 0.5	8	55	38	2.33	1.70	0.51
270817	201	202	< 5	< 0.2	6.42	1130	0.5	< 2	1.08	< 0.5	6	28	32	1.96	1.79	0.47
270818	201	202	< 5	< 0.2	6.53	1160	0.5	< 2	1.19	< 0.5	9	22	30	1.97	1.59	0.49
270819	201	202	< 5	< 0.2	5.29	1420	0.5	< 2	0.58	< 0.5	11	66	45	3.55	1.58	0.48

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project :
Comments: ATTN: DAVID TERRY

Page Number :1-B
Total Pages :5
Certificate Date: 28-AUG-96
Invoice No. :I9627829
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627829

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
133131-SS	201	202	1400	7	1.09	22	880	172	129	0.28	118	< 10	420			
133132-SS	201	202	1190	8	1.00	20	730	144	107	0.26	113	< 10	348			
133133-SS	201	202	1210	8	1.02	23	860	148	141	0.28	111	< 10	360			
133134-SS	201	202	1015	6	0.99	18	780	100	119	0.26	117	< 10	302			
133135-SS	201	202	1020	9	0.98	20	760	126	121	0.26	112	< 10	308			
133136-SS	201	202	1150	10	1.02	18	840	106	120	0.27	117	< 10	324			
133137-SS	201	202	1115	13	1.01	19	770	108	119	0.26	108	< 10	350			
133138-SS	201	202	970	6	0.99	18	830	120	135	0.27	103	< 10	334			
133139-SS	201	202	1375	9	0.96	20	830	120	150	0.29	111	< 10	376			
133140-SS	201	202	1320	18	0.74	19	820	96	109	0.31	133	< 10	330			
133141-SS	201	202	1455	14	0.85	24	830	100	139	0.30	130	< 10	390			
133142-SS	201	202	2320	10	0.88	29	770	92	136	0.29	120	< 10	532			
133143-SS	201	202	1370	9	0.97	20	700	60	124	0.27	124	< 10	352			
133144-SS	201	202	1530	9	0.94	22	750	88	132	0.28	112	< 10	346			
133145-SS	201	202	1930	9	0.96	29	690	84	135	0.28	122	< 10	520			
133146-SS	201	202	1875	9	0.89	29	630	58	124	0.28	123	< 10	402			
133147-SS	201	202	2230	12	1.02	33	680	84	125	0.28	128	< 10	468			
133148-SS	201	202	2640	9	0.94	41	750	74	127	0.29	130	< 10	624			
133149-SS	201	202	2490	8	0.93	42	780	82	144	0.30	124	< 10	676			
133150-SS	201	202	2530	9	0.95	39	740	72	129	0.29	128	< 10	634			
270800	201	202	540	4	1.69	15	1700	26	310	0.31	80	< 10	90			
270801	201	202	3680	5	1.98	11	1830	24	423	0.25	65	< 10	76			
270802	201	202	3770	4	1.21	18	2470	34	192	0.32	85	< 10	84			
270803	201	202	4060	3	0.75	21	2890	40	114	0.30	91	< 10	114			
270804	201	202	1085	2	0.43	25	2350	28	50	0.25	87	< 10	106			
270805	201	202	755	2	0.86	23	1630	44	135	0.36	92	< 10	132			
270806	201	202	7210	3	1.46	13	2870	52	273	0.30	79	< 10	88			
270807	201	202	1845	3	1.77	14	1850	40	329	0.30	71	< 10	74			
270808	201	202	865	2	1.96	10	1980	22	383	0.21	48	< 10	58			
270809	201	202	615	2	1.11	24	1910	34	173	0.33	88	< 10	90			
270810	201	202	4290	3	0.64	29	2700	50	79	0.33	89	< 10	126			
270811	201	202	445	2	2.13	9	2500	14	414	0.22	42	< 10	46			
270812	201	202	705	3	1.45	23	2590	28	240	0.36	79	< 10	80			
270813	201	202	1630	3	1.65	17	2230	26	303	0.39	88	< 10	68			
270814	201	202	675	3	0.81	28	1790	30	107	0.45	134	< 10	102			
270815	201	202	575	3	1.01	32	1230	56	113	0.48	118	< 10	106			
270816	201	202	775	3	1.36	21	1120	30	222	0.50	105	< 10	88			
270817	201	202	420	2	1.96	12	1520	16	363	0.31	72	< 10	70			
270818	201	202	1675	4	1.91	10	1930	16	384	0.26	59	< 10	66			
270819	201	202	480	3	1.12	34	1090	20	165	0.45	123	< 10	124			

CERTIFICATION: Ian Bichler

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Page : Per :2-A
Total Pages :5
Certificate Date: 28-AUG-96
Invoice No. :I9627829
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627829

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
270820	201	202	< 5	< 0.2	4.98	1440	0.5	< 2	0.59	< 0.5	10	46	39	2.74	1.44	0.48
270821	201	202	< 5	< 0.2	4.35	1430	0.5	< 2	0.40	< 0.5	12	60	64	3.51	1.18	0.70
270822	201	202	< 5	< 0.2	4.44	1530	0.5	< 2	0.38	0.5	10	73	48	2.36	1.33	0.35
270823	201	202	< 5	< 0.2	5.19	1430	0.5	< 2	0.62	< 0.5	9	59	54	2.66	1.52	0.45
270824	201	202	< 5	< 0.2	4.79	1400	0.5	< 2	0.46	< 0.5	9	69	53	3.29	1.44	0.56
270825	201	202	< 5	< 0.2	5.59	1120	0.5	< 2	0.75	< 0.5	8	65	36	3.54	1.50	0.81
270826	201	202	< 5	0.4	6.24	1050	0.5	< 2	1.18	0.5	7	28	30	1.83	1.64	0.49
270827	201	202	< 5	< 0.2	5.39	1140	0.5	< 2	0.88	< 0.5	6	31	44	1.96	1.49	0.40
270828	201	202	< 5	< 0.2	5.50	1680	1.0	< 2	0.56	1.0	11	89	41	3.05	1.63	0.51
270829	201	202	< 5	< 0.2	3.87	1380	0.5	< 2	0.31	0.5	7	85	80	2.40	0.95	0.34
270830	201	202	< 5	< 0.2	3.77	1560	0.5	< 2	0.41	< 0.5	8	88	73	2.79	1.17	0.49
270831	201	202	< 5	< 0.2	4.51	2000	1.0	< 2	0.50	0.5	9	114	73	2.94	1.57	0.52
270832	201	202	< 5	0.6	4.67	1370	1.0	< 2	0.92	< 0.5	11	95	68	2.99	1.21	0.73
270833	201	202	< 5	0.4	5.08	1630	1.5	< 2	0.81	< 0.5	10	102	64	2.91	1.35	0.81
270834	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270835	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270836	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270837	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270838	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270839	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270840	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270841	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270842	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270843	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270844	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270845	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270846	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270847	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270848	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270849	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270850	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270851	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270852	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270853	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270854	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270855	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270856	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270857	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270858	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270859	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd

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270820	201	202	1115	4	1.15	23	1200	16	169	0.41	98	< 10	124			
270821	201	202	435	4	0.64	38	890	22	83	0.48	118	< 10	106			
270822	201	202	1365	4	0.59	33	1250	18	95	0.37	121	< 10	146			
270823	201	202	1140	3	1.05	33	920	16	187	0.46	123	< 10	106			
270824	201	202	655	4	0.69	37	1330	22	101	0.39	135	< 10	114			
270825	201	202	605	4	1.11	25	1660	20	166	0.48	124	< 10	92			
270826	201	202	2110	3	1.94	10	1510	14	383	0.28	67	< 10	66			
270827	201	202	800	3	1.55	13	2140	30	293	0.26	67	< 10	72			
270828	201	202	2540	4	1.03	26	2080	36	133	0.56	167	< 10	164			
270829	201	202	955	6	0.45	41	2710	22	67	0.28	158	< 10	102			
270830	201	202	655	5	0.50	48	1230	26	74	0.30	155	< 10	122			
270831	201	202	355	6	0.54	54	1230	26	88	0.40	332	< 10	144			
270832	201	202	445	5	0.85	60	1650	42	129	0.35	177	< 10	158			
270833	201	202	430	4	0.88	56	1410	30	126	0.36	206	< 10	146			
270834	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270835	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
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270841	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270842	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270843	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270844	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270845	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270846	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270847	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270848	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270849	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270850	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270851	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270852	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270853	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270854	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
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270856	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270857	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270858	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270859	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			

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Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project :
Comments: ATTN: DAVID TERRY

Page Number :3-A
Total Pages :5
Certificate Date: 28-AUG-96
Invoice No. :I9627829
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627829

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
270860	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270861	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270862	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270863	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270864	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270865	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270866	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270867	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270868	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270869	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270870	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270871	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270872	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270873	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270874	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270875	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270876	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270877	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270878	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270879	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270880	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270881	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270882	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270883	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270884	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270885	201	202	< 5	0.6	5.48	2680	1.5	2	1.02	1.0	16	117	62	4.05	1.59	1.17
270886	201	202	< 5	0.4	6.14	7080	2.0	6	0.38	3.5	20	130	113	4.27	2.58	0.99
270887	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270888	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270889	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270890	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270891	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270892	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270893	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270894	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270895	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270896	201	202	< 5	0.4	5.62	2250	1.5	2	0.48	1.0	10	74	39	2.81	1.95	0.59
270897	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270898	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270899	201	202	< 5	1.6	6.18	1960	1.5	2	1.03	2.0	11	61	67	2.36	1.98	0.46

CERTIFICATION: Stewart Bradley

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270860	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270861	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270862	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270863	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270864	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270865	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270866	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270867	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270868	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270869	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270870	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270871	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270872	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270873	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270874	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270875	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270876	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270877	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270878	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270879	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270880	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270881	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270882	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270883	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270884	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270885	201	202	980	5	0.89	63	2020	22	157	0.50	216	< 10	194			
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270887	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270888	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270889	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270890	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270891	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270892	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270893	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270894	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270895	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270896	201	202	615	4	0.77	29	1720	22	100	0.43	148	< 10	140			
270897	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270898	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270899	201	202	1585	11	1.57	33	1540	42	289	0.21	116	< 10	210			

CERTIFICATION:

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270900	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270901	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270902	201	202	< 5	0.2	6.11	2620	1.5	2	0.55	9.0	10	31	33	1.92	2.66	0.48
270903	201	202	< 5	< 0.2	6.19	2220	1.5	< 2	0.47	1.0	9	29	32	2.18	2.66	0.49
270904	201	202	< 5	< 0.2	6.60	1140	0.5	4	1.46	2.5	10	17	28	1.94	1.81	0.56
270905	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270906	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270907	201	202	< 5	< 0.2	7.05	940	0.5	4	1.84	< 0.5	9	7	22	1.78	1.94	0.59
270908	201	202	< 5	< 0.2	5.45	4010	1.5	6	0.34	0.5	14	108	76	3.33	1.95	0.79
270909	201	202	< 5	< 0.2	5.11	2740	1.0	2	0.67	< 0.5	12	88	58	3.07	1.75	0.77
270910	201	202	< 5	< 0.2	5.78	1960	1.5	< 2	0.58	< 0.5	12	75	54	3.68	1.96	0.83
270911	201	202	< 5	< 0.2	5.10	1760	1.0	< 2	0.53	0.5	9	57	47	3.14	1.64	0.55
270912	201	202	< 5	< 0.2	4.98	1700	0.5	< 2	0.61	0.5	11	63	43	3.44	1.57	0.63
270913	201	202	< 5	< 0.2	4.95	1720	0.5	< 2	0.79	2.5	19	35	39	2.30	1.41	0.44
270914	201	202	< 5	< 0.2	5.61	1850	1.0	< 2	0.62	1.0	10	60	42	3.36	1.77	0.62
270915	201	202	< 5	< 0.2	4.77	2130	0.5	< 2	0.91	1.5	24	49	42	2.91	1.47	0.53
270916	201	202	< 5	0.6	4.01	1770	0.5	< 2	0.84	6.5	21	37	55	2.08	1.11	0.37
270917	201	202	< 5	< 0.2	6.43	1270	0.5	< 2	1.31	5.0	11	21	38	1.93	1.67	0.55
270918	201	202	< 5	0.4	4.91	1740	0.5	< 2	0.45	1.5	10	56	51	2.82	1.44	0.44
270919	201	202	< 5	0.4	3.15	1360	0.5	< 2	0.28	< 0.5	8	47	43	2.88	1.11	0.34
270920	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270921	201	202	< 5	0.4	5.70	1060	1.0	< 2	1.02	< 0.5	8	41	36	2.46	1.76	0.65
270922	201	202	< 5	0.4	5.65	1110	0.5	< 2	0.91	0.5	9	43	52	2.21	1.63	0.43
270923	201	202	< 5	0.6	5.44	1100	0.5	< 2	1.05	< 0.5	9	38	40	2.40	1.64	0.52
270924	201	202	< 5	0.4	5.77	1260	1.0	< 2	0.92	< 0.5	9	48	42	2.55	1.83	0.51
270925	201	202	< 5	1.0	5.58	1390	1.5	< 2	0.60	5.0	21	48	76	3.18	1.76	0.58
270926	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270927	201	202	< 5	0.6	5.09	1610	1.5	2	0.97	2.5	43	50	92	2.93	1.81	0.63
270928	201	202	< 5	0.6	5.04	1570	1.0	4	0.82	1.0	20	51	75	3.08	1.88	0.65
270929	201	202	< 5	< 0.2	5.68	1430	1.0	6	0.68	< 0.5	11	57	80	3.01	2.03	0.70
270930	201	202	< 5	1.0	5.81	1420	1.5	4	0.73	0.5	17	65	99	3.94	2.24	1.01
270931	201	202	< 5	< 0.2	5.77	1190	1.0	6	0.94	< 0.5	14	59	93	4.23	2.15	1.16
270932	201	202	< 5	< 0.2	5.58	1350	1.5	4	0.72	0.5	11	60	55	3.16	1.93	0.76
270933	201	202	< 5	0.4	5.63	990	1.0	2	1.00	< 0.5	10	39	50	2.85	1.82	0.74
270934	201	202	< 5	< 0.2	5.85	870	0.5	2	1.59	0.5	9	24	24	2.23	1.50	0.72
270935	201	202	< 5	< 0.2	6.00	980	0.5	4	1.48	0.5	10	15	22	1.75	1.70	0.55
270936	201	202	< 5	0.4	5.18	1660	0.5	2	0.97	4.5	28	26	32	1.93	1.54	0.46
270937	201	202	< 5	1.0	3.92	1170	1.0	4	0.53	2.0	31	49	57	2.67	1.02	0.52
270938	201	202	< 5	1.0	5.66	1050	1.5	2	1.19	0.5	20	35	41	2.39	1.56	0.65
270939	201	202	< 5	0.4	5.30	1300	1.0	2	1.06	0.5	14	39	37	2.45	1.57	0.61

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270900	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270901	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270902	201	202	5190	9	0.76	16	1630	290	116	0.24	77	< 10	308			
270903	201	202	3670	10	0.78	18	1530	90	115	0.28	83	< 10	180			
270904	201	202	2940	6	2.17	9	1560	22	442	0.24	57	< 10	82			
270905	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270906	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270907	201	202	1400	2	2.48	9	1150	8	537	0.22	45	< 10	92			
270908	201	202	835	8	0.47	55	1630	22	84	0.32	209	< 10	178			
270909	201	202	1350	7	0.76	44	1360	28	139	0.34	160	< 10	156			
270910	201	202	540	5	0.87	39	1820	54	116	0.40	149	< 10	154			
270911	201	202	1300	6	0.91	29	1520	24	128	0.40	126	< 10	134			
270912	201	202	1385	4	1.06	29	2040	28	124	0.44	124	< 10	136			
270913	201	202	5730	4	1.25	18	3900	24	213	0.30	77	< 10	150			
270914	201	202	885	5	1.23	27	1670	20	141	0.53	125	< 10	148			
270915	201	202	7150	5	1.00	25	3020	40	172	0.41	106	< 10	314			
270916	201	202	7650	4	0.88	34	3200	30	165	0.29	76	< 10	250			
270917	201	202	2080	4	1.90	15	2220	24	393	0.26	63	< 10	78			
270918	201	202	550	5	0.89	27	3780	24	124	0.45	132	< 10	114			
270919	201	202	1175	4	0.44	32	1710	20	64	0.27	114	< 10	120			
270920	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270921	201	202	885	4	1.45	20	1490	40	268	0.31	80	< 10	94			
270922	201	202	1170	9	1.51	17	2580	76	284	0.30	88	< 10	112			
270923	201	202	1010	5	1.59	19	1620	30	311	0.31	82	< 10	80			
270924	201	202	690	4	1.52	19	1570	34	275	0.36	99	< 10	92			
270925	201	202	4440	4	1.11	27	1860	68	152	0.40	99	< 10	246			
270926	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270927	201	202	5380	3	1.03	23	3710	40	181	0.32	89	< 10	158			
270928	201	202	3090	4	0.96	20	3480	40	151	0.40	102	< 10	118			
270929	201	202	630	5	1.19	16	1340	24	156	0.47	118	< 10	98			
270930	201	202	1245	5	1.08	26	1110	56	162	0.47	115	< 10	120			
270931	201	202	850	4	1.11	23	990	56	208	0.47	107	< 10	118			
270932	201	202	1060	4	1.11	19	2910	24	174	0.42	109	< 10	96			
270933	201	202	775	4	1.59	16	1490	30	285	0.38	76	< 10	84			
270934	201	202	560	2	1.95	13	1650	26	425	0.31	62	< 10	86			
270935	201	202	1480	2	2.12	7	1350	14	430	0.23	48	< 10	82			
270936	201	202	7940	7	1.53	13	2380	44	286	0.27	67	< 10	166			
270937	201	202	2600	4	0.67	32	5600	100	85	0.40	85	< 10	98			
270938	201	202	1440	4	1.59	17	2410	44	319	0.32	73	< 10	72			
270939	201	202	2310	3	1.43	19	2310	40	263	0.33	88	< 10	108			

CERTIFICATION: Stewart Bichler

Chemex Labs Ltd.

*Analytical Chemists * Geochemists * Registered Assayers*

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project :
Comments: ATTN: DAVID TERRY

Page Number :5-A
Total Pages :5
Certificate Date: 28-AUG-96
Invoice No. :19627829
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627829

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
270940	201	202	< 5	0.6	5.14	1670	1.5	< 2	0.71	0.5	11	61	51	3.59	1.95	0.82
270941	201	202	< 5	0.4	5.20	2230	1.5	< 2	0.69	3.5	20	61	43	3.39	1.81	0.67
270942	201	202	< 5	0.6	6.11	1580	1.5	< 2	0.56	2.5	22	75	48	3.78	2.13	0.75
270943	201	202	< 5	1.2	5.51	1060	1.5	< 2	1.14	1.5	15	24	40	1.93	1.58	0.49
270944	201	202	< 5	0.4	5.53	1560	1.5	< 2	0.64	0.5	10	53	36	2.85	2.20	0.62
270945	201	202	< 5	0.8	6.36	1340	1.5	< 2	0.47	0.5	9	62	35	3.22	2.43	0.66
270946	201	202	< 5	< 0.2	6.25	1230	1.5	< 2	0.63	< 0.5	7	55	30	2.59	2.38	0.72
270947	201	202	< 5	0.4	7.08	900	1.5	< 2	1.58	< 0.5	7	11	24	1.86	2.11	0.55
270948	201	202	< 5	0.6	6.96	890	1.5	< 2	1.58	0.5	8	12	39	2.17	1.98	0.65
270949	201	202	< 5	0.2	5.48	1090	1.5	< 2	0.94	< 0.5	11	32	36	2.25	1.73	0.59
270950	201	202	< 5	0.4	6.12	1090	1.5	< 2	0.91	< 0.5	8	45	32	2.43	1.87	0.62
270951	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270952	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270953	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270954	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270955	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
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270962	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270963	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270964	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270965	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270966	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270967	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270968	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
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270971	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
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270973	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270974	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
270975	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
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270979	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd

CERTIFICATION: Stuart Bichler

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V7X 1C4

Project :
Comments: ATTN: DAVID TERRY

Page Number :5-B
Total Pages :5
Certificate Date: 28-AUG-96
Invoice No. :I9627829
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627829

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
270940	201	202	1450	3	1.06	28	2170	24	125	0.55	125	< 10	144			
270941	201	202	6790	5	0.99	25	2310	36	129	0.57	132	< 10	216			
270942	201	202	3630	3	0.96	26	2240	110	117	0.49	129	< 10	212			
270943	201	202	1645	3	1.63	15	3630	62	322	0.24	57	< 10	62			
270944	201	202	2270	5	1.02	20	1510	46	122	0.41	102	< 10	148			
270945	201	202	505	4	1.09	28	1640	60	104	0.53	122	< 10	132			
270946	201	202	440	3	1.29	18	730	44	148	0.43	98	< 10	108			
270947	201	202	675	3	2.53	4	1100	14	492	0.23	46	< 10	52			
270948	201	202	535	1	2.35	10	1820	20	465	0.25	56	< 10	54			
270949	201	202	1220	2	1.49	17	2150	20	255	0.31	73	< 10	68			
270950	201	202	520	1	1.54	16	2070	22	253	0.37	86	< 10	72			
270951	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270952	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270953	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270954	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
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270962	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
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270964	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
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270971	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270972	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270973	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270974	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270975	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
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270978	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
270979	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			

CERTIFICATION: Stewart Bradshaw

Chemex Labs Ltd.

*Analytical Chemists * Geochemists * Registered Assayers*

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9627835

Comments: ATTN: DAVID TERRY

CERTIFICATE A9627835

(GP W) - WESTMIN RESOURCES LTD.

Project:
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 23-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	87	Dry, sieve to -80 mesh
202	87	save reject
285	87	ICP - HF digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	87	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
578	87	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	87	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	87	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	87	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	87	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	87	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	87	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	87	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	87	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	87	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	87	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	87	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	87	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	87	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	87	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	87	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	87	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	87	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	87	Pb ppm: 24 element, rock & core	AAS	2	10000
582	87	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	87	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	87	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	87	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	87	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

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CERTIFICATE OF ANALYSIS A9627835

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
271100	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
271101	201	202	< 5	< 0.2	7.09	1730	1.5	< 2	1.00	0.5	9	59	23	2.66	2.63	0.92
271102	201	202	< 5	< 0.2	6.22	1120	0.5	< 2	1.21	0.5	5	19	26	1.82	1.93	0.50
271103	201	202	< 5	< 0.2	6.92	1450	1.5	< 2	0.88	< 0.5	9	48	24	2.91	2.77	0.95
271104	201	202	< 5	< 0.2	6.67	1350	1.0	< 2	0.99	< 0.5	6	41	19	2.38	2.53	0.82
271105	201	202	< 5	< 0.2	6.87	1160	1.0	< 2	1.07	1.5	6	24	17	1.91	2.30	0.61
271106	201	202	< 5	< 0.2	3.04	890	< 0.5	< 2	1.29	6.0	8	11	13	0.87	0.98	0.27
271107	201	202	< 5	< 0.2	6.89	1210	1.0	< 2	1.56	4.0	13	19	35	2.07	1.95	0.58
271108	201	202	< 5	< 0.2	7.06	1190	1.5	< 2	1.25	0.5	9	22	23	1.86	2.29	0.60
271109	201	202	< 5	< 0.2	6.89	1250	1.5	< 2	1.30	< 0.5	18	141	50	4.00	2.65	2.28
271110	201	202	< 5	< 0.2	6.79	1160	1.0	< 2	0.80	< 0.5	7	38	24	2.59	2.81	0.81
271111	201	202	< 5	< 0.2	7.07	1170	1.0	< 2	1.10	2.0	8	26	21	1.92	2.50	0.60
271112	201	202	< 5	< 0.2	7.28	1080	1.0	< 2	1.36	< 0.5	5	27	19	2.16	2.48	0.70
271113	201	202	< 5	< 0.2	6.86	1570	1.0	< 2	1.15	3.5	8	33	24	2.06	2.16	0.66
271114	201	202	< 5	< 0.2	6.97	1240	1.0	< 2	1.30	< 0.5	5	30	21	2.11	2.13	0.66
271115	201	202	< 5	< 0.2	6.67	1100	0.5	< 2	1.26	2.0	5	31	19	1.90	2.09	0.65
271116	201	202	< 5	< 0.2	6.25	1200	0.5	< 2	0.98	< 0.5	7	45	28	2.79	2.05	0.91
271117	201	202	< 5	< 0.2	6.45	1530	1.0	< 2	1.12	0.5	5	32	19	1.94	2.12	0.62
271118	201	202	< 5	< 0.2	6.82	1360	1.0	< 2	1.23	2.0	7	42	14	2.39	2.44	0.86
271119	201	202	< 5	< 0.2	7.21	970	1.0	< 2	1.46	< 0.5	5	17	19	1.89	2.26	0.59
271120	201	202	< 5	< 0.2	6.90	1200	0.5	< 2	1.09	< 0.5	6	46	16	2.49	2.35	0.87
271121	201	202	< 5	< 0.2	7.15	1430	1.0	< 2	1.00	< 0.5	6	45	16	2.64	2.88	0.94
271122	201	202	< 5	< 0.2	6.72	1360	1.0	< 2	1.20	< 0.5	6	40	19	2.52	2.56	0.93
271123	201	202	< 5	< 0.2	6.75	1420	1.0	< 2	0.88	< 0.5	5	45	18	2.44	2.58	0.83
271124	201	202	< 5	< 0.2	6.86	980	1.0	< 2	1.34	< 0.5	4	19	17	1.62	2.14	0.52
271125	201	202	< 5	< 0.2	7.21	1190	1.0	< 2	1.46	1.5	5	17	20	1.55	2.26	0.54
271126	201	202	< 5	< 0.2	7.21	1060	1.0	< 2	1.50	0.5	4	17	18	1.69	2.29	0.59
271127	201	202	< 5	< 0.2	6.67	1580	1.5	< 2	0.53	< 0.5	9	51	32	3.32	2.42	0.97
271128	201	202	< 5	< 0.2	7.06	1320	1.5	< 2	0.83	< 0.5	6	36	20	2.33	2.59	0.74
271129	201	202	< 5	< 0.2	2.82	480	< 0.5	< 2	0.47	< 0.5	1	13	7	0.75	0.93	0.25
271130	201	202	< 5	< 0.2	2.36	390	< 0.5	< 2	0.38	< 0.5	1	15	5	0.71	0.87	0.24
271131	201	202	< 5	< 0.2	6.58	940	1.0	< 2	1.34	2.0	6	14	16	1.64	2.02	0.53
271132	201	202	< 5	< 0.2	7.07	1280	1.0	< 2	0.96	< 0.5	5	42	18	2.22	2.47	0.73
271133	201	202	< 5	< 0.2	7.14	1440	1.5	< 2	0.88	< 0.5	5	48	17	2.52	2.86	0.95
271134	201	202	< 5	< 0.2	6.69	1530	1.0	< 2	0.81	0.5	6	47	21	2.46	2.30	0.79
271135	201	202	< 5	< 0.2	6.85	990	1.0	< 2	1.27	< 0.5	4	21	20	1.69	2.20	0.51
271136	201	202	< 5	< 0.2	7.08	1130	1.0	< 2	1.22	0.5	4	28	27	1.81	2.11	0.52
271137	201	202	< 5	< 0.2	7.00	1280	1.0	< 2	0.76	< 0.5	5	39	24	2.41	2.24	0.69
271138	201	202	< 5	< 0.2	6.98	1280	1.0	< 2	1.01	< 0.5	5	44	23	2.43	2.46	0.74
271139	201	202	< 5	< 0.2	7.34	1970	1.0	< 2	0.70	< 0.5	6	62	27	2.67	2.57	0.85

CERTIFICATION: Stuart Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project :
Comments: ATTN: DAVID TERRY

Page Number :1-B
Total Pages :3
Certificate Date: 23-AUG-96
Invoice No. :I9627835
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627835

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
271100	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
271101	201	202	670	3	1.53	13	1090	28	247	0.33	93	< 10	138			
271102	201	202	370	3	2.12	6	940	14	373	0.26	51	< 10	84			
271103	201	202	515	1	1.35	15	630	28	180	0.40	100	< 10	102			
271104	201	202	485	2	1.50	11	500	26	222	0.41	97	< 10	88			
271105	201	202	755	3	1.84	6	550	20	310	0.31	62	< 10	92			
271106	201	202	3910	3	1.06	3	1250	16	240	0.11	24	< 10	142			
271107	201	202	2350	4	2.32	9	1110	48	447	0.23	51	< 10	184			
271108	201	202	1130	4	2.20	9	740	44	380	0.26	55	< 10	112			
271109	201	202	940	5	1.34	89	800	80	171	0.55	104	< 10	196			
271110	201	202	765	1	1.63	12	790	32	184	0.34	79	< 10	100			
271111	201	202	3420	4	2.10	6	850	20	324	0.29	56	< 10	134			
271112	201	202	450	1	2.30	4	730	18	395	0.30	62	< 10	74			
271113	201	202	1520	4	1.87	6	690	18	312	0.37	74	< 10	154			
271114	201	202	395	3	2.12	6	990	26	371	0.32	64	< 10	82			
271115	201	202	425	1	1.99	7	850	16	345	0.30	61	< 10	92			
271116	201	202	525	3	1.44	18	750	28	216	0.40	87	< 10	106			
271117	201	202	500	4	1.77	8	1030	22	296	0.36	73	< 10	108			
271118	201	202	535	2	1.57	7	760	16	283	0.35	83	< 10	82			
271119	201	202	535	3	2.50	4	590	30	446	0.25	47	< 10	68			
271120	201	202	465	2	1.69	11	620	40	251	0.41	84	< 10	98			
271121	201	202	455	3	1.63	8	530	22	223	0.40	94	< 10	88			
271122	201	202	505	2	1.74	11	970	26	275	0.33	77	< 10	94			
271123	201	202	485	3	1.37	10	680	40	187	0.41	104	< 10	94			
271124	201	202	415	3	2.41	6	880	10	420	0.27	47	< 10	68			
271125	201	202	865	4	2.51	3	680	14	452	0.25	43	< 10	74			
271126	201	202	375	1	2.55	4	990	20	461	0.26	47	< 10	70			
271127	201	202	435	5	1.29	20	830	40	125	0.50	82	< 10	110			
271128	201	202	370	3	1.62	8	710	22	193	0.40	78	< 10	82			
271129	201	202	190	1	0.84	< 1	320	4	132	0.15	26	< 10	30			
271130	201	202	130	1	0.66	1	130	6	102	0.11	23	< 10	26			
271131	201	202	465	3	2.29	3	890	12	415	0.22	43	< 10	78			
271132	201	202	415	2	1.69	6	790	20	247	0.37	90	< 10	76			
271133	201	202	440	2	1.46	9	490	28	179	0.43	101	< 10	82			
271134	201	202	400	4	1.54	13	960	18	176	0.53	103	< 10	82			
271135	201	202	340	3	2.41	5	740	8	405	0.32	53	< 10	56			
271136	201	202	490	2	2.31	4	810	14	378	0.38	62	< 10	66			
271137	201	202	415	4	1.70	10	640	20	202	0.42	94	< 10	84			
271138	201	202	475	3	1.92	7	700	24	254	0.39	98	< 10	94			
271139	201	202	335	3	1.39	23	660	26	193	0.35	104	< 10	96			

CERTIFICATION: Ian R Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project :
Comments: ATTN: DAVID TERRY

Page .er :2-A
Total Pages :3
Certificate Date: 23-AUG-96
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P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627835

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
271140	201	202	< 5	< 0.2	6.80	1100	1.0	< 2	1.12	1.0	6	32	16	1.96	2.43	0.69
271141	201	202	< 5	< 0.2	6.43	1090	1.0	< 2	1.54	4.5	11	8	21	1.57	1.90	0.50
271142	201	202	< 5	< 0.2	6.89	1240	1.5	< 2	1.69	0.5	12	14	39	1.89	1.99	0.55
271143	201	202	< 5	< 0.2	6.51	1950	1.5	< 2	0.79	3.5	12	44	23	3.05	2.44	0.76
271144	201	202	< 5	0.6	0.45	510	< 0.5	< 2	4.05	2.5	2	3	42	0.20	0.10	0.16
271145	--	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
273002	201	202	< 5	1.4	0.53	230	< 0.5	< 2	1.59	1.0	4	6	15	0.29	0.21	0.20
273003	201	202	< 5	< 0.2	7.01	1030	1.0	< 2	1.26	< 0.5	6	30	18	2.08	2.11	0.70
273004	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
273005	201	202	< 5	< 0.2	6.74	1100	1.0	< 2	1.29	< 0.5	6	35	21	2.10	2.07	0.71
273006	201	202	< 5	0.4	7.08	1040	1.0	< 2	1.34	< 0.5	6	27	21	1.94	2.20	0.65
273007	201	202	< 5	0.4	4.38	800	0.5	< 2	2.66	< 0.5	8	11	20	1.35	1.12	0.42
273008	201	202	< 5	0.8	5.00	970	1.0	< 2	2.88	< 0.5	9	39	50	1.98	1.41	0.72
273009	201	202	< 5	< 0.2	5.83	790	0.5	< 2	2.19	< 0.5	4	2	16	1.23	1.70	0.44
273010	201	202	< 5	< 0.2	5.15	850	0.5	2	3.03	< 0.5	6	12	23	1.31	1.46	0.54
273011	201	202	< 5	< 0.2	7.40	1000	1.5	2	0.48	< 0.5	8	51	10	3.38	3.08	1.40
273012	201	202	< 5	< 0.2	6.75	1280	1.5	< 2	0.89	< 0.5	5	47	16	2.09	2.11	0.88
273013	201	202	< 5	< 0.2	7.14	1080	1.5	< 2	0.83	< 0.5	16	53	23	4.06	2.62	1.95
273014	201	202	< 5	< 0.2	4.33	810	0.5	< 2	2.80	0.5	8	21	25	1.91	1.50	0.91
273015	201	202	< 5	< 0.2	7.26	1350	1.5	< 2	1.22	< 0.5	9	50	32	3.05	3.09	1.49
273016	201	202	< 5	< 0.2	6.89	1180	1.5	< 2	1.18	< 0.5	10	48	23	2.97	2.59	1.29
273017	201	202	< 5	< 0.2	6.96	1040	1.5	< 2	1.15	< 0.5	8	40	25	2.75	2.69	1.25
273018	201	202	< 5	< 0.2	6.77	920	1.0	< 2	1.44	< 0.5	4	11	18	1.48	2.09	0.52
273019	201	202	< 5	< 0.2	6.69	1260	1.5	< 2	0.78	< 0.5	8	56	24	4.48	2.30	1.05
273020	201	202	< 5	< 0.2	6.22	2240	1.5	< 2	0.69	< 0.5	6	73	20	2.30	2.12	0.83
273021	201	202	< 5	< 0.2	6.81	1980	1.5	< 2	0.75	< 0.5	9	76	28	3.92	2.48	1.14
273022	201	202	15	< 0.2	5.55	3810	1.5	< 2	0.52	0.5	10	132	82	4.05	2.24	1.00
273023	201	202	< 5	0.8	4.26	2660	1.5	< 2	0.60	7.0	11	86	61	3.02	1.62	0.74
273024	201	202	< 5	0.8	2.43	1030	0.5	< 2	2.91	0.5	6	20	38	1.10	0.58	0.47
273025	201	202	95	0.8	5.22	1420	1.0	< 2	2.62	2.0	8	38	37	1.90	1.70	0.86
273026	201	202	< 5	2.2	6.82	1040	1.5	< 2	1.41	0.5	5	25	19	1.92	2.16	0.65
273027	201	202	< 5	0.8	6.52	1350	1.5	< 2	0.91	< 0.5	6	50	22	2.40	2.10	0.76
273028	201	202	< 5	< 0.2	6.87	1540	1.5	< 2	1.03	1.0	8	56	30	3.38	2.28	0.89
273029	201	202	< 5	0.4	6.91	1110	1.5	< 2	1.42	1.5	12	22	32	2.50	2.10	0.74
273030	201	202	< 5	< 0.2	6.63	1290	1.5	< 2	1.09	< 0.5	7	42	22	2.39	2.25	0.79
273031	201	202	< 5	< 0.2	6.62	1530	1.5	< 2	0.82	< 0.5	9	53	63	3.57	2.41	0.97
273032	201	202	< 5	2.8	6.99	1100	1.5	< 2	1.16	1.5	7	23	31	2.42	2.43	0.75
273033	201	202	< 5	2.8	6.30	1180	1.5	< 2	1.09	0.5	5	30	23	2.02	1.81	0.64
273034	201	202	30	0.4	2.59	760	0.5	2	3.20	1.0	4	27	41	1.21	0.93	0.69
273035	201	202	< 5	0.4	6.02	1570	1.0	< 2	0.70	1.0	6	44	39	2.38	1.79	0.54

CERTIFICATION: Ivan Bruhler

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Project :
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CERTIFICATE OF ANALYSIS A9627835

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
271140	201	202	375	1	1.81	6	720	18	381	0.28	68	< 10	70			
271141	201	202	740	3	2.46	9	980	12	487	0.19	35	< 10	104			
271142	201	202	1635	3	2.33	10	1030	18	466	0.24	50	< 10	96			
271143	201	202	1450	3	1.32	14	890	50	172	0.41	101	< 10	202			
271144	201	202	535	1	0.07	8	1390	< 2	266	0.01	4	< 10	90			
271145	--	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss			
273002	201	202	450	1	0.08	8	1120	4	117	0.03	6	< 10	88			
273003	201	202	425	1	2.20	7	1360	20	353	0.39	79	< 10	68			
273004	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
273005	201	202	440	3	2.05	9	900	20	355	0.36	75	< 10	70			
273006	201	202	400	1	2.38	8	930	16	402	0.31	64	< 10	60			
273007	201	202	1615	9	1.38	5	1390	18	395	0.12	30	< 10	60			
273008	201	202	1445	8	1.15	11	1780	20	375	0.15	51	< 10	62			
273009	201	202	295	1	2.30	1	700	6	503	0.15	25	< 10	38			
273010	201	202	860	4	1.80	3	900	6	501	0.14	31	< 10	38			
273011	201	202	575	4	1.42	6	830	12	121	0.41	99	< 10	102			
273012	201	202	410	5	1.66	8	740	18	219	0.52	100	< 10	66			
273013	201	202	905	5	1.52	14	650	34	243	0.40	88	< 10	160			
273014	201	202	1065	5	1.09	6	970	10	428	0.18	42	< 10	52			
273015	201	202	545	3	1.49	11	790	20	243	0.33	85	< 10	84			
273016	201	202	555	3	1.59	10	650	28	258	0.37	89	< 10	104			
273017	201	202	515	3	1.65	10	740	24	264	0.31	74	< 10	94			
273018	201	202	330	2	2.42	3	790	12	456	0.20	37	< 10	46			
273019	201	202	480	3	1.15	15	940	22	157	0.40	125	< 10	90			
273020	201	202	285	2	1.08	15	740	18	155	0.45	154	< 10	82			
273021	201	202	510	4	1.13	21	850	22	142	0.49	158	< 10	106			
273022	201	202	295	8	0.38	58	1260	20	84	0.37	228	< 10	244			
273023	201	202	1045	6	0.36	47	1340	12	84	0.29	174	< 10	258			
273024	201	202	1305	3	0.44	7	1300	16	259	0.09	28	< 10	44			
273025	201	202	980	3	1.04	12	1070	30	294	0.19	63	< 10	144			
273026	201	202	435	1	2.18	6	690	16	404	0.29	62	< 10	72			
273027	201	202	405	1	1.58	12	840	20	219	0.46	112	< 10	76			
273028	201	202	640	4	1.54	17	1000	36	241	0.51	139	< 10	108			
273029	201	202	1240	1	2.15	11	980	18	409	0.31	69	< 10	130			
273030	201	202	420	1	1.71	13	810	14	262	0.46	102	< 10	72			
273031	201	202	610	4	1.37	18	1170	46	180	0.46	116	< 10	106			
273032	201	202	480	4	1.98	9	930	26	341	0.29	69	< 10	80			
273033	201	202	420	1	1.74	9	1240	26	285	0.41	87	< 10	76			
273034	201	202	295	1	0.38	9	1170	20	275	0.11	36	< 10	88			
273035	201	202	355	4	1.22	16	1260	20	189	0.43	114	< 10	114			

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists *Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project :
Comments: ATTN: DAVID TERRY

Certificate Date: 23-AUG-96
Invoice No. :I9627835
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627835

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
273036	201	202	< 5	< 0.2	6.24	1180	1.0	< 2	1.01	0.5	5	33	22	1.82	1.93	0.55
273037	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
273038	201	202	< 5	0.2	6.32	1450	1.5	< 2	1.05	0.5	7	51	25	3.09	1.93	0.81
273039	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
273040	201	202	< 5	14.0	7.12	1800	1.5	< 2	0.64	0.5	6	51	24	2.73	2.72	0.84
273041	201	202	< 5	0.6	7.01	1470	1.5	< 2	1.06	0.5	6	36	33	2.61	2.42	0.72
273042	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
273043	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
273044	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
273045	201	202	< 5	0.4	7.00	1290	1.5	< 2	0.93	< 0.5	5	40	19	2.14	2.54	0.71
273046	201	202	< 5	< 0.2	6.87	1240	1.5	< 2	1.27	< 0.5	5	24	28	2.16	2.11	0.60
273047	201	202	< 5	< 0.2	6.22	1420	1.5	< 2	1.23	2.5	11	18	42	1.95	1.79	0.48
273048	201	202	< 5	< 0.2	6.49	1780	1.5	< 2	0.88	1.0	7	53	27	2.99	1.95	0.78
273049	201	202	< 5	< 0.2	7.07	1250	1.5	< 2	0.79	< 0.5	8	48	20	2.96	2.81	1.00
273050	201	202	< 5	0.6	6.95	1110	1.0	< 2	1.31	< 0.5	5	16	17	1.69	2.14	0.52

CERTIFICATION: David Buckle

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project :
Comments: ATTN: DAVID TERRY

Certificate Date: 23-AUG-96
Invoice No. :I9627835
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9627835

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
273036	201	202	335	1	1.72	9	920	20	285	0.41	89	< 10	72			
273037	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
273038	201	202	570	4	1.49	16	1080	62	213	0.63	120	< 10	122			
273039	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
273040	201	202	355	2	1.35	13	1280	42	158	0.46	110	< 10	108			
273041	201	202	385	2	1.85	11	1190	38	300	0.36	79	< 10	80			
273042	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
273043	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
273044	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
273045	201	202	365	3	1.58	8	720	20	250	0.35	87	< 10	80			
273046	201	202	395	4	2.16	8	1290	22	374	0.36	69	< 10	88			
273047	201	202	3420	5	1.98	8	1370	52	370	0.22	48	< 10	86			
273048	201	202	480	3	1.49	14	1150	28	188	0.81	136	< 10	118			
273049	201	202	460	1	1.41	15	710	26	204	0.33	83	< 10	90			
273050	201	202	355	2	2.36	1	900	10	415	0.30	51	< 10	56			

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE 6408
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC P... 1-A
Tot QC Pg: 1
Date: 01-OCT-96
Invoice #: I9633191
P.O. #: 6408
GP W

QC DATA OF CERTIFICATE A9633191

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
G96-TOT	Std1	1	-----	-----	-----	-----	-----	7.63	1200	0.5	2	2.12	0.5	19	100	185
G96-TOT	Std2	1	-----	-----	-----	-----	-----	7.61	1180	0.5	< 2	2.07	0.5	19	101	183
G96-TOT	Std1	2	-----	-----	-----	-----	-----	7.92	1210	0.5	< 2	2.17	1.0	20	102	192
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177
GEO-96	Std1	1	-----	62	4.8	150	14.4	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-96	Std2	1	-----	60	4.4	150	5.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-96	Std1	2	-----	58	4.4	-----	5.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	64	4.5	168	5.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
JL-1	Std1	2	100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	92	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-3	Blnk	1	-----	-----	-----	< 10	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	19	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-G2	Blnk	1	-----	1	< 0.2	-----	< 0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	2	< 0.2	-----	< 0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-T3	Blnk	1	-----	-----	-----	-----	-----	0.32	< 10	< 0.5	< 2	0.03	< 0.5	< 1	< 1	1
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	2
SL-96	Std2	1	780	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	765	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
175180	Dup	1-01	< 5	8	0.2	-----	0.4	7.43	1310	2.0	8	2.10	0.5	9	143	26
	Orig	1-01	< 5	6	0.2	40	0.4	6.93	1240	1.5	8	1.98	0.5	9	143	25
175309	Dup	2-01	< 5	1	< 0.2	< 10	< 0.2	5.65	3180	1.5	4	1.54	< 0.5	9	175	12
	Orig	2-01	< 5	1	< 0.2	< 10	< 0.2	5.68	4360	1.5	< 2	1.56	< 0.5	9	174	12

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE 6408
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC I . 1-B
Tot QC Pg: 1
Date: 01-OCT-96
Invoice #: I9633191
P.O. #: 6408
GP W

QC DATA OF CERTIFICATE A9633191

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C	Blnk	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
G96-TOT	Std1	1	4.77	1.83	1.04	1070	10	0.97	22	650	-----	234	0.36	162	10	192
G96-TOT	Std2	1	4.77	1.83	1.03	1045	10	0.99	23	620	-----	230	0.36	158	10	188
G96-TOT	Std1	2	4.98	1.91	1.08	1100	10	1.06	26	640	-----	241	0.38	165	20	198
CHEMEX MEAN	---	---	4.41	1.86	1.03	927	9	1.03	20	648	-----	226	0.35	156	20	186
GEO-96	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	140	-----	-----	-----	-----	-----
GEO-96	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	132	-----	-----	-----	-----	-----
GEO-96	Std1	2	-----	-----	-----	-----	-----	-----	-----	-----	150	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	120	-----	-----	-----	-----	-----
JL-1	Std1	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-3	Blnk	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-G2	Blnk	1	-----	-----	-----	-----	-----	-----	-----	-----	< 2	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	< 2	-----	-----	-----	-----	-----
SIO2-T3	Blnk	1	0.06	0.07	0.01	5	< 1	0.01	2	140	-----	144	0.01	3	< 10	< 2
CHEMEX MEAN	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	-----	178	< 0.01	2	< 10	< 2
SL-96	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
175180	Dup	1-01	3.20	2.93	0.85	460	3	1.79	7	370	34	317	0.20	43	< 10	140
	Orig	1-01	3.02	2.73	0.80	430	4	1.68	6	350	36	297	0.19	40	< 10	132
175309	Dup	2-01	2.22	2.61	1.52	420	< 1	0.92	7	360	8	194	0.21	45	< 10	44
	Orig	2-01	2.24	2.64	1.53	425	1	0.94	8	360	4	198	0.21	44	< 10	44

CERTIFICATION: Ian Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9629714

Comments: ATTN:DAVID TERRY

CERTIFICATE A9629714

(GP W) - WESTMIN RESOURCES LTD.

Project: 6408
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 6-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	67	Dry, sieve to -80 mesh
202	67	save reject
285	67	ICP - HF digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	67	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
578	67	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	67	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	67	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	67	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	67	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	67	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	67	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	67	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	67	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	67	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	67	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	67	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	67	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	67	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	67	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	67	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	67	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	67	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	67	Pb ppm: 24 element, rock & core	AAS	2	10000
582	67	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	67	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	67	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	67	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	67	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

Chemex Labs Ltd.

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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN:DAVID TERRY

Page Number : 1-A
Total Pages : 2
Certificate Date: 06-SEP-96
Invoice No. : I9629714
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9629714

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
L5000E,3225N	201	202	< 5	< 0.2	7.49	830	1.5	< 2	1.02	< 0.5	7	17	24	2.33	2.20	0.73
L5000E,3250N	201	202	< 5	< 0.2	9.18	1190	2.5	< 2	0.50	< 0.5	8	24	36	3.06	3.44	0.90
L5000E,3275N	201	202	< 5	< 0.2	8.84	1040	3.0	2	0.23	0.5	8	11	54	2.74	4.26	0.80
L5000E,3300N	201	202	< 5	< 0.2	9.13	1080	3.0	< 2	0.20	< 0.5	9	11	58	2.79	2.76	0.78
L5000E,3325N	201	202	< 5	< 0.2	8.57	970	2.0	2	1.16	< 0.5	6	9	32	2.13	3.04	0.65
L5000E,3350N	201	202	< 5	< 0.2	10.20	1410	3.0	< 2	0.17	< 0.5	9	9	21	3.01	5.26	0.95
L5000E,3375N	201	202	< 5	< 0.2	8.53	1120	2.0	< 2	1.24	< 0.5	11	25	42	3.43	3.47	1.13
L5000E,3400N	201	202	< 5	< 0.2	10.10	1300	3.0	4	0.48	< 0.5	11	24	32	3.79	4.34	1.14
L5000E,3425N	201	202	< 5	0.2	10.85	1640	3.0	2	1.21	< 0.5	23	79	51	5.64	4.74	2.57
L5000E,3450N	201	202	< 5	< 0.2	9.22	1250	3.0	2	0.59	< 0.5	30	96	43	7.40	4.44	2.07
L5000E,3475N	201	202	< 5	1.4	9.93	1470	3.0	2	0.25	1.5	29	72	121	6.83	5.38	1.40
L5000E,3500N	201	202	< 5	< 0.2	8.47	1190	1.5	2	0.61	< 0.5	24	92	550	6.31	3.59	1.07
L5000E,3525N	201	202	< 5	< 0.2	8.51	1230	1.5	6	0.50	< 0.5	11	59	29	3.60	3.26	1.11
L5000E,3550N	201	202	< 5	0.6	10.20	1830	1.5	6	0.08	0.5	9	58	60	5.22	3.56	1.13
L5000E,3575N	201	202	30	0.2	9.68	1300	1.5	14	0.19	0.5	29	57	248	10.50	2.97	0.91
L5000E,3600N	201	202	< 5	< 0.2	7.87	1080	2.0	< 2	1.28	< 0.5	17	43	68	4.44	3.56	2.14
L5000E,3750N	201	202	< 5	< 0.2	8.16	780	1.0	2	2.06	< 0.5	9	11	33	2.61	1.91	0.73
L5000E,3775N	201	202	< 5	< 0.2	8.18	780	1.0	2	2.10	< 0.5	10	9	43	2.71	1.96	0.79
L5000E,3800N	201	202	< 5	< 0.2	8.06	870	1.5	2	1.09	< 0.5	9	30	25	2.96	2.75	0.83
L5000E,3825N	201	202	< 5	< 0.2	8.22	940	1.5	4	1.81	< 0.5	9	20	22	2.58	2.59	0.90
L5000E,3850N	201	202	< 5	< 0.2	8.75	1150	1.5	6	1.23	< 0.5	12	49	31	3.90	3.29	1.25
L5000E,3875N	201	202	< 5	< 0.2	7.30	860	1.0	< 2	0.95	< 0.5	6	32	16	2.20	2.55	0.68
L5000E,3900N	201	202	< 5	< 0.2	8.76	980	1.5	< 2	1.12	< 0.5	10	45	26	3.64	3.14	1.10
L5000E,3925N	201	202	< 5	< 0.2	8.03	990	1.5	6	1.26	< 0.5	8	41	12	2.71	2.85	1.07
L5000E,3950N	201	202	< 5	< 0.2	8.77	1000	1.5	2	0.98	< 0.5	9	36	18	3.22	3.47	1.11
L5000E,3975N	201	202	< 5	< 0.2	9.00	940	1.5	< 2	0.89	< 0.5	9	52	25	4.15	2.92	1.17
L5000E,4000N	201	202	< 5	< 0.2	7.97	900	1.5	< 2	0.75	< 0.5	6	33	15	2.66	2.62	0.82
L5000E,4025N	201	202	< 5	< 0.2	7.30	790	1.0	< 2	1.35	< 0.5	4	16	16	1.60	1.98	0.51
L5000E,4050N	201	202	< 5	< 0.2	7.40	950	1.5	< 2	0.56	< 0.5	4	22	9	1.55	2.75	0.55
L5000E,4075N	201	202	< 5	< 0.2	8.37	980	1.5	< 2	0.83	< 0.5	8	38	16	2.73	3.29	1.01
L5000E,4100N	201	202	< 5	< 0.2	7.71	1040	1.5	< 2	0.44	< 0.5	8	42	28	3.20	2.99	0.87
L5000E,4125N	201	202	< 5	< 0.2	7.67	1000	1.5	< 2	0.61	< 0.5	6	42	20	3.00	2.54	0.79
L5000E,4150N	201	202	< 5	< 0.2	7.84	1250	1.5	< 2	0.66	0.5	7	51	20	2.33	2.93	0.77
L5000E,4175N	201	202	< 5	< 0.2	7.84	1160	2.0	< 2	0.86	< 0.5	9	47	38	2.70	2.98	0.74
L5000E,4200N	201	202	< 5	< 0.2	7.40	900	1.5	2	1.27	< 0.5	7	24	25	2.03	2.46	0.53
L5000E,4225N	201	202	< 5	< 0.2	7.02	1030	1.5	< 2	0.90	< 0.5	8	58	31	2.55	2.37	0.75
L5000E,4250N	201	202	< 5	< 0.2	7.10	1360	1.5	< 2	1.07	< 0.5	12	27	31	3.17	2.28	0.62
L5000E,4275N	201	202	< 5	< 0.2	7.11	1480	2.5	8	1.05	< 0.5	15	62	87	4.12	1.87	0.83
L5000E,4300N	201	202	< 5	< 0.2	9.02	3920	2.5	6	0.37	< 0.5	4	80	16	3.42	3.65	1.17
L5000E,4325N	201	202	< 5	< 0.2	8.08	1830	1.5	6	1.39	< 0.5	9	29	23	1.99	3.05	0.92

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN:DAVID TERRY

Certificate Date: 06-SEP-96
Invoice No. :I9629714
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9629714

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
L5000E,3225N	201	202	300	3	2.13	6	700	18	374	0.26	57	< 10	58			
L5000E,3250N	201	202	510	5	1.42	5	570	62	176	0.21	64	< 10	96			
L5000E,3275N	201	202	540	2	1.37	5	360	74	86	0.18	37	< 10	142			
L5000E,3300N	201	202	540	2	1.48	1	400	64	85	0.18	37	< 10	140			
L5000E,3325N	201	202	370	3	2.19	3	630	26	372	0.19	38	< 10	70			
L5000E,3350N	201	202	370	2	0.88	1	350	16	63	0.19	49	< 10	46			
L5000E,3375N	201	202	505	3	1.49	7	800	26	285	0.24	69	< 10	102			
L5000E,3400N	201	202	660	3	1.23	6	560	54	149	0.23	67	< 10	120			
L5000E,3425N	201	202	1245	3	1.83	22	1030	42	230	0.43	124	10	154			
L5000E,3450N	201	202	1895	2	1.08	23	1010	26	87	0.39	122	< 10	148			
L5000E,3475N	201	202	1475	4	0.69	17	910	80	61	0.32	127	< 10	428			
L5000E,3500N	201	202	1685	3	1.20	20	960	20	150	0.33	126	< 10	112			
L5000E,3525N	201	202	460	5	1.29	11	670	14	107	0.38	123	< 10	96			
L5000E,3550N	201	202	870	15	0.97	3	630	80	26	0.24	154	< 10	348			
L5000E,3575N	201	202	1640	8	0.71	12	1020	70	57	0.27	213	< 10	172			
L5000E,3600N	201	202	825	4	1.16	12	890	40	211	0.36	98	< 10	122			
L5000E,3750N	201	202	535	3	2.32	5	720	< 2	468	0.30	65	< 10	62			
L5000E,3775N	201	202	540	1	2.20	5	860	< 2	474	0.27	64	< 10	70			
L5000E,3800N	201	202	570	2	1.74	9	690	16	247	0.30	75	< 10	84			
L5000E,3825N	201	202	485	3	2.44	7	370	< 2	449	0.31	73	< 10	76			
L5000E,3850N	201	202	640	6	1.59	11	600	22	248	0.34	92	< 10	102			
L5000E,3875N	201	202	365	3	1.92	6	560	< 2	264	0.30	81	< 10	62			
L5000E,3900N	201	202	605	3	1.81	8	770	10	242	0.40	98	< 10	86			
L5000E,3925N	201	202	485	< 1	1.96	6	490	8	283	0.37	90	< 10	58			
L5000E,3950N	201	202	490	3	1.96	8	500	6	250	0.34	85	< 10	74			
L5000E,3975N	201	202	495	5	1.63	10	470	20	211	0.41	103	< 10	74			
L5000E,4000N	201	202	390	2	1.60	8	460	8	185	0.35	77	< 10	62			
L5000E,4025N	201	202	300	1	2.27	2	640	< 2	413	0.25	49	< 10	42			
L5000E,4050N	201	202	240	2	1.70	3	410	< 2	174	0.28	56	< 10	42			
L5000E,4075N	201	202	405	1	1.52	9	340	8	174	0.37	96	< 10	66			
L5000E,4100N	201	202	455	3	1.28	13	690	40	116	0.31	69	< 10	82			
L5000E,4125N	201	202	430	6	1.24	12	770	40	155	0.32	77	< 10	78			
L5000E,4150N	201	202	395	1	1.15	13	680	8	125	0.34	76	< 10	88			
L5000E,4175N	201	202	465	5	1.44	13	930	40	210	0.38	97	< 10	98			
L5000E,4200N	201	202	900	4	2.10	4	1290	52	366	0.22	49	< 10	64			
L5000E,4225N	201	202	595	5	1.31	16	1430	20	178	0.40	92	< 10	86			
L5000E,4250N	201	202	1275	4	1.34	9	1560	54	221	0.21	54	< 10	76			
L5000E,4275N	201	202	1605	5	0.86	19	3320	64	181	0.21	82	< 10	110			
L5000E,4300N	201	202	445	4	0.73	13	350	< 2	102	0.34	109	< 10	70			
L5000E,4325N	201	202	1930	4	1.68	10	1120	20	332	0.25	85	< 10	84			

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN:DAVID TERRY

Certificate Date: 06-SEP-96
Invoice No. :19629714
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9629714

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
L5000E,4350N	201	202	< 5	< 0.2	11.75	4460	4.0	12	0.08	< 0.5	5	38	17	3.24	5.58	1.39
L5000E,4375N	201	202	< 5	< 0.2	8.85	2830	2.0	12	0.12	< 0.5	9	37	35	4.28	3.76	1.07
L5000E,4400N	201	202	< 5	< 0.2	8.13	1730	1.5	4	0.42	< 0.5	5	33	13	2.45	3.14	0.85
L5000E,4425N	201	202	< 5	1.0	4.94	940	1.0	< 2	2.33	1.0	6	18	72	1.70	1.32	0.52
L5000E,4450N	201	202	< 5	< 0.2	10.00	1960	2.5	2	0.14	< 0.5	9	23	45	4.64	4.71	1.08
L5000E,4475N	201	202	< 5	1.0	4.95	830	1.5	2	2.63	0.5	13	46	199	2.45	1.33	0.58
L5000E,4500N	201	202	< 5	0.6	6.79	1000	1.5	< 2	1.39	< 0.5	11	39	69	3.30	2.36	1.04
L5000E,4525N	201	202	< 5	0.6	6.69	1130	1.5	< 2	1.25	< 0.5	10	33	60	2.86	2.83	0.82
L5000E,4550N	201	202	< 5	< 0.2	6.83	1240	1.5	< 2	1.16	< 0.5	19	51	36	3.78	2.65	1.02
L5000E,4575N	201	202	< 5	0.6	6.29	1050	1.5	< 2	1.72	0.5	10	45	78	3.09	2.20	0.91
L5000E,4600N	201	202	10	0.4	7.29	1220	2.0	< 2	1.17	< 0.5	12	52	56	3.71	3.43	1.34
L5000E,4625N	201	202	5	0.4	7.75	1240	2.0	< 2	1.30	< 0.5	9	48	39	3.17	3.22	1.17
L5000E,4650N	201	202	< 5	< 0.2	6.70	970	1.5	< 2	1.11	< 0.5	11	48	24	3.21	2.80	1.17
L5000E,4675N	201	202	< 5	< 0.2	7.15	890	1.5	< 2	1.04	0.5	16	36	36	3.61	2.43	0.92
L5000E,4700N	201	202	< 5	< 0.2	7.09	1020	1.5	< 2	0.84	< 0.5	9	46	32	3.41	2.64	0.93
L5000E,4725N	201	202	< 5	< 0.2	6.84	1170	1.5	< 2	0.95	< 0.5	8	37	31	2.79	2.49	0.84
L5000E,4750N	201	202	< 5	0.2	7.59	1000	1.5	< 2	1.50	< 0.5	8	25	30	2.62	2.40	0.79
L5000E,4775N	201	202	< 5	1.0	7.33	1300	1.5	< 2	0.93	< 0.5	10	53	39	3.71	2.71	1.04
L5000E,4800N	201	202	< 5	0.2	6.84	1220	1.5	< 2	0.95	< 0.5	9	40	31	3.25	2.76	1.00
L5000E,4825N	201	202	< 5	< 0.2	6.49	1190	1.5	< 2	0.83	< 0.5	8	44	33	3.09	2.62	0.94
L5000E,4850N	201	202	< 5	0.2	6.27	1090	1.5	< 2	0.78	< 0.5	7	38	27	2.69	2.40	0.80
L5000E,4875N	201	202	< 5	< 0.2	6.05	1120	1.5	< 2	0.91	< 0.5	10	48	40	3.36	2.37	1.07
L5000E,4900N	201	202	10	< 0.2	6.17	1140	1.5	< 2	0.83	< 0.5	15	87	62	4.96	2.22	1.41
L5000E,4925N	201	202	< 5	< 0.2	6.69	1150	1.5	< 2	1.00	< 0.5	11	53	50	3.74	2.39	1.09
L5000E,4950N	201	202	10	0.6	6.03	1070	1.0	< 2	0.72	< 0.5	13	70	49	4.34	2.24	1.26
L5000E,4975N	201	202	< 5	< 0.2	5.90	1030	1.5	< 2	0.87	< 0.5	14	68	46	4.36	2.14	1.37
L5000E,5000N	201	202	< 5	< 0.2	6.26	1070	1.0	< 2	0.75	< 0.5	15	64	38	4.29	2.17	1.26

CERTIFICATION: 

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN:DAVID TERRY

Page Number :2-B
Total Pages :2
Certificate Date: 06-SEP-96
Invoice No. :19629714
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9629714

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
L5000E,4350N	201	202	220	7	0.51	7	530	50	82	0.31	143	< 10	80			
L5000E,4375N	201	202	465	6	1.78	12	570	12	68	0.39	108	< 10	80			
L5000E,4400N	201	202	340	4	1.21	7	480	24	126	0.35	86	< 10	56			
L5000E,4425N	201	202	1145	3	1.26	14	1510	12	349	0.14	36	< 10	68			
L5000E,4450N	201	202	335	10	0.81	19	550	30	75	0.31	66	< 10	80			
L5000E,4475N	201	202	1515	3	0.82	22	3310	34	308	0.17	49	< 10	88			
L5000E,4500N	201	202	730	3	1.03	26	1140	28	219	0.36	78	10	82			
L5000E,4525N	201	202	645	5	0.78	20	1190	40	189	0.25	65	< 10	96			
L5000E,4550N	201	202	1420	7	0.65	21	1110	46	154	0.41	85	< 10	90			
L5000E,4575N	201	202	740	2	0.90	20	1300	32	248	0.26	72	< 10	92			
L5000E,4600N	201	202	645	3	0.94	19	750	42	172	0.33	84	< 10	106			
L5000E,4625N	201	202	450	3	1.14	14	880	36	241	0.26	83	< 10	90			
L5000E,4650N	201	202	655	3	1.28	11	710	32	176	0.28	78	< 10	112			
L5000E,4675N	201	202	1305	2	1.56	14	1030	50	273	0.23	77	< 10	128			
L5000E,4700N	201	202	615	3	1.19	14	1160	44	187	0.26	90	< 10	92			
L5000E,4725N	201	202	485	1	1.43	17	810	20	248	0.27	95	< 10	74			
L5000E,4750N	201	202	505	3	2.27	14	530	14	440	0.24	72	< 10	76			
L5000E,4775N	201	202	735	4	1.10	21	1200	32	190	0.28	125	< 10	98			
L5000E,4800N	201	202	565	2	1.11	20	970	30	167	0.29	96	< 10	106			
L5000E,4825N	201	202	465	3	1.11	18	930	24	158	0.30	97	< 10	90			
L5000E,4850N	201	202	480	4	1.14	13	720	16	172	0.27	95	< 10	74			
L5000E,4875N	201	202	600	3	1.01	25	1210	36	143	0.39	89	< 10	108			
L5000E,4900N	201	202	835	4	0.89	48	1770	56	127	0.54	112	< 10	170			
L5000E,4925N	201	202	620	5	1.40	31	1140	36	231	0.37	88	< 10	126			
L5000E,4950N	201	202	775	5	0.85	36	1370	48	115	0.47	103	< 10	146			
L5000E,4975N	201	202	800	4	0.89	34	1370	60	118	0.51	97	< 10	146			
L5000E,5000N	201	202	1235	5	0.90	31	1280	52	118	0.47	102	< 10	138			

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9630855

Comments: ATTN:DAVID TERRY

CERTIFICATE A9630855

(GP W) - WESTMIN RESOURCES LTD.

Project: 6408
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 11-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	60	Dry, sieve to -80 mesh
202	60	save reject
285	60	ICP - HF digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	60	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
578	60	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	60	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	60	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	60	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	60	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	60	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	60	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	60	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	60	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	60	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	60	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	60	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	60	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	60	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	60	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	60	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	60	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	60	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	60	Pb ppm: 24 element, rock & core	AAS	2	10000
582	60	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	60	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	60	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	60	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	60	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

Chemex Labs Ltd.

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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN:DAVID TERRY

Page . ber :1-A
Total Pages :2
Certificate Date: 11-SEP-96
Invoice No. :19630855
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9630855

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
TY6400E-5025N	201	202	20	0.2	6.73	1230	1.5	8	1.17	1.0	19	56	246	4.12	2.55	1.42
TY6400E-5050N	201	202	< 5	0.4	7.88	1440	2.0	8	0.85	2.5	39	60	324	6.60	3.03	1.69
TY6400E-5075N	201	202	< 5	0.6	6.54	1640	1.5	8	1.40	3.0	25	53	158	4.24	2.43	1.27
TY6400E-5100N	201	202	< 5	0.2	6.54	1710	1.5	4	1.53	0.5	19	57	78	3.96	2.32	1.43
TY6400E-5125N	201	202	< 5	0.6	5.56	1520	1.5	6	2.15	0.5	9	52	52	2.33	1.70	1.22
TY6400E-5150N	201	202	< 5	0.8	5.64	1380	1.5	6	2.59	< 0.5	10	51	58	2.86	1.71	1.17
TY6400E-5175N	201	202	< 5	0.2	4.69	1600	1.0	8	2.96	< 0.5	10	52	52	2.62	1.47	1.11
TY6400E-5200N	201	202	< 5	0.4	6.36	1980	1.5	6	2.07	< 0.5	12	67	25	3.15	2.05	1.54
TY6400E-5225N	201	202	< 5	0.2	5.42	1310	1.5	6	2.52	< 0.5	10	49	42	2.61	1.72	1.21
TY6400E-5250N	201	202	< 5	0.4	6.47	1590	1.5	10	1.99	< 0.5	15	67	35	3.51	2.13	1.53
TY6400E-5275N	201	202	< 5	0.4	7.13	1770	2.0	6	1.88	< 0.5	13	69	32	3.59	2.39	1.60
TY6400E-5300N	201	202	< 5	< 0.2	6.79	1550	1.5	6	1.99	< 0.5	13	66	32	3.49	2.26	1.53
TY6600E-5025N	201	202	< 5	1.0	5.60	1050	1.5	8	2.06	0.5	10	34	59	2.58	1.80	0.94
TY6600E-5050N	201	202	< 5	0.2	6.20	1270	1.5	4	1.95	< 0.5	10	50	44	2.77	2.02	1.03
TY6600E-5075N	201	202	< 5	0.2	8.07	1560	2.0	6	1.51	< 0.5	14	66	40	3.99	2.46	1.58
TY6600E-5100N	201	202	< 5	0.4	6.19	1120	1.5	< 2	1.41	1.0	11	42	49	2.77	1.94	0.82
TY6600E-5125N	201	202	< 5	< 0.2	6.58	1180	1.5	2	1.43	0.5	7	51	29	3.05	2.07	0.79
TY6600E-5150N	201	202	< 5	< 0.2	7.07	1220	1.5	2	1.58	0.5	10	43	25	2.77	2.20	1.11
TY6600E-5175N	201	202	< 5	< 0.2	6.86	1420	1.5	10	1.57	0.5	13	54	34	3.29	2.24	1.33
TY6600E-5200N	201	202	< 5	< 0.2	6.72	1240	1.5	8	1.93	< 0.5	12	36	33	2.77	2.09	1.05
TY6600E-5225N	201	202	< 5	< 0.2	7.42	1530	2.0	2	1.41	< 0.5	15	66	28	3.80	2.58	1.52
TY6600E-5250N	201	202	< 5	0.4	6.41	1420	1.5	2	1.60	< 0.5	14	54	42	3.57	2.23	1.34
TY6600E-5275N	201	202	< 5	0.4	6.95	1500	2.0	6	1.49	0.5	15	65	45	3.55	2.43	1.43
TY6600E-5300N	201	202	< 5	0.4	7.35	1590	2.0	8	1.50	< 0.5	13	64	34	3.42	2.63	1.48
TY6800E-5025N	201	202	< 5	0.4	6.98	1440	2.0	6	1.64	0.5	14	60	42	3.42	2.50	1.42
TY6800E-5050N	201	202	< 5	0.2	7.15	1520	2.0	8	1.66	< 0.5	12	64	39	3.37	2.46	1.44
TY6800E-5075N	201	202	< 5	0.2	6.92	1390	2.0	6	1.61	< 0.5	13	56	42	3.31	2.39	1.39
TY6800E-5100N	201	202	< 5	0.4	7.27	1430	2.0	6	1.56	0.5	16	60	43	3.52	2.63	1.45
TY6800E-5125N	201	202	< 5	0.4	7.09	1390	2.0	4	1.48	< 0.5	13	55	37	3.33	2.59	1.43
TY6800E-5150N	201	202	< 5	< 0.2	6.60	1180	1.5	8	1.49	< 0.5	13	53	29	3.17	2.39	1.31
TY6800E-5175N	201	202	< 5	< 0.2	6.84	1310	1.5	6	1.27	< 0.5	16	57	33	3.70	2.51	1.37
TY6800E-5200N	201	202	< 5	0.4	7.18	1560	2.0	4	1.64	< 0.5	15	71	30	3.83	2.32	1.55
TY6800E-5225N	201	202	< 5	< 0.2	6.84	1130	1.5	6	0.96	< 0.5	11	56	26	3.39	2.25	1.31
TY6800E-5250N	201	202	< 5	0.4	7.15	1520	1.5	2	1.31	0.5	14	61	41	3.36	2.42	1.47
TY6800E-5275N	201	202	< 5	0.2	6.64	1250	1.5	6	1.55	0.5	12	54	36	3.19	2.45	1.24
TY6800E-5300N	201	202	< 5	0.2	7.20	1440	1.5	6	1.51	< 0.5	13	62	33	3.49	2.56	1.54
TY7000E-5025N	201	202	< 5	0.2	6.57	1200	1.5	6	1.62	< 0.5	12	57	33	3.15	2.37	1.21
TY7000E-5050N	201	202	< 5	0.2	6.67	1330	1.5	8	1.57	0.5	15	59	40	3.34	2.46	1.24
TY7000E-5075N	201	202	< 5	< 0.2	6.76	1370	1.5	6	1.51	0.5	13	61	45	3.25	2.44	1.28
TY7000E-5100N	201	202	< 5	< 0.2	6.95	1340	2.0	6	1.50	< 0.5	12	59	36	3.25	2.64	1.34

CERTIFICATION: Ian Bridden

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN:DAVID TERRY

Page Number :1-B
Total Pages :2
Certificate Date: 11-SEP-96
Invoice No. :I9630855
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9630855

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
TY6400E-5025N	201	202	675	6	1.03	19	940	68	193	0.32	90	< 10	246			
TY6400E-5050N	201	202	1470	9	0.92	31	850	96	150	0.32	108	< 10	400			
TY6400E-5075N	201	202	1325	5	1.04	48	1050	42	208	0.31	92	< 10	676			
TY6400E-5100N	201	202	3920	6	0.92	25	840	56	198	0.30	90	< 10	154			
TY6400E-5125N	201	202	585	1	1.05	24	1130	24	254	0.27	74	< 10	140			
TY6400E-5150N	201	202	535	2	1.31	20	860	20	325	0.38	90	< 10	78			
TY6400E-5175N	201	202	610	1	0.88	21	790	20	268	0.34	79	< 10	74			
TY6400E-5200N	201	202	860	1	1.05	21	1110	26	233	0.34	95	< 10	146			
TY6400E-5225N	201	202	575	1	1.08	18	990	20	275	0.30	77	< 10	100			
TY6400E-5250N	201	202	755	3	1.11	26	1080	32	228	0.35	99	< 10	148			
TY6400E-5275N	201	202	840	< 1	1.21	27	1020	28	226	0.38	105	< 10	152			
TY6400E-5300N	201	202	920	1	1.25	23	1020	24	236	0.39	102	< 10	140			
TY6600E-5025N	201	202	575	3	1.16	14	1430	18	270	0.25	58	< 10	96			
TY6600E-5050N	201	202	585	1	1.39	17	750	18	260	0.37	84	< 10	84			
TY6600E-5075N	201	202	895	3	1.44	21	460	28	233	0.38	114	< 10	132			
TY6600E-5100N	201	202	1220	3	1.47	20	1030	20	253	0.32	80	< 10	106			
TY6600E-5125N	201	202	435	3	1.64	16	470	28	248	0.45	107	< 10	110			
TY6600E-5150N	201	202	605	1	1.74	13	830	22	311	0.30	81	< 10	88			
TY6600E-5175N	201	202	1580	1	1.27	20	940	32	218	0.33	94	< 10	112			
TY6600E-5200N	201	202	940	1	1.63	15	970	20	324	0.28	73	< 10	96			
TY6600E-5225N	201	202	805	1	1.23	24	920	34	197	0.34	108	< 10	150			
TY6600E-5250N	201	202	1045	1	1.09	22	860	34	191	0.31	94	< 10	122			
TY6600E-5275N	201	202	865	2	1.12	28	850	34	191	0.32	100	< 10	136			
TY6600E-5300N	201	202	650	1	1.16	25	820	30	188	0.32	102	< 10	168			
TY6800E-5025N	201	202	1205	1	1.14	27	820	36	194	0.30	97	< 10	162			
TY6800E-5050N	201	202	870	2	1.06	28	800	28	185	0.29	99	< 10	142			
TY6800E-5075N	201	202	905	1	1.10	28	840	32	186	0.30	95	< 10	126			
TY6800E-5100N	201	202	1325	3	1.27	25	850	36	200	0.33	101	< 10	146			
TY6800E-5125N	201	202	1065	1	1.21	25	760	32	184	0.30	97	< 10	128			
TY6800E-5150N	201	202	820	2	1.33	19	760	32	200	0.34	91	< 10	92			
TY6800E-5175N	201	202	620	1	1.20	24	670	36	182	0.32	98	< 10	114			
TY6800E-5200N	201	202	1170	1	1.13	22	1070	32	223	0.35	111	< 10	120			
TY6800E-5225N	201	202	605	2	1.19	18	420	28	153	0.32	102	< 10	94			
TY6800E-5250N	201	202	800	3	1.19	26	880	36	192	0.32	108	< 10	118			
TY6800E-5275N	201	202	590	1	1.31	23	790	36	189	0.33	92	< 10	104			
TY6800E-5300N	201	202	735	2	1.30	21	590	30	192	0.33	111	< 10	108			
TY7000E-5025N	201	202	585	1	1.38	20	780	36	200	0.33	91	< 10	100			
TY7000E-5050N	201	202	905	1	1.31	22	760	40	191	0.33	94	< 10	106			
TY7000E-5075N	201	202	810	2	1.27	23	800	40	189	0.31	94	< 10	118			
TY7000E-5100N	201	202	740	1	1.26	21	740	34	179	0.33	96	< 10	112			

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN:DAVID TERRY

Certificate Date: 11-SEP-96
Invoice No. : I9630855
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9630855

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
TY7000E-5125N	201	202	< 5	0.2	7.28	1470	2.0	8	1.53	< 0.5	12	65	42	3.35	2.69	1.41
TY7000E-5150N	201	202	< 5	0.2	6.80	1370	2.0	2	1.45	0.5	12	59	42	3.24	2.55	1.33
TY7000E-5175N	201	202	< 5	< 0.2	7.65	1730	2.0	6	0.96	0.5	15	72	32	4.22	2.86	1.50
TY7000E-5200N	201	202	< 5	< 0.2	6.59	1190	1.5	< 2	1.37	< 0.5	9	51	21	2.86	2.32	1.24
TY7000E-5225N	201	202	< 5	0.6	6.81	1430	1.5	4	1.51	< 0.5	13	61	38	3.22	2.23	1.30
TY7000E-5250N	201	202	< 5	< 0.2	6.12	1090	1.5	2	1.28	0.5	9	46	38	2.78	1.92	1.08
TY7000E-5275N	201	202	< 5	< 0.2	6.51	1150	1.5	6	1.21	< 0.5	11	49	27	3.00	2.49	1.25
TY7000E-5300N	201	202	< 5	0.2	7.36	1650	2.0	6	1.28	< 0.5	12	76	42	3.86	2.48	1.53
TY7200E-5025N	201	202	< 5	0.4	6.86	1680	2.0	6	1.42	0.5	18	60	32	3.48	2.39	1.33
TY7200E-5050N	201	202	< 5	0.6	6.55	1580	1.5	4	1.13	< 0.5	13	54	29	2.80	2.17	1.11
TY7200E-5075N	201	202	< 5	< 0.2	6.86	1550	2.0	< 2	1.09	< 0.5	14	65	32	3.39	2.49	1.36
TY7200E-5100N	201	202	< 5	0.8	6.91	1400	1.5	6	1.31	0.5	10	48	42	2.87	2.29	1.09
TY7200E-5125N	201	202	< 5	< 0.2	5.98	1200	1.5	2	1.04	< 0.5	9	47	31	2.90	2.01	1.11
TY7200E-5150N	201	202	< 5	0.2	6.26	1340	1.5	2	1.11	< 0.5	9	52	37	3.09	2.22	1.14
TY7200E-5175N	201	202	< 5	< 0.2	7.21	1690	2.0	8	1.11	< 0.5	13	59	50	3.63	2.44	1.29
TY7200E-5200N	201	202	< 5	< 0.2	5.87	1190	1.5	2	1.17	< 0.5	7	46	21	2.53	2.08	1.02
TY7200E-5225N	201	202	< 5	< 0.2	5.83	1230	1.5	10	1.09	< 0.5	10	52	25	2.89	2.15	1.15
TY7200E-5250N	201	202	< 5	< 0.2	5.92	1230	1.5	4	1.06	< 0.5	8	47	22	2.86	2.11	1.14
TY7200E-5275N	201	202	< 5	< 0.2	6.30	1270	1.5	< 2	1.04	< 0.5	7	51	18	2.65	2.20	1.13
TY7200E-5300N	201	202	< 5	< 0.2	7.01	1460	1.5	6	1.04	< 0.5	8	68	24	3.58	2.37	1.50

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN:DAVID TERRY

Certificate Date: 11-SEP-96
Invoice No. : I9630855
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9630855

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
TY7000E-5125N	201	202	765	3	1.21	24	750	36	177	0.31	103	< 10	120			
TY7000E-5150N	201	202	900	2	1.24	21	750	36	177	0.29	98	< 10	114			
TY7000E-5175N	201	202	2280	3	0.94	29	640	46	138	0.29	122	< 10	136			
TY7000E-5200N	201	202	550	1	1.33	19	760	22	187	0.32	90	< 10	92			
TY7000E-5225N	201	202	790	1	1.20	23	970	30	189	0.31	105	< 10	96			
TY7000E-5250N	201	202	445	1	1.21	20	1000	26	212	0.26	84	< 10	86			
TY7000E-5275N	201	202	595	1	1.40	19	700	28	174	0.35	90	< 10	82			
TY7000E-5300N	201	202	715	2	1.27	33	1060	22	197	0.37	106	< 10	100			
TY7200E-5025N	201	202	1295	1	1.32	25	860	30	199	0.35	107	< 10	118			
TY7200E-5050N	201	202	890	1	1.22	18	1100	26	190	0.29	98	< 10	96			
TY7200E-5075N	201	202	795	2	1.13	21	670	30	151	0.34	118	< 10	102			
TY7200E-5100N	201	202	595	2	1.61	20	850	26	267	0.30	90	< 10	88			
TY7200E-5125N	201	202	525	3	1.17	17	660	24	163	0.30	96	< 10	84			
TY7200E-5150N	201	202	540	1	1.28	18	910	30	188	0.31	100	< 10	94			
TY7200E-5175N	201	202	670	4	1.33	24	910	36	207	0.31	117	< 10	116			
TY7200E-5200N	201	202	455	1	1.35	13	570	20	187	0.31	93	< 10	66			
TY7200E-5225N	201	202	535	1	1.20	17	700	24	152	0.31	95	< 10	80			
TY7200E-5250N	201	202	520	3	1.19	17	750	22	159	0.33	98	< 10	76			
TY7200E-5275N	201	202	490	2	1.20	15	550	20	168	0.37	99	< 10	70			
TY7200E-5300N	201	202	665	4	1.23	25	700	20	163	0.45	122	< 10	94			

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9632952

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE A9632952

(GP W) - WESTMIN RESOURCES LTD.

Project: TY
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 30-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	51	Geochem ring to approx 150 mesh
226	51	0-3 Kg crush and split
3202	51	Rock - save entire reject
285	51	ICP - HF digestion charge
287	51	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	51	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	51	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	51	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	51	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	51	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	51	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	51	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	51	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	51	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	51	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	51	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	51	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	51	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	51	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	51	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	51	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	51	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	51	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	51	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	51	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	51	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	51	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	51	Pb ppm: 24 element, rock & core	AAS	2	10000
582	51	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	51	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	51	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	51	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	51	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

Chemex Labs Ltd.

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PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: TY
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC P. 1-A
Tot QC Pg: 1
Date: 28-SEP-96
Invoice #: I9632952
P.O. #:
GP W

QC DATA OF CERTIFICATE A9632952

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FMC-1	Std2	1	330	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	363	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
G96-TOT	Std1	1	-----	-----	-----	-----	-----	8.33	1280	1.0	6	2.26	0.5	18	116	198
G96-TOT	Std2	1	-----	-----	-----	-----	-----	7.82	1230	1.0	6	2.18	1.0	19	101	193
G96-TOT	Std1	2	-----	-----	-----	-----	-----	8.03	1230	0.5	< 2	2.16	0.5	19	105	194
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177
GEO-96	Std1	1	-----	60	4.8	190	5.4	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-96	Std2	1	-----	58	4.6	160	5.8	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-96	Std1	2	-----	60	4.4	180	5.4	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	64	4.5	168	5.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
JL-1	Std1	2	100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	92	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-3	Blnk	1	-----	-----	-----	< 10	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	19	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-G2	Blnk	1	-----	1	0.2	-----	< 0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	2	< 0.2	-----	< 0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-T3	Blnk	1	-----	-----	-----	-----	-----	0.30	20	< 0.5	< 2	0.01	< 0.5	< 1	< 1	< 1
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	2
SL-96	Std1	1	730	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	765	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
175167	Dup	1-01	< 5	4	< 0.2	20	< 0.2	2.60	600	0.5	< 2	1.05	< 0.5	9	241	264
	Orig	1-01	< 5	6	< 0.2	30	< 0.2	2.57	810	< 0.5	2	1.04	< 0.5	9	271	266

CERTIFICATION: Stuart Bichle

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: TY
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC F .: 1-B
Tot QC Pg: 1
Date: 28-SEP-96
Invoice #: I9632952
P.O. #:
GP W

QC DATA OF CERTIFICATE A9632952

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C	Blnk	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FMC-1	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
G96-TOT	Std1	1	5.00	2.02	1.13	1050	10	3.81	24	5330	-----	248	0.37	168	10	202
G96-TOT	Std2	1	5.00	1.92	1.08	1095	10	1.10	23	670	-----	240	0.37	164	10	200
G96-TOT	Std1	2	4.96	1.97	1.08	1085	11	1.16	23	640	-----	240	0.37	161	20	200
CHEMEX MEAN	---	---	4.41	1.86	1.03	927	9	1.03	20	648	-----	226	0.35	156	20	186
GEO-96	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	136	-----	-----	-----	-----	-----
GEO-96	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	132	-----	-----	-----	-----	-----
GEO-96	Std1	2	-----	-----	-----	-----	-----	-----	-----	-----	138	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	120	-----	-----	-----	-----	-----
JL-1	Std1	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-3	Blnk	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-G2	Blnk	1	-----	-----	-----	-----	-----	-----	-----	-----	< 2	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	< 2	-----	-----	-----	-----	-----
SIO2-T3	Blnk	1	0.05	0.05	0.01	< 5	< 1	0.01	< 1	150	-----	138	0.01	2	< 10	< 2
CHEMEX MEAN	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	-----	178	< 0.01	2	< 10	< 2
SL-96	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
175167	Dup	1-01	1.86	0.78	0.86	260	24	0.05	51	2950	18	39	0.07	213	< 10	44
	Orig	1-01	1.86	0.77	0.85	260	24	0.05	53	2910	18	39	0.07	211	< 10	48

CERTIFICATION: Frank Pinkle

Chemex Labs Ltd.

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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
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VANCOUVER, BC
V7X 1C4

Project : TY
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number : 1-A
Total Pages : 2
Certificate Date: 28-SEP-96
Invoice No. : I9632952
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9632952

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
[redacted]	205 226	< 5	6	< 0.2	30	< 0.2	2.57	810	< 0.5	2	1.04	< 0.5	9	271	266
	205 226	< 5	38	0.4	30	< 0.2	1.25	270	< 0.5	6	0.47	< 0.5	9	275	325
	205 226	< 5	12	< 0.2	< 10	< 0.2	1.29	600	< 0.5	8	0.36	< 0.5	4	224	65
	205 226	< 5	16	< 0.2	10	< 0.2	5.48	750	0.5	10	1.95	< 0.5	15	189	167
	205 226	< 5	4	< 0.2	80	0.4	7.20	220	1.5	8	0.94	< 0.5	9	146	36
	205 226	< 5	2	< 0.2	70	< 0.2	7.48	270	2.0	< 2	0.91	< 0.5	9	136	14
	205 226	< 5	1	< 0.2	40	< 0.2	7.64	260	2.0	6	0.86	< 0.5	9	127	13
	205 226	< 5	6	< 0.2	10	< 0.2	7.92	590	1.0	8	2.77	< 0.5	20	158	59
	205 226	< 5	4	0.2	40	0.4	7.48	250	2.0	4	1.52	< 0.5	9	130	38
	205 226	< 5	4	< 0.2	40	< 0.2	8.31	310	2.0	4	2.06	< 0.5	11	112	64
	205 226	< 5	4	< 0.2	20	0.4	8.43	230	2.0	10	2.83	< 0.5	14	121	108
	205 226	< 5	4	0.2	< 10	< 0.2	7.58	210	1.5	4	2.61	< 0.5	13	113	87
	205 226	< 5	8	< 0.2	40	< 0.2	7.07	200	2.0	6	1.55	< 0.5	9	98	70
	205 226	< 5	6	0.4	140	< 0.2	7.81	510	2.0	6	2.41	< 0.5	10	77	19
	205 226	< 5	8	0.6	60	< 0.2	7.42	660	2.0	2	1.43	0.5	6	119	24
175186	205 226	< 5	2	< 0.2	30	< 0.2	5.91	140	1.5	4	0.87	< 0.5	18	155	46
175187	205 226	< 5	1	< 0.2	80	0.6	5.35	200	1.0	8	1.23	0.5	21	208	76
175189	205 226	< 5	1	< 0.2	10	< 0.2	5.78	320	0.5	8	3.23	< 0.5	21	266	39
175190	205 226	< 5	2	< 0.2	30	< 0.2	7.82	650	0.5	8	2.70	< 0.5	17	184	30
175191	205 226	< 5	1	< 0.2	10	< 0.2	6.60	700	0.5	2	3.91	< 0.5	20	401	33
175192	205 226	< 5	4	< 0.2	< 10	< 0.2	5.46	90	0.5	2	4.97	< 0.5	39	929	53
175193	205 226	< 5	2	< 0.2	30	< 0.2	7.35	220	1.0	4	2.37	0.5	16	170	33
175194	205 226	< 5	4	0.2	40	0.4	7.36	130	0.5	6	2.90	3.0	20	212	53
175195	205 226	< 5	2	0.2	50	0.2	7.68	190	1.0	10	2.75	2.0	20	161	57
175196	205 226	< 5	1	< 0.2	< 10	< 0.2	7.53	320	0.5	6	2.34	< 0.5	23	153	111
175197	205 226	< 5	1	< 0.2	10	< 0.2	7.70	270	0.5	< 2	2.53	0.5	21	154	245
175198	205 226	< 5	1	< 0.2	90	0.4	7.45	390	1.0	4	3.40	2.0	20	147	120
175199	205 226	< 5	2	0.2	110	0.4	7.62	200	1.0	6	2.24	5.5	20	152	238
175200	205 226	< 5	1	0.2	30	0.4	5.47	200	0.5	< 2	4.08	< 0.5	37	1085	35
175201	205 226	< 5	1	< 0.2	50	0.4	7.58	110	0.5	8	2.58	< 0.5	15	147	29
175202	205 226	< 5	1	< 0.2	90	0.4	7.67	170	0.5	6	2.89	1.5	17	170	32
175209	205 226	< 5	2	< 0.2	< 10	< 0.2	3.02	460	0.5	6	1.36	< 0.5	7	90	11
175210	205 226	< 5	1	0.2	50	0.2	7.08	280	< 0.5	8	4.74	< 0.5	25	166	33
175211	205 226	< 5	1	0.2	20	0.2	4.31	430	0.5	8	2.32	< 0.5	11	152	16
175212	205 226	< 5	4	< 0.2	20	< 0.2	7.23	140	1.0	8	2.51	< 0.5	16	142	40
175213	205 226	< 5	2	0.2	< 10	0.4	7.68	190	2.0	8	1.90	< 0.5	11	77	38
175217	205 226	< 5	4	0.2	10	< 0.2	7.46	230	2.0	10	1.67	< 0.5	11	172	67
175218	205 226	< 5	2	< 0.2	< 10	0.4	8.00	210	2.5	< 2	1.83	< 0.5	10	122	107
175219	205 226	< 5	1	0.2	< 10	< 0.2	7.86	290	2.0	10	1.81	< 0.5	12	196	114
175220	205 226	< 5	2	0.2	< 10	< 0.2	7.47	210	2.0	6	1.20	< 0.5	10	81	216

CERTIFICATION: Stewart Bidlake

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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V7X 1C4

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Page . ber : 1-B
Total Pages : 2
Certificate Date: 28-SEP-96
Invoice No. : I9632952
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CERTIFICATE OF ANALYSIS A9632952

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175167	205 226	1.86	0.77	0.85	260	24	0.05	53	2910	18	39	0.07	211	< 10	48
175168	205 226	2.49	0.29	0.63	230	7	0.02	47	640	16	16	0.02	99	< 10	52
175169	205 226	1.53	0.36	0.72	185	4	0.02	25	650	4	12	0.04	74	< 10	20
175170	205 226	4.29	1.88	1.84	440	8	0.27	33	1130	6	69	0.19	179	< 10	74
175171	205 226	2.81	3.03	1.13	220	4	1.53	6	450	32	88	0.19	50	< 10	48
175172	205 226	3.14	3.51	1.10	140	2	1.07	3	390	12	137	0.21	37	< 10	42
175173	205 226	2.92	4.07	1.40	290	4	0.38	4	410	14	87	0.22	37	< 10	70
175174	205 226	4.88	3.94	2.72	815	2	0.25	10	500	4	440	0.29	155	< 10	74
175175	205 226	2.91	3.35	1.05	300	1	1.42	4	420	14	241	0.22	40	< 10	56
175176	205 226	3.44	3.48	1.31	540	4	1.79	4	570	24	401	0.27	58	< 10	114
175177	205 226	4.57	3.54	1.75	795	5	1.36	7	920	26	430	0.37	90	< 10	116
175178	205 226	3.90	2.84	1.25	565	2	1.43	5	710	6	384	0.30	78	< 10	84
175179	205 226	2.86	3.36	0.96	440	4	1.04	4	370	8	234	0.19	37	< 10	108
175184	205 226	3.11	3.58	1.05	770	1	1.82	4	510	14	255	0.24	50	< 10	106
175185	205 226	2.44	3.62	0.73	595	3	2.11	2	400	24	151	0.20	32	< 10	108
175186	205 226	2.85	2.59	1.03	940	5	0.26	25	300	6	48	0.15	56	< 10	68
175187	205 226	4.21	2.03	1.79	1940	29	0.17	40	610	104	48	0.28	95	< 10	120
175189	205 226	3.64	1.95	2.65	1480	3	0.22	67	490	12	140	0.23	97	< 10	92
175190	205 226	4.32	1.99	2.76	1405	4	1.61	18	430	26	226	0.29	144	< 10	68
175191	205 226	3.43	0.78	3.57	1260	1	2.02	87	560	4	267	0.25	127	< 10	54
175192	205 226	4.87	0.20	5.94	1445	1	0.41	310	1010	6	356	0.28	140	10	104
175193	205 226	4.20	2.17	2.25	910	4	1.20	18	360	32	207	0.24	113	< 10	124
175194	205 226	5.15	1.89	2.69	1125	3	1.19	22	470	88	263	0.28	140	< 10	294
175195	205 226	4.94	2.84	2.60	1060	4	1.20	20	430	74	222	0.27	139	< 10	314
175196	205 226	4.91	2.29	2.91	750	3	1.76	17	420	4	254	0.27	140	< 10	66
175197	205 226	5.03	2.45	2.66	790	4	1.33	19	440	6	339	0.28	141	< 10	104
175198	205 226	4.44	2.77	2.37	1115	5	1.49	17	410	78	173	0.27	136	< 10	300
175199	205 226	4.89	3.00	2.75	800	9	1.69	19	420	46	152	0.28	147	< 10	322
175200	205 226	5.16	0.67	7.52	1630	1	1.47	320	1060	4	161	0.30	145	10	228
175201	205 226	4.13	3.04	1.64	600	1	1.45	8	450	26	194	0.24	116	< 10	88
175202	205 226	4.16	2.36	2.20	735	4	1.78	14	440	44	299	0.27	139	< 10	178
175209	205 226	1.33	0.82	1.47	265	3	0.90	32	610	< 2	53	0.18	109	< 10	36
175210	205 226	5.48	0.52	2.93	1030	2	1.37	24	540	20	398	0.31	184	10	82
175211	205 226	2.91	0.79	1.51	445	1	0.80	18	500	4	192	0.18	88	< 10	42
175212	205 226	4.42	1.84	1.85	515	4	1.35	14	500	8	280	0.27	118	< 10	60
175213	205 226	2.98	2.96	0.65	280	8	1.92	3	380	16	252	0.21	36	< 10	40
175217	205 226	2.91	2.64	1.11	280	4	1.57	13	330	8	156	0.19	41	< 10	76
175218	205 226	3.22	2.63	0.95	165	3	2.00	5	410	14	199	0.22	36	< 10	28
175219	205 226	3.45	3.01	1.01	250	1	1.46	4	410	12	183	0.20	44	< 10	42
175220	205 226	2.66	2.41	0.86	150	1	2.35	5	440	12	192	0.21	36	< 10	32

CERTIFICATION: _____

Chemex Labs Ltd.

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Page .oer : 2-A
Total Pages : 2
Certificate Date: 28-SEP-96
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CERTIFICATE OF ANALYSIS A9632952

SAMPLE	PREP CODE		Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175221	205	226	< 5	1	< 0.2	20	< 0.2	7.66	190	2.0	6	1.21	< 0.5	12	51	235
175222	205	226	< 5	2	< 0.2	< 10	0.4	8.14	210	2.0	8	0.79	< 0.5	14	62	611
175223	205	226	< 5	1	< 0.2	10	0.8	7.18	220	1.5	6	0.70	0.5	17	53	1135
175224	205	226	< 5	2	< 0.2	30	0.6	6.97	220	2.0	4	0.81	0.5	10	94	494
175225	205	226	< 5	1	< 0.2	20	0.6	6.81	270	1.5	2	0.91	< 0.5	17	69	936
175226	205	226	< 5	1	< 0.2	10	0.2	7.90	260	0.5	2	3.05	< 0.5	24	203	303
175227	205	226	< 5	2	< 0.2	30	0.6	7.64	110	0.5	8	2.19	< 0.5	24	183	908
175228	205	226	< 5	1	< 0.2	20	0.2	7.89	310	1.0	8	2.27	< 0.5	20	178	688
175229	205	226	< 5	2	< 0.2	30	< 0.2	7.55	280	1.0	6	2.64	< 0.5	19	110	637
175230	205	226	< 5	1	< 0.2	< 10	< 0.2	7.02	1210	2.0	8	0.81	< 0.5	6	79	281
175231	205	226	< 5	1	0.2	30	< 0.2	6.83	1470	1.5	10	0.96	< 0.5	10	66	263

CERTIFICATION: _____

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175221	205	226	2.76	2.88	0.93	190	3	1.94	3	420	8	214	0.22	35	< 10	36
175222	205	226	3.39	3.31	1.30	170	4	0.75	9	490	6	94	0.26	58	< 10	48
175223	205	226	3.07	3.05	1.07	100	4	0.35	9	390	< 2	86	0.23	50	< 10	44
175224	205	226	2.26	2.78	0.71	125	3	1.07	4	210	10	74	0.15	23	< 10	84
175225	205	226	3.52	3.21	1.11	205	4	0.31	9	270	4	60	0.16	52	< 10	84
175226	205	226	5.34	1.53	3.07	620	3	1.16	25	490	4	274	0.29	155	< 10	78
175227	205	226	5.40	1.83	3.45	535	1	0.79	23	440	4	171	0.28	153	< 10	92
175228	205	226	4.63	1.77	2.95	540	3	1.08	21	450	4	191	0.28	135	< 10	82
175229	205	226	4.60	2.02	2.61	560	5	1.39	16	460	4	168	0.27	126	10	84
175230	205	226	1.47	2.49	1.42	190	9	1.37	9	230	6	70	0.15	33	< 10	48
175231	205	226	2.20	1.78	2.02	255	7	1.66	14	360	6	95	0.21	88	< 10	74

CERTIFICATION: Ian R Bucklen

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9633190

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE A9633190

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE 6408 TY
P.O. # : 6408

Samples submitted to our lab in Vancouver, BC.
This report was printed on 30-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	16	Geochem ring to approx 150 mesh
276	16	8-12 Kg crush and split
3202	16	Rock - save entire reject
285	16	ICP - HF digestion charge
287	16	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	16	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	16	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	16	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	16	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	16	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	16	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	16	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	16	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	16	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	16	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	16	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	16	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	16	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	16	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	16	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	16	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	16	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	16	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	16	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	16	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	16	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	16	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	16	Pb ppm: 24 element, rock & core	AAS	2	10000
582	16	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	16	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	16	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	16	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	16	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE 6408 TY
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC Pa : 1-A
Tot QC Pg: 1
Date: 30-SEP-96
Invoice #: I9633190
P.O. #: 6408 GP W

QC DATA OF CERTIFICATE A9633190

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
G96-TOT	Std1	1	-----	-----	-----	-----	-----	7.76	1200	1.0	10	2.21	0.5	21	99	183
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177
GEO-96	Std1	1	-----	60	-----	140	5.0	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	64	-----	168	5.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
JL-1	Std1	1	100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	92	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
175351	Dup	1-01	20	2	< 0.2	50	< 0.2	7.53	200	2.0	4	1.59	< 0.5	11	166	69
	Orig	1-01	10	2	< 0.2	40	< 0.2	7.57	340	2.0	2	1.55	< 0.5	10	151	70

CERTIFICATION: Stan Bucha

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE 6408 TY
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC F : 1-B
Tot QC Pg: 1
Date: 30-SEP-96
Invoice #: I9633190
P.O. #: 6408 GP W

QC DATA OF CERTIFICATE A9633190

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT	Std1	1	4.89	1.87	1.05	1110	10	1.01	26	670	-----	233	0.35	167	10	196
CHEMEX MEAN	---	---	4.41	1.86	1.03	927	9	1.03	20	648	-----	226	0.35	156	20	186
GEO-96	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	136	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	120	-----	-----	-----	-----	-----
JL-1	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
175351	Dup	1-01	2.72	2.47	0.83	180	4	2.13	8	420	14	217	0.19	38	< 10	58
	Orig	1-01	2.72	2.54	0.83	175	2	2.22	6	420	16	222	0.20	38	< 10	58

CERTIFICATION: Frank Richardson

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : WOLVERINE 6408 TY
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page . per : 1-A
Total Pages : 1
Certificate Date: 30-SEP-96
Invoice No. : I9633190
P.O. Number : 6408
Account : GP W

CERTIFICATE OF ANALYSIS A9633190

SAMPLE	PREP CODE		Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175351	205	276	10	2	< 0.2	40	< 0.2	7.57	340	2.0	2	1.55	< 0.5	10	151	70
175352	205	276	35	1	< 0.2	480	< 0.2	7.26	300	2.0	6	1.20	5.5	12	143	153
175353	205	276	< 5	8	3.0	60	< 0.2	5.78	190	0.5	12	5.87	< 0.5	17	205	146
175354	205	276	< 5	2	4.4	10	< 0.2	7.06	180	0.5	8	2.63	< 0.5	21	175	170
175355	205	276	< 5	1	< 0.2	< 10	< 0.2	6.82	880	0.5	10	3.73	< 0.5	20	197	82
175356	205	276	< 5	2	< 0.2	< 10	< 0.2	6.96	270	0.5	4	3.63	< 0.5	23	168	751
175357	205	276	< 5	1	< 0.2	< 10	< 0.2	7.07	910	0.5	2	3.73	< 0.5	18	218	114
175358	205	276	< 5	2	0.2	< 10	< 0.2	1.93	490	< 0.5	10	1.07	< 0.5	10	312	135
175359	205	276	< 5	1	0.4	< 10	< 0.2	1.99	540	0.5	12	1.87	< 0.5	11	258	70
175360	205	276	< 5	1	< 0.2	10	< 0.2	6.99	210	0.5	< 2	2.89	< 0.5	13	152	95
175361	205	276	< 5	2	< 0.2	20	< 0.2	6.23	310	0.5	6	3.38	< 0.5	19	219	89
175362	205	276	< 5	1	< 0.2	20	< 0.2	6.85	360	1.0	< 2	2.38	< 0.5	13	128	56
175363	205	276	< 5	2	< 0.2	10	< 0.2	8.38	400	1.5	10	2.98	< 0.5	17	145	70
175364	205	276	< 5	20	1.6	40	< 0.2	2.56	210	1.5	18	1.39	< 0.5	7	314	25
175365	205	276	< 5	1	0.6	50	< 0.2	4.19	230	1.5	14	1.57	< 0.5	11	206	151
175366	205	276	< 5	1	0.2	170	< 0.2	2.38	440	0.5	6	1.03	< 0.5	9	310	57

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : WOLVERINE 6408 TY
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page ber : 1-B
Total Pages : 1
Certificate Date: 30-SEP-96
Invoice No. : I9633190
P.O. Number : 6408
Account : GP W

CERTIFICATE OF ANALYSIS A9633190

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175351	205 276	2.72	2.54	0.83	175	2	2.22	6	420	16	222	0.20	38	< 10	58
175352	205 276	2.60	2.79	1.43	245	4	1.53	12	260	56	118	0.16	47	< 10	412
175353	205 276	3.99	2.19	2.43	510	5	0.53	18	600	16	543	0.18	135	10	68
175354	205 276	4.80	1.81	2.18	445	4	1.52	29	910	16	170	0.32	190	< 10	116
175355	205 276	4.35	1.10	1.89	480	4	1.58	24	1190	8	297	0.31	176	10	46
175356	205 276	5.16	1.35	1.94	530	3	1.68	23	680	10	277	0.27	170	< 10	66
175357	205 276	4.24	1.74	1.89	610	5	1.09	27	1210	14	297	0.28	202	10	76
175358	205 276	1.64	0.80	0.63	225	3	0.08	29	480	14	63	0.10	58	< 10	46
175359	205 276	2.17	0.64	1.47	390	4	0.05	38	790	30	78	0.13	86	< 10	72
175360	205 276	3.38	1.78	1.59	485	3	1.35	12	250	8	259	0.22	106	10	76
175361	205 276	4.30	1.20	2.07	680	3	0.80	17	650	8	252	0.30	138	10	72
175362	205 276	3.20	2.24	1.36	395	3	1.09	11	300	10	214	0.22	95	< 10	48
175363	205 276	3.94	2.77	1.68	490	2	1.31	13	400	8	265	0.27	121	< 10	58
175364	205 276	1.44	1.02	1.17	280	102	0.06	259	5120	8	59	0.15	1660	< 10	80
175365	205 276	2.40	1.11	1.70	365	23	0.69	114	2010	10	99	0.19	903	< 10	60
175366	205 276	1.45	0.80	1.18	205	4	0.23	60	1670	4	52	0.12	148	< 10	28

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9633191

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE A9633191

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE 6408
P.O. # : 6408

Samples submitted to our lab in Vancouver, BC.
This report was printed on 1-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	57	Geochem ring to approx 150 mesh
276	57	8-12 Kg crush and split
3202	57	Rock - save entire reject
285	57	ICP - HF digestion charge
287	57	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	57	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	57	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	57	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	57	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	57	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	57	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	57	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	57	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	57	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	57	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	57	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	57	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	57	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	57	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	57	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	57	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	57	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	57	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	57	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	57	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	57	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	57	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	57	Pb ppm: 24 element, rock & core	AAS	2	10000
582	57	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	57	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	57	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	57	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	57	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

Chemex Labs Ltd.

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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : WOLVERINE 6408
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Certificate Date: 01-OCT-96
Invoice No. :19633191
P.O. Number :6408
Account :GP W

CERTIFICATE OF ANALYSIS A9633191

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175180	205 276	< 5	6	0.2	40	0.4	6.93	1240	1.5	8	1.98	0.5	9	143	25
175181	205 276	< 5	2	0.6	30	< 0.2	7.34	1410	2.0	6	1.93	0.5	11	137	33
175182	205 276	< 5	1	0.4	20	< 0.2	7.93	1990	2.0	4	2.75	< 0.5	11	130	37
175183	205 276	< 5	1	1.0	60	< 0.2	7.31	2480	1.5	2	2.26	< 0.5	12	57	26
175203	205 276	< 5	2	0.2	20	< 0.2	7.65	600	2.0	4	1.89	< 0.5	10	104	16
175204	205 276	< 5	1	0.2	< 10	< 0.2	7.24	1040	0.5	< 2	3.28	< 0.5	21	195	23
175205	205 276	< 5	1	0.2	10	< 0.2	7.05	1020	0.5	4	2.94	0.5	19	193	29
175206	205 276	< 5	2	0.2	10	< 0.2	5.60	640	0.5	< 2	3.71	0.5	28	676	42
175207	205 276	< 5	1	0.2	20	< 0.2	5.29	170	0.5	< 2	4.39	< 0.5	41	1425	14
175208	205 276	< 5	2	< 0.2	60	< 0.2	6.86	740	0.5	8	3.33	< 0.5	21	288	51
175214	205 276	< 5	1	0.2	30	< 0.2	6.61	670	1.5	2	1.52	< 0.5	11	169	60
175215	205 276	< 5	2	0.2	20	< 0.2	5.83	560	1.0	8	1.14	< 0.5	18	180	97
175216	205 276	< 5	1	0.2	10	< 0.2	6.28	700	1.5	8	1.69	0.5	16	192	131
175232	205 276	< 5	2	0.4	10	< 0.2	6.37	980	1.0	< 2	2.30	0.5	19	167	347
175233	205 276	< 5	1	< 0.2	< 10	< 0.2	7.53	850	0.5	< 2	3.14	< 0.5	19	133	237
175234	205 276	< 5	1	0.2	< 10	< 0.2	7.96	1080	0.5	2	3.15	0.5	19	151	115
175235	205 276	< 5	2	< 0.2	< 10	< 0.2	7.71	1060	0.5	< 2	3.25	< 0.5	20	161	159
175236	205 276	< 5	2	0.2	30	< 0.2	6.88	480	1.0	6	1.88	1.5	20	189	338
175237	205 276	< 5	1	0.4	60	< 0.2	7.16	1080	0.5	< 2	2.57	0.5	25	151	184
175238	205 276	< 5	4	0.2	50	< 0.2	2.20	630	0.5	6	1.28	1.5	8	267	120
175239	205 276	< 5	2	0.2	60	< 0.2	7.11	1640	0.5	4	2.56	0.5	24	134	204
175240	205 276	< 5	4	0.4	10	< 0.2	1.90	940	< 0.5	8	1.88	0.5	9	205	67
175241	205 276	< 5	14	1.2	10	< 0.2	2.25	270	0.5	8	0.84	< 0.5	10	253	144
175242	205 276	< 5	14	0.8	< 10	< 0.2	1.72	240	0.5	8	0.84	< 0.5	8	277	41
175243	205 276	< 5	22	5.8	10	< 0.2	2.00	380	0.5	8	0.77	< 0.5	11	283	63
175244	205 276	< 5	10	2.2	10	< 0.2	0.45	1040	< 0.5	6	1.29	< 0.5	3	356	36
175245	205 276	< 5	12	3.8	50	< 0.2	1.69	670	0.5	6	0.98	< 0.5	7	206	153
175246	205 276	< 5	24	1.4	110	< 0.2	2.77	1450	1.0	12	1.68	1.0	11	352	142
175247	205 276	< 5	64	40	110	< 0.2	2.88	1270	1.0	6	1.45	< 0.5	13	480	129
175248	205 276	< 5	6	4.2	50	< 0.2	4.52	2050	1.5	6	1.88	< 0.5	12	324	144
175249	205 276	< 5	6	1.0	50	< 0.2	4.60	1460	1.5	6	0.64	< 0.5	13	246	79
175250	205 276	< 5	6	1.0	160	0.4	2.12	740	0.5	4	0.90	1.5	7	359	99
175301	205 276	< 5	1	0.6	250	< 0.2	3.15	1550	0.5	6	1.11	< 0.5	8	169	60
175302	205 276	< 5	2	0.4	30	< 0.2	8.00	2460	2.0	2	1.90	< 0.5	15	167	42
175303	205 276	< 5	1	0.2	< 10	< 0.2	7.33	1430	2.0	2	1.79	< 0.5	13	153	16
175304	205 276	< 5	2	0.2	< 10	< 0.2	7.50	6380	2.0	2	1.80	< 0.5	10	64	10
175305	205 276	< 5	2	0.4	10	< 0.2	7.64	4720	2.0	< 2	2.02	< 0.5	12	112	15
175306	205 276	< 5	1	< 0.2	40	< 0.2	8.04	4120	2.0	4	1.85	< 0.5	12	74	8
175307	205 276	< 5	1	< 0.2	30	< 0.2	7.92	5680	2.0	< 2	1.82	< 0.5	10	76	11
175308	205 276	< 5	2	< 0.2	20	< 0.2	8.10	6620	2.0	4	2.20	< 0.5	10	129	11

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : WOLVERINE 6408
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number :1-B
Total Pages :2
Certificate Date: 01-OCT-96
Invoice No. :19633191
P.O. Number :6408
Account :GP W

CERTIFICATE OF ANALYSIS A9633191

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175180	205 276	3.02	2.73	0.80	430	4	1.68	6	350	36	297	0.19	40	< 10	132
175181	205 276	3.07	3.26	1.22	615	4	1.04	6	470	20	252	0.22	51	< 10	120
175182	205 276	2.78	2.59	0.98	570	5	2.23	6	500	18	524	0.24	52	< 10	62
175183	205 276	2.96	3.47	1.05	700	3	0.71	6	470	52	209	0.22	48	< 10	114
175203	205 276	2.33	2.13	1.54	450	3	3.05	9	550	24	212	0.27	70	< 10	66
175204	205 276	4.60	2.37	2.72	950	1	1.30	22	440	12	354	0.27	148	10	90
175205	205 276	4.41	2.26	2.66	785	1	1.44	22	410	16	273	0.26	140	< 10	68
175206	205 276	4.31	1.33	4.86	965	3	1.38	183	650	14	174	0.24	129	10	88
175207	205 276	5.92	0.29	7.94	1445	3	1.11	406	1100	24	117	0.31	158	20	204
175208	205 276	4.42	1.48	2.69	690	3	1.67	36	480	14	276	0.26	153	10	76
175214	205 276	2.96	2.38	1.11	320	3	1.19	14	470	38	212	0.23	56	< 10	76
175215	205 276	4.43	1.84	1.67	415	3	0.53	28	620	12	76	0.31	112	< 10	126
175216	205 276	3.58	2.10	1.61	335	3	0.64	23	500	14	127	0.24	80	< 10	86
175232	205 276	4.02	1.39	2.17	485	29	1.19	21	770	20	199	0.27	154	< 10	88
175233	205 276	4.45	1.43	2.11	730	3	1.61	13	440	12	278	0.27	143	< 10	98
175234	205 276	4.60	1.97	2.17	700	1	1.60	12	460	12	246	0.28	149	10	92
175235	205 276	4.55	1.93	2.12	670	3	1.49	12	420	6	268	0.27	143	10	80
175236	205 276	4.44	2.22	1.99	540	7	0.81	16	960	20	91	0.21	139	< 10	130
175237	205 276	5.36	1.99	2.59	520	3	0.56	19	550	6	122	0.28	175	10	56
175238	205 276	1.59	0.75	1.00	230	5	0.03	59	4230	48	70	0.12	213	< 10	66
175239	205 276	5.19	2.06	2.40	740	< 1	0.25	18	640	6	113	0.27	176	10	98
175240	205 276	1.54	0.55	0.94	245	5	0.03	49	8050	14	125	0.09	177	< 10	28
175241	205 276	2.16	0.70	0.97	240	5	0.03	61	3320	4	53	0.06	185	< 10	36
175242	205 276	1.99	0.59	0.81	215	7	0.02	57	2940	6	50	0.04	222	< 10	26
175243	205 276	2.57	0.64	1.08	230	10	0.03	65	2420	4	61	0.05	218	< 10	34
175244	205 276	0.82	0.15	0.81	245	3	0.01	21	550	2	137	0.01	57	< 10	10
175245	205 276	2.37	0.53	0.56	210	6	0.01	70	2770	4	93	0.05	200	< 10	60
175246	205 276	3.27	0.82	1.71	515	28	0.03	188	5800	10	115	0.10	907	< 10	142
175247	205 276	2.81	0.97	1.59	340	9	0.03	180	3320	6	298	0.09	375	< 10	106
175248	205 276	3.55	1.86	2.61	805	8	0.06	107	1260	6	144	0.30	233	10	100
175249	205 276	3.31	1.95	1.92	435	11	0.05	73	900	6	51	0.24	292	< 10	70
175250	205 276	2.09	0.69	1.37	410	48	0.01	172	2610	12	92	0.11	1480	< 10	136
175301	205 276	2.10	1.34	1.27	300	8	0.05	43	540	4	210	0.13	157	< 10	34
175302	205 276	3.08	2.70	2.16	345	3	2.09	32	590	8	292	0.27	73	< 10	28
175303	205 276	2.77	3.72	1.73	440	1	0.59	9	390	8	141	0.18	46	< 10	34
175304	205 276	2.07	3.64	1.29	390	3	0.96	4	260	14	217	0.15	33	< 10	34
175305	205 276	2.68	3.44	1.46	555	1	0.68	8	430	10	209	0.22	39	< 10	48
175306	205 276	2.83	4.15	1.73	555	4	0.32	6	450	10	159	0.23	40	< 10	52
175307	205 276	2.54	3.20	1.35	350	3	2.18	5	470	8	359	0.24	47	< 10	36
175308	205 276	2.34	3.18	1.51	405	3	2.26	7	470	8	387	0.24	53	< 10	38

CERTIFICATION: Ian Bridden

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : WOLVERINE 6408
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Certificate Date: 01-OCT-96
Invoice No. : I9633191
P.O. Number :6408
Account : GP W

CERTIFICATE OF ANALYSIS A9633191

SAMPLE	PREP CODE		Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175309	205	276	< 5	1	< 0.2	< 10	< 0.2	5.68	4360	1.5	< 2	1.56	< 0.5	9	174	12
175310	205	276	< 5	2	< 0.2	< 10	< 0.2	7.94	5340	2.0	4	2.30	< 0.5	14	86	6
175311	205	276	< 5	1	0.8	30	< 0.2	7.42	3890	1.5	< 2	2.35	0.5	11	78	11
175312	205	276	< 5	1	< 0.2	< 10	< 0.2	7.96	750	0.5	< 2	3.28	< 0.5	23	120	26
175313	205	276	< 5	2	< 0.2	< 10	< 0.2	7.38	930	1.5	< 2	2.81	< 0.5	19	111	33
175314	205	276	< 5	4	< 0.2	70	< 0.2	0.66	< 10	< 0.5	6	1.19	0.5	8	284	61
175315	205	276	< 5	2	< 0.2	40	< 0.2	1.49	210	< 0.5	6	0.41	< 0.5	13	193	21
175316	205	276	< 5	1	< 0.2	< 10	< 0.2	5.96	780	1.0	< 2	1.72	< 0.5	18	147	42
175317	205	276	< 5	2	< 0.2	< 10	< 0.2	0.88	280	< 0.5	4	0.97	< 0.5	4	192	6
175318	205	276	< 5	2	< 0.2	10	< 0.2	1.65	320	< 0.5	4	0.71	< 0.5	14	227	33
175319	205	276	< 5	1	< 0.2	< 10	< 0.2	2.10	430	< 0.5	6	1.18	< 0.5	13	211	35
175320	205	276	< 5	1	< 0.2	50	< 0.2	3.87	210	0.5	2	2.55	0.5	19	206	114
175321	205	276	< 5	2	< 0.2	20	< 0.2	7.86	680	1.5	< 2	2.46	< 0.5	27	206	46
175322	205	276	< 5	1	< 0.2	10	< 0.2	7.62	1180	0.5	4	3.70	< 0.5	19	217	35
175323	205	276	< 5	2	< 0.2	10	< 0.2	7.32	790	0.5	2	3.69	< 0.5	20	142	49
175324	205	276	< 5	1	< 0.2	40	< 0.2	7.34	1030	0.5	6	3.56	0.5	22	151	72
175325	205	276	< 5	2	< 0.2	70	0.4	7.01	920	0.5	< 2	3.80	2.5	21	131	117

CERTIFICATION: Stan Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : WOLVERINE 6408
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number :2-B
Total Pages :2
Certificate Date: 01-OCT-96
Invoice No. :I9633191
P.O. Number :6408
Account :GP W

CERTIFICATE OF ANALYSIS A9633191

SAMPLE	PREP CODE		Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175309	205	276	2.24	2.64	1.53	425	1	0.94	8	360	4	198	0.21	44	< 10	44
175310	205	276	3.27	4.20	1.78	720	2	0.38	6	570	6	343	0.28	67	< 10	64
175311	205	276	2.84	3.47	1.63	740	1	1.58	4	530	48	332	0.25	58	< 10	64
175312	205	276	5.04	1.57	2.73	1275	1	1.68	13	530	14	389	0.30	169	< 10	68
175313	205	276	3.80	1.47	2.22	980	< 1	2.36	14	560	10	274	0.29	113	10	50
175314	205	276	1.86	0.10	0.83	605	5	0.01	8	150	80	21	0.01	15	< 10	80
175315	205	276	1.76	0.43	0.98	535	6	0.03	23	140	22	10	0.08	28	< 10	62
175316	205	276	3.57	1.98	2.29	905	7	0.93	29	330	20	76	0.26	126	< 10	56
175317	205	276	0.76	0.23	0.86	365	1	0.08	11	50	< 2	25	0.03	16	< 10	20
175318	205	276	2.23	0.45	1.06	680	3	0.03	36	200	6	21	0.07	32	< 10	32
175319	205	276	2.68	0.67	1.30	965	6	0.01	39	250	12	26	0.10	36	< 10	72
175320	205	276	4.09	1.24	2.06	2330	4	0.05	27	1580	204	59	0.73	71	10	192
175321	205	276	6.31	3.20	2.69	1425	5	0.34	37	1330	22	127	0.42	113	10	120
175322	205	276	4.66	2.52	2.67	1135	2	0.69	21	440	30	262	0.28	145	10	90
175323	205	276	3.98	1.98	2.27	935	2	1.73	19	420	44	186	0.26	131	10	86
175324	205	276	3.80	1.70	2.27	725	2	1.80	20	440	168	270	0.27	136	< 10	168
175325	205	276	3.40	1.33	2.19	855	< 1	2.28	19	410	440	242	0.26	135	< 10	372

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9633265

Comments: ATTN:TERRY TUCKER-VANCOUVER OFFICE

CERTIFICATE A9633265

(GP W) - WESTMIN RESOURCES LTD.

Project: 6408 TY SHIP.#2
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 26-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	60	Dry, sieve to -80 mesh
202	60	save reject
285	60	ICP - HF digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	60	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
578	60	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	60	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	60	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	60	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	60	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	60	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	60	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	60	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	60	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	60	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	60	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	60	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	60	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	60	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	60	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	60	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	60	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	60	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	60	Pb ppm: 24 element, rock & core	AAS	2	10000
582	60	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	60	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	60	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	60	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	60	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: 6408 TY SHIP.#2
Comments: ATTN:TERRY TUCKER-VANCOUVER OFFICE

QC P. : 1-A
Tot QC Pg: 1
Date: 26-SEP-96
Invoice #: I9633265
P.O. #:
GP W

QC DATA OF CERTIFICATE A9633265

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
BL-C	Blnk	1	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
G96-TOT	Std1	1	-----	-----	7.89	1220	1.0	< 2	2.16	0.5	21	102	193	4.96	1.92	1.07
G96-TOT	Std2	1	-----	-----	7.93	1250	1.0	6	2.20	0.5	21	102	191	5.01	1.93	1.08
G96-TOT	Std1	2	-----	-----	7.74	1180	0.5	10	2.08	0.5	19	99	183	4.81	1.87	1.03
CHEMEX MEAN	---	---	-----	-----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177	4.41	1.86	1.03
GEO-96	Std1	1	-----	5.6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-96	Std2	1	-----	6.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-96	Std1	2	-----	5.6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	5.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
JL-1	Std1	2	100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	92	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-G2	Blnk	1	-----	< 0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	< 0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-T3	Blnk	1	-----	-----	0.29	20	< 0.5	2	0.02	< 0.5	< 1	4	< 1	0.05	0.07	0.01
CHEMEX MEAN	---	---	-----	-----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	2	0.05	0.03	< 0.01
SL-96	Std2	1	900	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	765	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WC-96	Std1	1	240	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	239	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TY 1000E:3700N	Dup	1-01	< 5	0.4	5.95	1220	1.5	< 2	1.22	1.0	27	44	248	4.00	2.23	1.29
	Orig	1-01	< 5	0.4	5.82	1290	1.0	6	1.27	1.0	28	39	268	4.00	2.14	1.26
TY 4800E:5000N	Dup	2-01	< 5	1.0	7.12	1150	1.5	10	1.01	< 0.5	12	93	41	4.32	2.63	1.77
	Orig	2-01	< 5	0.6	6.92	1150	1.5	10	1.02	< 0.5	13	89	38	4.22	2.51	1.76

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: 6408 TY SHIP.#2
Comments: ATTN:TERRY TUCKER-VANCOUVER OFFICE

QC [illegible]: 1-B
Tot QC [illegible]g: 1
Date: 26-SEP-96
Invoice #: I9633265
P.O. #:
GP W

QC DATA OF CERTIFICATE A9633265

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C	Blnk	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
G96-TOT	Std1	1	1105	11	1.07	24	640	-----	241	0.38	165	20	196
G96-TOT	Std2	1	1130	10	1.10	25	660	-----	243	0.38	168	10	200
G96-TOT	Std1	2	1035	10	1.07	25	610	-----	229	0.36	157	10	192
CHEMEX MEAN	---	---	927	9	1.03	20	648	-----	226	0.35	156	20	186
GEO-96	Std1	1	-----	-----	-----	-----	-----	134	-----	-----	-----	-----	-----
GEO-96	Std2	1	-----	-----	-----	-----	-----	144	-----	-----	-----	-----	-----
GEO-96	Std1	2	-----	-----	-----	-----	-----	134	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	120	-----	-----	-----	-----	-----
JL-1	Std1	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-G2	Blnk	1	-----	-----	-----	-----	-----	< 2	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	< 2	-----	-----	-----	-----	-----
SIO2-T3	Blnk	1	< 5	< 1	< 0.01	< 1	160	-----	141	0.01	4	< 10	< 2
CHEMEX MEAN	---	---	20	< 1	< 0.01	< 1	207	-----	178	< 0.01	2	< 10	< 2
SL-96	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WC-96	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TY 1000E:3700N	Dup	1-01	1895	8	1.01	30	930	54	169	0.24	92	< 10	166
	Orig	1-01	1935	8	0.96	30	970	60	171	0.23	88	< 10	170
TY 4800E:5000N	Dup	2-01	750	4	1.07	47	1200	50	130	0.53	110	< 10	132
	Orig	2-01	770	4	0.97	46	1210	46	130	0.53	111	< 10	126

CERTIFICATION: [signature]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

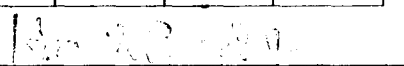
To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408 TY SHIP.#2
Comments: ATTN:TERRY TUCKER-VANCOUVER OFFICE

Page Number :1-A
Total Pages :2
Certificate Date: 26-SEP-96
Invoice No. : I9633265
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9633265

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
TY 1000E:3700N	201 202	< 5	0.4	5.82	1290	1.0	6	1.27	1.0	28	39	268	4.00	2.14	1.26
TY 1000E:3750N	201 202	< 5	0.6	7.91	1540	1.0	< 2	0.98	< 0.5	9	45	34	6.49	3.01	1.13
TY 1000E:3800N	201 202	< 5	0.4	6.55	870	0.5	< 2	1.00	< 0.5	7	31	61	3.80	2.03	0.66
TY 4600E:4550N	201 202	< 5	0.6	5.00	820	1.0	2	2.32	0.5	6	28	34	1.76	1.40	0.57
TY 4600E:4575N	201 202	< 5	1.6	6.18	820	1.5	< 2	1.80	< 0.5	9	53	61	3.01	1.55	0.75
TY 4600E:4600N	201 202	< 5	0.8	9.37	1260	2.0	< 2	0.98	< 0.5	16	93	65	4.71	3.15	1.09
TY 4600E:4625N	201 202	< 5	1.2	7.54	1110	2.0	2	1.19	< 0.5	11	52	39	3.29	3.06	1.15
TY 4600E:4650N	201 202	< 5	0.4	7.55	1050	1.5	2	1.00	< 0.5	8	42	28	2.79	3.00	1.01
TY 4600E:4675N	201 202	< 5	0.4	8.36	1410	1.5	2	0.78	< 0.5	16	26	38	4.83	2.76	1.71
TY 4600E:4700N	201 202	< 5	0.3	7.52	1210	1.5	< 2	0.67	< 0.5	17	26	68	5.36	2.34	0.82
TY 4600E:4725N	201 202	< 5	1.0	7.92	990	1.5	< 2	1.22	< 0.5	9	20	28	2.49	2.43	0.72
TY 4600E:4750N	201 202	< 5	1.0	7.81	1190	2.0	< 2	0.78	< 0.5	12	54	37	4.26	2.81	1.12
TY 4600E:4775N	201 202	< 5	1.0	6.73	1000	1.5	6	0.88	< 0.5	10	29	28	2.96	2.42	0.83
TY 4600E:4800N	201 202	< 5	0.8	6.98	1050	1.5	2	0.76	< 0.5	9	34	27	3.38	2.49	0.89
TY 4600E:4825N	201 202	< 5	0.6	7.36	1160	1.5	2	0.78	< 0.5	10	33	20	3.22	2.73	0.92
TY 4600E:4850N	201 202	< 5	0.8	7.28	1110	1.5	2	0.67	< 0.5	10	37	22	3.39	2.68	0.94
TY 4600E:4875N	201 202	< 5	0.8	7.95	1170	1.5	2	0.71	< 0.5	12	48	33	3.77	3.00	1.08
TY 4600E:4900N	201 202	< 5	1.4	8.01	1110	1.5	< 2	0.86	< 0.5	17	49	30	3.52	2.77	1.01
TY 4600E:4925N	201 202	< 5	1.0	7.64	1210	1.5	< 2	0.86	< 0.5	10	44	20	3.16	2.70	1.04
TY 4600E:4950N	201 202	< 5	0.8	7.32	1190	1.5	4	0.81	< 0.5	16	58	25	3.84	2.68	1.21
TY 4600E:4975N	201 202	< 5	0.8	7.04	1100	1.5	8	0.84	< 0.5	14	74	35	4.24	2.53	1.43
TY 4600E:5000N	201 202	< 5	0.4	6.01	950	1.0	6	1.12	< 0.5	13	53	43	3.79	2.13	1.34
TY 4800E:4550N	201 202	< 5	0.4	8.57	1250	2.0	6	0.45	< 0.5	15	51	57	4.02	3.21	1.05
TY 4800E:4575N	201 202	< 5	0.4	8.46	1350	2.5	4	0.42	< 0.5	16	51	71	4.48	3.47	1.07
TY 4800E:4600N	201 202	< 5	< 0.2	6.58	1200	2.0	< 2	0.46	< 0.5	11	40	39	2.72	3.48	0.83
TY 4800E:4625N	201 202	< 5	0.2	6.16	1060	1.5	6	0.71	< 0.5	17	46	51	3.37	3.03	0.96
TY 4800E:4650N	201 202	< 5	0.4	7.29	1170	2.0	6	0.74	< 0.5	13	52	43	3.38	3.30	1.15
TY 4800E:4675N	201 202	< 5	< 0.2	7.56	1310	2.0	2	0.73	< 0.5	14	59	46	3.72	3.63	1.25
TY 4800E:4700N	201 202	< 5	0.4	7.70	1340	2.0	4	0.75	< 0.5	13	60	52	3.66	3.55	1.14
TY 4800E:4725N	201 202	< 5	0.6	7.43	1250	2.0	12	0.78	< 0.5	12	59	47	3.55	3.21	1.16
TY 4800E:4750N	201 202	< 5	0.4	7.92	1270	2.0	6	0.97	< 0.5	15	49	42	3.43	3.40	1.11
TY 4800E:4775N	201 202	< 5	0.6	7.60	1270	2.0	< 2	0.79	< 0.5	16	61	42	3.48	3.33	1.21
TY 4800E:4800N	201 202	< 5	0.6	7.64	1330	2.0	6	0.83	< 0.5	14	61	47	3.42	3.31	1.21
TY 4800E:4825N	201 202	< 5	0.4	7.87	1370	2.0	2	0.76	< 0.5	15	62	41	3.64	3.57	1.22
TY 4800E:4850N	201 202	< 5	0.4	7.34	1260	2.0	4	0.81	< 0.5	13	62	40	3.42	3.32	1.20
TY 4800E:4875N	201 202	< 5	0.2	6.53	1100	1.5	2	0.80	< 0.5	15	46	34	3.09	2.87	0.99
TY 4800E:4900N	201 202	< 5	0.4	6.45	1170	1.5	< 2	0.91	< 0.5	13	48	38	3.91	2.50	1.21
TY 4800E:4925N	201 202	< 5	0.4	7.06	1290	1.5	6	0.96	< 0.5	12	60	33	3.97	2.73	1.39
TY 4800E:4950N	201 202	< 5	0.4	7.23	1190	1.5	8	1.19	< 0.5	17	118	48	5.15	2.55	2.15
TY 4800E:4975N	201 202	< 5	0.4	6.72	850	1.0	2	1.65	< 0.5	25	241	57	5.74	1.75	3.84

CERTIFICATION: 

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408 TY SHIP.#2
Comments: ATTN:TERRY TUCKER-VANCOUVER OFFICE

Page Number :1-B
Total Pages :2
Certificate Date: 26-SEP-96
Invoice No. :I9633265
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9633265

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
TY 1000E:3700N	201	202	1935	8	0.96	30	970	60	171	0.23	88	< 10	170			
TY 1000E:3750N	201	202	540	12	1.37	13	970	100	235	0.41	111	10	66			
TY 1000E:3800N	201	202	350	14	1.70	6	750	108	212	0.33	108	< 10	48			
TY 4600E:4550N	201	202	1175	5	0.85	10	1130	20	378	0.13	47	< 10	46			
TY 4600E:4575N	201	202	760	7	0.57	17	1850	40	286	0.14	70	< 10	66			
TY 4600E:4600N	201	202	850	9	0.89	32	1070	40	227	0.35	142	< 10	118			
TY 4600E:4625N	201	202	555	6	1.10	15	1430	40	219	0.28	86	< 10	86			
TY 4600E:4650N	201	202	455	6	1.30	12	890	34	229	0.30	81	< 10	82			
TY 4600E:4675N	201	202	705	6	1.58	11	2050	70	181	0.54	91	10	244			
TY 4600E:4700N	201	202	685	6	0.89	17	3080	76	448	0.51	98	< 10	282			
TY 4600E:4725N	201	202	425	5	2.02	9	940	32	401	0.25	67	< 10	84			
TY 4600E:4750N	201	202	715	8	0.85	24	2060	64	195	0.40	118	< 10	134			
TY 4600E:4775N	201	202	525	5	1.27	13	1730	46	227	0.31	89	< 10	88			
TY 4600E:4800N	201	202	535	6	1.03	13	1890	50	189	0.34	87	< 10	102			
TY 4600E:4825N	201	202	690	5	1.20	14	1200	38	191	0.32	84	< 10	92			
TY 4600E:4850N	201	202	620	4	1.06	14	1440	56	159	0.36	87	< 10	104			
TY 4600E:4875N	201	202	720	5	1.06	18	1190	116	180	0.34	90	< 10	158			
TY 4600E:4900N	201	202	1370	6	1.42	21	1170	160	250	0.26	81	< 10	132			
TY 4600E:4925N	201	202	720	5	1.38	16	1120	54	219	0.33	85	< 10	100			
TY 4600E:4950N	201	202	1135	5	1.16	26	1260	72	175	0.37	98	< 10	116			
TY 4600E:4975N	201	202	925	7	0.93	45	1360	76	142	0.45	101	< 10	138			
TY 4600E:5000N	201	202	910	3	1.28	35	920	44	207	0.40	81	< 10	102			
TY 4800E:4550N	201	202	820	10	0.72	29	1150	74	128	0.24	104	< 10	134			
TY 4800E:4575N	201	202	820	11	0.65	28	1160	72	119	0.31	100	< 10	154			
TY 4800E:4600N	201	202	525	6	1.01	18	870	76	103	0.27	124	< 10	78			
TY 4800E:4625N	201	202	865	6	0.99	20	960	56	139	0.32	87	< 10	98			
TY 4800E:4650N	201	202	735	6	1.08	21	900	52	157	0.32	99	< 10	102			
TY 4800E:4675N	201	202	725	6	1.07	22	840	52	141	0.33	111	< 10	108			
TY 4800E:4700N	201	202	730	6	1.10	23	1040	50	158	0.33	117	< 10	110			
TY 4800E:4725N	201	202	675	6	0.87	25	1170	44	147	0.33	107	< 10	114			
TY 4800E:4750N	201	202	1015	6	1.50	17	920	56	238	0.32	99	< 10	106			
TY 4800E:4775N	201	202	790	6	1.00	22	1160	50	145	0.35	107	< 10	106			
TY 4800E:4800N	201	202	785	6	0.98	25	1090	50	146	0.35	107	< 10	104			
TY 4800E:4825N	201	202	945	5	1.13	20	940	48	150	0.35	116	< 10	106			
TY 4800E:4850N	201	202	785	7	1.00	23	1120	40	141	0.38	106	< 10	102			
TY 4800E:4875N	201	202	1090	5	1.21	21	970	44	172	0.31	95	< 10	88			
TY 4800E:4900N	201	202	700	6	1.06	23	1750	40	143	0.46	93	< 10	120			
TY 4800E:4925N	201	202	775	5	1.17	30	1300	42	158	0.46	107	< 10	122			
TY 4800E:4950N	201	202	970	6	1.09	61	1460	56	153	0.60	128	< 10	136			
TY 4800E:4975N	201	202	1060	4	0.84	149	1360	36	135	0.93	163	< 10	170			

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists *Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408 TY SHIP.#2
Comments: ATTN:TERRY TUCKER-VANCOUVER OFFICE

Certificate Date: 26-SEP-96
Invoice No. : 19633265
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9633265

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
TY 4800E:5000N	201	202	< 5	0.6	6.92	1150	1.5	10	1.02	< 0.5	13	89	38	4.22	2.51	1.76
TY 9200E:3550N	201	202	< 5	0.2	6.78	1080	1.0	6	0.56	< 0.5	9	46	48	4.78	2.36	0.92
TY 9200E:3600N	201	202	< 5	0.4	6.71	950	1.0	< 2	0.80	< 0.5	9	33	53	2.58	2.00	0.68
TY 9200E:3650N	201	202	< 5	0.8	6.35	1020	1.0	4	0.65	< 0.5	7	35	41	3.50	2.12	0.67
TY 9200E:3700N	201	202	< 5	< 0.2	7.17	1340	1.5	6	0.55	< 0.5	12	50	166	3.92	2.89	1.29
TY 9200E:3750N	201	202	< 5	0.4	6.70	1270	1.5	10	0.46	< 0.5	6	46	131	3.71	2.56	1.16
TY 9200E:3800N	201	202	< 5	0.4	6.83	2110	1.5	4	0.60	< 0.5	6	44	126	3.66	2.73	1.18
TY 9200E:3850N	201	202	< 5	0.4	6.64	1620	1.5	8	0.71	< 0.5	6	38	42	2.59	2.38	0.93
TY 9200E:3900N	201	202	< 5	1.0	5.93	1380	1.0	< 2	0.58	< 0.5	4	34	64	1.80	2.08	0.78
TY 9200E:3950N	201	202	< 5	< 0.2	5.00	990	0.5	2	0.74	< 0.5	6	28	19	2.85	1.75	0.61
TY 9200E:4000N	201	202	< 5	0.2	4.87	840	0.5	2	0.75	< 0.5	6	26	26	2.88	1.77	0.63
TY 9600E:3550N	201	202	< 5	0.2	6.35	1130	1.5	6	1.13	< 0.5	13	40	43	3.14	2.38	1.07
TY 9600E:3600N	201	202	< 5	0.4	7.12	1340	1.5	2	1.91	< 0.5	14	40	50	3.21	2.45	1.21
TY 9600E:3650N	201	202	< 5	0.4	7.54	1340	1.5	2	1.99	< 0.5	16	46	44	3.76	2.43	1.33
TY 9600E:3700N	201	202	< 5	< 0.2	5.46	1130	1.0	2	0.90	< 0.5	9	35	117	2.74	2.03	0.92
TY 9600E:3750N	201	202	< 5	1.0	5.67	910	1.0	2	1.12	< 0.5	7	42	71	2.47	2.02	0.90
TY 9600E:3800N	201	202	< 5	0.6	4.27	690	0.5	< 2	0.94	< 0.5	5	58	38	2.04	1.43	0.55
TY 9600E:3850N	201	202	< 5	0.2	6.30	900	1.0	< 2	1.13	< 0.5	5	34	12	1.82	2.00	0.65
TY 9600E:3900N	201	202	< 5	0.4	5.99	870	0.5	< 2	0.83	< 0.5	6	40	20	2.31	1.86	0.52
TY 9600E:4000N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TY 9600E:4050N	201	202	< 5	< 0.2	6.23	970	1.5	2	0.89	< 0.5	6	46	20	2.70	2.17	0.78

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408 TY SHIP.#2
Comments: ATTN:TERRY TUCKER-VANCOUVER OFFICE

Page Number :2-B
Total Pages :2
Certificate Date: 26-SEP-96
Invoice No. :19633265
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9633265

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
TY 4800E:5000N	201	202	770	4	0.97	46	1210	46	130	0.53	111	< 10	126			
TY 9200E:3550N	201	202	485	8	1.02	14	1360	26	117	0.36	117	< 10	78			
TY 9200E:3600N	201	202	340	6	1.72	10	610	20	185	0.38	100	< 10	48			
TY 9200E:3650N	201	202	330	7	1.32	7	830	60	143	0.39	121	< 10	56			
TY 9200E:3700N	201	202	805	9	0.99	20	740	38	108	0.32	109	< 10	100			
TY 9200E:3750N	201	202	475	12	0.82	12	770	48	98	0.27	101	< 10	80			
TY 9200E:3800N	201	202	500	10	0.94	12	840	46	112	0.30	101	< 10	80			
TY 9200E:3850N	201	202	400	5	1.21	10	560	24	157	0.31	92	< 10	56			
TY 9200E:3900N	201	202	320	3	1.00	9	350	20	116	0.27	82	< 10	44			
TY 9200E:3950N	201	202	330	3	1.17	7	550	20	147	0.29	73	< 10	42			
TY 9200E:4000N	201	202	345	4	1.19	10	560	30	148	0.27	68	< 10	44			
TY 9600E:3550N	201	202	765	3	1.30	14	640	26	176	0.31	87	< 10	86			
TY 9600E:3600N	201	202	860	4	1.73	12	750	20	266	0.29	94	< 10	92			
TY 9600E:3650N	201	202	1155	6	1.79	13	770	18	271	0.29	101	< 10	114			
TY 9600E:3700N	201	202	500	6	1.09	10	590	18	150	0.22	69	< 10	68			
TY 9600E:3750N	201	202	475	8	1.38	10	590	20	202	0.28	71	< 10	54			
TY 9600E:3800N	201	202	360	6	1.20	23	450	24	167	0.25	52	< 10	34			
TY 9600E:3850N	201	202	435	3	1.69	7	180	10	216	0.34	81	< 10	40			
TY 9600E:3900N	201	202	325	3	1.61	7	590	12	188	0.44	97	< 10	58			
TY 9600E:4000N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd			
TY 9600E:4050N	201	202	375	4	1.38	11	250	32	167	0.36	97	< 10	52			

CERTIFICATION: Stan Bidlo

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9633349

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE A9633349

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. # : 6408

Samples submitted to our lab in Vancouver, BC.
This report was printed on 1-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	7	Geochem ring to approx 150 mesh
226	7	0-3 Kg crush and split
3202	7	Rock - save entire reject
285	7	ICP - HF digestion charge
287	7	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	7	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	7	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	7	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	7	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	7	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	7	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	7	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	7	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	7	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	7	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	7	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	7	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	7	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	7	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	7	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	7	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	7	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	7	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	7	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	7	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	7	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	7	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	7	Pb ppm: 24 element, rock & core	AAS	2	10000
582	7	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	7	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	7	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	7	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	7	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

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PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC Pa . 1-A
Tot QC Pg: 1
Date: 01-OCT-96
Invoice #: I9633349
P.O. #: 6408
GP W

QC DATA OF CERTIFICATE A9633349

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
G96-TOT	Std1	1	-----	-----	-----	-----	-----	7.70	1200	0.5	< 2	2.10	1.0	19	101	185
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177
GEO-96	Std1	1	-----	60	4.6	170	6.0	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	64	4.5	168	5.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
JL-1	Std1	1	100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	92	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION: Stuart Bickler

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PROJECT: WOLVERINE
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VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC Pg: 1-B
Tot QC Pg: 1
Date: 01-OCT-96
Invoice #: 19633349
P.O. #: 6408
GP W

QC DATA OF CERTIFICATE A9633349

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT	Std1	1	4.73	1.88	1.03	1075	9	0.99	22	600	-----	233	0.32	158	20	192
CHEMEX MEAN	---	---	4.41	1.86	1.03	927	9	1.03	20	648	-----	226	0.35	156	20	186
GEO-96	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	126	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	120	-----	-----	-----	-----	-----
JL-1	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION: Stuart Buchler

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PROJECT: WOLVERINE
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Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number : 1-A
Total Pages : 1
Certificate Date: 01-OCT-96
Invoice No. : I9633349
P.O. Number : 6408
Account : GP W

CERTIFICATE OF ANALYSIS A9633349

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175367	205 226	< 5	1	0.2	40	< 0.2	7.95	1220	0.5	< 2	3.20	< 0.5	23	97	63
175368	205 226	< 5	6	0.4	70	< 0.2	2.18	220	0.5	6	1.16	< 0.5	8	202	52
175369	205 226	< 5	6	1.0	70	< 0.2	2.81	280	0.5	2	2.68	< 0.5	9	162	42
175370	205 226	< 5	2	1.0	90	< 0.2	5.99	270	0.5	6	3.89	< 0.5	16	126	38
175371	205 226	< 5	1	1.2	70	< 0.2	7.70	1190	1.0	< 2	2.22	< 0.5	19	111	35
175372	205 226	< 5	1	0.2	30	< 0.2	8.48	1890	1.0	< 2	2.97	< 0.5	20	125	34
175373	205 226	< 5	2	< 0.2	10	< 0.2	7.24	510	1.5	6	3.45	< 0.5	17	101	104

CERTIFICATION: Frank Pochlo

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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number :1-B
Total Pages :1
Certificate Date: 01-OCT-96
Invoice No. :I9633349
P.O. Number :6408
Account :GP W

CERTIFICATE OF ANALYSIS A9633349

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175367	205 226	5.11	1.30	2.77	905	1	1.60	15	750	4	277	0.29	181	10	84
175368	205 226	1.85	0.75	1.03	230	4	0.09	64	2590	6	62	0.10	254	< 10	36
175369	205 226	2.27	0.91	1.71	665	6	0.07	44	880	12	213	0.10	141	< 10	62
175370	205 226	4.35	1.76	2.46	890	1	0.89	12	370	4	172	0.20	109	10	66
175371	205 226	4.45	2.02	1.99	645	2	1.29	14	520	4	239	0.29	140	10	60
175372	205 226	5.21	2.25	2.19	865	2	1.53	13	700	6	348	0.38	143	10	84
175373	205 226	3.72	2.21	1.86	720	4	1.63	18	990	6	341	0.29	107	10	54

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.o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9630815

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE A9630815

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 15-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	54	Geochem ring to approx 150 mesh
226	54	0-3 Kg crush and split
3202	54	Rock - save entire reject
285	54	ICP - HF digestion charge
287	54	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	54	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	54	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	54	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	54	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	54	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	54	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	54	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	54	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	54	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	54	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	54	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	54	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	54	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	54	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	54	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	54	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	54	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	54	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	54	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	54	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	54	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	54	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	54	Pb ppm: 24 element, rock & core	AAS	2	10000
582	54	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	54	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	54	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	54	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	54	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

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o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC Pag 1-A
Tot QC Pg: 1
Date: 15-SEP-96
Invoice #: 19630815
P.O. #: GP W

QC DATA OF CERTIFICATE A9630815

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CKR-W	Std1	1	85	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	81	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
G96-TOT	Std1	1	-----	-----	-----	-----	-----	7.78	1180	1.5	< 2	2.07	1.0	18	105	188
G96-TOT	Std2	1	-----	-----	-----	-----	-----	7.57	1140	1.0	2	2.02	1.0	18	100	182
G96-TOT	Std1	2	-----	-----	-----	-----	-----	7.88	1200	1.0	2	2.12	0.5	19	105	192
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177
GEO-90	Std1	1	-----	-----	-----	200	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-90	Std2	1	-----	-----	-----	200	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-90	Std1	2	-----	-----	-----	200	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	189	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-96	Std1	1	-----	60	4.4	-----	5.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-96	Std2	1	-----	66	4.8	-----	5.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-96	Std1	2	-----	64	4.8	-----	6.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	64	4.5	-----	5.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
NG-94	Std2	1	330	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	334	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-3	Blnk	1	-----	-----	-----	10	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	19	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-G2	Blnk	1	-----	1	< 0.2	-----	< 0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	2	< 0.2	-----	< 0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-T3	Blnk	1	-----	-----	-----	-----	-----	0.32	20	< 0.5	2	0.03	< 0.5	< 1	3	1
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	2
WC-96	Std1	2	230	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	239	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
175401	Dup	1-01	< 5	1	1.2	120	< 0.2	2.36	160	1.0	< 2	0.99	< 0.5	6	218	120
	Orig	1-01	< 5	1	1.0	130	< 0.2	2.44	150	1.0	< 2	1.03	< 0.5	7	313	124

CERTIFICATION: Ian Bichler

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PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
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VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC Pag 1-B
Tot QC Pg: 1
Date: 15-SEP-96
Invoice #: I9630815
P.O. #: GP W

QC DATA OF CERTIFICATE A9630815

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C	Blnk	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CKR-W	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
G96-TOT	Std1	1	4.84	1.93	1.06	1050	10	1.06	22	620	-----	231	0.37	158	10	188
G96-TOT	Std2	1	4.72	1.86	1.03	1015	9	1.02	20	600	-----	223	0.35	154	10	188
G96-TOT	Std1	2	5.02	1.98	1.10	1070	10	1.08	26	610	-----	235	0.37	163	20	196
CHEMEX MEAN	---	---	4.41	1.86	1.03	927	9	1.03	20	648	-----	226	0.35	156	20	186
GEO-90	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-90	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-90	Std1	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-96	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	140	-----	-----	-----	-----	-----
GEO-96	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	176	-----	-----	-----	-----	-----
GEO-96	Std1	2	-----	-----	-----	-----	-----	-----	-----	-----	134	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	120	-----	-----	-----	-----	-----
NG-94	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-3	Blnk	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-G2	Blnk	1	-----	-----	-----	-----	-----	-----	-----	-----	< 2	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	< 2	-----	-----	-----	-----	-----
SIO2-T3	Blnk	1	0.07	0.08	0.01	5	< 1	0.01	< 1	150	-----	141	0.01	4	< 10	< 2
CHEMEX MEAN	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	-----	178	< 0.01	2	< 10	< 2
WC-96	Std1	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
175401	Dup	1-01	1.67	1.02	0.94	565	7	0.10	105	1810	20	52	0.11	212	< 10	94
	Orig	1-01	1.73	1.07	0.97	590	7	0.10	114	1870	20	54	0.11	222	< 10	98

CERTIFICATION: Ivan Bruckler

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o: WESTMIN RESOURCES LTD.
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V7X 1C4

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page N er : 1-A
Total Pages : 2
Certificate Date: 15-SEP-96
Invoice No. : I9630815
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9630815

SAMPLE	PREP CODE		Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175401	205	226	< 5	1	1.0	130	< 0.2	2.44	150	1.0	< 2	1.03	< 0.5	7	313	124
175402	205	226	< 5	2	0.2	90	< 0.2	2.10	130	0.5	< 2	0.79	< 0.5	7	247	104
175403	205	226	< 5	14	0.4	90	< 0.2	1.84	190	0.5	2	0.37	0.5	5	322	150
175404	205	226	< 5	30	2.0	160	< 0.2	1.79	210	0.5	< 2	0.51	0.5	5	319	134
175405	205	226	< 5	12	1.2	110	0.4	1.55	230	0.5	2	0.65	< 0.5	8	356	79
175406	205	226	< 5	2	0.6	70	< 0.2	1.07	270	< 0.5	< 2	0.32	< 0.5	4	214	51
175407	205	226	< 5	1	0.2	50	< 0.2	1.37	330	0.5	< 2	0.80	< 0.5	5	311	32
175408	205	226	< 5	1	0.2	70	< 0.2	1.77	250	0.5	< 2	0.21	< 0.5	6	227	133
175409	205	226	5	2	0.2	60	< 0.2	2.61	110	0.5	< 2	0.43	< 0.5	9	205	60
175410	205	226	15	4	0.4	30	< 0.2	5.63	540	2.0	< 2	0.68	< 0.5	16	181	123
175411	205	226	< 5	2	< 0.2	110	< 0.2	4.20	430	1.5	< 2	0.50	< 0.5	8	230	28
175412	205	226	< 5	1	0.2	50	< 0.2	1.75	440	0.5	< 2	0.53	< 0.5	7	193	23
175413	205	226	< 5	2	< 0.2	30	< 0.2	1.67	370	0.5	< 2	0.48	< 0.5	7	210	31
175414	205	226	< 5	1	< 0.2	250	< 0.2	1.75	460	0.5	< 2	0.45	1.5	7	187	39
175415	205	226	< 5	4	0.2	30	< 0.2	1.51	870	0.5	2	0.78	< 0.5	6	215	27
175416	205	226	< 5	4	0.2	130	0.2	1.15	420	< 0.5	< 2	0.76	0.5	4	182	92
175417	205	226	< 5	2	0.4	70	< 0.2	4.85	260	1.5	< 2	1.19	< 0.5	18	279	96
175418	205	226	< 5	1	0.2	50	< 0.2	3.76	180	1.5	< 2	1.15	< 0.5	12	214	88
175419	205	226	< 5	1	< 0.2	40	< 0.2	1.41	180	0.5	< 2	0.72	< 0.5	4	161	98
175420	205	226	< 5	4	0.2	40	< 0.2	5.52	590	1.5	< 2	1.07	< 0.5	16	201	80
175421	205	226	< 5	1	< 0.2	50	< 0.2	2.67	180	0.5	< 2	0.69	< 0.5	9	229	51
175422	205	226	< 5	4	0.2	10	< 0.2	4.65	420	1.5	< 2	0.92	< 0.5	14	184	62
175423	205	226	< 5	4	< 0.2	70	< 0.2	4.38	380	1.5	< 2	0.36	< 0.5	9	166	46
175424	205	226	< 5	8	< 0.2	50	< 0.2	5.13	620	1.5	< 2	2.96	< 0.5	19	250	62
175425	205	226	< 5	1	< 0.2	40	< 0.2	3.78	380	1.0	2	1.40	< 0.5	15	243	82
175426	205	226	< 5	2	< 0.2	40	< 0.2	3.76	260	1.0	< 2	0.57	< 0.5	11	156	32
175427	205	226	< 5	1	< 0.2	40	< 0.2	6.19	480	1.5	< 2	1.89	< 0.5	17	190	244
175428	205	226	< 5	1	< 0.2	30	< 0.2	3.00	120	0.5	< 2	0.36	< 0.5	11	170	34
175429	205	226	5	2	< 0.2	40	< 0.2	2.86	210	0.5	< 2	0.83	< 0.5	8	196	30
175430	205	226	< 5	1	< 0.2	40	< 0.2	2.51	100	0.5	< 2	0.58	< 0.5	10	193	69
175431	205	226	< 5	1	< 0.2	30	< 0.2	1.80	180	0.5	< 2	0.38	< 0.5	6	200	46
175432	205	226	< 5	2	< 0.2	40	< 0.2	4.09	230	1.0	4	1.61	< 0.5	12	203	43
175433	205	226	< 5	1	< 0.2	840	0.8	3.26	130	0.5	2	0.81	< 0.5	13	202	81
175434	205	226	< 5	1	< 0.2	80	< 0.2	3.07	130	0.5	< 2	1.14	< 0.5	14	186	64
175435	205	226	< 5	2	< 0.2	50	< 0.2	4.36	340	1.0	< 2	1.00	< 0.5	14	174	141
175436	205	226	< 5	2	< 0.2	10	< 0.2	5.02	260	1.0	< 2	2.07	< 0.5	15	203	47
175437	205	226	< 5	1	< 0.2	50	< 0.2	1.19	200	< 0.5	< 2	1.22	< 0.5	8	255	16
175438	205	226	< 5	10	0.4	60	< 0.2	7.52	550	1.0	< 2	3.05	0.5	20	129	83
175439	205	226	< 5	2	< 0.2	40	< 0.2	1.95	270	< 0.5	4	0.58	< 0.5	8	211	11
175440	205	226	< 5	6	< 0.2	10	< 0.2	6.53	500	0.5	2	3.17	< 0.5	18	198	27

CERTIFICATION: Ian R. Smith

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number : 1-B
Total Pages : 2
Certificate Date: 15-SEP-96
Invoice No. : I9630815
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9630815

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175401	205 226	1.73	1.07	0.97	590	7	0.10	114	1870	20	54	0.11	222	< 10	98
175402	205 226	1.93	1.00	0.79	295	5	0.03	93	950	< 2	41	0.10	139	< 10	74
175403	205 226	1.74	0.57	0.89	600	8	0.03	120	650	20	34	0.06	204	< 10	114
175404	205 226	1.51	0.69	0.60	470	8	0.03	108	1010	8	30	0.04	188	< 10	100
175405	205 226	1.79	0.57	0.76	645	11	0.01	74	1170	44	43	0.05	110	< 10	104
175406	205 226	1.09	0.40	0.46	390	3	0.01	39	190	4	19	0.04	55	< 10	42
175407	205 226	1.28	0.57	0.44	390	5	0.01	46	2840	32	36	0.05	82	< 10	36
175408	205 226	2.10	0.57	0.77	1220	9	0.01	22	180	< 2	18	0.06	33	< 10	66
175409	205 226	2.81	0.86	0.95	1495	13	0.04	25	250	26	20	0.07	32	< 10	48
175410	205 226	3.58	2.73	1.83	655	6	0.11	79	230	14	30	0.26	191	< 10	118
175411	205 226	2.19	2.05	1.41	520	1	0.07	31	180	< 2	42	0.21	54	< 10	82
175412	205 226	1.06	0.86	0.56	360	2	0.01	35	760	< 2	30	0.08	44	< 10	32
175413	205 226	1.06	0.80	0.55	280	1	0.03	32	660	< 2	29	0.07	44	< 10	34
175414	205 226	1.13	0.87	0.63	285	1	0.03	48	170	< 2	29	0.08	35	< 10	148
175415	205 226	0.87	0.75	0.67	360	1	0.01	33	170	< 2	43	0.07	32	< 10	28
175416	205 226	1.12	0.51	0.55	470	16	0.01	39	840	40	36	0.05	66	< 10	68
175417	205 226	3.68	1.76	1.71	1190	7	0.10	77	980	8	66	0.29	141	< 10	74
175418	205 226	2.67	1.50	1.50	960	4	0.09	72	1190	10	64	0.20	108	< 10	72
175419	205 226	1.41	0.60	0.69	550	9	0.01	38	570	32	54	0.07	98	< 10	38
175420	205 226	3.37	2.82	1.97	760	3	0.13	68	400	20	104	0.51	123	< 10	116
175421	205 226	2.62	1.23	1.05	1055	3	0.05	26	280	< 2	44	0.13	43	< 10	50
175422	205 226	2.98	2.52	1.90	600	7	0.10	48	450	8	52	0.28	94	< 10	82
175423	205 226	2.76	2.06	1.42	420	1	0.08	36	530	< 2	22	0.29	71	< 10	122
175424	205 226	4.13	2.15	3.50	1015	3	0.70	84	750	30	143	0.41	113	10	134
175425	205 226	3.23	1.60	2.28	785	3	0.23	50	580	10	61	0.27	85	< 10	80
175426	205 226	2.78	1.59	1.66	630	4	0.06	20	450	< 2	24	0.18	83	< 10	48
175427	205 226	4.81	2.34	3.00	1420	6	0.40	49	930	20	112	0.44	119	10	138
175428	205 226	2.55	1.27	1.26	500	5	0.05	19	710	< 2	19	0.21	78	< 10	38
175429	205 226	2.45	1.09	1.51	675	2	0.05	18	470	< 2	34	0.18	44	< 10	46
175430	205 226	2.60	1.06	1.22	630	10	0.03	22	740	< 2	21	0.15	92	< 10	40
175431	205 226	1.38	0.73	0.98	320	2	0.02	31	250	< 2	18	0.07	35	< 10	28
175432	205 226	2.92	1.55	1.94	905	2	0.24	17	640	< 2	60	0.19	77	< 10	68
175433	205 226	3.03	1.14	1.63	810	18	0.06	21	940	290	24	0.26	86	< 10	60
175434	205 226	2.51	1.05	1.43	850	29	0.05	25	860	14	24	0.18	83	< 10	38
175435	205 226	3.15	1.69	1.74	1115	9	0.09	32	1030	46	34	0.26	107	< 10	92
175436	205 226	4.23	1.50	2.22	1050	8	0.11	32	1740	8	106	0.20	146	10	68
175437	205 226	2.29	0.29	1.01	500	3	0.01	11	300	< 2	23	0.04	33	< 10	42
175438	205 226	4.90	2.44	3.06	1975	27	0.22	13	470	16	196	0.28	152	10	208
175439	205 226	1.87	0.75	1.07	495	2	0.04	17	150	42	19	0.08	34	< 10	38
175440	205 226	3.80	1.88	2.41	1230	3	1.39	18	410	4	240	0.24	127	10	66

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number :2-A
Total Pages :2
Certificate Date: 15-SEP-96
Invoice No. :I9630815
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9630815

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175441	205 226	< 5	4	< 0.2	40	< 0.2	7.30	150	1.0	< 2	2.85	< 0.5	19	172	67
175442	205 226	< 5	2	< 0.2	30	< 0.2	7.23	120	1.0	< 2	2.93	< 0.5	19	154	49
175443	205 226	< 5	1	< 0.2	10	< 0.2	7.40	610	0.5	2	4.18	< 0.5	20	177	33
175444	205 226	< 5	1	< 0.2	10	< 0.2	8.22	730	1.0	< 2	3.26	< 0.5	21	198	35
175445	205 226	< 5	2	< 0.2	30	< 0.2	6.90	290	0.5	2	3.95	0.5	17	198	38
175446	205 226	< 5	1	< 0.2	30	< 0.2	7.17	300	0.5	6	3.00	< 0.5	18	123	25
175447	205 226	< 5	1	< 0.2	20	< 0.2	7.20	80	1.0	4	2.32	< 0.5	18	166	14
175448	205 226	< 5	1	< 0.2	10	< 0.2	7.22	190	1.5	6	2.61	< 0.5	17	153	14
175449	205 226	< 5	2	< 0.2	10	< 0.2	7.17	810	0.5	< 2	2.94	< 0.5	17	162	17
175450	205 226	< 5	1	< 0.2	10	< 0.2	7.19	450	1.0	2	2.99	< 0.5	17	166	17
175451	205 226	< 5	1	< 0.2	40	< 0.2	7.64	320	1.0	6	2.78	0.5	17	175	14
175452	205 226	< 5	2	< 0.2	10	< 0.2	7.41	360	1.5	2	3.21	< 0.5	18	127	9
175453	205 226	< 5	1	< 0.2	10	< 0.2	4.96	170	1.0	6	4.48	< 0.5	42	862	5
175454	205 226	< 5	4	< 0.2	40	0.4	7.56	250	1.5	2	2.10	2.5	19	117	103

CERTIFICATION: Ita. H Bechler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

.o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Certificate Date: 15-SEP-96
Invoice No. : I9630815
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9630815

SAMPLE	PREP CODE		Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175441	205	226	3.89	2.43	2.58	965	11	1.19	21	420	18	185	0.27	142	10	58
175442	205	226	3.77	2.40	2.61	1095	2	1.59	22	460	8	180	0.27	144	10	76
175443	205	226	4.24	1.24	2.36	890	4	1.99	17	430	32	401	0.28	147	10	52
175444	205	226	4.64	2.12	2.91	950	2	1.80	24	540	14	272	0.31	157	10	94
175445	205	226	3.97	1.82	2.80	1010	< 1	1.54	39	500	16	149	0.23	129	10	78
175446	205	226	3.91	1.28	2.35	770	< 1	2.11	18	470	10	283	0.26	138	10	38
175447	205	226	3.84	1.82	2.17	610	1	2.25	17	440	10	304	0.25	133	10	52
175448	205	226	3.83	2.00	2.15	590	2	2.04	18	390	10	206	0.24	112	10	32
175449	205	226	4.23	1.82	2.41	725	1	1.80	17	430	18	320	0.26	132	10	70
175450	205	226	4.22	1.92	2.64	905	2	1.92	18	420	28	204	0.26	136	< 10	82
175451	205	226	4.59	2.28	2.51	720	3	1.94	17	430	34	247	0.28	141	10	98
175452	205	226	4.14	2.48	2.60	940	1	1.85	17	450	14	251	0.27	141	< 10	80
175453	205	226	5.26	0.52	7.66	1560	< 1	0.69	318	960	18	151	0.26	127	20	160
175454	205	226	4.75	3.19	2.86	885	6	1.11	19	490	64	172	0.29	154	< 10	258

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9631720

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE A9631720

(GP W) - WESTMIN RESOURCES LTD.

Project: TY
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 20-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	62	Geochem ring to approx 150 mesh
294	62	4-7 Kg crush and split
3202	62	Rock - save entire reject
285	62	ICP - HF digestion charge
287	62	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	62	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	62	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	62	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	62	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	62	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	62	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	62	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	62	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	62	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	62	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	62	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	62	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	62	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	62	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	62	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	62	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	62	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	62	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	62	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	62	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	62	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	62	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	62	Pb ppm: 24 element, rock & core	AAS	2	10000
582	62	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	62	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	62	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	62	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	62	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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.o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: TY
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC Pag 1-A
Tot QC Pg: 1
Date: 20-SEP-96
Invoice #: I9631720
P.O. #:
GP W

QC DATA OF CERTIFICATE A9631720

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CKR-W	Std2	1	75	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	81	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FMC-1	Std1	2	340	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	363	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
G96-TOT	Std1	1	-----	-----	-----	-----	-----	7.80	1210	0.5	4	2.11	1.0	20	102	194
G96-TOT	Std2	1	-----	-----	-----	-----	-----	7.90	1210	1.0	8	2.14	1.0	21	107	192
G96-TOT	Std1	2	-----	-----	-----	-----	-----	7.38	1160	0.5	8	2.04	0.5	19	96	182
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177
GEO-96	Std1	1	-----	56	4.6	160	6.0	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-96	Std2	1	-----	60	3.8	140	5.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-96	Std1	2	-----	62	4.4	160	6.4	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	64	4.5	168	5.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-3	Blnk	1	-----	-----	-----	< 10	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	19	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-G2	Blnk	1	-----	1	< 0.2	-----	< 0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	2	< 0.2	-----	< 0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-T3	Blnk	1	-----	-----	-----	-----	-----	0.33	30	< 0.5	2	0.01	< 0.5	< 1	5	3
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	2
SL-96	Std1	1	750	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	765	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
175151	Dup	1-01	< 5	1	< 0.2	10	< 0.2	5.41	630	1.5	4	0.79	< 0.5	13	140	97
	Orig	1-01	< 5	1	< 0.2	10	< 0.2	5.34	560	1.5	4	0.78	< 0.5	14	130	95
175479	Dup	2-01	10	2	< 0.2	10	0.4	3.07	300	< 0.5	6	0.16	1.0	11	185	584
	Orig	2-01	10	2	< 0.2	10	0.4	3.19	440	< 0.5	10	0.16	0.5	11	209	608

CERTIFICATION: [signature]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: TY
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC Pag: 1-B
Tot QC Pg: 1
Date: 20-SEP-96
Invoice #: I9631720
P.O. #:
GP W

QC DATA OF CERTIFICATE A9631720

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C	Blnk	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CKR-W	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FMC-1	Std1	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
G96-TOT	Std1	1	4.97	1.87	1.06	1065	11	1.04	24	660	-----	237	0.37	162	20	192
G96-TOT	Std2	1	4.95	1.90	1.07	1090	9	1.06	22	680	-----	238	0.37	165	10	196
G96-TOT	Std1	2	4.66	1.74	1.01	1040	10	0.94	22	640	-----	227	0.34	159	10	184
CHEMEX MEAN	---	---	4.41	1.86	1.03	927	9	1.03	20	648	-----	226	0.35	156	20	186
GEO-96	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	140	-----	-----	-----	-----	-----
GEO-96	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	136	-----	-----	-----	-----	-----
GEO-96	Std1	2	-----	-----	-----	-----	-----	-----	-----	-----	132	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	120	-----	-----	-----	-----	-----
SIO2-3	Blnk	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-Q2	Blnk	1	-----	-----	-----	-----	-----	-----	-----	-----	4	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	< 2	-----	-----	-----	-----	-----
SIO2-T3	Blnk	1	0.08	0.08	0.02	< 5	< 1	0.01	< 1	160	-----	139	0.01	4	< 10	< 2
CHEMEX MEAN	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	-----	178	< 0.01	2	< 10	< 2
SL-96	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
175151	Dup	1-01	2.64	2.35	1.34	210	3	0.74	43	210	4	67	0.31	98	< 10	34
	Orig	1-01	2.58	2.32	1.33	210	1	0.70	43	200	8	66	0.30	97	< 10	46
175479	Dup	2-01	3.28	1.02	0.60	270	4	0.07	12	190	6	16	0.06	26	< 10	88
	Orig	2-01	3.39	1.07	0.62	285	5	0.06	12	200	4	16	0.07	29	< 10	94

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

TO: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : TY
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Certificate Date: 20-SEP-96
Invoice No. :I9631720
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9631720

SAMPLE	PREP CODE		Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175151	205	294	< 5	1	< 0.2	10	< 0.2	5.34	560	1.5	4	0.78	< 0.5	14	130	95
175152	205	294	< 5	2	< 0.2	10	< 0.2	5.52	1090	1.0	4	2.62	0.5	25	304	108
175153	205	294	< 5	1	< 0.2	30	< 0.2	7.86	1090	2.0	8	1.61	< 0.5	12	69	52
175154A	205	294	< 5	1	0.4	40	< 0.2	7.80	1760	0.5	6	3.19	< 0.5	22	129	22
175154B	205	294	< 5	2	0.2	20	< 0.2	7.80	2400	0.5	8	3.63	0.5	21	122	25
175155	205	294	< 5	2	< 0.2	20	< 0.2	8.23	1310	0.5	6	3.53	< 0.5	22	106	15
175156	205	294	< 5	1	< 0.2	50	< 0.2	8.11	1120	0.5	4	3.82	0.5	18	88	24
175157	205	294	< 5	2	< 0.2	10	< 0.2	7.99	680	0.5	6	3.71	< 0.5	18	112	37
175158	205	294	< 5	1	1.8	170	< 0.2	7.91	2510	1.5	6	1.94	< 0.5	12	73	31
175159	205	294	< 5	1	0.2	40	< 0.2	7.63	790	2.0	6	1.69	< 0.5	11	70	44
175160	205	294	< 5	1	0.2	110	< 0.2	7.47	710	2.0	2	1.74	1.0	9	63	42
175161	205	294	< 5	2	0.6	100	< 0.2	7.80	470	2.0	4	1.66	1.5	9	104	64
175162	205	294	20	1	< 0.2	30	0.4	6.83	810	0.5	10	1.63	0.5	23	130	1285
175163	205	294	20	1	< 0.2	150	1.0	6.98	680	0.5	6	2.49	3.0	27	204	1420
175164	205	294	< 5	1	< 0.2	< 10	< 0.2	7.40	900	0.5	2	3.54	0.5	23	141	658
175165	205	294	< 5	2	< 0.2	< 10	< 0.2	7.39	330	0.5	2	2.90	< 0.5	26	185	977
175166	205	294	< 5	2	< 0.2	20	0.4	6.38	510	0.5	6	2.38	0.5	22	140	851
175455	205	294	< 5	1	< 0.2	20	0.2	6.58	310	0.5	8	3.43	1.0	14	128	20
175456	205	294	< 5	2	< 0.2	140	0.4	7.63	360	< 0.5	4	2.83	5.0	23	107	50
175457	205	294	< 5	1	< 0.2	30	< 0.2	7.67	190	0.5	6	3.20	0.5	18	108	46
175458	205	294	< 5	2	< 0.2	< 10	< 0.2	8.36	360	0.5	2	4.05	0.5	22	93	35
175459	205	294	< 5	2	< 0.2	< 10	< 0.2	8.23	510	0.5	4	3.01	0.5	21	104	33
175460	205	294	< 5	1	< 0.2	10	< 0.2	8.24	390	0.5	< 2	2.97	2.5	20	76	53
175461	205	294	< 5	1	< 0.2	30	< 0.2	7.54	450	0.5	8	2.54	0.5	19	115	49
175463	205	294	< 5	1	0.2	180	0.4	6.70	240	0.5	8	2.25	2.5	24	184	126
175464	205	294	< 5	2	< 0.2	< 10	< 0.2	4.48	220	0.5	6	1.17	< 0.5	12	170	135
175465	205	294	< 5	2	0.2	30	< 0.2	2.83	240	< 0.5	4	1.60	0.5	12	153	138
175466	205	294	< 5	1	0.2	10	0.2	4.93	130	0.5	4	0.66	0.5	21	202	152
175467	205	294	< 5	2	< 0.2	80	< 0.2	5.04	160	< 0.5	8	1.47	4.0	16	148	160
175468	205	294	< 5	1	0.8	10	< 0.2	4.53	160	< 0.5	6	0.71	< 0.5	21	196	225
175469	205	294	< 5	1	< 0.2	< 10	< 0.2	3.59	320	< 0.5	8	0.55	0.5	15	161	118
175470	205	294	< 5	1	0.2	< 10	0.4	4.04	260	< 0.5	8	1.03	0.5	19	267	459
175471	205	294	20	2	< 0.2	< 10	0.4	5.59	350	1.0	36	0.75	1.0	20	116	238
175472	205	294	< 5	1	0.2	30	0.2	6.04	330	1.0	2	1.03	0.5	16	198	110
175473	205	294	< 5	2	< 0.2	30	< 0.2	6.59	200	0.5	10	2.98	1.0	18	142	105
175474	205	294	< 5	2	< 0.2	50	< 0.2	7.16	150	0.5	8	1.91	1.5	17	146	126
175475	205	294	< 5	16	0.6	10	< 0.2	3.96	350	0.5	8	0.78	0.5	13	125	77
175476	205	294	< 5	2	0.8	10	< 0.2	5.97	120	0.5	6	1.33	0.5	25	170	220
175477	205	294	< 5	1	0.2	< 10	< 0.2	4.43	230	0.5	8	0.30	< 0.5	18	162	237
175478	205	294	< 5	1	< 0.2	10	< 0.2	3.90	260	0.5	8	0.33	< 0.5	13	230	137

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : TY
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Certificate Date: 20-SEP-96
Invoice No. : I9631720
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9631720

SAMPLE	PREP CODE		Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175151	205	294	2.58	2.32	1.33	210	1	0.70	43	200	8	66	0.30	97	< 10	46
175152	205	294	4.80	2.30	3.02	695	6	0.34	119	770	18	99	0.64	148	10	84
175153	205	294	2.43	3.67	1.03	330	4	0.74	9	450	12	90	0.21	54	< 10	30
175154A	205	294	4.53	2.31	2.35	970	1	1.40	12	530	12	248	0.29	158	10	58
175154B	205	294	4.63	2.16	2.39	1050	< 1	1.14	12	500	14	330	0.28	152	10	82
175155	205	294	4.75	1.83	2.62	985	1	1.81	11	690	8	264	0.34	189	10	52
175156	205	294	4.26	1.32	2.40	765	1	2.15	9	620	12	310	0.35	169	10	88
175157	205	294	3.98	2.05	2.41	735	< 1	1.63	8	500	10	286	0.31	151	10	44
175158	205	294	2.05	1.94	1.72	440	1	2.93	5	440	28	185	0.26	75	< 10	64
175159	205	294	2.19	2.46	1.13	465	5	2.45	6	470	24	208	0.23	53	< 10	40
175160	205	294	2.64	3.00	0.96	685	1	1.90	3	440	70	310	0.21	36	< 10	100
175161	205	294	2.69	3.59	0.90	635	2	1.64	4	450	44	285	0.22	38	< 10	154
175162	205	294	4.18	1.93	2.14	380	27	0.64	21	620	16	155	0.26	140	10	86
175163	205	294	5.03	1.64	2.34	435	108	0.46	22	450	76	170	0.26	139	10	290
175164	205	294	4.41	1.72	2.31	500	34	0.90	22	500	20	206	0.28	138	10	60
175165	205	294	5.11	1.71	2.45	380	18	0.89	24	480	14	222	0.28	152	10	46
175166	205	294	3.76	1.61	2.01	315	11	0.64	27	1020	16	172	0.26	167	< 10	40
175455	205	294	4.05	2.88	1.59	890	< 1	1.16	6	460	34	157	0.20	105	< 10	88
175456	205	294	5.41	2.66	2.14	755	4	0.98	8	540	62	257	0.29	170	10	442
175457	205	294	4.88	1.99	1.66	480	1	1.28	6	540	28	305	0.27	141	10	72
175458	205	294	5.26	1.58	1.85	695	4	1.04	7	550	12	378	0.31	161	10	52
175459	205	294	5.40	3.03	2.14	990	3	1.07	7	570	32	265	0.31	158	10	122
175460	205	294	5.24	2.70	2.15	905	4	1.13	6	560	30	309	0.31	157	10	208
175461	205	294	4.50	2.53	1.75	690	4	1.21	7	490	18	253	0.26	130	10	94
175463	205	294	5.23	1.58	2.27	720	3	0.71	37	580	34	150	0.36	129	10	344
175464	205	294	3.37	0.99	1.52	380	4	0.35	27	870	16	71	0.18	110	10	76
175465	205	294	3.09	0.75	1.05	375	2	0.09	26	710	14	37	0.16	66	< 10	68
175466	205	294	4.58	1.25	1.86	335	5	0.21	31	680	34	43	0.33	102	< 10	116
175467	205	294	4.00	1.15	1.59	440	2	0.67	22	590	20	110	0.25	97	10	334
175468	205	294	4.88	1.13	1.80	315	3	0.14	35	1010	6	44	0.27	99	10	64
175469	205	294	3.55	0.94	1.24	300	3	0.12	31	560	10	32	0.19	85	< 10	54
175470	205	294	3.86	1.33	1.53	315	5	0.15	64	780	14	50	0.24	82	< 10	42
175471	205	294	4.08	2.16	1.51	370	2	0.16	28	1080	34	50	0.28	140	< 10	68
175472	205	294	4.26	1.85	1.72	480	3	0.23	23	450	20	82	0.22	90	< 10	114
175473	205	294	5.18	1.54	2.05	830	1	0.38	16	460	20	119	0.23	115	< 10	114
175474	205	294	5.08	1.40	1.80	455	2	0.57	11	550	24	155	0.25	121	< 10	168
175475	205	294	2.81	1.01	1.17	245	6	0.18	22	680	10	49	0.19	92	< 10	60
175476	205	294	5.10	1.33	2.31	440	3	0.31	33	830	10	80	0.52	147	10	70
175477	205	294	3.34	1.21	1.40	195	6	0.19	17	540	6	35	0.19	92	< 10	34
175478	205	294	3.03	1.15	1.20	200	4	0.13	24	610	6	27	0.11	68	< 10	38

CERTIFICATION: Hunt Buchan

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Certificate Date: 20-SEP-96
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CERTIFICATE OF ANALYSIS A9631720

SAMPLE	PREP CODE		Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175479	205	294	10	2	< 0.2	10	0.4	3.19	440	< 0.5	10	0.16	0.5	11	209	608
175480	205	294	< 5	1	< 0.2	20	0.2	5.78	280	1.5	8	1.69	0.5	6	152	113
175481	205	294	< 5	1	< 0.2	20	< 0.2	6.48	440	1.5	8	0.74	0.5	6	135	112
175482	205	294	< 5	2	1.2	20	0.8	3.67	260	0.5	8	1.16	1.0	13	230	217
175483	205	294	5	1	1.8	40	< 0.2	2.98	150	0.5	8	1.28	< 0.5	16	251	261
175484	205	294	< 5	2	0.2	< 10	< 0.2	2.72	190	0.5	8	0.61	0.5	12	221	100
175485	205	294	< 5	2	0.2	90	0.4	3.20	110	0.5	8	1.17	3.5	18	238	86
175486	205	294	< 5	1	0.2	30	< 0.2	4.13	360	1.0	12	0.70	< 0.5	15	260	44
175487	205	294	< 5	2	0.2	30	< 0.2	4.36	180	1.0	6	0.89	0.5	10	219	20
175488	205	294	< 5	2	0.6	160	< 0.2	5.27	210	1.0	8	1.44	0.5	13	114	43
175489	205	294	< 5	2	3.6	110	< 0.2	5.69	300	0.5	6	2.73	0.5	12	191	51
175490	205	294	< 5	86	5.0	80	0.6	2.89	120	1.0	10	1.20	1.0	9	362	128
175491	205	294	< 5	14	0.8	30	< 0.2	1.86	120	0.5	8	1.07	0.5	5	255	36
175492	205	294	< 5	6	0.6	60	0.4	1.90	120	0.5	6	0.78	0.5	6	260	41
175493	205	294	< 5	24	1.2	< 10	< 0.2	1.94	110	0.5	8	0.84	< 0.5	7	264	41
175494	205	294	< 5	20	0.2	20	< 0.2	1.90	120	0.5	8	0.86	0.5	8	260	47
175495	205	294	< 5	2	< 0.2	50	< 0.2	7.02	1590	1.5	8	2.09	1.0	17	130	74
175496	205	294	< 5	2	< 0.2	50	0.4	7.88	540	1.0	8	2.60	0.5	19	151	71
175497	205	294	< 5	4	0.2	40	0.4	2.85	160	1.0	6	1.13	< 0.5	8	299	69
175498	205	294	< 5	4	< 0.2	40	0.2	1.87	160	0.5	8	0.94	0.5	7	399	80
175499	205	294	< 5	2	< 0.2	400	< 0.2	2.81	180	0.5	8	2.42	6.5	9	201	121
175500	205	294	< 5	1	< 0.2	20	< 0.2	4.40	950	1.5	< 2	5.78	1.0	22	203	375

CERTIFICATION: Stan Bachler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : TY
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Certificate Date: 20-SEP-96
Invoice No. : I9631720
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9631720

SAMPLE	PREP CODE		Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175479	205	294	3.39	1.07	0.62	285	5	0.06	12	200	4	16	0.07	29	< 10	94
175480	205	294	2.30	2.64	0.57	345	1	0.16	4	180	34	69	0.08	13	< 10	58
175481	205	294	2.63	2.98	0.55	230	3	0.20	3	180	20	49	0.10	14	< 10	98
175482	205	294	4.06	1.18	1.52	375	6	0.08	28	1540	8	60	0.18	114	< 10	74
175483	205	294	4.51	0.81	1.44	345	7	0.19	22	670	10	83	0.13	67	< 10	42
175484	205	294	3.81	0.87	1.01	375	6	0.05	26	750	10	61	0.13	67	< 10	48
175485	205	294	5.09	0.83	1.39	820	5	0.05	31	1260	16	132	0.11	87	< 10	268
175486	205	294	3.19	1.35	1.42	540	4	0.07	34	550	8	78	0.19	89	< 10	62
175487	205	294	2.32	1.63	1.28	275	4	0.09	22	210	22	109	0.20	58	< 10	60
175488	205	294	2.73	2.02	1.43	370	2	0.17	19	360	28	202	0.17	74	< 10	150
175489	205	294	2.92	1.92	2.12	570	3	0.19	29	600	14	268	0.17	137	< 10	90
175490	205	294	2.73	1.00	0.76	245	11	0.04	121	3030	24	214	0.09	387	< 10	124
175491	205	294	2.03	0.52	0.69	220	6	0.01	59	3440	8	140	0.04	198	< 10	58
175492	205	294	2.33	0.59	0.82	235	8	0.02	64	2950	32	58	0.05	233	< 10	94
175493	205	294	2.92	0.54	1.06	220	14	0.02	84	2620	6	84	0.05	284	< 10	36
175494	205	294	2.94	0.51	1.27	325	22	0.02	75	2640	14	44	0.05	232	< 10	76
175495	205	294	4.47	2.31	3.18	985	3	0.29	18	780	10	80	0.30	164	10	170
175496	205	294	4.70	2.14	2.70	840	< 1	1.21	16	690	30	221	0.32	138	10	138
175497	205	294	2.25	1.10	1.26	395	10	0.04	112	3910	20	88	0.10	226	< 10	66
175498	205	294	2.16	0.62	1.19	410	44	0.01	205	2760	12	64	0.09	1785	< 10	124
175499	205	294	2.78	0.87	2.08	740	9	0.04	105	1000	8	154	0.21	315	< 10	626
175500	205	294	5.84	1.78	5.23	1205	5	0.33	116	2420	8	166	0.34	508	20	210

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9632935

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE A9632935

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. # : 6408

Samples submitted to our lab in Vancouver, BC.
This report was printed on 30-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	25	Geochem ring to approx 150 mesh
276	25	8-12 Kg crush and split
3202	25	Rock - save entire reject
285	25	ICP - HF digestion charge
287	25	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	25	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	25	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	25	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	25	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	25	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	25	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	25	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	25	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	25	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	25	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	25	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	25	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	25	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	25	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	25	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	25	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	25	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	25	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	25	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	25	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	25	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	25	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	25	Pb ppm: 24 element, rock & core	AAS	2	10000
582	25	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	25	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	25	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	25	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	25	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Certificate Date: 28-SEP-96
Invoice No. :I9632935
P.O. Number :6408
Account :GP W

CERTIFICATE OF ANALYSIS A9632935

SAMPLE	PREP CODE		Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175326	205	276	< 5	2	0.2	< 10	< 0.2	6.53	570	0.5	8	4.09	< 0.5	16	105	36
175327	205	276	< 5	8	< 0.2	< 10	0.2	7.44	340	0.5	10	2.98	< 0.5	19	204	18
175328	205	276	< 5	1	< 0.2	20	0.2	7.18	190	0.5	8	3.44	< 0.5	19	148	20
175329	205	276	< 5	1	< 0.2	10	< 0.2	7.33	820	0.5	14	4.10	< 0.5	16	231	10
175330	205	276	< 5	1	< 0.2	< 10	0.2	7.64	710	0.5	10	3.37	< 0.5	20	132	28
175331	205	276	< 5	2	< 0.2	50	0.4	7.62	300	1.0	10	3.39	< 0.5	16	103	10
175332	205	276	< 5	1	< 0.2	220	0.4	6.36	140	0.5	10	2.69	< 0.5	15	169	181
175333	205	276	< 5	1	< 0.2	150	0.2	6.96	360	1.0	8	3.02	< 0.5	18	110	25
175334	205	276	< 5	1	< 0.2	30	0.2	6.81	170	0.5	6	2.54	< 0.5	17	150	29
175335	205	276	< 5	1	< 0.2	20	< 0.2	8.27	150	0.5	6	2.63	< 0.5	16	50	33
175336	205	276	< 5	2	< 0.2	10	< 0.2	7.71	160	0.5	10	2.62	< 0.5	16	118	44
175337	205	276	< 5	1	< 0.2	100	< 0.2	7.38	180	0.5	10	2.57	< 0.5	15	65	42
175338	205	276	< 5	1	< 0.2	40	< 0.2	7.82	190	1.0	12	2.35	< 0.5	17	71	57
175339	205	276	< 5	1	< 0.2	20	< 0.2	7.53	400	0.5	12	2.66	< 0.5	20	66	87
175340	205	276	< 5	1	< 0.2	20	< 0.2	5.59	310	0.5	10	1.30	< 0.5	17	225	73
175341	205	276	< 5	1	< 0.2	160	< 0.2	6.34	150	0.5	10	1.39	4.0	19	143	154
175342	205	276	< 5	2	1.0	20	< 0.2	5.92	160	1.0	8	1.53	< 0.5	15	144	158
175343	205	276	< 5	4	0.2	< 10	< 0.2	7.34	330	2.0	8	1.30	< 0.5	10	80	153
175344	205	276	< 5	4	0.2	10	< 0.2	7.45	360	1.5	2	1.23	< 0.5	12	64	191
175345	205	276	< 5	4	< 0.2	< 10	< 0.2	6.98	870	0.5	8	4.64	< 0.5	30	434	117
175346	205	276	< 5	4	0.4	< 10	< 0.2	8.09	400	1.5	10	1.27	< 0.5	15	150	273
175347	205	276	< 5	1	< 0.2	10	< 0.2	6.46	1540	1.5	2	0.56	< 0.5	8	54	378
175348	205	276	< 5	1	< 0.2	10	< 0.2	7.53	330	2.0	10	1.78	< 0.5	9	138	76
175349	205	276	< 5	1	< 0.2	50	0.4	7.15	450	2.0	6	1.62	< 0.5	8	110	45
175350	205	276	< 5	2	< 0.2	30	0.2	7.42	310	2.0	10	1.14	< 0.5	10	143	178

CERTIFICATION: Hart Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page N er :1-B
Total Pages :1
Certificate Date: 28-SEP-96
Invoice No. :I9632935
P.O. Number :6408
Account :GP W

CERTIFICATE OF ANALYSIS A9632935

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175326	205 276	3.47	1.42	2.21	1005	1	1.79	18	380	44	203	0.24	120	10	72
175327	205 276	4.32	2.98	2.39	1190	2	0.28	17	410	76	126	0.26	134	10	148
175328	205 276	4.40	2.08	2.46	1140	9	0.58	24	680	64	219	0.32	127	10	128
175329	205 276	4.17	1.59	2.14	875	4	1.28	18	380	40	293	0.25	129	10	60
175330	205 276	4.19	1.59	2.33	780	3	1.83	19	400	32	347	0.27	135	10	74
175331	205 276	3.38	1.54	2.51	1055	1	2.86	19	420	184	202	0.26	141	< 10	180
175332	205 276	4.36	1.62	1.91	820	3	1.59	15	350	16	178	0.20	115	< 10	90
175333	205 276	4.15	2.10	2.32	995	3	1.65	18	410	16	192	0.24	131	< 10	76
175334	205 276	4.33	2.41	2.08	715	4	1.64	16	400	32	134	0.23	128	< 10	64
175335	205 276	4.84	3.12	1.81	665	3	1.48	7	460	14	365	0.28	140	< 10	80
175336	205 276	4.42	2.79	1.52	730	2	1.62	6	420	12	320	0.24	125	< 10	84
175337	205 276	4.40	2.43	1.70	795	3	1.14	5	420	18	158	0.24	123	10	120
175338	205 276	4.58	2.05	1.59	500	2	1.45	10	450	22	199	0.26	119	10	102
175339	205 276	5.14	1.22	1.95	420	1	1.41	7	510	12	215	0.26	151	< 10	62
175340	205 276	4.19	1.48	1.78	615	6	0.25	26	660	18	72	0.26	113	< 10	98
175341	205 276	4.59	1.47	1.96	585	4	0.33	25	580	20	114	0.27	127	< 10	186
175342	205 276	4.01	1.69	1.33	380	6	0.24	21	660	10	132	0.27	91	< 10	98
175343	205 276	2.94	3.24	0.92	155	1	1.12	5	370	16	112	0.19	36	< 10	30
175344	205 276	2.96	3.36	1.05	235	2	0.67	6	390	10	105	0.18	36	< 10	46
175345	205 276	5.26	1.10	3.95	1100	1	0.99	103	630	8	407	0.26	143	10	116
175346	205 276	3.83	3.39	1.32	300	4	0.84	8	440	6	139	0.23	51	10	52
175347	205 276	2.36	3.09	0.80	180	3	0.20	5	170	6	68	0.09	22	< 10	42
175348	205 276	3.19	3.24	0.96	315	2	1.31	5	410	12	178	0.20	41	< 10	54
175349	205 276	2.94	3.24	0.79	245	3	0.94	6	390	30	157	0.18	34	< 10	106
175350	205 276	3.18	3.20	1.23	200	4	0.73	9	390	10	123	0.19	36	< 10	86

CERTIFICATION: Stan Bachler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9630605

Comments: ATTN: DAVID TERRY

CERTIFICATE A9630605

(GP W) - WESTMIN RESOURCES LTD.

Project: 6408
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 13-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	8	Geochem ring to approx 150 mesh
226	8	0-3 Kg crush and split
3202	8	Rock - save entire reject
285	8	ICP - HF digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	8	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
578	8	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	8	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	8	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	8	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	8	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	8	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	8	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	8	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	8	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	8	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	8	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	8	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	8	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	8	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	8	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	8	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	8	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	8	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	8	Pb ppm: 24 element, rock & core	AAS	2	10000
582	8	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	8	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	8	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	8	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	8	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: 6408
Comments: ATTN: DAVID TERRY

QC Pa. 1-A
Tot QC Pg: 1
Date: 13-SEP-96
Invoice #: I9630605
P.O. #:

GP W

QC DATA OF CERTIFICATE A9630605

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
G96-TOT	Std1	1	-----	-----	8.19	1230	0.5	4	2.14	2.0	20	109	203	5.16	2.08	1.12
CHEMEX MEAN	---	---	-----	-----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177	4.41	1.86	1.03
GEO-96	Std1	1	-----	5.4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	5.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WC-96	Std1	1	240	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	239	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION: Ivan Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
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VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN: DAVID TERRY

Page Number : 1-B
Total Pages : 1
Certificate Date: 13-SEP-96
Invoice No. : I9630605
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9630605

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
134778	205 226	75	1	0.07	5	430	< 2	19	0.37	87	< 10	32
134779	205 226	230	3	< 0.01	45	420	36	8	0.05	41	20	144
134780	205 226	775	1	0.68	9	550	10	199	0.30	146	30	30
134781	205 226	65	1	0.01	12	110	12	5	0.01	10	< 10	6
134782	205 226	15	14	0.10	27	140	8	12	0.03	50	< 10	860
134783	205 226	165	49	0.17	29	1690	< 2	90	0.25	203	10	48
134784	205 226	235	33	0.32	82	3180	14	31	0.07	388	10	78
134785	205 226	185	10	0.10	4	20	100	18	0.12	31	10	1285

CERTIFICATION: David Baldwin

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408
Comments: ATTN: DAVID TERRY

Page Number : 1-A
Total Pages : 1
Certificate Date: 13-SEP-96
Invoice No. : I9630605
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9630605

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
134778	205	226	15	< 0.2	4.30	5870	1.5	< 2	0.03	< 0.5	3	140	34	2.85	2.21	0.69
134779	205	226	35	0.8	1.41	80	< 0.5	< 2	0.10	0.5	9	175	91	8.43	< 0.01	0.91
134780	205	226	10	0.2	7.96	400	1.5	6	3.14	< 0.5	11	120	38	4.33	3.14	2.17
134781	205	226	10	0.2	0.31	90	< 0.5	< 2	0.02	< 0.5	13	237	10	1.72	0.07	0.14
134782	205	226	80	3.6	2.06	130	< 0.5	16	0.03	15.0	10	154	5210	2.04	0.96	0.09
134783	205	226	10	< 0.2	5.82	1210	0.5	6	1.41	< 0.5	15	240	586	3.50	1.74	1.66
134784	205	226	25	0.2	1.33	220	< 0.5	10	0.83	0.5	6	287	816	1.29	0.22	0.57
134785	205	226	15	1.0	2.04	130	< 0.5	< 2	0.12	9.0	4	209	1240	7.19	0.60	0.17

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Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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QC Pg: 1-B
Tot QC Pg: 1
Date: 13-SEP-96
Invoice #: I9630605
P.O. #: GP W

QC DATA OF CERTIFICATE A9630605

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT	Std1	1	1060	10	1.18	22	660	-----	239	0.39	164	30	206
CHEMEX MEAN	---	---	927	9	1.03	20	648	-----	226	0.35	156	20	186
GEO-96	Std1	1	-----	-----	-----	-----	-----	132	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	120	-----	-----	-----	-----	-----
WC-96	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION: Ian R. Pascoe

APPENDIX I

DIGHEM AIRBORNE SURVEY MAPS

Report #1239

DIGHEM^V SURVEY
FOR
WESTMIN RESOURCES LIMITED
WOLVERINE LAKE PROJECT
YUKON

NTS 105G/1,7,8,9, 105H/5,12

Dighem, A division of CGG Canada Ltd.
Mississauga, Ontario
March 29, 1996

Douglas G. Garrie
Geophysicist

A1239MAR.96R

SUMMARY

This report describes the logistics and results of a DIGHEM^V airborne geophysical survey carried out for Westmin Resources Limited, over three properties located near Wolverine Lake, Yukon. Total coverage of the survey block amounted to 3660 km. The survey was flown from November 3 to December 5, 1995.

The purpose of the survey was to detect zones of conductive mineralization and to provide information that could be used to map the geology and structure of the survey areas. This was accomplished by using a DIGHEM^V multi-coil, multi-frequency electromagnetic system, supplemented by a high sensitivity Cesium magnetometer and a four-channel VLF receiver. The information from these sensors was processed to produce maps which display the magnetic and conductive properties of the survey areas. A GPS electronic navigation system, utilizing a UHF link, ensured accurate positioning of the geophysical data with respect to the base maps. Visual flight path recovery techniques were used to confirm the location of the helicopter where visible topographic features could be identified on the ground.

The survey properties contain several anomalous features, many of which are considered to be of moderate to high priority as exploration targets. Most of the inferred bedrock conductors appear to warrant further investigation using appropriate surface exploration techniques. Areas of interest may be assigned priorities on the basis of supporting geophysical, geochemical and/or geological information. After initial

investigations have been carried out, it may be necessary to re-evaluate the remaining anomalies based on information acquired from the follow-up program.

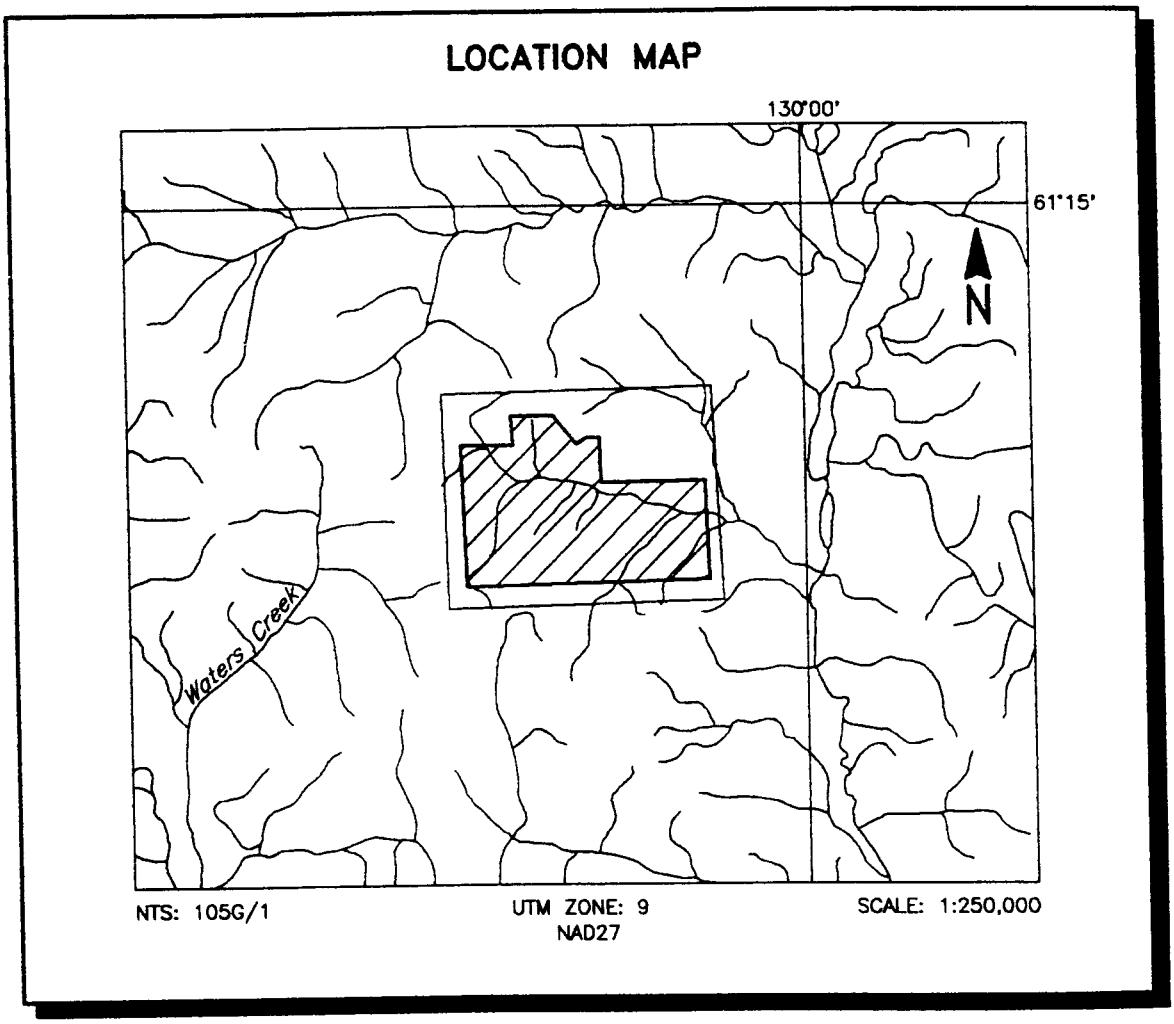


FIGURE 3
WESTMIN RESOURCES LIMITED
TY CLAIMS, YUKON
JOB 1239

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INTRODUCTION

A DIGHEM^V electromagnetic/resistivity/magnetic/VLF survey was flown for Westmin Resources Limited, from November 3 to December 5, 1995, over three survey blocks located near Wolverine Lake, Yukon. The survey area can be located on NTS map sheets 105G/1,7,8,9 and 105H/5,12 (see Figures 1 through 3).

Survey coverage consisted of approximately 3660 line-km, including tie lines. Refer to Table 1-1 for a breakdown of line-km, flight line spacing and azimuthal line direction for each area.

Table 1-1

Block	Flight Line Direction	Line Spacing (m)	Survey Line-km	Tie Line-km
Rope, Foot, Nail and Hang Claims	35°/215°	200	3010	123
Pak Claims	30°/210°	200	132	11
Ty Claims	0°/180°	100	367	17
TOTAL			3509	151

The survey employed the DIGHEM^V electromagnetic system. Ancillary equipment consisted of a magnetometer, radar altimeter, video camera, analog and digital recorders,

a VLF receiver and an electronic navigation system. The instrumentation was installed in an Aerospatiale AS350B turbine helicopter (Registration C-FSWI) which was provided by Hi-Wood Helicopters Ltd. The helicopter flew at an average airspeed of 110 km/h with an EM bird height of approximately 30 m.

Section 2 provides details on the survey equipment, the data channels, their respective sensitivities, and the navigation/flight path recovery procedure. Noise levels of less than 2 ppm are generally maintained for wind speeds up to 35 km/h. Higher winds may cause the system to be grounded because excessive bird swinging produces difficulties in flying the helicopter. The swinging results from the 5 m^2 of area which is presented by the bird to broadside gusts.

In some portions of the survey area, the steep topography forced the pilot to exceed normal terrain clearance for reasons of safety. It is possible that some weak conductors may have escaped detection in areas where the bird height exceeded 120 m. In difficult areas where near-vertical climbs were necessary, the forward speed of the helicopter was reduced to a level which permitted excessive bird swinging. This problem, combined with the severe stresses to which the bird was subjected, gave rise to aerodynamic noise levels which are slightly higher than normal. Where warranted, reflights were carried out to minimize these adverse effects.

SURVEY EQUIPMENT

This section provides a brief description of the geophysical instruments used to acquire the survey data:

Electromagnetic System

Model:	DIGHEM^V
Type:	Towed bird, symmetric dipole configuration operated at a nominal survey altitude of 30 metres. Coil separation is 8 metres for 900 Hz, 5500 Hz and 7200 Hz, and 6.3 metres for the 56,000 Hz coil-pair.
Coil orientations/frequencies:	coaxial / 900 Hz coplanar / 900 Hz coaxial / 5,500 Hz coplanar / 7,200 Hz coplanar / 56,000 Hz
Channels recorded:	5 inphase channels 5 quadrature channels 2 monitor channels
Sensitivity:	0.06 ppm at 900 Hz 0.10 ppm at 5,500 Hz 0.10 ppm at 7,200 Hz 0.30 ppm at 56,000 Hz
Sample rate:	10 per second

The electromagnetic system utilizes a multi-coil coaxial/coplanar technique to energize conductors in different directions. The coaxial coils are vertical with their axes

in the flight direction. The coplanar coils are horizontal. The secondary fields are sensed simultaneously by means of receiver coils which are maximum coupled to their respective transmitter coils. The system yields an inphase and a quadrature channel from each transmitter-receiver coil-pair.

Magnetometer

Model:	Picodas 3340
Type:	Optically pumped Cesium vapour
Sensitivity:	0.01 nT
Sample rate:	10 per second

The magnetometer sensor is towed in a bird 20 m below the helicopter.

Magnetic Base Station

Model:	GEM System Inc.
Type:	Digital recording proton precession
Sensitivity:	0.02 nT
Sample rate:	3 per second

A digital recorder is operated in conjunction with the base station magnetometer to record the diurnal variations of the earth's magnetic field. The clock of the base station is synchronized with that of the airborne system to permit subsequent removal of diurnal drift.

VLF System

Manufacturer:	Herz Industries Ltd.	
Type:	Totem-2A	
Sensitivity:	0.1%	
Stations:	Annapolis, Maryland;	NSS, 21.4 kHz
	Cutler, Maine;	NAA, 24.0 kHz
	Lualualei, Hawaii;	NPM, 23.4 kHz

The VLF receiver measures the total field and vertical quadrature components of the secondary VLF field. Signals from two separate transmitters can be measured simultaneously. The VLF sensor is housed in the same bird as the magnetic sensor, and is towed 20 m below the helicopter.

Radar Altimeter

Manufacturer:	Honeywell/Sperry
Type:	AA 220
Sensitivity:	0.3 m

The radar altimeter measures the vertical distance between the helicopter and the ground. This information is used in the processing algorithm which determines conductor depth.

Analog Recorder

Manufacturer:	RMS Instruments
Type:	DGR33 dot-matrix graphics recorder
Resolution:	4x4 dots/mm
Speed:	1.5 mm/sec

The analog profiles are recorded on chart paper in the aircraft during the survey. Table 2-1 lists the geophysical data channels and the vertical scale of each profile.

Table 2-1. The Analog Profiles

Channel Name	Parameter	Scale units/mm	Designation on digital profile
1X9I	coaxial inphase (900 Hz)	2.5 ppm	CXI (900 Hz)
1X9Q	coaxial quad (900 Hz)	2.5 ppm	CXQ (900 Hz)
3P9I	coplanar inphase (900 Hz)	2.5 ppm	CPI (900 Hz)
3P9Q	coplanar quad (900 Hz)	2.5 ppm	CPQ (900 Hz)
2P7I	coplanar inphase (7200 Hz)	5 ppm	CPI (7200 Hz)
2P7Q	coplanar quad (7200 Hz)	5 ppm	CPQ (7200 Hz)
4X7I	coaxial inphase (5500 Hz)	5 ppm	CXI (5500 Hz)
4X7Q	coaxial quad (5500 Hz)	5 ppm	CXQ (5500 Hz)
5P5I	coplanar inphase(56000 Hz)	10 ppm	CPI (56 kHz)
5P5Q	coplanar quad (56000 Hz)	10 ppm	CPQ (56 kHz)
ALTR	altimeter	3 m	ALT
CMGC	magnetics, coarse	20 nT	MAG
CMGF	magnetics, fine	2.0 nT	
VF1T	VLF-total: primary stn.	2%	
VF1Q	VLF-quad: primary stn.	2%	
VF2T	VLF-total: secondary stn.	2%	
VF2Q	VLF-quad: secondary stn.	2%	
CXSP	coaxial sferics monitor		CXS
CPSP	coplanar sferics monitor		CPS
CXPL	coaxial powerline monitor		CXP
CPPL	coplanar powerline monitor		CPP

Table 2-2. The Digital Profiles

Channel Name (Freq)	Observed parameters	Scale units/mm
MAG	magnetics, fine	5 nT
MAG	magnetics, coarse	50 nT
ALT	bird height	6 m
CXI (900 Hz)	vertical coaxial coil-pair inphase	2 ppm
CXQ (900 Hz)	vertical coaxial coil-pair quadrature	2 ppm
CPI (900 Hz)	horizontal coplanar coil-pair inphase	2 ppm
CPQ (900 Hz)	horizontal coplanar coil-pair quadrature	2 ppm
CXI (5500 Hz)	vertical coaxial coil-pair inphase	4 ppm
CXQ (5500 Hz)	vertical coaxial coil-pair quadrature	4 ppm
CPI (7200 Hz)	horizontal coplanar coil-pair inphase	4 ppm
CPQ (7200 Hz)	horizontal coplanar coil-pair quadrature	4 ppm
CPI (56 kHz)	horizontal coplanar coil-pair inphase	10 ppm
CPQ (56 kHz)	horizontal coplanar coil-pair quadrature	10 ppm
CXS	coaxial sferics monitor	
CXP	coaxial powerline monitor	
CPS	coplanar sferics monitor	
	Computed Parameters	
DFI (900 Hz)	difference function inphase from CXI and CPI	2 ppm
DFQ (900 Hz)	difference function quadrature from CXQ and CPQ	2 ppm
RES (900 Hz)	log resistivity	.06 decade
RES (7200 Hz)	log resistivity	.06 decade
RES (56 kHz)	log resistivity	.06 decade
DP (900 Hz)	apparent depth	6 m
DP (7200 Hz)	apparent depth	6 m
DP (56 kHz)	apparent depth	6 m
CDT	conductance	1 grade

Digital Data Acquisition System

Manufacturer: RMS Instruments

Model: DGR 33

Recorder: RMS TCR-12, 6400 bpi, tape cartridge recorder

The digital data are used to generate several computed parameters. Both measured and computed parameters are plotted as "multi-channel stacked profiles" during data processing. These parameters are shown in Table 2-2. In Table 2-2, the log resistivity scale of 0.06 decade/mm means that the resistivity changes by an order of magnitude in 16.6 mm. The resistivities at 0, 33 and 67 mm up from the bottom of the digital profile are respectively 1, 100 and 10,000 ohm-m.

Tracking Camera

Type: Panasonic Video

Model: AG 2400/WVCD132

Fiducial numbers are recorded continuously and are displayed on the margin of each image. This procedure ensures accurate correlation of analog and digital data with respect to visible features on the ground.

Navigation System (RT-DGPS)

Model:	Sercel NR106, Real-time differential positioning
Type:	SPS (L1 band), 10-channel, C/A code, 1575.42 MHz.
Sensitivity:	-132 dBm, 0.5 second update
Accuracy:	< 5 metres in differential mode, ± 50 metres in S/A (non differential) mode

The Global Positioning System (GPS) is a line of sight, satellite navigation system which utilizes time-coded signals from at least four of the twenty-four NAVSTAR satellites. In the differential mode, two GPS receivers are used. The base station unit is used as a reference which transmits real-time corrections to the mobile unit in the aircraft, via a UHF radio datalink. The on-board system calculates the flight path of the helicopter while providing real-time guidance. The raw XYZ data are recorded for both receivers, thereby permitting post-survey processing for accuracies of approximately 5 metres.

Although the base station receiver is able to calculate its own latitude and longitude, a higher degree of accuracy can be obtained if the reference unit is established on a known benchmark or triangulation point. The GPS records data relative to the WGS84 ellipsoid, which is the basis of the revised North American Datum (NAD83).

Conversion software is used to transform the WGS84 coordinates to the system displayed on the base maps.

Field Workstation

Manufacturer:	Dighem
Model:	FWS: V2.71
Type:	Pentium based P.C.

A portable PC-based field workstation is used at the survey base to verify data quality and completeness. Flight tapes are dumped to a hard drive to permit the creation of a database. This process allows the field operators to display both the positional (flight path) and geophysical data on a screen or printer.

PRODUCTS AND PROCESSING TECHNIQUES

The following products are available from the survey data. Those which are not part of the survey contract may be acquired later. Refer to Table 3-1 for a summary of the maps which accompany this report, some of which may be sent under separate cover. Most parameters can be displayed as contours, profiles, or in colour.

Base Maps

Base maps of the survey areas have been produced from published topographic maps. These provide a relatively accurate, distortion-free base which facilitates correlation of the navigation data to the UTM grid. Photomosaics are useful for visual reference and for subsequent flight path recovery, but usually contain scale distortions. Orthophotos are ideal, but their cost and the time required to produce them, usually precludes their use as base maps.

Electromagnetic Anomalies

Anomalous electromagnetic responses are selected and analysed by computer to provide a preliminary electromagnetic anomaly map. This preliminary map is used, by the geophysicist, in conjunction with the computer-generated digital profiles, to produce

Table 3-1 Survey Products

1. Preliminary Colour Products @ 1:20,000

   EM anomalies with 5500 Hz coaxial profiles
   Total field magnetic contours
   Resistivity (7200 Hz) contours

2. Final Transparent Maps (+3 prints)

   Dighem EM anomalies
   Total field magnetic contours
   Calculated vertical magnetic gradient contours
   Resistivity (900 Hz) contours for Foot/Rope/Hang/Nail Claims
   Resistivity (7200 Hz) contours for all survey blocks
   Resistivity (56,000 Hz) contours for Pak and Ty Claims
   Filtered total field VLF contours

3. Colour Maps (2 sets)

   Total field magnetics
   Calculated vertical magnetic gradient
   Resistivity (900 Hz) for Foot/Rope/Hang/Nail Claims
   Resistivity (7200 Hz) for all survey blocks
   Resistivity (56,000 Hz) for Pak and Ty Claims
   Filtered total field VLF

4. Additional Products

   Digital XYZ archive in Geosoft format (CD-ROM)
   Digital grid archives in I-POWER format (CD-ROM)
   Survey report (3 copies)
   Multi-channel stacked profiles
   Analog chart records
   Flight path video cassettes
   VISION software package

Note: Other products can be produced from existing survey data, if requested. Maps for the Pak and Ty Claims were presented at 1:10,000 and maps for Foot/Rope/Hang/Nail Claims were presented at 1:20,000.

the final interpreted EM anomaly map. This map includes bedrock surficial and cultural conductors. A map containing only bedrock conductors can be generated, if desired.

Resistivity

The apparent resistivity data were calculated using the pseudo-layer half-space model. The inputs to this resistivity algorithm are the amplitude and phase of the EM response. The algorithm calculates the apparent resistivity in ohm-m and the apparent height of the EM bird above the half-space. Any differences between the apparent height and the radar altimeter are ascribed to a highly resistive upper layer, or pseudo-layer. Errors in the radar altimeter will not affect the resistivity calculation as altitude is not an input parameter for the pseudo-layer half-space model. Apparent resistivities calculated in this manner may behave quite differently from those calculated using other models.

A resistivity map portrays all the EM information for that frequency over the entire survey area. This contrasts with the electromagnetic anomaly map which provides information only over interpreted conductors. The large dynamic range makes the resistivity parameter an excellent mapping tool.

EM Magnetite

The apparent percent magnetite by weight is computed wherever magnetite produces a negative inphase EM response. This calculation is more meaningful in resistive areas.

Total Field Magnetics

The aeromagnetic data are corrected for diurnal variation using the magnetic base station data. The regional IGRF can be removed from the data, if requested.

Enhanced Magnetics

The total field magnetic data are subjected to a processing algorithm. This algorithm enhances the response of magnetic bodies in the upper 500 m and attenuates the response of deeper bodies. The resulting enhanced magnetic map provides better definition and resolution of near-surface magnetic units. It also identifies weak magnetic features which may not be evident on the total field magnetic map. However, regional magnetic variations, and magnetic lows caused by remanence, are better defined on the total field magnetic map. The technique is described in more detail in Section 5.

Magnetic Derivatives

The total field magnetic data may be subjected to a variety of filtering techniques to yield maps of the following:

first vertical derivative (vertical gradient)

second vertical derivative

magnetic susceptibility with reduction to the pole

upward/downward continuations

All of these filtering techniques improve the recognition of near-surface magnetic bodies, with the exception of upward continuation. Any of these parameters can be produced on request. Dighem's proprietary enhanced magnetic technique is designed to provide a general "all-purpose" map, combining the more useful features of the above parameters.

VLF

The VLF data are digitally filtered to remove long wavelengths such as those caused by variations in the transmitted field strength.

Multi-channel Stacked Profiles

Distance-based profiles of the digitally recorded geophysical data are generated and plotted by computer. These profiles also contain the calculated parameters which are used in the interpretation process. These are produced as worksheets prior to interpretation, and can also be presented in the final corrected form after interpretation. The profiles display electromagnetic anomalies with their respective interpretive symbols.

Contour, Colour and Shadow Map Displays

The geophysical data are interpolated onto a regular grid using a modified Akima spline technique. The resulting grid is suitable for generating contour maps of excellent quality. The grid cell size is usually 25% of the line interval.

Colour maps are produced by interpolating the grid down to the pixel size. The parameter is then incremented with respect to specific amplitude ranges to provide colour "contour" maps. Colour maps of the total magnetic field are particularly useful in defining the lithology of the survey area.

Monochromatic shadow maps are generated by employing an artificial sun to cast shadows on a surface defined by the geophysical grid. There are many variations in the

shadowing technique. These techniques may be applied to total field or enhanced magnetic data, magnetic derivatives, VLF, resistivity, etc. The shadow of the enhanced magnetic parameter is particularly suited for defining geological structures with crisper images and improved resolution.

Conductivity-depth Sections

The apparent resistivities for all frequencies can be displayed simultaneously as coloured conductivity-depth sections. Usually, only the coplanar data are displayed as the quality tends to be higher than that of the coaxial data.

Conductivity-depth sections can be generated in two formats:

(1) Sengpiel resistivity sections, where the apparent resistivity for each frequency is plotted at the depth of the centroid of the inphase current flow[1]; and,

(2) Differential resistivity sections, where the differential resistivity is plotted at the differential depth[2].

---

1 Approximate Inversion of Airborne EM Data from Multilayered Ground: Sengpiel, K.P., Geophysical Prospecting 36, 446-459, 1988.

2 The differential parameter method for multifrequency airborne resistivity mapping: Huang, H. and Fraser, D.C., Geophysics, Vol. 61, No. 1, p.100-109.

Both the Sengpiel and differential methods are derived from the pseudo-layer halfspace model. Both yield a coloured conductivity-depth section which attempts to portray a smoothed approximation of the true resistivity distribution with depth. Conductivity-depth sections are most useful in conductive layered situations, but may be unreliable in areas of moderate to high resistivity where signal amplitudes are weak. In areas where inphase responses have been suppressed by the effects of magnetite, the computed resistivities shown on the sections may be unreliable. The differential resistivity technique was developed by Dighem. It is more sensitive than the Sengpiel section to changes in the earth's resistivity and it reaches deeper.

SURVEY RESULTS

GENERAL DISCUSSION

Tables 4-1 through 4-3 summarize the EM responses in the survey areas, with respect to conductance grade and interpretation.

The anomalies shown on the electromagnetic anomaly maps are based on a near-vertical, half plane model. This model best reflects "discrete" bedrock conductors. Wide bedrock conductors or flat-lying conductive units, whether from surficial or bedrock sources, may give rise to very broad anomalous responses on the EM profiles. These may not appear on the electromagnetic anomaly map if they have a regional character rather than a locally anomalous character. These broad conductors, which more closely approximate a half space model, will be maximum coupled to the horizontal (coplanar) coil-pair and should be more evident on the resistivity parameter. Resistivity maps, therefore, may be more valuable than the electromagnetic anomaly maps, in areas where broad or flat-lying conductors are considered to be of importance.

TABLE 4-3

EM ANOMALY STATISTICS

TY CLAIMS
WOLVERINE LAKE PROJECT, B.C.

CONDUCTOR GRADE	CONDUCTANCE RANGE SIEMENS (MHOS)	NUMBER OF RESPONSES
7	>100	0
6	50 - 100	0
5	20 - 50	0
4	10 - 20	0
3	5 - 10	0
2	1 - 5	18
1	<1	12
*	INDETERMINATE	51
TOTAL		81

CONDUCTOR MODEL	MOST LIKELY SOURCE	NUMBER OF RESPONSES
D	DISCRETE BEDROCK CONDUCTOR	16
B	DISCRETE BEDROCK CONDUCTOR	7
S	CONDUCTIVE COVER	57
H	ROCK UNIT OR THICK COVER	1
TOTAL		81

(SEE EM MAP LEGEND FOR EXPLANATIONS)

Excellent resolution and discrimination of conductors was accomplished by using a fast sampling rate of 0.1 sec and by employing a common frequency (900 Hz) on two orthogonal coil-pairs (coaxial and coplanar). The resulting "difference channel" parameters often permit differentiation of bedrock and surficial conductors, even though they may exhibit similar conductance values.

Anomalies which occur near the ends of the survey lines (i.e., outside the survey area), should be viewed with caution. Some of the weaker anomalies could be due to aerodynamic noise, i.e., bird bending, which is created by abnormal stresses to which the bird is subjected during the climb and turn of the aircraft between lines. Such aerodynamic noise is usually manifested by an anomaly on the coaxial inphase channel only, although severe stresses can affect the coplanar inphase channels as well.

Magnetics

A GSM-19T magnetometer was operated at the survey base to record diurnal variations of the earth's magnetic field. The clock of the base station was synchronized with that of the airborne system to permit subsequent removal of diurnal drift.

The background magnetic level has been adjusted to match the International Geomagnetic Reference Field (IGRF) for the survey area. The IGRF gradient across the survey block is left intact.

The total field magnetic data have been presented as contours on the base maps. These maps show the magnetic properties of the rock units underlying the survey area.

The total field magnetic data have been subjected to a processing algorithm to produce first vertical magnetic derivative maps. This procedure enhances near-surface magnetic units and suppresses regional gradients. It also provides better definition and resolution of magnetic units and displays weak magnetic features which may not be clearly evident on the total field maps. Maps of the second vertical magnetic derivative can also be prepared from existing survey data, if requested.

There is some evidence on the magnetic maps which suggests that the survey areas have been subjected to deformation and/or alteration. These structural complexities are evident on the contour maps as variations in magnetic intensity, irregular patterns, and as offsets or changes in strike direction.

If a specific magnetic intensity can be assigned to the rock type which is believed to host the target mineralization, it may be possible to select areas of higher priority on the basis of the total field magnetic data. This is based on the assumption that the magnetite content of the host rocks will give rise to a limited range of contour values which will permit differentiation of various lithological units.

The magnetic results, in conjunction with the other geophysical parameters, should provide valuable information which can be used to effectively map the geology and structure in the survey areas.

VLF

VLF results were obtained from the transmitting stations at Cutler, Maine (NAA - 24.0 kHz), Annapolis, Maryland (NSS - 21.4 kHz) and Lualualei, Hawaii (NPM - 23.4 kHz). The VLF maps show the contoured results of the filtered total field from Cutler. On flights 8-10 and 16-18, data from Lualualei were presented.

The VLF method is quite sensitive to the angle of coupling between the conductor and the propagated EM field. Consequently, conductors which strike towards the VLF station will usually yield a stronger response than conductors which are nearly orthogonal to it.

The VLF parameter does not normally provide the same degree of resolution available from the EM data. Closely-spaced conductors, conductors of short strike length or conductors which are poorly coupled to the VLF field, may escape detection with this method. Erratic signals from the VLF transmitters can also give rise to strong, isolated anomalies which should be viewed with caution. The filtered total field VLF contours are presented with a contour interval of one percent.

Resistivity

Resistivity maps, which display the conductive properties of the survey area, were produced from the 900 Hz, 7200 Hz and 56,000 Hz coplanar data. The maximum resistivity values, which are calculated for each frequency, are 1,000, 8,000 and 20,000 ohm-m respectively. These cutoffs eliminate the meaningless higher resistivities which would result from very small EM amplitudes. The minimum resistivity value is 0.000017 times the frequency. This minimum resistivity cutoff eliminates errors due to the lack of an absolute phase control for the EM data.

Electromagnetics

The EM anomalies resulting from this survey appear to fall within one of two general categories. The first type consists of discrete, well-defined anomalies which yield marked inflections on the difference channels. These anomalies are usually attributed to conductive sulphides or graphite and are generally given a "B" or "D" interpretive symbol, denoting a bedrock source.

The second class of anomalies comprises moderately broad responses which exhibit the characteristics of a half space and do not yield well-defined inflections on the difference channels. Anomalies in this category are usually given an "S" or "H"

interpretive symbol. The lack of a difference channel response usually implies a broad or flat-lying conductive source such as overburden. Some of these anomalies may reflect conductive rock units or zones of deep weathering.

The effects of conductive overburden are evident over portions of the survey area. Although the difference channels (DFI and DFQ) are extremely valuable in detecting bedrock conductors which are partially masked by conductive overburden, sharp undulations in the bedrock/overburden interface can yield anomalies in the difference channels which may be interpreted as possible bedrock conductors. Such anomalies usually fall into the "S?" or "B?" classification but may also be given an "E" interpretive symbol, denoting a resistivity contrast at the edge of a conductive unit.

In areas where EM responses are evident primarily on the quadrature components, zones of poor conductivity are indicated. Where these responses are coincident with magnetic anomalies, it is possible that the inphase component amplitudes have been suppressed by the effects of magnetite. Most of these poorly-conductive magnetic features give rise to resistivity anomalies which are only slightly below background. If it is expected that poorly-conductive economic mineralization may be associated with magnetite-rich units, most of these weakly anomalous features will be of interest. In areas where magnetite causes the inphase components to become negative, the apparent conductance and depth of EM anomalies may be unreliable.

It is difficult to assess the relative merits of EM anomalies on the basis of conductance. It is recommended that an attempt be made to compile a suite of geophysical "signatures" over areas of interest. Anomaly characteristics are clearly defined on the computer-processed geophysical data profiles which are supplied as one of the survey products.

The electromagnetic anomaly maps show the anomaly locations with the interpreted conductor type, dip, conductance and depth being indicated by symbols. Direct magnetic correlation is also shown if it exists. The strike direction and length of the conductors are indicated when anomalies can be correlated from line to line. When studying the map sheets, consult the anomaly listings appended to this report.

In areas where several conductors or conductive trends appear to be related to a common geological unit, these have been outlined as "zones" on the EM anomaly maps. The zone outlines usually approximate the limits of conductive units defined by the 7200 Hz resistivity contours.

A complete assessment and evaluation of the survey data should be carried out by one or more qualified professionals who have access to, and can provide a meaningful compilation of, all available geophysical, geological and geochemical data.

Zone A reveals a broad conductive source with calculated resistivities as low as 150 ohm-m. This zone is best defined on the 7200 Hz coplanar data and the 900 Hz coplanar data. This response is typical of a thick, flat-lying, broad conductive unit at depth. This zone is located within a magnetic low.

Zone B is not as conductive as Zone A, displaying a low of approximately 400 ohm-m. Four discrete EM anomalies have been identified within the zone. All are poorly defined and, as a result, a "B?" or "D?" interpretive symbol was used. This zone is located in between two magnetic highs to the east and west.

Ty Claims

The background resistivities are in the range of 4000 to 6000 ohm-m. With such a resistive area, the 56,000 Hz resistivity data were chosen over the 900 Hz resistivity data to present as a contour map since the 900 Hz data displayed little information.

The rugged terrain of the survey area resulted in higher than normal flying in some areas. This, along with the highly resistive ground, resulted in low EM signals in areas where the height of the EM bird was greater than 80 metres. This situation occurred on every other line over small areas within the survey block based on a combination of the wind direction, flight line direction and the terrain. These "low signal areas" are typically very short, covering only 200 to 500 metres along the survey

line. The resulting resistivity maps were adversely affected, as the low EM signal resulted in erroneously high resistivity calculations.

To improve the resistivity maps by allowing for better line to line correlation of the resistivity data, the calculated resistivity data for a few lines were not used in the gridding process. This was done only in areas of low EM signals and a bird height of greater than 80 metres. The following lines had short segments of resistivity data nulled: 40240, 40290, 40300, 40330, 40370, and lines 40640-40750. During the gridding procedures, the nulled resistivity data values were splined through using an Akima spline. This processing method improved the overall quality of the resistivity maps by allowing for more line to line correlation of the conductive trends. This method did not remove any of the recorded EM data.

The magnetic data displays a dynamic range of only 175 nT over the entire survey block. The magnetic background of the survey area is in the range of 58,160 nT up to 58,190 nT. The remaining areas of high magnetic amplitudes are confined to three areas centered near line 40261, fiducial 1366, line 40330, fiducial 4181, and line 40400, fiducial 3648.

The magnetic high centered near line 40261, fiducial 1366 reveals an amplitude of approximately 160 nT above background. There is some coincident conductivity as displayed on the resistivity maps, although the conductivity appears more related to a

surficial source than a bedrock source. Anomalies 40261A and 40270A are located close to this magnetic anomaly and are both broad and poorly defined. Anomaly 40261A exhibits a broad, poorly defined peak on the coaxial 5500 inphase data and a poorly defined trough on the 7200 Hz and 56,000 Hz coplanar data. This response is typical of a thin, weakly conductive source. Due to the poorly defined EM shapes and the magnetic anomaly within the area, an "S?" interpretive symbol was given to this response.

There are four other discrete EM anomalies that are located close to this magnetic unit that may be of interest. The first two anomalies, 40240B and 40280A, are both located along the southern extent of this magnetic unit. Both are indicative of a thin dyke-like source. Anomaly 40240B is much stronger and better defined with some depth to the source indicated. The third anomaly, 40290A, is located on the northern periphery of this magnetic unit along an approximate trending northeast/southwest magnetic extension. It displays a broad response with a strong inphase component, particularly on the 900 Hz coplanar data. This suggests a broad or flat-lying conductive sheet. Depths of 40 to 50 metres and some magnetic correlation is indicated. The fourth anomaly, 40330B, is located near the northern edge of the survey area. It yields a strong, well-defined response typical of a thin dyke-like source. It is located within a magnetic low.

The second magnetic high is centered near line 40330, fiducial 4181. It is elongated in an approximately northeast/southwest trend and yields a magnetic amplitude of over 58,300 nT. There does not appear to have been any conductivity associated with this unit.

The third magnetically active area is centered near line 40400, fiducial 3648. The total field magnetic contour patterns and the calculated vertical gradient contour patterns display several offsets and breaks which suggests the area is structurally and/or lithologically complex. This magnetic unit reveals a general northeast/southwest trend. It is truncated in the east by a magnetic contact extending from approximately the end of line 40590 to line 40430, fiducial 4416.

There are several other isolated magnetic highs within the survey area that may be of interest. Three of the more predominate magnetic highs are located at line 40050, fiducial 2183; line 40390, fiducial 3389; and line 40800, fiducial 857. All of these highs are only 15 to 20 nT above background, with little conductivity associated with them.

Zone A yields resistivities as low as 80 ohm-m. The zone is generally more conductive on the 7200 Hz resistivity maps than on the 56,000 Hz resistivity map. The EM channels reveal a broad conductive zone with a strong inphase component. Anomaly 40730A displays a strong coplanar inphase response, particularly on the 7200 Hz channels. It was given an "H?" interpretive symbol due to its broad response and some

depth indicated. There are no well-defined EM responses within this zone. This zone occurs within a magnetically low area.

Zone B is not as conductive as Zone A, displaying resistivities as low as 200 ohm-m. It is also located within a non-magnetic area. Four conductors have been identified within Zone B. Conductor 40560A-40570A, located at the western extent of the zone, displays a broad but moderately well-defined response with depth indicated. This conductor is indicative of a thin dyke-like source. The second conductor, 40580B-40590B, yields a poorly-defined shape with a strong 7200 Hz coplanar component. The third conductor, 40580A-40620A, yields a typical response due to a thin source. It is moderately well-defined on the higher frequencies and has a more obscured response on the 900 Hz coplanar and coaxial channels. Some depth is indicated to this conductive source. The fourth conductor, 40631A-40660A, displays a broad response typical of a flat-lying conductive unit. None of these four conductors display any magnetic correlation.

Foot/Rope/Hang/Nail Claims

The large survey block was presented on six base maps. Numerous bedrock EM anomalies have been interpreted. The majority of these anomalies have conductances of less than 10 siemens except within areas that have been outlined as zones on the EM anomaly maps. Some anomalies have been joined by conductor axes where line to line

BACKGROUND INFORMATION

This section provides background information on parameters which are available from the survey data. Those which have not been supplied as survey products may be generated later from raw data on the digital archive tape.

ELECTROMAGNETICS

DIGHEM electromagnetic responses fall into two general classes, discrete and broad. The discrete class consists of sharp, well-defined anomalies from discrete conductors such as sulfide lenses and steeply dipping sheets of graphite and sulfides. The broad class consists of wide anomalies from conductors having a large horizontal surface such as flatly dipping graphite or sulfide sheets, saline water-saturated sedimentary formations, conductive overburden and rock, and geothermal zones. A vertical conductive slab with a width of 200 m would straddle these two classes.

The vertical sheet (half plane) is the most common model used for the analysis of discrete conductors. All anomalies plotted on the electromagnetic map are analyzed according to this model. The following section entitled **Discrete Conductor Analysis** describes this model in detail, including the effect of using it on anomalies caused by broad conductors such as conductive overburden.

The conductive earth (half space) model is suitable for broad conductors. Resistivity contour maps result from the use of this model. A later section entitled **Resistivity Mapping** describes the method further, including the effect of using it on anomalies caused by discrete conductors such as sulfide bodies.

Geometric interpretation

The geophysical interpreter attempts to determine the geometric shape and dip of the conductor. Figure 5-1 shows typical DIGHEM anomaly shapes which are used to guide the geometric interpretation.

Discrete conductor analysis

The EM anomalies appearing on the electromagnetic map are analyzed by computer to give the conductance (i.e., conductivity-thickness product) in Siemens (mhos) of a vertical sheet model. This is done regardless of the interpreted geometric shape of the conductor. This is not an unreasonable procedure, because the computed conductance increases as the electrical quality of the conductor increases, regardless of its true shape. DIGHEM anomalies are divided into seven grades of conductance, as shown in Table 5-1 below. The conductance in Siemens (mhos) is the reciprocal of resistance in ohms.

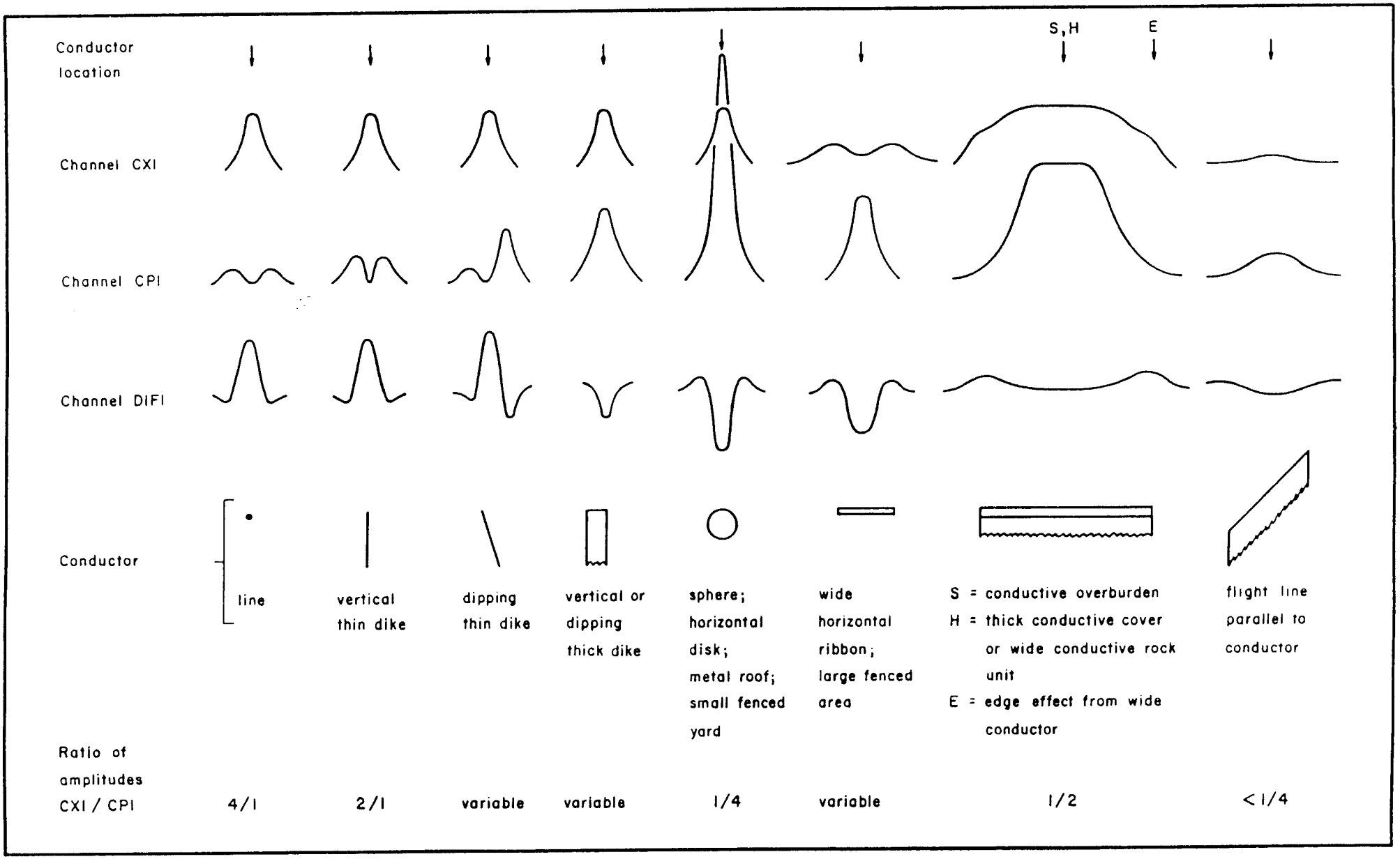


Fig. 5-1 Typical DIGHEM anomaly shapes

Table 5-1. EM Anomaly Grades

Anomaly Grade	Siemens
7	> 100
6	50 - 100
5	20 - 50
4	10 - 20
3	5 - 10
2	1 - 5
1	< 1

The conductance value is a geological parameter because it is a characteristic of the conductor alone. It generally is independent of frequency, flying height or depth of burial, apart from the averaging over a greater portion of the conductor as height increases. Small anomalies from deeply buried strong conductors are not confused with small anomalies from shallow weak conductors because the former will have larger conductance values.

Conductive overburden generally produces broad EM responses which may not be shown as anomalies on the EM maps. However, patchy conductive overburden in otherwise resistive areas can yield discrete anomalies with a conductance grade (cf. Table 5-1) of 1, 2 or even 3 for conducting clays which have resistivities as low as 50 ohm-m. In areas where ground resistivities are below 10 ohm-m, anomalies caused by weathering variations and similar causes can have any conductance grade. The anomaly shapes from the multiple coils often allow such conductors to be recognized, and these are indicated by the letters S, H, and sometimes E on the electromagnetic anomaly map (see EM map legend).

For bedrock conductors, the higher anomaly grades indicate increasingly higher conductances. Examples: DIGHEM's New Insco copper discovery (Noranda, Canada) yielded a grade 5 anomaly, as did the neighbouring copper-zinc Magusi River ore body; Mattabi (copper-zinc, Sturgeon Lake, Canada) and Whistle (nickel, Sudbury, Canada) gave grade 6; and DIGHEM's Montcalm nickel-copper discovery (Timmins, Canada) yielded a grade 7 anomaly. Graphite and sulfides can span all grades but, in any particular survey area, field work may show that the different grades indicate different types of conductors.

Strong conductors (i.e., grades 6 and 7) are characteristic of massive sulfides or graphite. Moderate conductors (grades 4 and 5) typically reflect graphite or sulfides of a less massive character, while weak bedrock conductors (grades 1 to 3) can signify poorly connected graphite or heavily disseminated sulfides. Grades 1 and 2 conductors may not respond to ground EM equipment using frequencies less than 2000 Hz.

The presence of sphalerite or gangue can result in ore deposits having weak to moderate conductances. As an example, the three million ton lead-zinc deposit of Restigouche Mining Corporation near Bathurst, Canada, yielded a well-defined grade 2 conductor. The 10 percent by volume of sphalerite occurs as a coating around the fine grained massive pyrite, thereby inhibiting electrical conduction.

Faults, fractures and shear zones may produce anomalies which typically have low conductances (e.g., grades 1 to 3). Conductive rock formations can yield anomalies of any

conductance grade. The conductive materials in such rock formations can be salt water, weathered products such as clays, original depositional clays, and carbonaceous material.

On the interpreted electromagnetic map, a letter identifier and an interpretive symbol are plotted beside the EM grade symbol. The horizontal rows of dots, under the interpretive symbol, indicate the anomaly amplitude on the flight record. The vertical column of dots, under the anomaly letter, gives the estimated depth. In areas where anomalies are crowded, the letter identifiers, interpretive symbols and dots may be obliterated. The EM grade symbols, however, will always be discernible, and the obliterated information can be obtained from the anomaly listing appended to this report.

The purpose of indicating the anomaly amplitude by dots is to provide an estimate of the reliability of the conductance calculation. Thus, a conductance value obtained from a large ppm anomaly (3 or 4 dots) will tend to be accurate whereas one obtained from a small ppm anomaly (no dots) could be quite inaccurate. The absence of amplitude dots indicates that the anomaly from the coaxial coil-pair is 5 ppm or less on both the inphase and quadrature channels. Such small anomalies could reflect a weak conductor at the surface or a stronger conductor at depth. The conductance grade and depth estimate illustrates which of these possibilities fits the recorded data best.

Flight line deviations occasionally yield cases where two anomalies, having similar conductance values but dramatically different depth estimates, occur close together on the same

conductor. Such examples illustrate the reliability of the conductance measurement while showing that the depth estimate can be unreliable. There are a number of factors which can produce an error in the depth estimate, including the averaging of topographic variations by the altimeter, overlying conductive overburden, and the location and attitude of the conductor relative to the flight line. Conductor location and attitude can provide an erroneous depth estimate because the stronger part of the conductor may be deeper or to one side of the flight line, or because it has a shallow dip. A heavy tree cover can also produce errors in depth estimates. This is because the depth estimate is computed as the distance of bird from conductor, minus the altimeter reading. The altimeter can lock onto the top of a dense forest canopy. This situation yields an erroneously large depth estimate but does not affect the conductance estimate.

Dip symbols are used to indicate the direction of dip of conductors. These symbols are used only when the anomaly shapes are unambiguous, which usually requires a fairly resistive environment.

A further interpretation is presented on the EM map by means of the line-to-line correlation of anomalies, which is based on a comparison of anomaly shapes on adjacent lines. This provides conductor axes which may define the geological structure over portions of the survey area. The absence of conductor axes in an area implies that anomalies could not be correlated from line to line with reasonable confidence.

DIGHEM electromagnetic maps are designed to provide a correct impression of conductor quality by means of the conductance grade symbols. The symbols can stand alone with geology when planning a follow-up program. The actual conductance values are printed in the attached anomaly list for those who wish quantitative data. The anomaly ppm and depth are indicated by inconspicuous dots which should not distract from the conductor patterns, while being helpful to those who wish this information. The map provides an interpretation of conductors in terms of length, strike and dip, geometric shape, conductance, depth, and thickness. The accuracy is comparable to an interpretation from a high quality ground EM survey having the same line spacing.

The attached EM anomaly list provides a tabulation of anomalies in ppm, conductance, and depth for the vertical sheet model. The EM anomaly list also shows the conductance and depth for a thin horizontal sheet (whole plane) model, but only the vertical sheet parameters appear on the EM map. The horizontal sheet model is suitable for a flatly dipping thin bedrock conductor such as a sulfide sheet having a thickness less than 10 m. The list also shows the resistivity and depth for a conductive earth (half space) model, which is suitable for thicker slabs such as thick conductive overburden. In the EM anomaly list, a depth value of zero for the conductive earth model, in an area of thick cover, warns that the anomaly may be caused by conductive overburden.

Since discrete bodies normally are the targets of EM surveys, local base (or zero) levels are used to compute local anomaly amplitudes. This contrasts with the use of true zero levels

which are used to compute true EM amplitudes. Local anomaly amplitudes are shown in the EM anomaly list and these are used to compute the vertical sheet parameters of conductance and depth. Not shown in the EM anomaly list are the true amplitudes which are used to compute the horizontal sheet and conductive earth parameters.

Questionable Anomalies

DIGHEM maps may contain EM responses which are displayed as asterisks (*). These responses denote weak anomalies of indeterminate conductance, which may reflect one of the following: a weak conductor near the surface, a strong conductor at depth (e.g., 100 to 120 m below surface) or to one side of the flight line, or aerodynamic noise. Those responses that have the appearance of valid bedrock anomalies on the flight profiles are indicated by appropriate interpretive symbols (see EM map legend). The others probably do not warrant further investigation unless their locations are of considerable geological interest.

The thickness parameter

DIGHEM can provide an indication of the thickness of a steeply dipping conductor. The amplitude of the coplanar anomaly (e.g., CPI channel on the digital profile) increases relative to the coaxial anomaly (e.g., CXI) as the apparent thickness increases, i.e., the thickness in the horizontal plane. (The thickness is equal to the conductor width if the conductor dips at 90

degrees and strikes at right angles to the flight line.) This report refers to a conductor as thin when the thickness is likely to be less than 3 m, and thick when in excess of 10 m. Thick conductors are indicated on the EM map by parentheses "( )". For base metal exploration in steeply dipping geology, thick conductors can be high priority targets because many massive sulfide ore bodies are thick, whereas non-economic bedrock conductors are often thin. The system cannot sense the thickness when the strike of the conductor is subparallel to the flight line, when the conductor has a shallow dip, when the anomaly amplitudes are small, or when the resistivity of the environment is below 100 ohm-m.

Resistivity mapping

Areas of widespread conductivity are commonly encountered during surveys. In such areas, anomalies can be generated by decreases of only 5 m in survey altitude as well as by increases in conductivity. The typical flight record in conductive areas is characterized by inphase and quadrature channels which are continuously active. Local EM peaks reflect either increases in conductivity of the earth or decreases in survey altitude. For such conductive areas, apparent resistivity profiles and contour maps are necessary for the correct interpretation of the airborne data. The advantage of the resistivity parameter is that anomalies caused by altitude changes are virtually eliminated, so the resistivity data reflect only those anomalies caused by conductivity changes. The resistivity analysis also helps the interpreter to differentiate between conductive trends in the bedrock and those patterns typical of conductive overburden. For

example, discrete conductors will generally appear as narrow lows on the contour map and broad conductors (e.g., overburden) will appear as wide lows.

The resistivity profiles and the resistivity contour maps present the apparent resistivity using the so-called pseudo-layer (or buried) half space model defined by Fraser (1978)[1]. This model consists of a resistive layer overlying a conductive half space. The depth channels give the apparent depth below surface of the conductive material. The apparent depth is simply the apparent thickness of the overlying resistive layer. The apparent depth (or thickness) parameter will be positive when the upper layer is more resistive than the underlying material, in which case the apparent depth may be quite close to the true depth.

The apparent depth will be negative when the upper layer is more conductive than the underlying material, and will be zero when a homogeneous half space exists. The apparent depth parameter must be interpreted cautiously because it will contain any errors which may exist in the measured altitude of the EM bird (e.g., as caused by a dense tree cover). The inputs to the resistivity algorithm are the inphase and quadrature components of the coplanar coil-pair. The outputs are the apparent resistivity of the conductive half space (the source) and the sensor-source distance. The flying height is not an input variable, and the output resistivity and sensor-source distance are independent of the flying height. The apparent depth, discussed above, is

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[1] Resistivity mapping with an airborne multicoil electromagnetic system: Geophysics, v. 43, p.144-172

simply the sensor-source distance minus the measured altitude or flying height. Consequently, errors in the measured altitude will affect the apparent depth parameter but not the apparent resistivity parameter.

The apparent depth parameter is a useful indicator of simple layering in areas lacking a heavy tree cover. The DIGHEM system has been flown for purposes of permafrost mapping, where positive apparent depths were used as a measure of permafrost thickness. However, little quantitative use has been made of negative apparent depths because the absolute value of the negative depth is not a measure of the thickness of the conductive upper layer and, therefore, is not meaningful physically. Qualitatively, a negative apparent depth estimate usually shows that the EM anomaly is caused by conductive overburden. Consequently, the apparent depth channel can be of significant help in distinguishing between overburden and bedrock conductors.

The resistivity map often yields more useful information on conductivity distributions than the EM map. In comparing the EM and resistivity maps, keep in mind the following:

(a) The resistivity map portrays the apparent value of the earth's resistivity, where resistivity = 1/conductivity.

(b) The EM map portrays anomalies in the earth's resistivity. An anomaly by definition is a change from the norm and so the EM map displays anomalies, (i)

over narrow, conductive bodies and (ii) over the boundary zone between two wide formations of differing conductivity.

The resistivity map might be likened to a total field map and the EM map to a horizontal gradient in the direction of flight[2]. Because gradient maps are usually more sensitive than total field maps, the EM map therefore is to be preferred in resistive areas. However, in conductive areas, the absolute character of the resistivity map usually causes it to be more useful than the EM map.

Interpretation in conductive environments

Environments having background resistivities below 30 ohm-m cause all airborne EM systems to yield very large responses from the conductive ground. This usually prohibits the recognition of discrete bedrock conductors. However, DIGHEM data processing techniques produce three parameters which contribute significantly to the recognition of bedrock conductors. These are the inphase and quadrature difference channels (DFI and DFQ), and the resistivity and depth channels (RES and DP) for each coplanar frequency.

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[2] The gradient analogy is only valid with regard to the identification of anomalous locations.

The EM difference channels (DFI and DFQ) eliminate most of the responses from conductive ground, leaving responses from bedrock conductors, cultural features (e.g., telephone lines, fences, etc.) and edge effects. Edge effects often occur near the perimeter of broad conductive zones. This can be a source of geologic noise. While edge effects yield anomalies on the EM difference channels, they do not produce resistivity anomalies. Consequently, the resistivity channel aids in eliminating anomalies due to edge effects. On the other hand, resistivity anomalies will coincide with the most highly conductive sections of conductive ground, and this is another source of geologic noise. The recognition of a bedrock conductor in a conductive environment therefore is based on the anomalous responses of the two difference channels (DFI and DFQ) and the resistivity channels (RES). The most favourable situation is where anomalies coincide on all channels.

The DP channels, which give the apparent depth to the conductive material, also help to determine whether a conductive response arises from surficial material or from a conductive zone in the bedrock. When these channels ride above the zero level on the digital profiles (i.e., depth is negative), it implies that the EM and resistivity profiles are responding primarily to a conductive upper layer, i.e., conductive overburden. If the DP channels are below the zero level, it indicates that a resistive upper layer exists, and this usually implies the existence of a bedrock conductor. If the low frequency DP channel is below the zero level and the high frequency DP is above, this suggests that a bedrock conductor occurs beneath conductive cover.

The conductance channel CDT identifies discrete conductors which have been selected by computer for appraisal by the geophysicist. Some of these automatically selected anomalies on channel CDT are discarded by the geophysicist. The automatic selection algorithm is intentionally oversensitive to assure that no meaningful responses are missed. The interpreter then classifies the anomalies according to their source and eliminates those that are not substantiated by the data, such as those arising from geologic or aerodynamic noise.

Reduction of geologic noise

Geologic noise refers to unwanted geophysical responses. For purposes of airborne EM surveying, geologic noise refers to EM responses caused by conductive overburden and magnetic permeability. It was mentioned previously that the EM difference channels (i.e., channel DFI for inphase and DFQ for quadrature) tend to eliminate the response of conductive overburden. This marked a unique development in airborne EM technology, as DIGHEM is the only EM system which yields channels having an exceptionally high degree of immunity to conductive overburden.

Magnetite produces a form of geological noise on the inphase channels of all EM systems. Rocks containing less than 1% magnetite can yield negative inphase anomalies caused by magnetic permeability. When magnetite is widely distributed throughout a survey area, the inphase EM channels may continuously rise and fall, reflecting variations in the magnetite percentage, flying height, and overburden thickness. This can lead to difficulties in recognizing

deeply buried bedrock conductors, particularly if conductive overburden also exists. However, the response of broadly distributed magnetite generally vanishes on the inphase difference channel DFI. This feature can be a significant aid in the recognition of conductors which occur in rocks containing accessory magnetite.

EM magnetite mapping

The information content of DIGHEM data consists of a combination of conductive eddy current responses and magnetic permeability responses. The secondary field resulting from conductive eddy current flow is frequency-dependent and consists of both inphase and quadrature components, which are positive in sign. On the other hand, the secondary field resulting from magnetic permeability is independent of frequency and consists of only an inphase component which is negative in sign. When magnetic permeability manifests itself by decreasing the measured amount of positive inphase, its presence may be difficult to recognize. However, when it manifests itself by yielding a negative inphase anomaly (e.g., in the absence of eddy current flow), its presence is assured. In this latter case, the negative component can be used to estimate the percent magnetite content.

A magnetite mapping technique was developed for the coplanar coil-pair of DIGHEM. The technique yields a channel (designated FEO) which displays apparent weight percent

magnetite according to a homogeneous half space model.[3] The method can be complementary to magnetometer mapping in certain cases. Compared to magnetometry, it is far less sensitive but is more able to resolve closely spaced magnetite zones, as well as providing an estimate of the amount of magnetite in the rock. The method is sensitive to 1/4% magnetite by weight when the EM sensor is at a height of 30 m above a magnetitic half space. It can individually resolve steep dipping narrow magnetite-rich bands which are separated by 60 m. Unlike magnetometry, the EM magnetite method is unaffected by remanent magnetism or magnetic latitude.

The EM magnetite mapping technique provides estimates of magnetite content which are usually correct within a factor of 2 when the magnetite is fairly uniformly distributed. EM magnetite maps can be generated when magnetic permeability is evident as negative inphase responses on the data profiles.

Like magnetometry, the EM magnetite method maps only bedrock features, provided that the overburden is characterized by a general lack of magnetite. This contrasts with resistivity mapping which portrays the combined effect of bedrock and overburden.

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[3] Refer to Fraser, 1981, Magnetite mapping with a multi-coil airborne electromagnetic system: Geophysics, v. 46, p. 1579-1594.

Recognition of culture

Cultural responses include all EM anomalies caused by man-made metallic objects. Such anomalies may be caused by inductive coupling or current gathering. The concern of the interpreter is to recognize when an EM response is due to culture. Points of consideration used by the interpreter, when coaxial and coplanar coil-pairs are operated at a common frequency, are as follows:

1. Channels CXP and CPP monitor 60 Hz radiation. An anomaly on these channels shows that the conductor is radiating power. Such an indication is normally a guarantee that the conductor is cultural. However, care must be taken to ensure that the conductor is not a geologic body which strikes across a power line, carrying leakage currents.

2. A flight which crosses a "line" (e.g., fence, telephone line, etc.) yields a center-peaked coaxial anomaly and an m-shaped coplanar anomaly.[4] When the flight crosses the cultural line at a high angle of intersection, the amplitude ratio of coaxial/coplanar response is 4. Such an EM anomaly can only be caused by a line. The geologic body which yields anomalies most closely resembling a line is the vertically dipping thin dike. Such a body, however, yields an amplitude ratio of 2 rather than 4. Consequently, an

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[4] See Figure 5-1 presented earlier.

m-shaped coplanar anomaly with a CXI/CPI amplitude ratio of 4 is virtually a guarantee that the source is a cultural line.

3. A flight which crosses a sphere or horizontal disk yields center-peaked coaxial and coplanar anomalies with a CXI/CPI amplitude ratio (i.e., coaxial/coplanar) of 1/4. In the absence of geologic bodies of this geometry, the most likely conductor is a metal roof or small fenced yard.[5] Anomalies of this type are virtually certain to be cultural if they occur in an area of culture.

4. A flight which crosses a horizontal rectangular body or wide ribbon yields an m-shaped coaxial anomaly and a center-peaked coplanar anomaly. In the absence of geologic bodies of this geometry, the most likely conductor is a large fenced area.[5] Anomalies of this type are virtually certain to be cultural if they occur in an area of culture.

5. EM anomalies which coincide with culture, as seen on the camera film or video display, are usually caused by culture. However, care is taken with such coincidences because a geologic conductor could occur beneath a fence, for example. In this example, the fence would be expected to yield an m-shaped coplanar anomaly as in case #2 above.

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[5] It is a characteristic of EM that geometrically similar anomalies are obtained from: (1) a planar conductor, and (2) a wire which forms a loop having dimensions identical to the perimeter of the equivalent planar conductor.

If, instead, a center-peaked coplanar anomaly occurred, there would be concern that a thick geologic conductor coincided with the cultural line.

6. The above description of anomaly shapes is valid when the culture is not conductively coupled to the environment. In this case, the anomalies arise from inductive coupling to the EM transmitter. However, when the environment is quite conductive (e.g., less than 100 ohm-m at 900 Hz), the cultural conductor may be conductively coupled to the environment. In this latter case, the anomaly shapes tend to be governed by current gathering. Current gathering can completely distort the anomaly shapes, thereby complicating the identification of cultural anomalies. In such circumstances, the interpreter can only rely on the radiation channels and on the camera film or video records.

MAGNETICS

The existence of a magnetic correlation with an EM anomaly is indicated directly on the EM map. In some geological environments, an EM anomaly with magnetic correlation has a greater likelihood of being produced by sulfides than one that is non-magnetic. However, sulfide ore bodies may be non-magnetic (e.g., the Kidd Creek deposit near Timmins, Canada) as well as magnetic (e.g., the Mattabi deposit near Sturgeon Lake, Canada).

The magnetometer data are digitally recorded in the aircraft to an accuracy of 0.01 nT for cesium magnetometers. The digital tape is processed by computer to yield a total field magnetic contour map. When warranted, the magnetic data may also be treated mathematically to enhance the magnetic response of the near-surface geology, and an enhanced magnetic contour map is then produced. The response of the enhancement operator in the frequency domain is illustrated in Figure 5-2. This figure shows that the passband components of the airborne data are amplified 20 times by the enhancement operator. This means, for example, that a 100 nT anomaly on the enhanced map reflects a 5 nT anomaly for the passband components of the airborne data.

The enhanced map, which bears a resemblance to a downward continuation map, is produced by the digital bandpass filtering of the total field data. The enhancement is equivalent to continuing the field downward to a level (above the source) which is 1/20th of the actual sensor-source distance.

Because the enhanced magnetic map bears a resemblance to a ground magnetic map, it simplifies the recognition of trends in the rock strata and the interpretation of geological structure. It defines the near-surface local geology while de-emphasizing deep-seated regional features. It primarily has application when the magnetic rock units are steeply dipping and the earth's field dips in excess of 60 degrees.

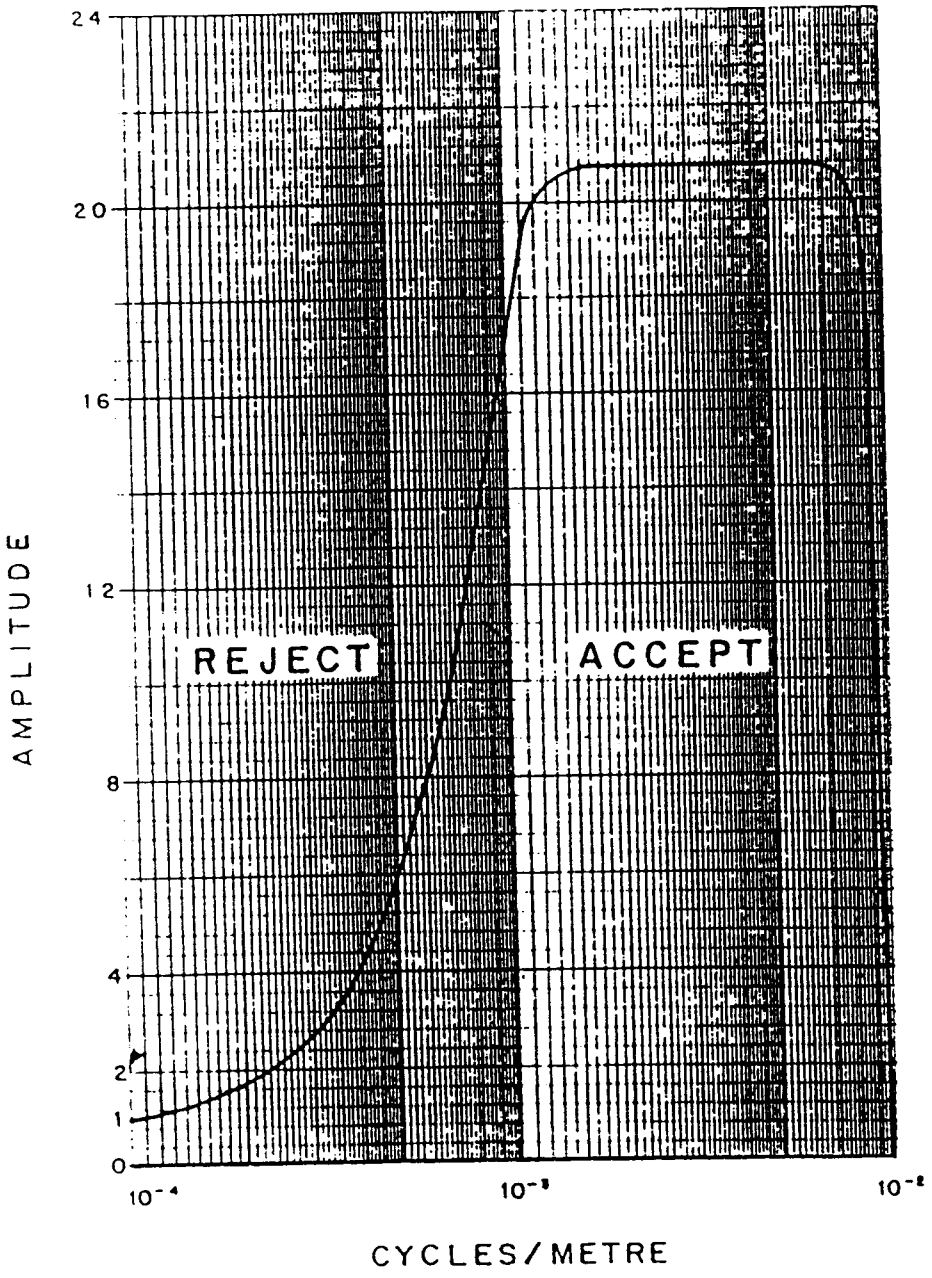


Fig. 5-2 Frequency response of magnetic enhancement operator.

Any of a number of filter operators may be applied to the magnetic data, to yield vertical derivatives, continuations, magnetic susceptibility, etc. These may be displayed in contour, colour or shadow.

VLF

VLF transmitters produce high frequency uniform electromagnetic fields. However, VLF anomalies are not EM anomalies in the conventional sense. EM anomalies primarily reflect eddy currents flowing in conductors which have been energized inductively by the primary field. In contrast, VLF anomalies primarily reflect current gathering, which is a non-inductive phenomenon. The primary field sets up currents which flow weakly in rock and overburden, and these tend to collect in low resistivity zones. Such zones may be due to massive sulfides, shears, river valleys and even unconformities.

The VLF field is horizontal. Because of this, the method is quite sensitive to the angle of coupling between the conductor and the transmitted VLF field. Conductors which strike towards the VLF station will usually yield a stronger response than conductors which are nearly orthogonal to it.

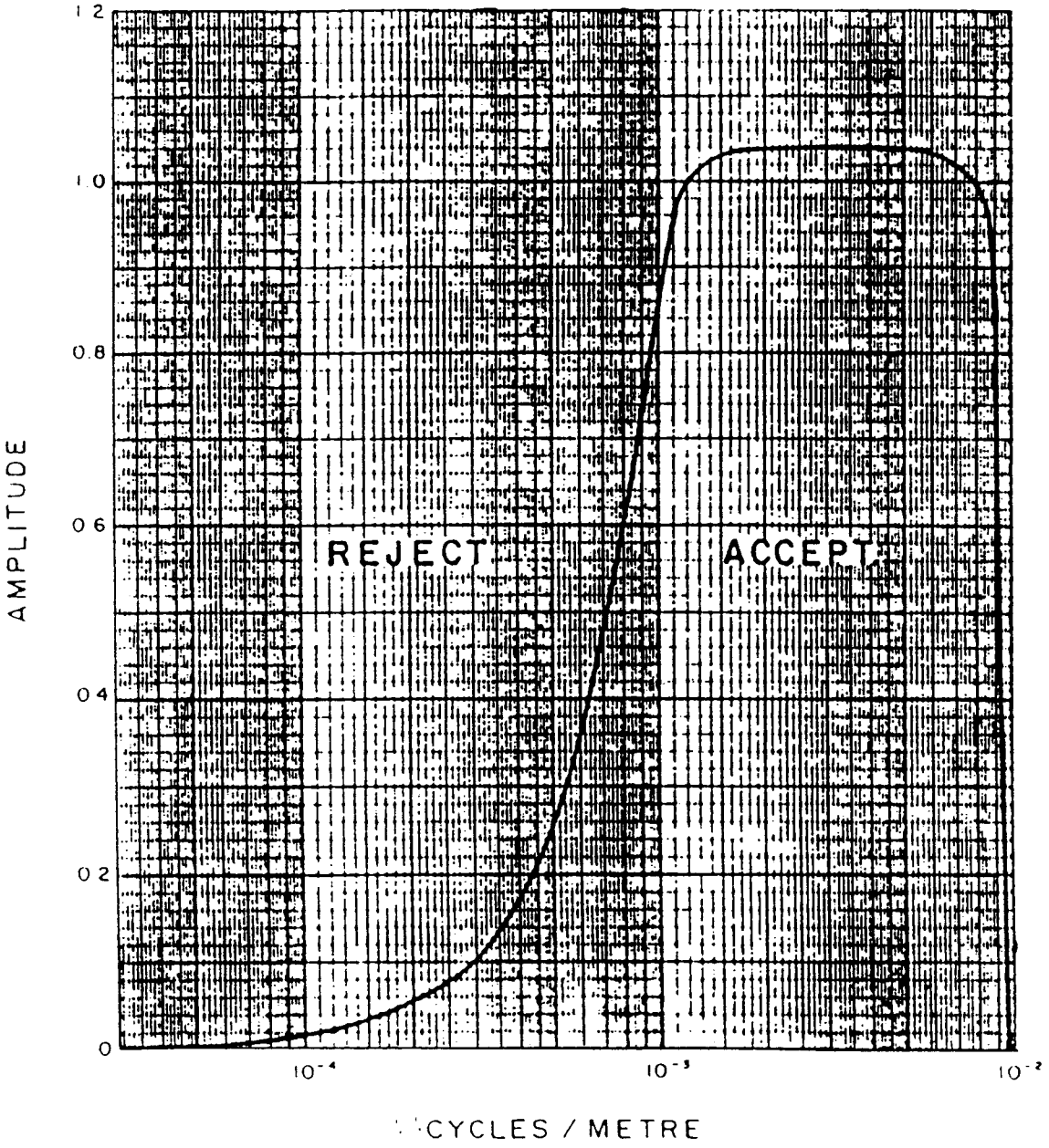


Fig. 5-3 Frequency response of VLF operator.

The Herz Industries Ltd. Totem VLF-electromagnetometer measures the total field and vertical quadrature components. Both of these components are digitally recorded in the aircraft with a sensitivity of 0.1 percent. The total field yields peaks over VLF current concentrations whereas the quadrature component tends to yield crossovers. Both appear as traces on the profile records. The total field data are filtered digitally and displayed as contours to facilitate the recognition of trends in the rock strata and the interpretation of geologic structure.

The response of the VLF total field filter operator in the frequency domain (Figure 5-3) is basically similar to that used to produce the enhanced magnetic map (Figure 5-2). The two filters are identical along the abscissa but different along the ordinant. The VLF filter removes long wavelengths such as those which reflect regional and wave transmission variations. The filter sharpens short wavelength responses such as those which reflect local geological variations.

CONCLUSIONS AND RECOMMENDATIONS

This report provides a very brief description of the survey results and describes the equipment, procedures and logistics of the survey.

The survey was successful in locating a few moderately weak or broad conductors which may warrant additional work. The underlying structure of the survey areas was revealed with the magnetic data. The various maps included with this report display the magnetic and conductive properties of the survey areas. It is recommended that the survey results be reviewed in detail, in conjunction with all available geophysical, geological and geochemical information. Particular reference should be made to the computer generated data profiles which clearly define the characteristics of the individual anomalies.

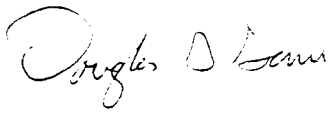
Most anomalies in the survey areas are moderately weak and poorly-defined except for the areas outlined by zones. Within these conductive zones the anomalies are generally very strong and well-defined. Some anomalies coincide with breaks in the magnetic data which may reflect faults or shears. Such structural breaks may be considered to be of particular interest if they have influenced mineral deposition within the survey area.

The interpreted bedrock conductors defined by the survey should be subjected to further investigation, using appropriate surface exploration techniques. Anomalies which are currently considered to be of moderately low priority may require upgrading if follow-up results are favourable.

It is also recommended that image processing of existing geophysical data be considered, in order to extract the maximum amount of information from the survey results. Current software and imaging techniques often provide valuable information on structure and lithology, which may not be clearly evident on the contour and colour maps. These techniques can yield images which define subtle, but significant, structural details.

Respectfully submitted,

DIGHEM



Douglas G. Garrie
Geophysicist

DGG/sdp

A1239MAR.96R

APPENDIX A

LIST OF PERSONNEL

The following personnel were involved in the acquisition, processing, interpretation and presentation of data, relating to a DIGHEM^{V} airborne geophysical survey carried out for Westmin Resources Limited, near Wolverine Lake, Yukon.

Chris Nind	Manager, Helicopter Geophysics
Greg Paleolog	Manager, Field Operations
Doug McConnell	Manager, Computer Production
Jordan Cronkwright	Geophysical Operator
John McGuire	Geophysical Operator
Mark Stephens	Field Dataman
Paul Kendall	Pilot (Hi-Wood Helicopters Ltd.)
Gordon Smith	Data Processing Supervisor
Theron Greenaway	Computer Processor
Douglas Garrie	Interpretation Geophysicist
Lyn Vanderstarren	Drafting Supervisor
Mike Armstrong	Draftsperson (CAD)
Susan Pothiah	Word Processing Operator
Albina Tonello	Secretary/Expeditor

The survey consisted of 3660 km of coverage, flown from November 3 to December 5, 1995.

All personnel are employees of Dighem, except for the pilot who is an employee of Hi-Wood Helicopters Ltd.

DIGHEM

Douglas G. Garrie
Geophysicist

DGG/sdp

A1239MAR.96R

APPENDIX B

STATEMENT OF COST

Date: March 29, 1996

IN ACCOUNT WITH DIGHEM

To: Dighem flying of Agreement dated September 27, 1995, pertaining to an Airborne Geophysical Survey in the Wolverine Lake area, Yukon.

Survey Charges

3365 km of flying @ $90.00/km
plus mobilization costs of
$5,000.00 $307,850.00

Allocation of Costs

- Data Acquisition	(60%)
- Data Processing	(20%)
- Interpretation, Report and Maps	(20%)

DIGHEM

Douglas G. Garrie
Geophysicist

DGG/sdp

A1239MAR.96R

APPENDIX C

EM ANOMALY LIST

1239 D WOLVERINE LAKE PROJECT B.C.

	COAXIAL 1047 HZ		COPLANAR 891 HZ		COPLANAR 7314 HZ		VERTICAL DIKE		HORIZONTAL SHEET		CONDUCTIVE EARTH		MAG CORR
ANOMALY/ FID/INTERP	REAL PPM	QUAD PPM	REAL PPM	QUAD PPM	REAL PPM	QUAD PPM	COND SIEMEN	DEPTH* M	COND SIEMEN	DEPTH M	RESIS OHM-M	DEPTH M	NT
LINE 40010	(FLIGHT 42)												
A 3538S?	0	2	0	2	2	4	-	-	-	-	-	-	0
B 3580S	1	2	1	2	2	4	-	-	-	-	-	-	0
C 3595S	0	4	0	8	6	43	0.4	4	1	64	791	0	0
LINE 40020	(FLIGHT 42)												
A 3846S	1	2	1	2	2	4	-	-	-	-	-	-	0
B 3735S	0	2	0	2	1	4	-	-	-	-	-	-	0
LINE 40030	(FLIGHT 42)												
A 3931S	0	2	1	2	2	4	-	-	-	-	-	-	0
B 3990S	0	2	1	2	2	4	-	-	-	-	-	-	0
C 4060S?	0	3	2	3	4	17	0.4	1	1	99	768	11	0
LINE 40040	(FLIGHT 50)												
A 1943S	0	2	0	2	2	4	-	-	-	-	-	-	0
B 2010S	0	6	0	10	9	54	0.4	8	1	57	714	2	0
LINE 40050	(FLIGHT 50)												
A 2168S?	0	2	0	2	2	4	-	-	-	-	-	-	0
LINE 40060	(FLIGHT 50)												
A 2294D	0	2	0	2	2	4	-	-	-	-	-	-	0
LINE 40080	(FLIGHT 50)												
A 2933S?	0	4	0	9	15	37	0.4	0	1	57	811	0	0
B 2931S?	0	4	0	8	14	37	0.4	0	1	50	767	0	0
C 2887S?	0	5	0	5	5	7	0.4	1	1	61	793	0	0
D 2829S	1	2	0	2	2	4	-	-	-	-	-	-	0
LINE 40120	(FLIGHT 50)												
A 3793S	0	2	0	2	2	4	-	-	-	-	-	-	0
LINE 40130	(FLIGHT 45)												
A 2201S	0	2	0	2	2	4	-	-	-	-	-	-	0
LINE 40141	(FLIGHT 45)												
A 1876S?	1	2	1	2	2	4	-	-	-	-	-	-	0
LINE 40160	(FLIGHT 45)												
A 1491S	0	2	0	2	2	4	-	-	-	-	-	-	0
LINE 40210	(FLIGHT 44)												
A 3250S	0	2	0	2	2	4	-	-	-	-	-	-	0

.* ESTIMATED DEPTH MAY BE UNRELIABLE BECAUSE THE STRONGER PART OF THE CONDUCTOR MAY BE DEEPER OR TO ONE SIDE OF THE FLIGHT LINE, OR BECAUSE OF A SHALLOW DIP OR OVERBURDEN EFFECTS.

1239 D WOLVERINE LAKE PROJECT B.C.

	COAXIAL 1047 HZ		COPLANAR 891 HZ		COPLANAR 7314 HZ		VERTICAL DIKE		HORIZONTAL SHEET		CONDUCTIVE EARTH		MAG CORR
ANOMALY/ FID/INTERP	REAL PPM	QUAD PPM	REAL PPM	QUAD PPM	REAL PPM	QUAD PPM	COND SIEMEN	DEPTH* M	COND SIEMEN	DEPTH M	RESIS OHM-M	DEPTH M	NT
LINE 40610	(FLIGHT 48)												
B 2390S	0	2	1	2	2	4	-	-	-	-	-	-	4
LINE 40620	(FLIGHT 48)												
A 2498D?	1	1	1	2	2	4	-	-	-	-	-	-	0
B 2462S	0	2	1	2	2	4	-	-	-	-	-	-	0
LINE 40630	(FLIGHT 48)												
A 2768D	4	5	2	6	14	14	3.8	25	1	89	899	0	0
LINE 40640	(FLIGHT 49)												
A 1091D	4	8	3	14	30	25	2.3	8	1	46	792	0	8
B 1088D	2	7	4	14	30	25	1.6	9	1	41	269	0	0
LINE 40650	(FLIGHT 49)												
A 1537D?	0	2	0	2	2	4	-	-	-	-	-	-	0
B 1541B	4	8	5	12	26	23	2.2	9	1	41	361	0	0
C 1544D	3	6	5	12	26	23	2.6	21	1	61	170	17	0
LINE 40660	(FLIGHT 49)												
A 1672B?	2	5	2	7	15	13	1.7	9	1	44	576	0	0
LINE 40670	(FLIGHT 49)												
A 1844S?	1	2	1	2	2	4	-	-	-	-	-	-	0
B 1872S?	0	2	1	2	2	4	-	-	-	-	-	-	0
LINE 40680	(FLIGHT 49)												
A 1989S	2	3	1	6	12	8	2.2	26	1	55	804	0	0
LINE 40690	(FLIGHT 49)												
A 2147S	0	2	0	2	2	4	-	-	-	-	-	-	0
B 2157S?	0	3	0	5	13	10	0.4	0	1	76	982	0	0
C 2184S	1	3	2	6	14	15	1.1	16	1	53	496	0	0
LINE 40700	(FLIGHT 49)												
A 2414S?	2	4	1	7	18	13	2.1	24	1	48	721	0	0
LINE 40710	(FLIGHT 49)												
A 2628B?	1	5	0	7	20	18	0.8	0	1	49	844	0	0
B 2655S	1	2	1	2	2	4	-	-	-	-	-	-	0
LINE 40720	(FLIGHT 49)												
A 2757S	1	4	0	6	17	23	1.1	15	1	61	870	0	0

.* ESTIMATED DEPTH MAY BE UNRELIABLE BECAUSE THE STRONGER PART OF THE CONDUCTOR MAY BE DEEPER OR TO ONE SIDE OF THE FLIGHT LINE, OR BECAUSE OF A SHALLOW DIP OR OVERBURDEN EFFECTS.

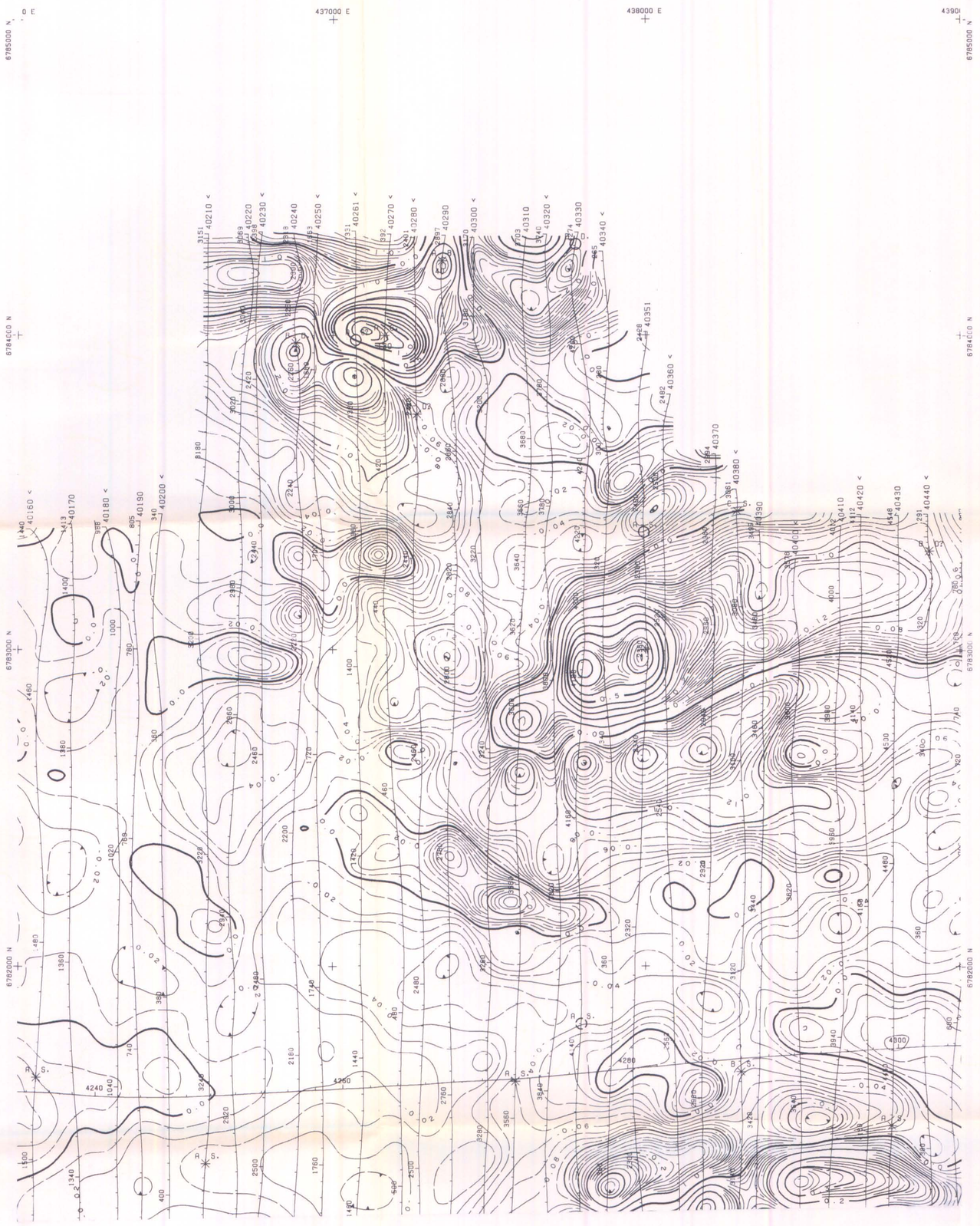
1239 D WOLVERINE LAKE PROJECT B.C.

	COAXIAL 1047 HZ		COPLANAR 891 HZ		COPLANAR 7314 HZ		VERTICAL DIKE		HORIZONTAL SHEET		CONDUCTIVE EARTH		MAG CORR
ANOMALY/ FID/INTERP	REAL PPM	QUAD PPM	REAL PPM	QUAD PPM	REAL PPM	QUAD PPM	COND SIEMEN	DEPTH* M	COND SIEMEN	DEPTH M	RESIS OHM-M	DEPTH M	NT
LINE 40720	(FLIGHT 49)												
B 2731S	3	4	3	7	9	12	4.2	13	1	60	242	7	0
LINE 40730	(FLIGHT 49)												
A 3036H	2	4	4	8	18	14	2.0	26	1	58	216	12	5
LINE 40740	(FLIGHT 49)												
A 3212S	0	5	0	4	10	29	0.3	0	1	47	537	16	0
LINE 40780	(FLIGHT 50)												
A 479S	2	3	0	3	5	11	3.3	44	1	112	1024	0	0
LINE 40800	(FLIGHT 50)												
A 839S	1	2	0	2	2	4	-	-	-	-	-	-	0
LINE 49020	(FLIGHT 50)												
A 1555B?	1	2	0	2	2	4	-	-	-	-	-	-	0

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APPENDIX J

OVERSIZE FIGURES



TECHNICAL SUMMARY

Navigation	Sercel differential GPS positioning
Data reduction grid interval	25 metres
Terrain clearance	Helicopter 60 m Electromagnetic sensor 30 m Magnetometer, VLF receiver 40 m
Data sampling interval	0.1 second
Magnetometer / sensitivity	Scintrex cesium / 0.01 nT
VLF receiver / sensitivity	Herz 2A / 1%
Electromagnetic system	DIGHEM^{v}

Frequency	Sensitivity	Coil Orientation
900 Hz	0.1 ppm	Vertical coaxial
5500 Hz	0.2 ppm	Vertical coaxial
900 Hz	0.1 ppm	Horizontal coplanar
7200 Hz	0.2 ppm	Horizontal coplanar
56000 Hz	0.5 ppm	Horizontal coplanar

ELECTROMAGNETIC ANOMALIES

Grade	Anomaly	Conductance
7	●	>100 siemens
6	◕	50–100 siemens
5	◕	20–50 siemens
4	◑	10–20 siemens
3	◑	5–10 siemens
2	○	1–5 siemens
1	○	< 1 siemens
–	✳	Questionable anomaly

Anomaly identifier

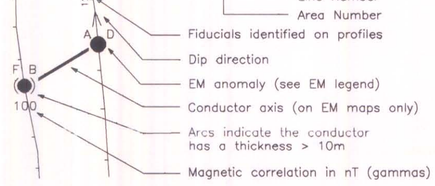
Interpretive symbol

Depth is greater than
: 15 m
: 30 m
: 45 m
: 60 m

Inphase and Quadrature of coaxial coil is greater than
. 5 ppm
.. 10 ppm
... 15 ppm
.... 20 ppm

Interpretive symbol	Conductor ("model")
B	Bedrock conductor
D	Narrow bedrock conductor ("thin dike")
S	Conductive cover ("horizontal thin sheet")
H	Broad conductive rock unit, deep conductive weathering, thick conductive cover ("half space")
E	Edge of broad conductor ("edge of half space")
L	Culture, e.g. power line, metal building or fence

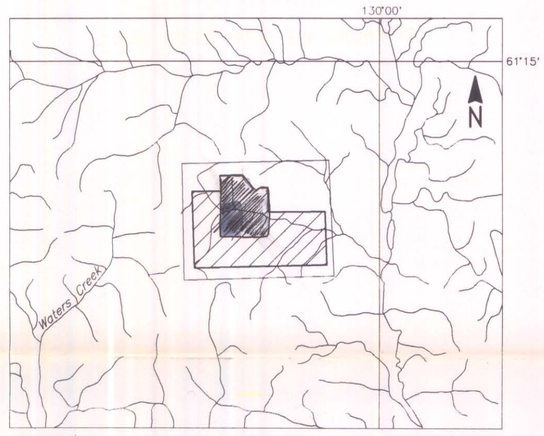
FLIGHT LINES WITH EM ANOMALIES



CALCULATED VERTICAL GRADIENT CONTOURS

———	0.5 nT/metre
———	0.1 nT/metre
———	0.02 nT/metre
— — — —	0.01 nT/metre

LOCATION MAP



NTS: 105G/1 UTM ZONE: 9 NAD27 SCALE: 1:250,000

WESTMIN RESOURCES LIMITED

TY [illegible] CLAIMS, YUKON

CALCULATED VERTICAL GRADIENT MAGNETICS

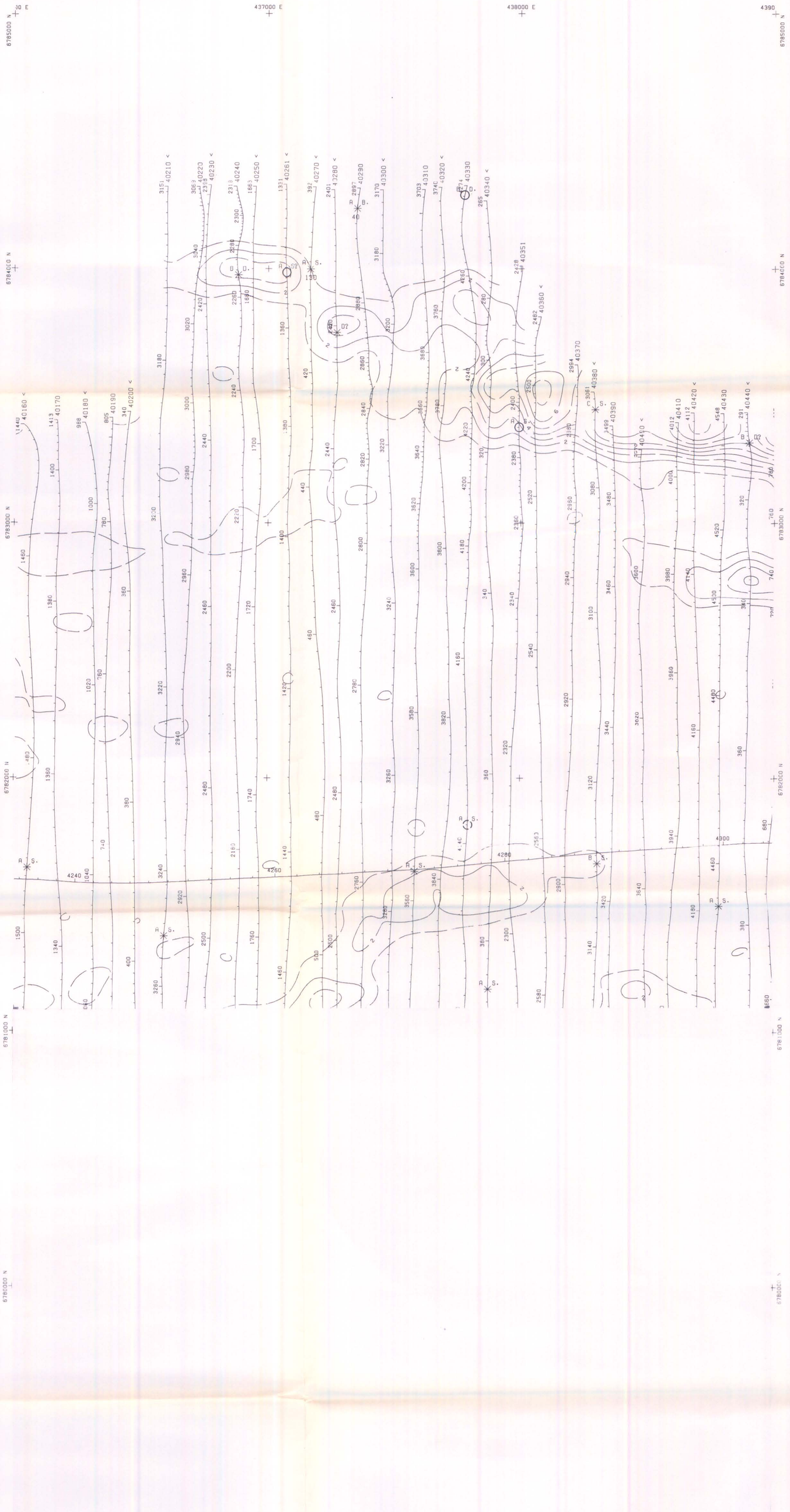
DIGHEM^{v} SURVEY	NTS: 105G/1	GEOPHYSICIST: [illegible]
DATE: DECEMBER, 1995	JOB: 1239	SHEET: 1

DIGHEM, A division of CGG Canada Ltd.

0 0.5 1.0 Km
0 0.5 Mi
Scale 1:10 000

DIGHEM
Quality and Service in Airborne Geophysics

093623



TECHNICAL SUMMARY

Navigation	Sercel differential GPS positioning
Data reduction grid interval	25 metres
Terrain clearance	Helicopter 60 m Electromagnetic sensor 30 m Magnetometer, VLF receiver 40 m
Data sampling interval	0.1 second
Magnetometer / sensitivity	Scintrex cesium / 0.01 nT
VLF receiver / sensitivity	Herz 2A / 1%
Electromagnetic system	DIGHEM^V

Frequency	Sensitivity	Coil Orientation
900 Hz	0.1 ppm	Vertical coaxial
5500 Hz	0.2 ppm	Vertical coaxial
900 Hz	0.1 ppm	Horizontal coplanar
7200 Hz	0.2 ppm	Horizontal coplanar
56000 Hz	0.5 ppm	Horizontal coplanar

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7	●	>100 siemens
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5	◑	20–50 siemens
4	◔	10–20 siemens
3	◐	5–10 siemens
2	○	1–5 siemens
1	○	< 1 siemens
–	✳	Questionable anomaly

Anomaly identifier

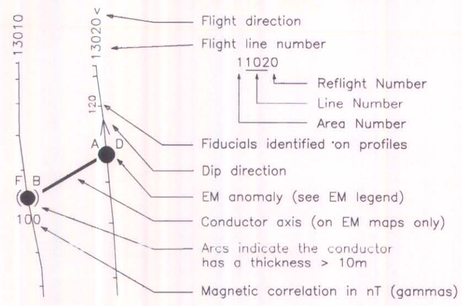
Interpretive symbol

Depth is greater than
- 15 m
- 30 m
- 45 m
- 60 m

Inphase and Quadrature of coaxial coil is greater than
- 5 ppm
- 10 ppm
- 15 ppm
- 20 ppm

Interpretive symbol	Conductor ("model")
B	Bedrock conductor
D	Narrow bedrock conductor ("thin dike")
S	Conductive cover ("horizontal thin sheet")
H	Broad conductive rock unit, deep conductive weathering, thick conductive cover ("half space")
E	Edge of broad conductor ("edge of half space")
L	Culture, e.g. power line, metal building or fence

FLIGHT LINES WITH EM ANOMALIES



VLF CONTOURS

Contours in percent

10

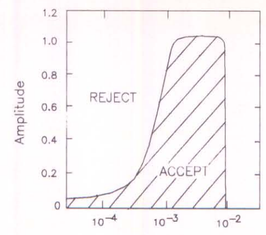
2

1

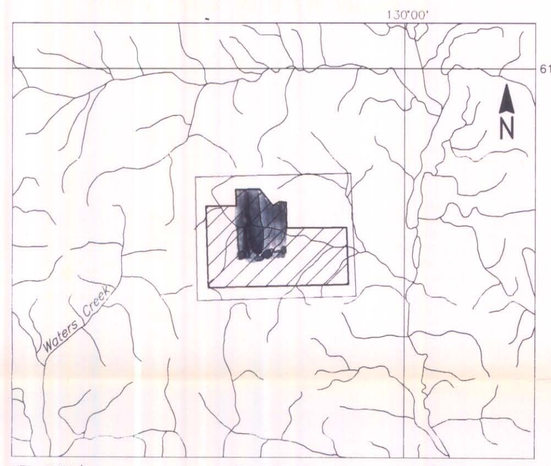
STATION

NAA Cutler (Maine.) – 24.0 kHz

Frequency response of VLF–EM filter



LOCATION MAP



NTS: 105G/1 UTM ZONE: 9 NAD27 SCALE: 1:250,000

WESTMIN RESOURCES LIMITED
TY CLAIMS, YUKON

FILTERED VLF

DIGHEM^V SURVEY	NTS: 105G/1	GEOPHYSICIST:
DATE: DECEMBER, 1995	JOB: 1239	SHEET: 1

DIGHEM, A division of CGG Canada Ltd.

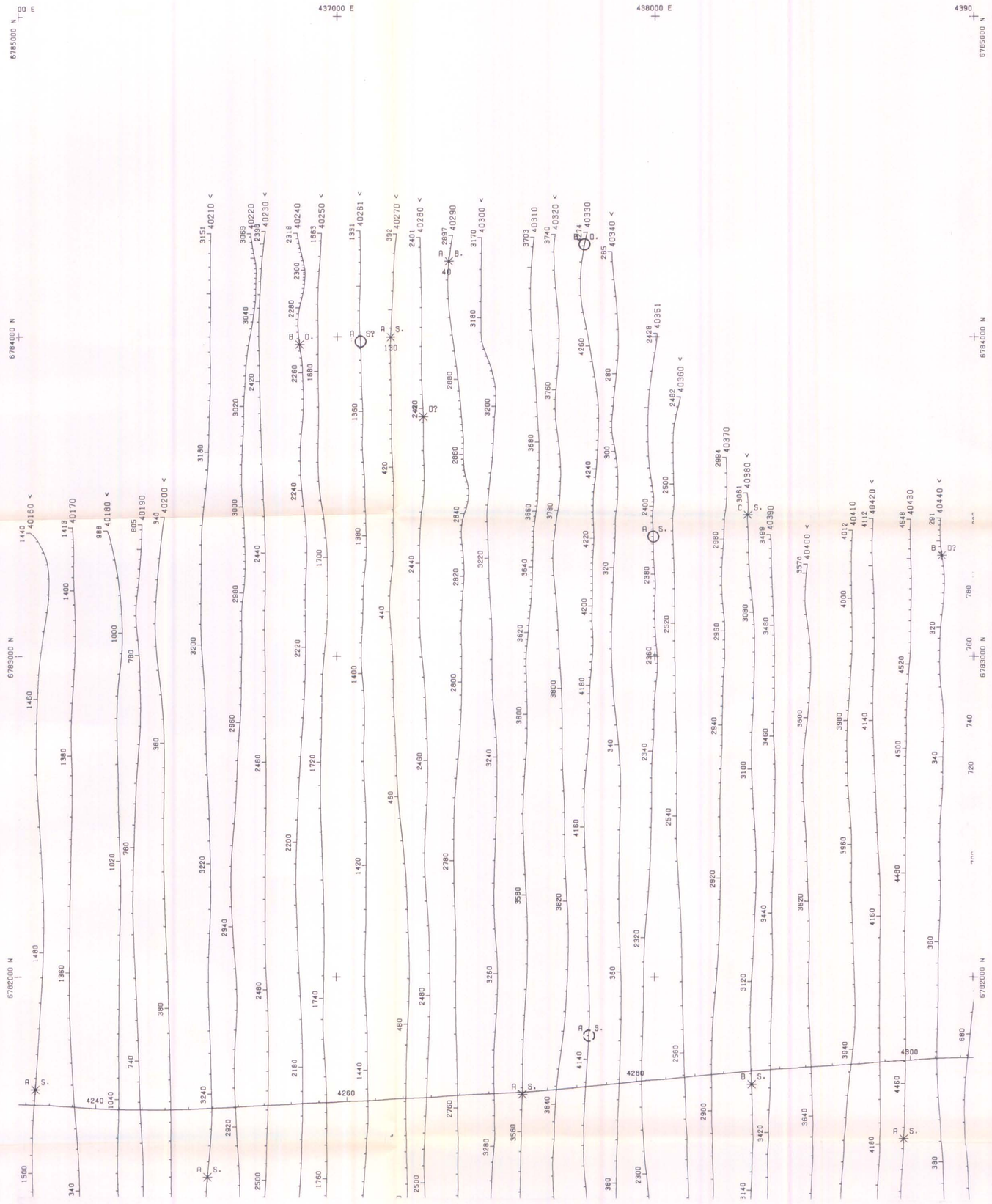
0 0.5 1.0 Km

0 0.5 Mi

Scale 1:10 000

DIGHEM
Quality and Service in Airborne Geophysics

093623



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2	○	1–5 siemens
1	◌	< 1 siemens
–	✳	Questionable anomaly

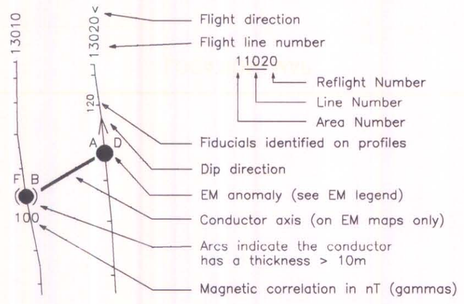
Anomaly identifier — Interpretive symbol

Depth is greater than
- 15 m
- 30 m
- 45 m
- 60 m

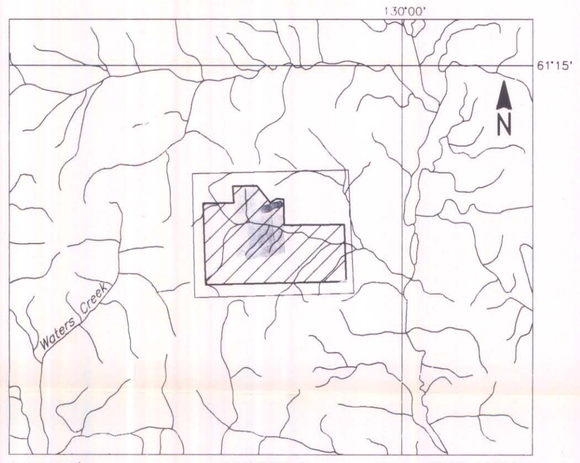
Inphase and Quadrature of coaxial coil is greater than
- . 5 ppm
- .. 10 ppm
- ... 15 ppm
- .... 20 ppm

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B	Bedrock conductor
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FLIGHT LINES WITH EM ANOMALIES



LOCATION MAP



NTS: 105G/1 UTM ZONE: 9 NAD27 SCALE: 1:250,000

WESTMIN RESOURCES LIMITED

TY \ CLAIMS, YUKON

ELECTROMAGNETIC ANOMALIES

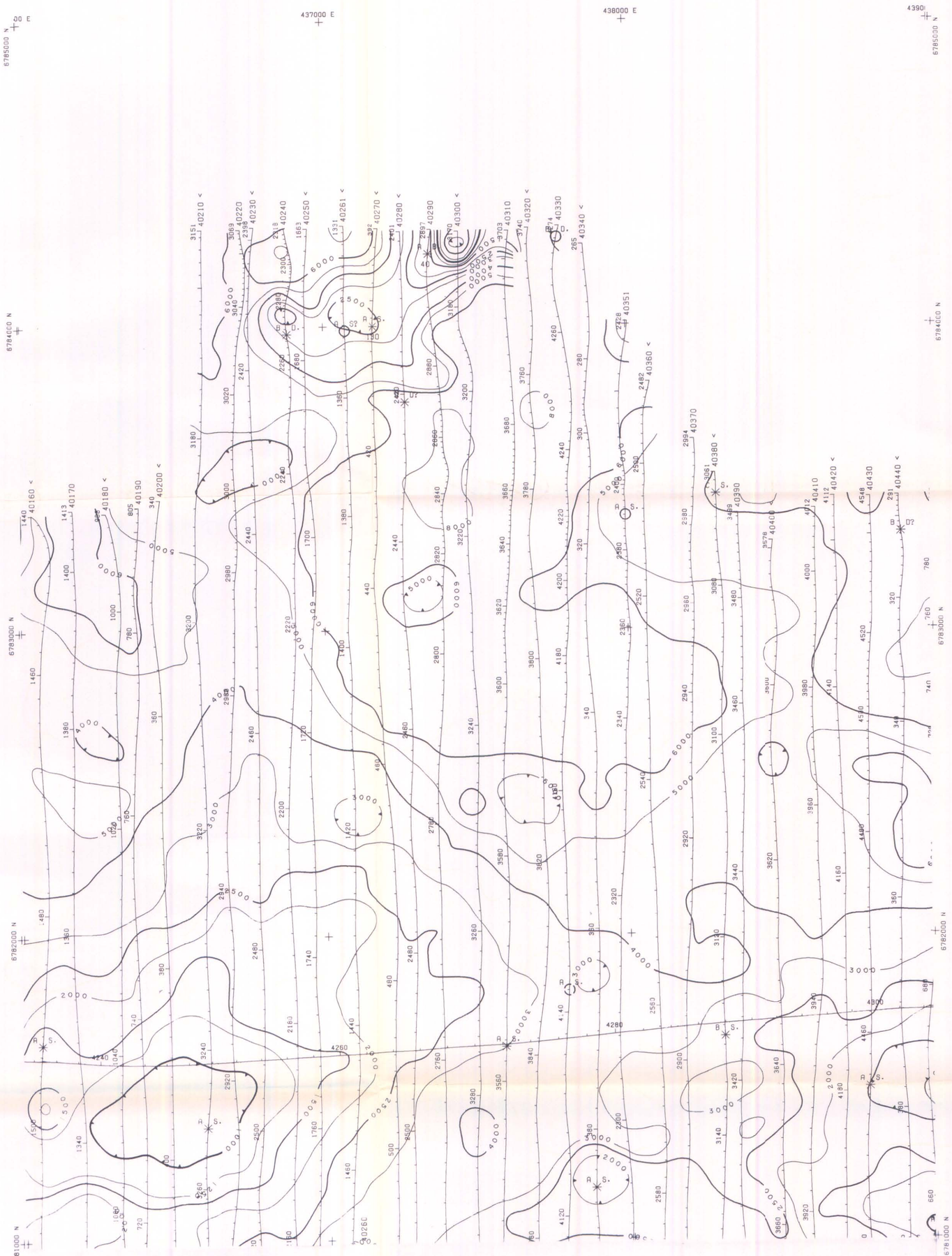
DIGHEM^V SURVEY	NTS: 105G/1	GEOPHYSICIST: DG
DATE: DECEMBER, 1995	JOB: 1239	SHEET: 1

DIGHEM, A division of CGG Canada Ltd.

0 0.5 1.0 Km
0 0.5 Mi
Scale 1:10 000

DIGHEM
Quality and Service in Airborne Geophysics

093623



TECHNICAL SUMMARY

Navigation	Sercel differential GPS positioning
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Terrain clearance	Helicopter 60 m Electromagnetic sensor 30 m Magnetometer, VLF receiver 40 m
Data sampling interval	0.1 second
Magnetometer / sensitivity	Scintrex cesium / 0.01 nT
VLF receiver / sensitivity	Herz 2A / 1%
Electromagnetic system	DIGHEM^V

Frequency	Sensitivity	Coil Orientation
900 Hz	0.1 ppm	Vertical coaxial
5500 Hz	0.2 ppm	Vertical coaxial
900 Hz	0.1 ppm	Horizontal coplanar
7200 Hz	0.2 ppm	Horizontal coplanar
56000 Hz	0.5 ppm	Horizontal coplanar

ELECTROMAGNETIC ANOMALIES

Grade	Anomaly	Conductance
7	●	>100 siemens
6	◕	50–100 siemens
5	◑	20–50 siemens
4	◔	10–20 siemens
3	⊕	5–10 siemens
2	○	1–5 siemens
1	◌	< 1 siemens
–	✳	Questionable anomaly

Anomaly identifier

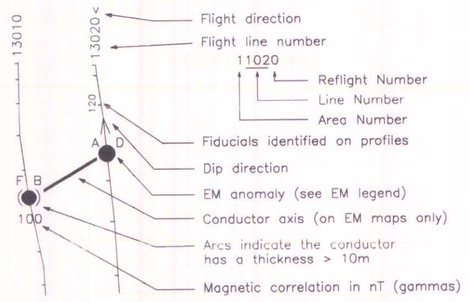
Interpretive symbol

Depth is greater than
- . 15 m
- : 30 m
- ⋮ 45 m
- ⋮ 60 m

Inphase and Quadrature of coaxial coil is greater than
- . 5 ppm
- .. 10 ppm
- ... 15 ppm
- .... 20 ppm

Interpretive symbol	Conductor ("model")
B	Bedrock conductor
D	Narrow bedrock conductor ("thin dike")
S	Conductive cover ("horizontal thin sheet")
H	Broad conductive rock unit, deep conductive weathering, thick conductive cover ("half space")
E	Edge of broad conductor ("edge of half space")
L	Culture, e.g. power line, metal building or fence

FLIGHT LINES WITH EM ANOMALIES

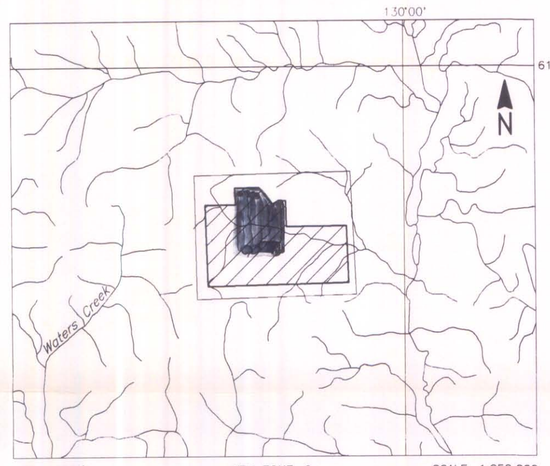


RESISTIVITY CONTOURS

1000
800
600
500
400
300
250
200
150
125
100

Contours in ohm–m at 10 intervals per decade

LOCATION MAP



NTS: 105G/1 UTM ZONE: 9 NAD27 SCALE: 1:250,000

WESTMIN RESOURCES LIMITED

TY CLAIMS, YUKON

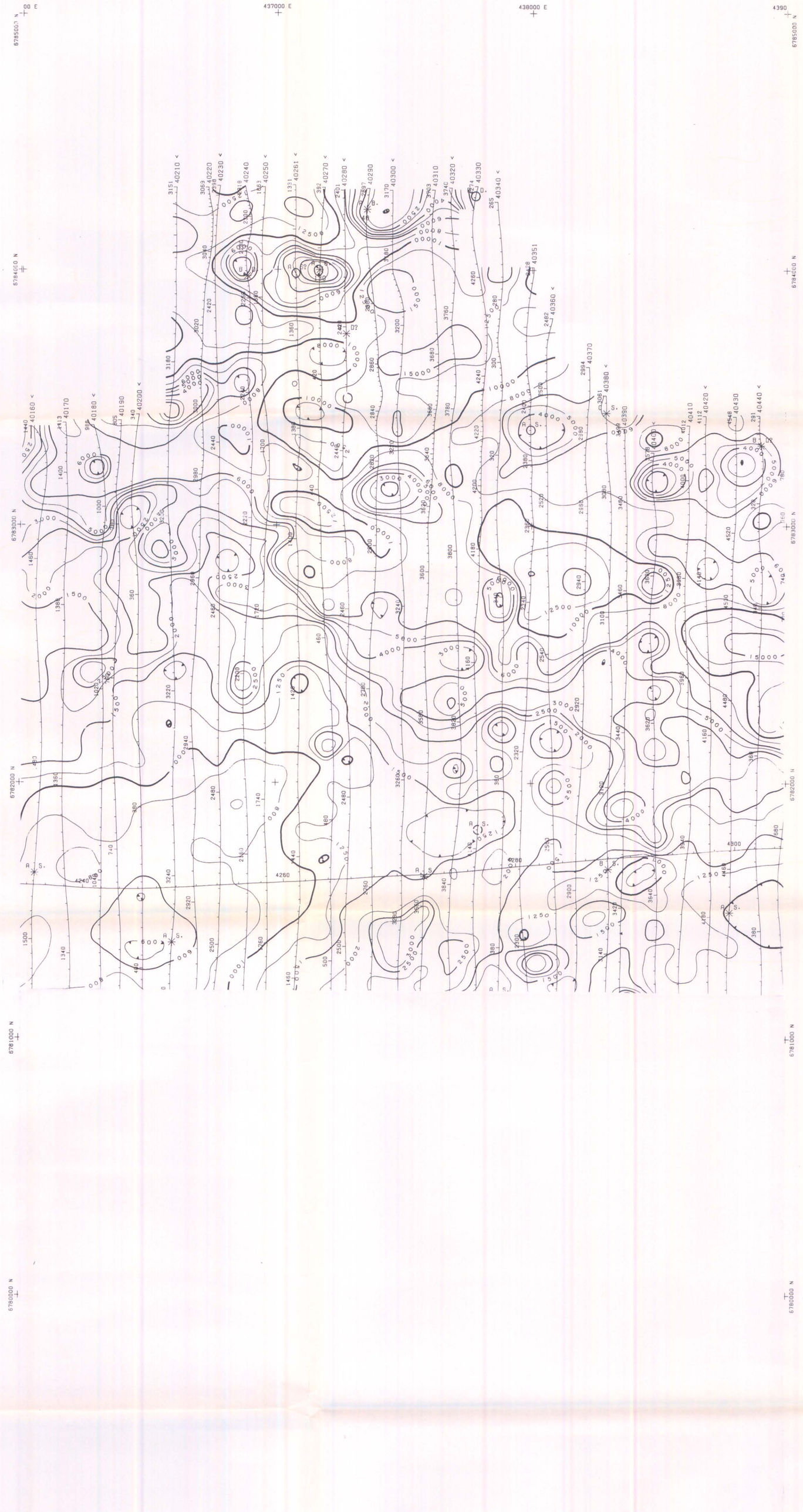
RESISTIVITY
7200 Hz COPLANAR

DIGHEM^V SURVEY	NTS: 105G/1	GEOPHYSICIST:
DATE: DECEMBER, 1995	JOB: 1239	SHEET: 1
DIGHEM, A division of CGG Canada Ltd.		

0 0.5 1.0 Km
0 0.5 Mi
Scale 1:10 000

DIGHEM
Quality and Service in Airborne Geophysics

093623



TECHNICAL SUMMARY

Navigation	Sercel differential GPS positioning
Data reduction grid interval	25 metres
Terrain clearance	Helicopter 60 m Electromagnetic sensor 30 m Magnetometer, VLF receiver 40 m
Data sampling interval	0.1 second
Magnetometer / sensitivity	Scintrex cesium / 0.01 nT
VLF receiver / sensitivity	Herz 2A / 1%
Electromagnetic system	DIGHEM^V

Frequency	Sensitivity	Coil Orientation
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ELECTROMAGNETIC ANOMALIES

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3	⊕	5–10 siemens
2	○	1–5 siemens
1	◌	< 1 siemens
–	✳	Questionable anomaly

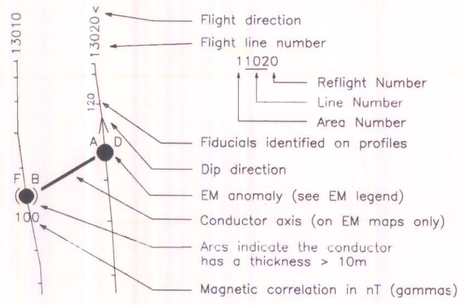
Anomaly identifier; Interpretive symbol

Depth is greater than
- . 15 m
- : 30 m
- ⁝ 45 m
- ⁞ 60 m

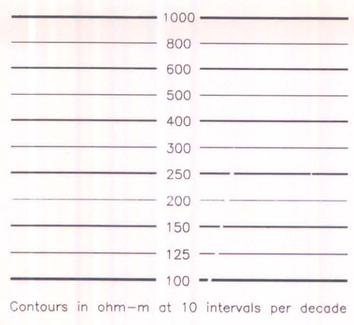
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FLIGHT LINES WITH EM ANOMALIES

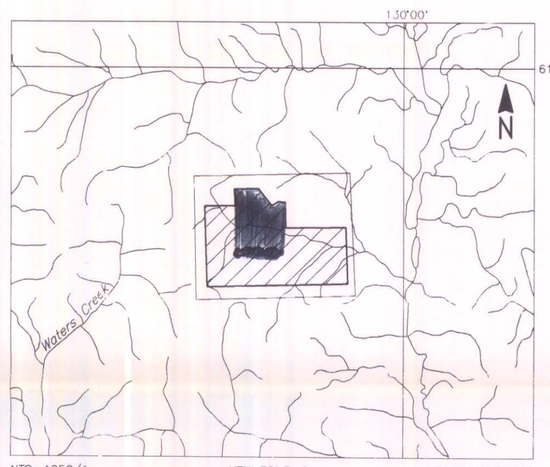


RESISTIVITY CONTOURS



Contours in ohm–m at 10 intervals per decade

LOCATION MAP



WESTMIN RESOURCES LIMITED

TY CLAIMS, YUKON

RESISTIVITY
56,000 Hz COPLANAR

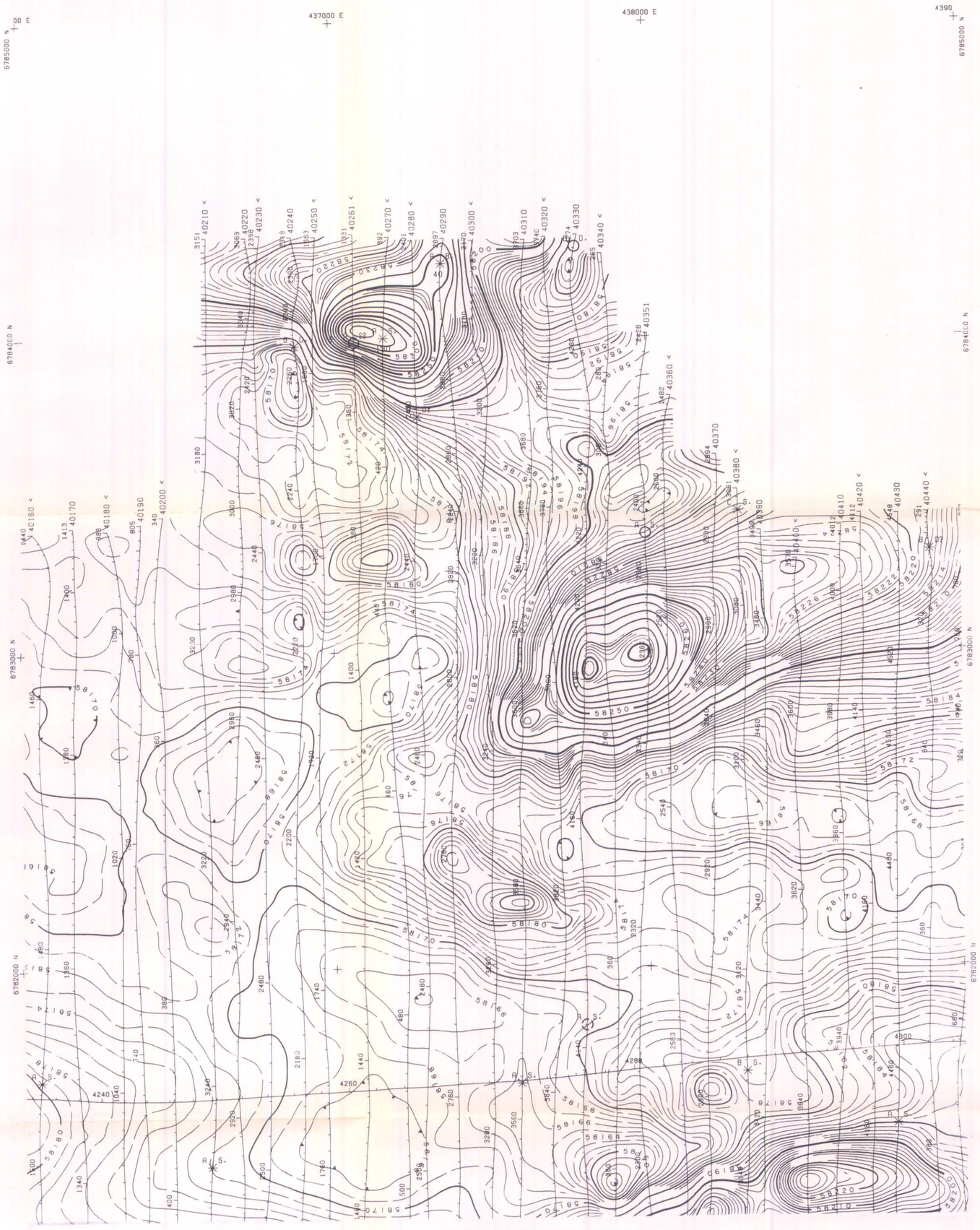
DIGHEM^V SURVEY	NTS: 105G/1	GEOPHYSICIST: DG
DATE: DECEMBER, 1995	JOB: 1239	SHEET: 1

DIGHEM, A division of CGG Canada Ltd.

0 0.5 1.0 Km
0 0.5 Mi
Scale 1:10 000

DIGHEM
Quality and Service in Airborne Geophysics

093623



TECHNICAL SUMMARY

Navigation	Sercel differential GPS positioning
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7200 Hz	0.2 ppm	Horizontal coplanar
56000 Hz	0.5 ppm	Horizontal coplanar

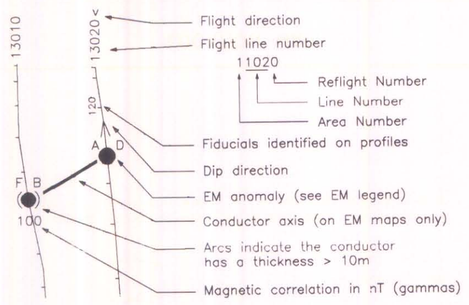
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Grade	Anomaly	Conductance
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4	◔	10–20 siemens
3	⊕	5–10 siemens
2	○	1–5 siemens
1	◌	< 1 siemens
–	✳	Questionable anomaly

Anomaly identifier; Interpretive symbol; Depth is greater than: . 15 m, : 30 m, :: 45 m, ::: 60 m; Inphase and Quadrature of coaxial coil is greater than: . 5 ppm, .. 10 ppm, ... 15 ppm, ... 20 ppm

Interpretive symbol	Conductor ("model")
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E	Edge of broad conductor ("edge of half space")
L	Culture, e.g. power line, metal building or fence

FLIGHT LINES WITH EM ANOMALIES



TOTAL FIELD MAGNETIC CONTOURS

50 nT

10 nT

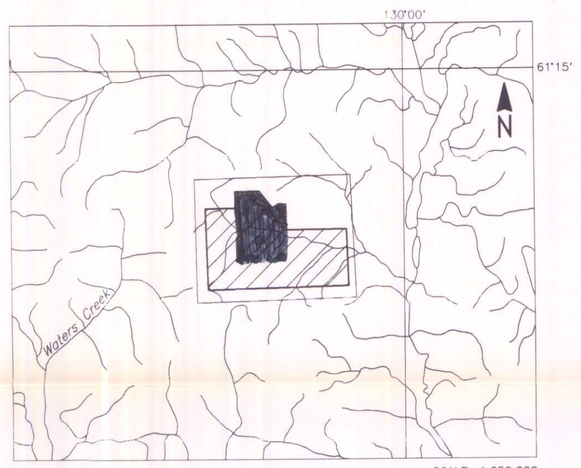
2 nT

1 nT

magnetic low

Magnetic inclination within the survey area: 78 degrees N
Magnetic declination within the survey area: 29 degrees E

LOCATION MAP



WESTMIN RESOURCES LIMITED
TY CLAIMS, YUKON

TOTAL FIELD MAGNETICS

DIGHEM^{v} SURVEY	NTS: 105G/1	GEOPHYSICIST:
DATE: DECEMBER, 1995	JOB: 1239	SHEET: 1

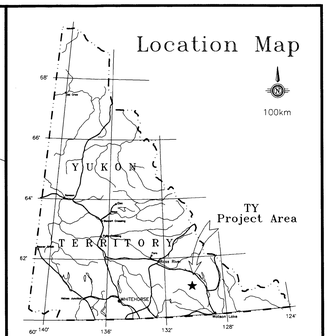
DIGHEM, A division of CGG Canada Ltd.

0 0.5 1.0 Km
0 0.5 Mi
Scale 1:10 000

DIGHEM
Quality and Service in Airborne Geophysics

093623

Location Map



UTM GRID NORTH

(True North is approximately 1° East of Grid North)

Magnetic Declination ~ 30° 18' (1996)

LEGEND

- Westmin / Pacific Bay Minerals TY Claim Joint Venture Area
- Westmin Claim Block Outlines (WIKA and YT Claims)
- TY-96-02 — Drill Hole with Identifier
- Grid Lines – (cut)
- Creeks
- Lakes
- 1600 — Topographic Contours (100m contour interval)

Symbols

- Lithological Contact (Inferred)
- Iron Formation
- Fault Contact (Inferred)
- Outcrop
- Talus, Float
- Bedding
- Foliation
- Lineation
- Fold Axis
- Joint

Intrusive Rocks

UM	Ultramafic
DN	Dunite
GB	Gabbro
DI	Diorite
SY	Syenite
MZ	Monzonite
GD	Granodiorite
G	Granite

Volcanic Rocks

B	Basalt
A	Andesite
D	Dacite
RD	Rhyodacite
R	Rhyolite
MFCT	Calcareous mafic tuff

Mineral Prefixes

q	quartz
qe	quartz–eye
s	sericite
c	chlorite
m	muscovite
b	biotite
gr	graphite
f	feldspar
serp	serpentine
cr	carbonaceous
cc	calcite
K–fel	potassium feldspar

Volcanic Modifiers

f	flow
t	tuff
xt	crystal tuff
lt	lapilli tuff
dt	dust tuff
bx	breccia
tbx	tuff breccia
amyg	amygdaloidal
aph	aphyric

Textural and Descriptive Terms

lam/d	laminated
cren/dcrenulated	
dissd	disseminated
goss	gossanous
no o/c	no outcrop
fg	fine–grained
mg	medium–grained
cg	coarse–grained

Sedimentary Rocks

CONG	Conglomerate
GRT	Grit
SS	Sandstone
AR	Arenite
GWKE	Greywacke
SH	Shale
MS	Mudstone
ARG	Argillite
ARSI	Siliceous Argillite
J	Jasper
CH	Chert
LS	Limestone

Metamorphic Rocks

PH	Phyllite
S	Schist
GN	Gneiss
QTZ	Quartzite

Volcanic/Intrusive Modifiers

P	Porphyry

Mineralization

po	pyrrhotite
py	pyrite
cp	chalcopyrite
sp	sphalerite
gl	galena
az	azurite
ml	malachite
hm	hematite
mt	magnetite
rd	rhodonite
rc	rhodochrosite
Ba	Barite
Baex	Barite exhalite
Qex	Quartz exhalite
Mnox	Manganese oxide
EXMT	Iron Formation

Colours

gy	grey
bk	black
gn	green
bn	brown
bf	buff
dk	dark–colored

WESTMIN RESOURCES LIMITED
Pacific Bay Minerals Limited

Work By	D. Terry
Date Drafted	Oct. 25, 1996
Drafted By	A.T. & J.K.
Date Revised	Jan. 9, 1997
Revised By	J.K.
N.T.S. Number	105 G/1
File Name	TY_CHEM.DWG

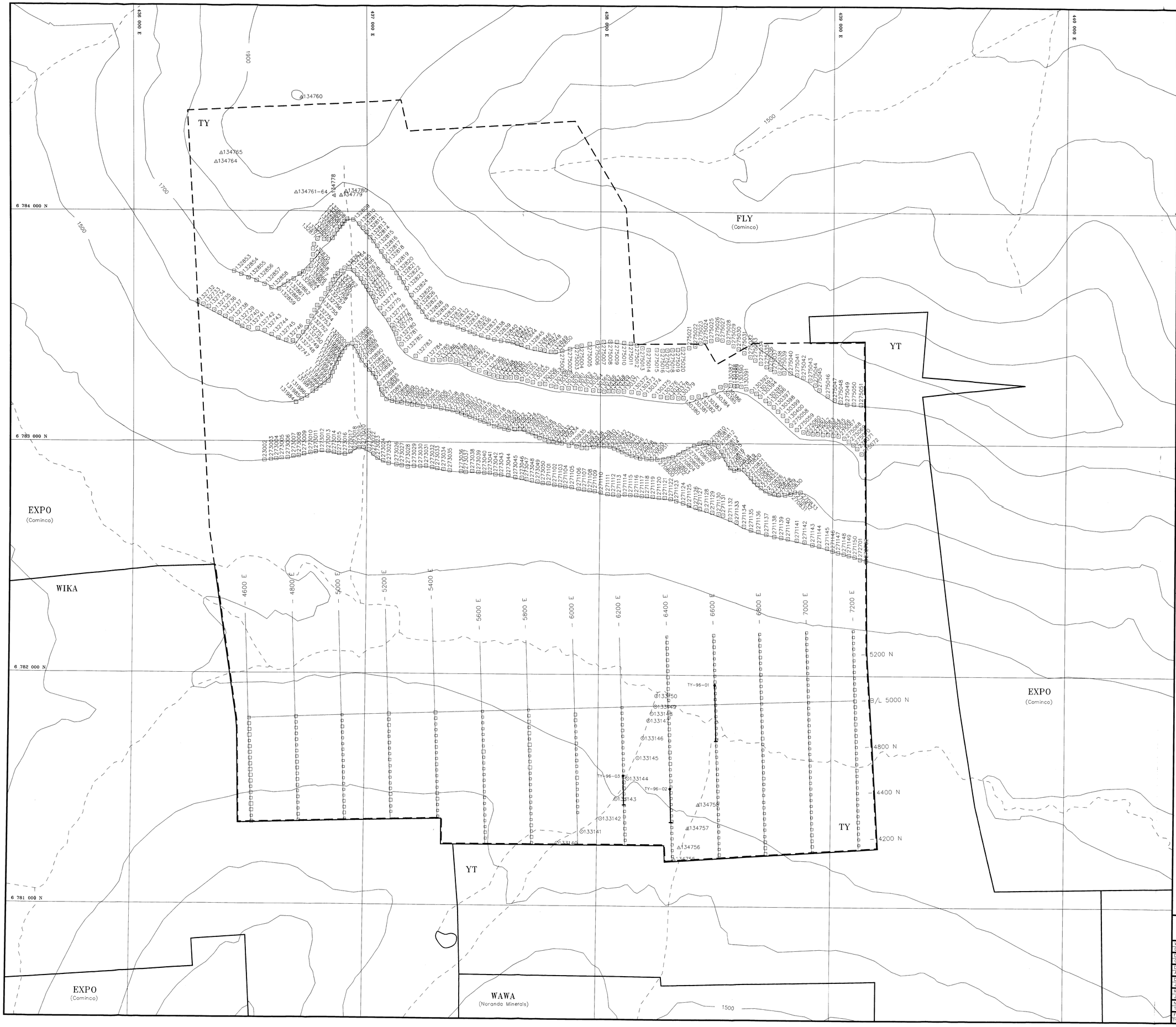
TY Property

Geology Map

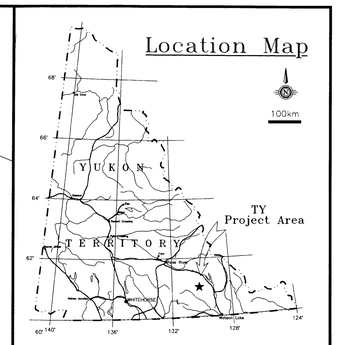
093623

SCALE 1 : 5,000

Figure 4.0



Location Map



UTM GRID NORTH

(True North is approximately 1° East of Grid North)

Magnetic Declination ~ 30° 18' (1996)

LEGEND

- Westmin / Pacific Bay Minerals TY Claim Joint Venture Area
- Westmin Claim Block Outlines (WIKA and YT Claims)
- TY-96-02 — Drill Hole with Identifier
- Grid Lines – (cut)
- Creeks
- Lakes
- 1600 — Topographic Contours (100m contour interval)

△134756 **Rock sample**

□270824 **Soil sample**

⊙133142 **Silt sample**

WESTMIN RESOURCES LIMITED
Pacific Bay Minerals Limited

Work By	D. Terry
Date Drafted	Oct. 25, 1996
Drafted By	A.T. & J.K.
Date Revised	Jan 9, 1997
Revised By	J.K.
N.T.S. Number	105 G/1
File Name	TY_CHEM.DWG

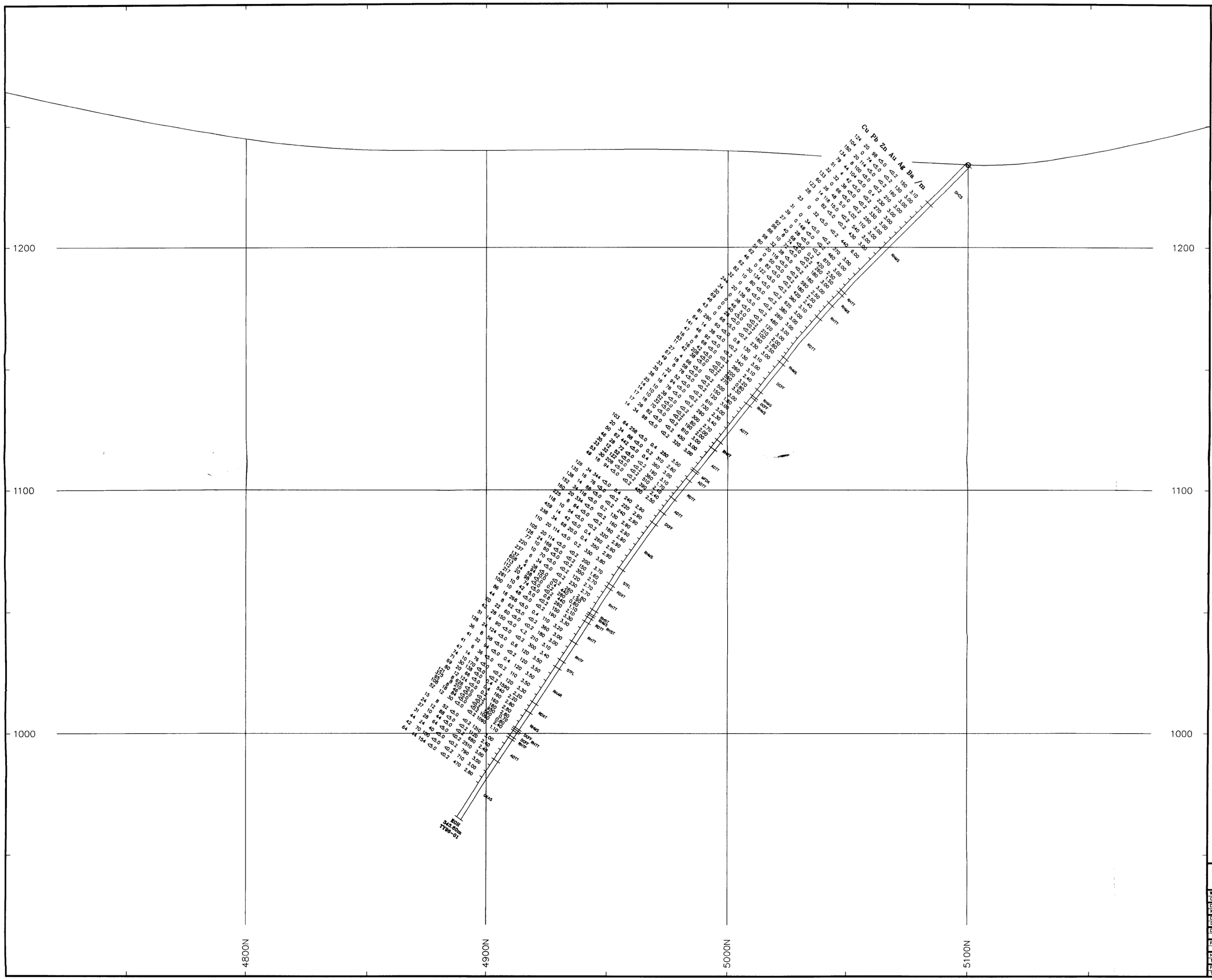
TY Property

Sample Location Map

093623

100 0 100 200 300m
SCALE 1 : 5,000

Figure 5



LEGEND

PLUTONIC OR HYPABYSSAL INTRUSIVES

DIOR "DIORITE"
MFDK "MAFIC DIKE"
QFPH "QUARTZ FELDSPAR PORPHYRY"
QKAS "QUARTZ K-SPAR AUGEN SCHIST"

STRUCTURAL ELEMENTS

STFL "FAULT"
STGG "FAULT GOUGE"
STFB "FAULT BRECCIA"

VEINS AND SULPHIDE ASSEMBLAGES

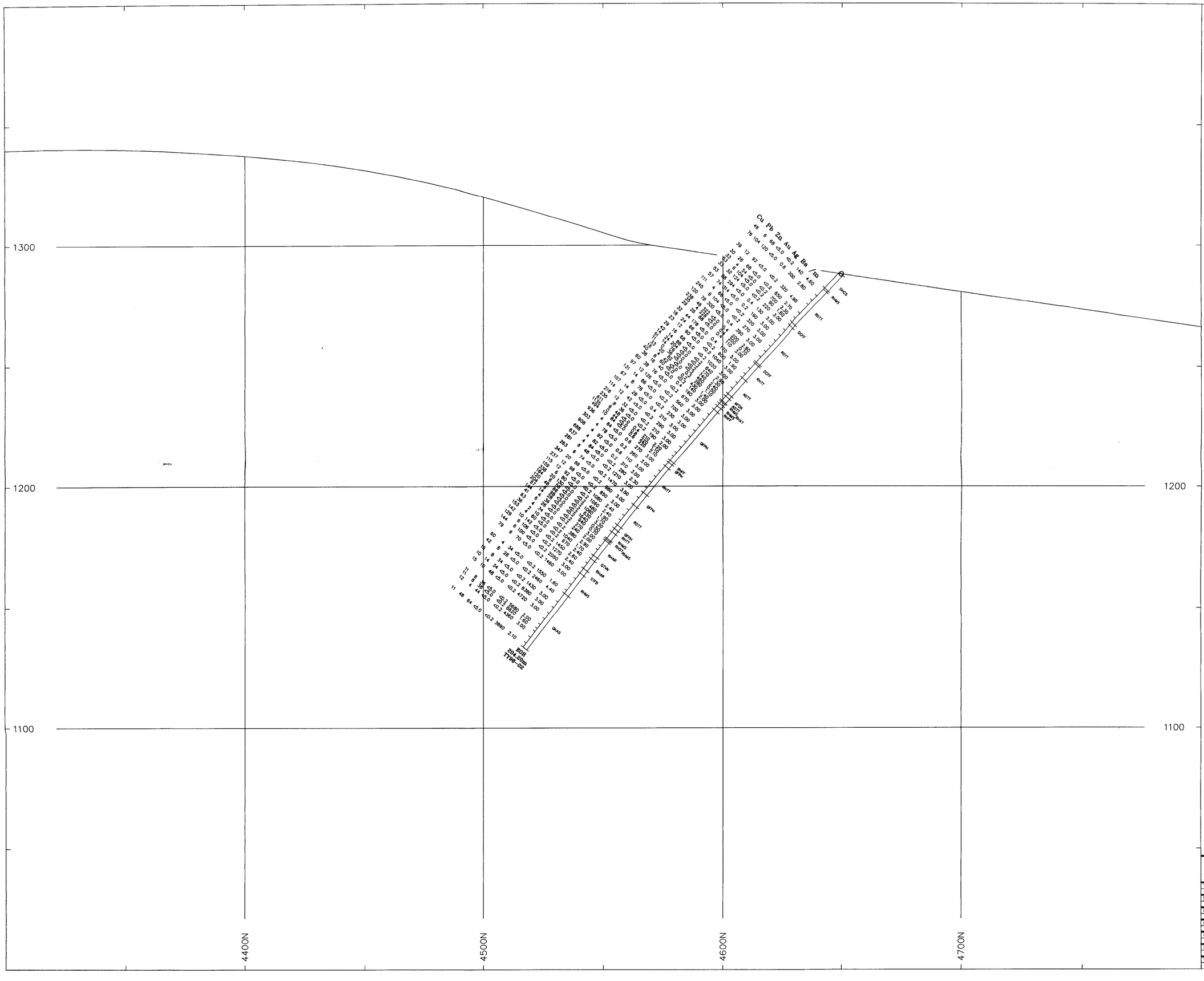
PYMS "MASSIVE SULPHIDE (PYRITE RICH)"
QTVN "QUARTZ VEIN"

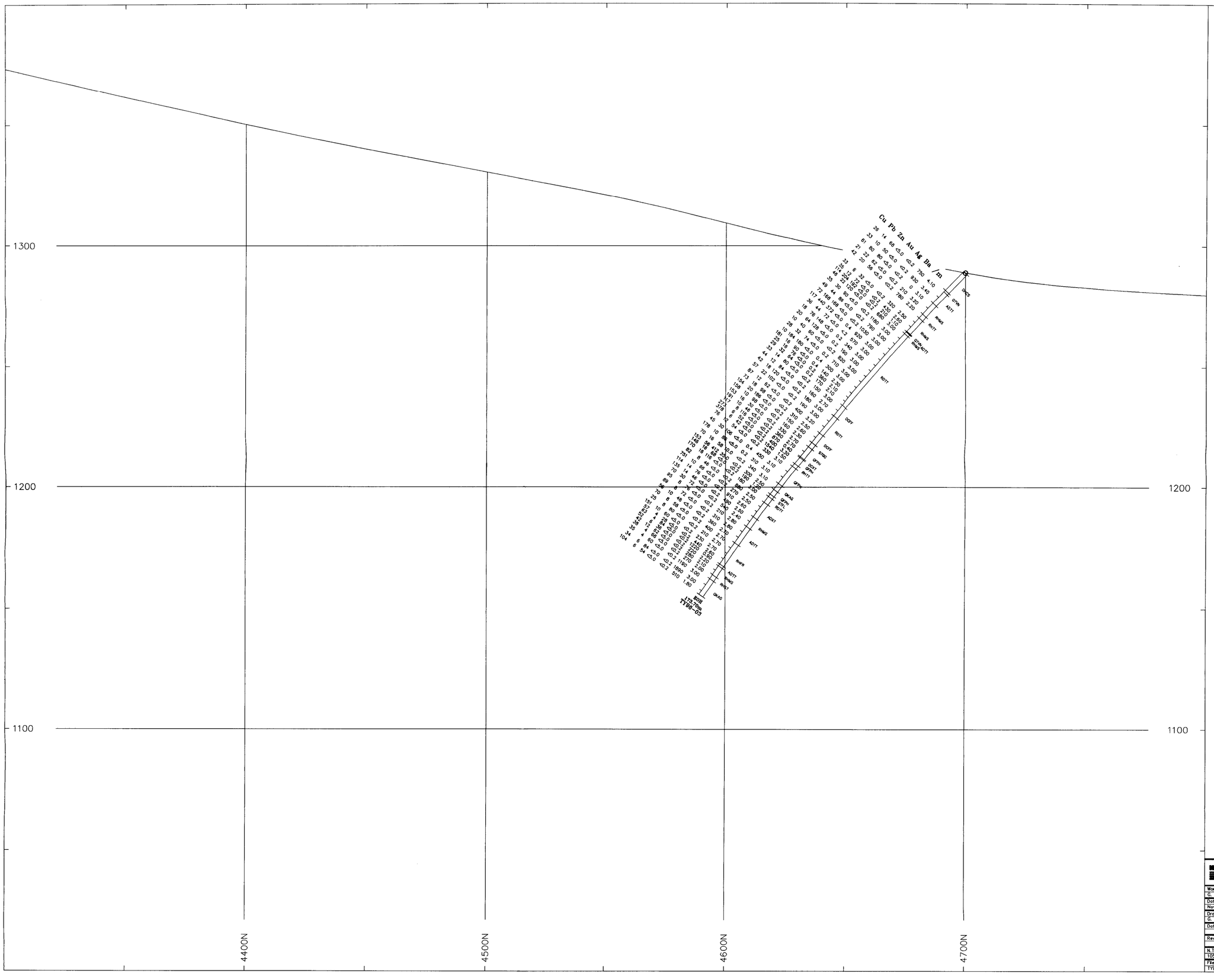
VOLCANICS AND VOLCANICLASTICS

ADTT "ANDESITE TUFF"
ADXT "ANDESITE CRYSTAL TUFF"
DCFF "DACITE FINE TUFF"
DCXT "DACITE CRYSTAL TUFF"
RDTT "RHYODACITE TUFF"
RDXT "RHYODACITE CRYSTAL TUFF"
RHFF "RHYOLITE FINE TUFF"
RHFR "RHYOLITE FRAGMENTAL"
RHFS "APHANITIC FELSITE/RHYOLITE"
RHMS "RHYOLITE - MASSIVE"
RHST "SERICITIC RHYOLITE TUFF"
RHTF "RHYOLITE LAPILLI TUFF"
RHTT "RHYOLITE TUFF"
RHXT "RHYOLITE CRYSTAL TUFF"

.093622

	WESTMIN RESOURCES LIMITED PACIFIC BAY MINERALS LTD.
Work By G. Bradshaw	TY PROJECT
Date Drafted Nov. 15, 1996	**Section 6600E**
Drafted By G. Bradshaw	Showing Cu (ppm), Pb (ppm), Zn (ppm), Au (ppb), Ag (ppm), Ba (ppm), and width (m) (view to the West)
Date Revised	
Revised By	
N.T.S. Number 105 G/1	10 0 10 20 30m SCALE 1 : 1 000
File Name TY9601.DWG	Figure 6.1


1300
1200
1100
4400N
4500N
4600N
4700N
Cu Pb Zn Au Ag Ba /m
DACS
RHAT
RHTT
DCFT
RHTT
DCFT
RHTT
RHTT
QFPH
QFPH
RHTT
RDTT
QFPH
RHTT
RHAS
RHAS
QTVN
RHAS
DTFB
RHAS
QFPH
RHAS
QFPH
QFPH
QFPH



LEGEND

PLUTONIC OR HYPABYSSAL INTRUSIVES

- DIOR "DIORITE"
- MFDK "MAFIC DIKE"
- QFPH "QUARTZ FELDSPAR PORPHYRY"
- QKAS "QUARTZ K-SPAR AUGEN SCHIST"

STRUCTURAL ELEMENTS

- STFL "FAULT"
- STGG "FAULT GOUGE"
- STFB "FAULT BRECCIA"

VEINS AND SULPHIDE ASSEMBLAGES

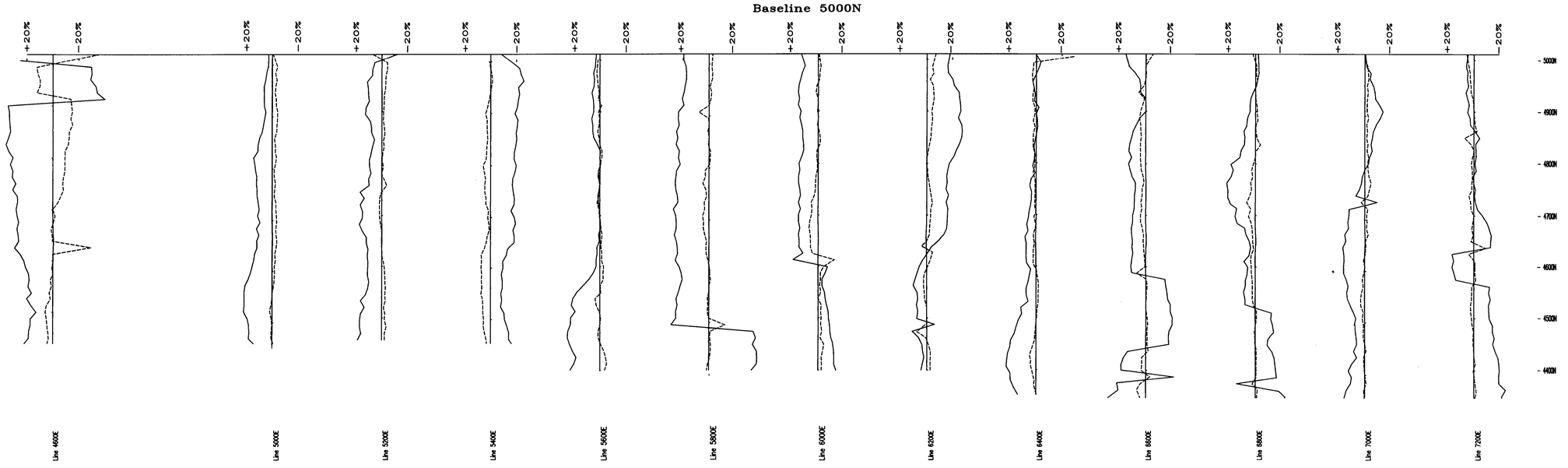
- PYMS "MASSIVE SULPHIDE (PYRITE RICH)"
- QTVN "QUARTZ VEIN"

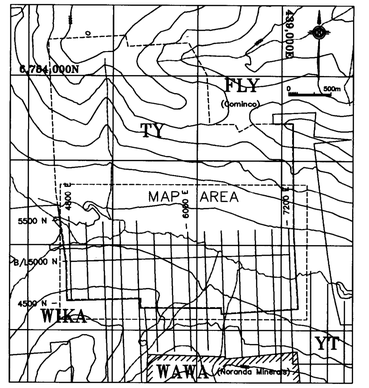
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- ADTT "ANDESITE TUFF"
- ADXT "ANDESITE CRYSTAL TUFF"
- DCFT "DACITE FINE TUFF"
- DCXT "DACITE CRYSTAL TUFF"
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- RDXT "RHYODACITE CRYSTAL TUFF"
- RHFF "RHYOLITE FINE TUFF"
- RHFR "RHYOLITE FRAGMENTAL"
- RHFS "APHANITIC FELSITE/RHYOLITE"
- RHMS "RHYOLITE- MASSIVE"
- RHST "SERICITIC RHYOLITE TUFF"
- RHTF "RHYOLITE LAPILLI TUFF"
- RHTT "RHYOLITE TUFF"
- RHXT "RHYOLITE CRYSTAL TUFF"

093623

	WESTMIN RESOURCES LIMITED PACIFIC BAY MINERALS LTD.
Work By G. Bradshaw	TY PROJECT
Date Drafted Nov. 15, 1996	Section 6200E Showing Cu (ppm), Pb (ppm), Zn (ppm), Au (ppb), Ag (ppm), Ba (ppm), and width (m) (view to the West)
Drafted By G. Bradshaw	
Date Revised	
Revised By	
N.T.S. Number 105 G/1	10 0 10 20 30m SCALE 1 : 1 000
File Name TY9603.DWG	Figure 6.3





LEGEND

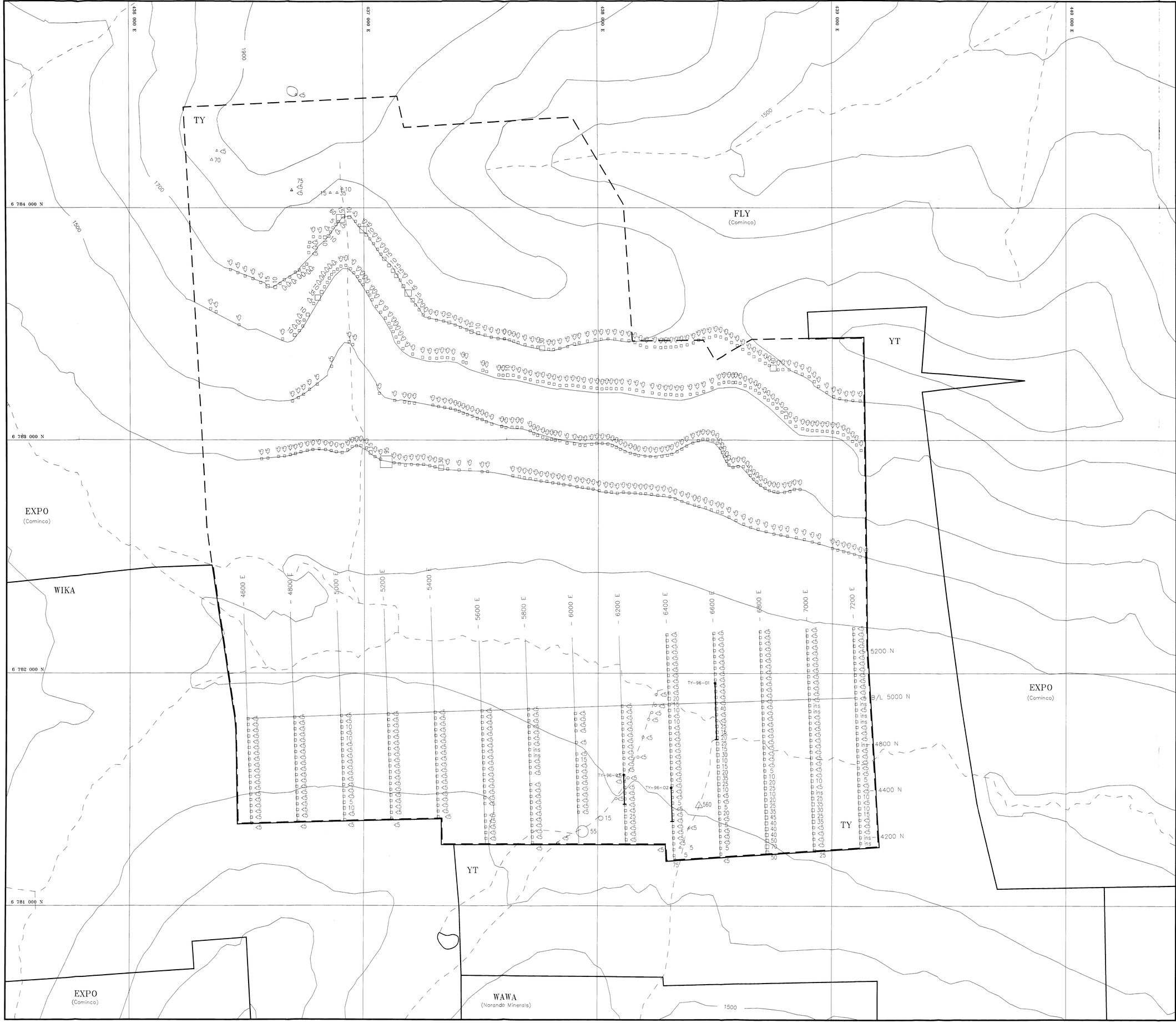
——— In Phase

---------- Quadrature

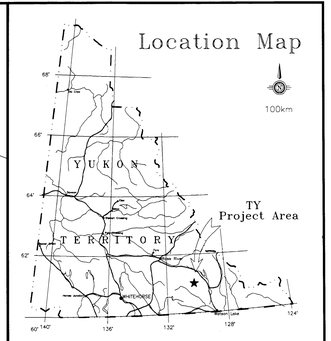
VLF response: —— = 20%

093628

WESTMIN	WESTMIN RESOURCES LIMITED PACIFIC BAY MINERALS LTD.
Work By S. McCallion	TY PROJECT
Date Drafted Nov. 25, 1996	VLF Survey Showing In Phase and Quadrature Phase
Drafted By G. Bradshaw	
Date Revised	
Revised By	
N.T.S. Number 105 G/1	NOT DRAWN TO SCALE
File Name TYVLF.DWG	Figure 7.2



Location Map



UTM GRID NORTH

(True North is approximately 1° East of Grid North)

Magnetic Declination ~ 30° 18' (1996)

LEGEND

- Westmin / Pacific Bay Minerals TY Claim Joint Venture Area
- Westmin Claim Block Outlines (WIKA and YT Claims)
- TY-96-02 — Drill Hole with Identifier
- Grid Lines – (cut)
- Creeks
- Lakes
- 1600 — Topographic Contours (100m contour interval)

Rock Sample

MAX △ 560

MIN . <5

Soil Samples

MAX □ 95

MIN . <5

Silt Samples

MAX ○ 55

MIN . <5

0936223

ins = insufficient sample size

WESTMIN

WESTMIN RESOURCES LIMITED
Pacific Bay Minerals Limited

Work By	D. Terry
Date Drafted	Oct. 25, 1996
Drafted By	A.T. & J.K.
Date Revised	Nov. 25, 1996
Revised By	
N.T.S. Number	105 G/1
File Name	TY_CHEM.DWG

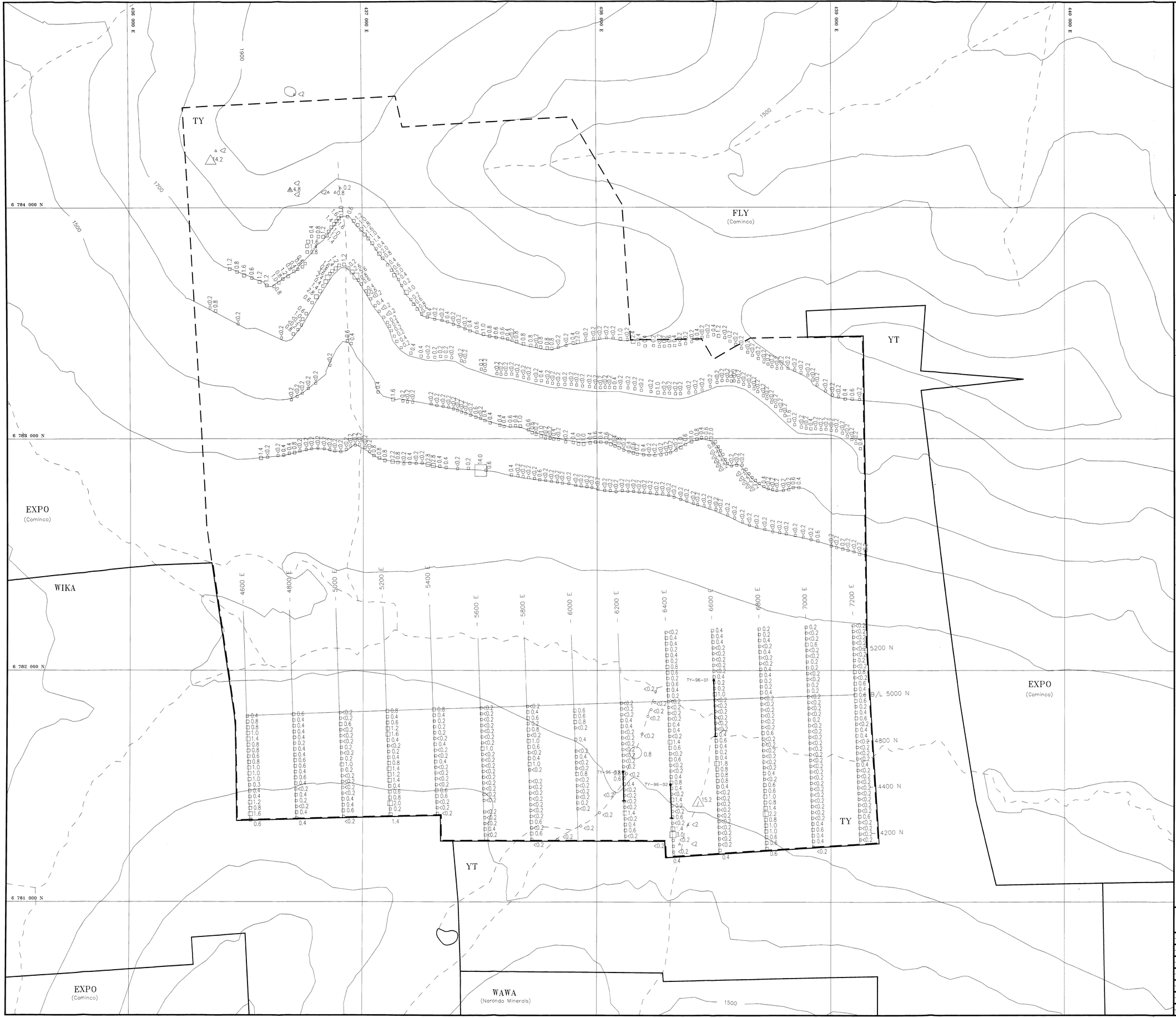
TY Property

Rock, Soil and Silt Geochemistry Map for Au (ppb)

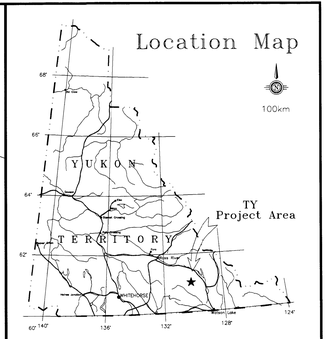
100 0 100 200 300m

SCALE 1 : 5,000

Figure 8.1



Location Map



UTM
GRID
NORTH

(True North is approximately 1° East of Grid North)

Magnetic Declination ~ 30° 18' (1996)

LEGEND

- Westmin / Pacific Bay Minerals TY Claim Joint Venture Area
- Westmin Claim Block Outlines (WIKA and YT Claims)
- TY-96-02 — Drill Hole with Identifier
- Grid Lines – (cut)
- Creeks
- Lakes
- 1600 — Topographic Contours (100m contour interval)

Rock Sample

MAX △ 15.2

MIN . <0.2

Soil Samples

MAX □ 14.0

MIN . <0.2

Silt Samples

MAX ○ 0.8

MIN . <0.2

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WESTMIN RESOURCES LIMITED
Pacific Bay Minerals Limited

Work By	D. Terry
Date Drafted	Oct. 25, 1996
Drafted By	A.T. & J.K.
Date Revised	Nov. 25, 1996
Revised By	
N.T.S. Number	105 G/1
File Name	TY_CHEM.DWG

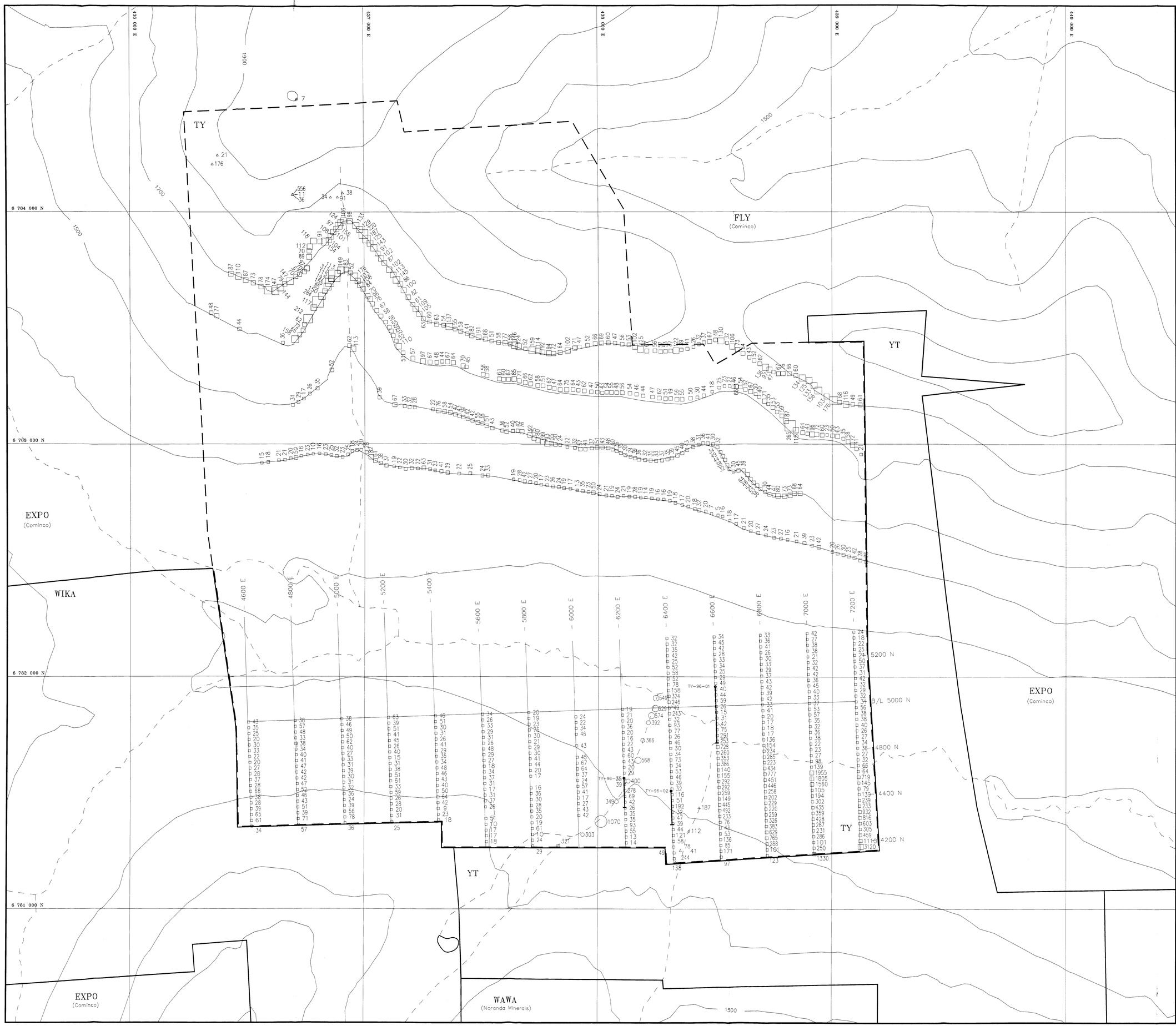
TY Property

Rock, Soil and Silt Geochemistry Map for Ag (ppm)

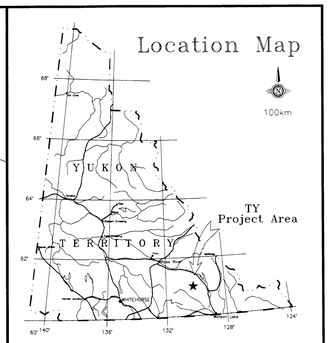
100 0 100 200 300m

SCALE 1 : 5,000

Figure 8.2



Location Map



UTM GRID NORTH

(True North is approximately 1° East of Grid North)

Magnetic Declination ~ 30° 18' (1996)

LEGEND

- Westmin / Pacific Bay Minerals TY Claim Joint Venture Area
- Westmin Claim Block Outlines (WIKA and YT Claims)
- TY-96-02 — Drill Hole with Identifier
- Grid Lines – (cut)
- Creeks
- Lakes
- 1600 — Topographic Contours (100m contour interval)

Rock Sample

MAX △ 556

MIN . 7

Soil Samples

MAX □ 3120

MIN ◦ 5

Silt Samples

MAX ○ 1070

MIN . 303

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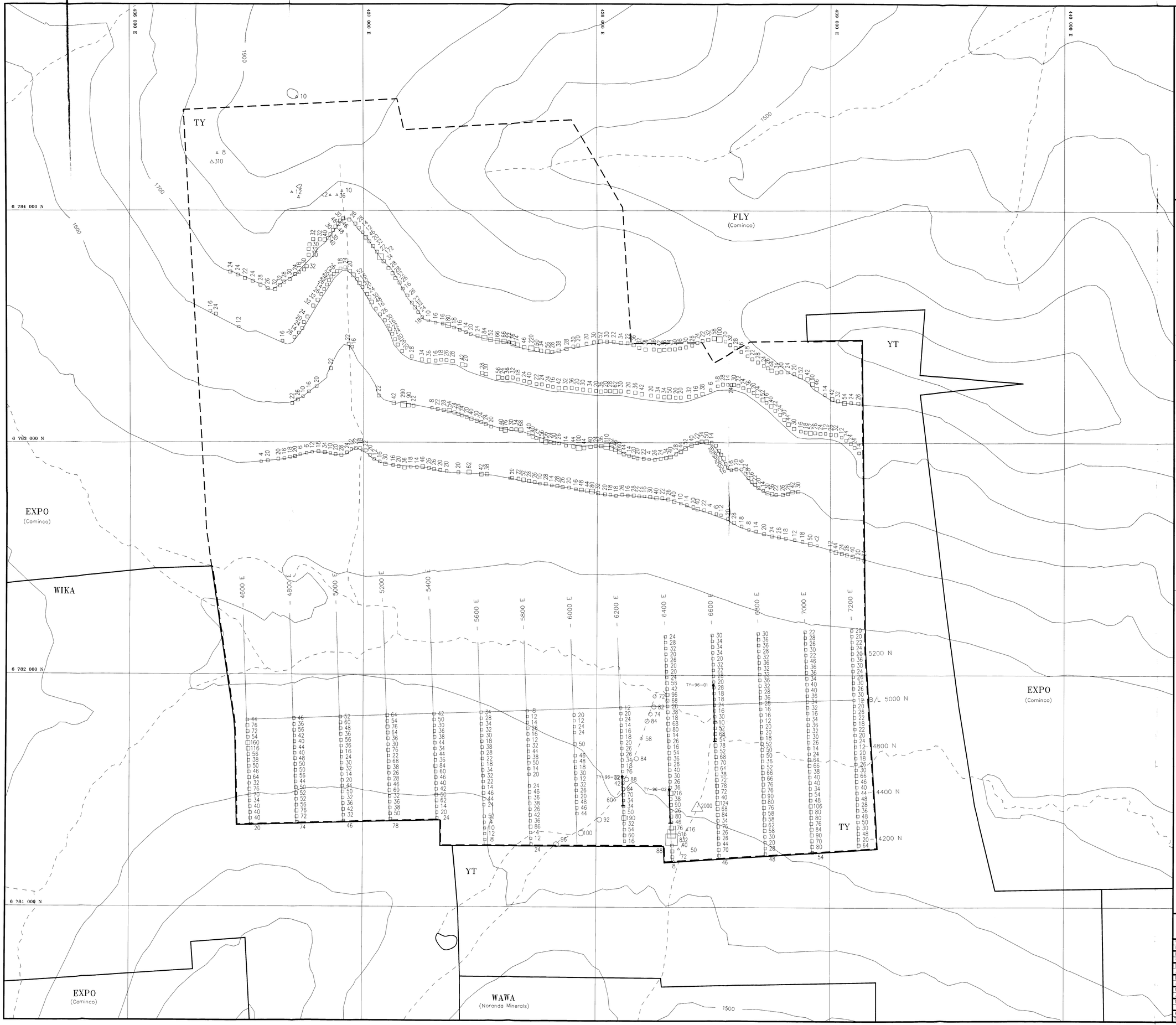
WESTMIN

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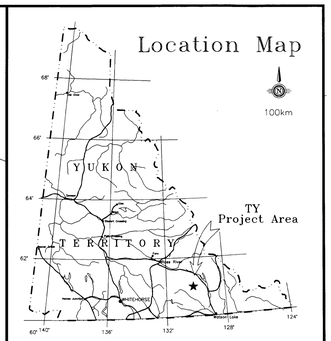
Work By	TY Property
D. Terry	
Date Drafted	Rock, Soil and Silt Geochemistry Map for Cu (ppm)
Oct. 25, 1996	
Drafted By	
A.T. & J.K.	
Date Revised	
Nov. 25, 1996	
Revised By	
N.T.S. Number	Figure
105 G/1	8.3
File Name	
TY_CHEM.DWG	

100 0 100 200 300m

SCALE 1 : 5,000



Location Map



UTM GRID NORTH

(True North is approximately 1° East of Grid North)

Magnetic Declination ~ 30° 18' (1996)

LEGEND

- Westmin / Pacific Bay Minerals TY Claim Joint Venture Area
- Westmin Claim Block Outlines (WIKA and YT Claims)
- TY-96-02 — Drill Hole with Identifier
- Grid Lines – (cut)
- Creeks
- Lakes
- 1600 — Topographic Contours (100m contour interval)

Rock Sample

MAX △ 2000

MIN ▲ <2

Soil Samples

MAX □ 832

MIN ▫ <2

Silt Samples

MAX ○ 100

MIN ◦ 58

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WESTMIN Westmin Resources Limited
Pacific Bay Minerals Limited

Work By	D. Terry
Date Drafted	Oct. 25, 1996
Drafted By	A.T. & J.K.
Date Revised	Jan. 9, 1997
Revised By	J.K.
N.T.S. Number	105 G/1
File Name	TY_CHEM.DWG

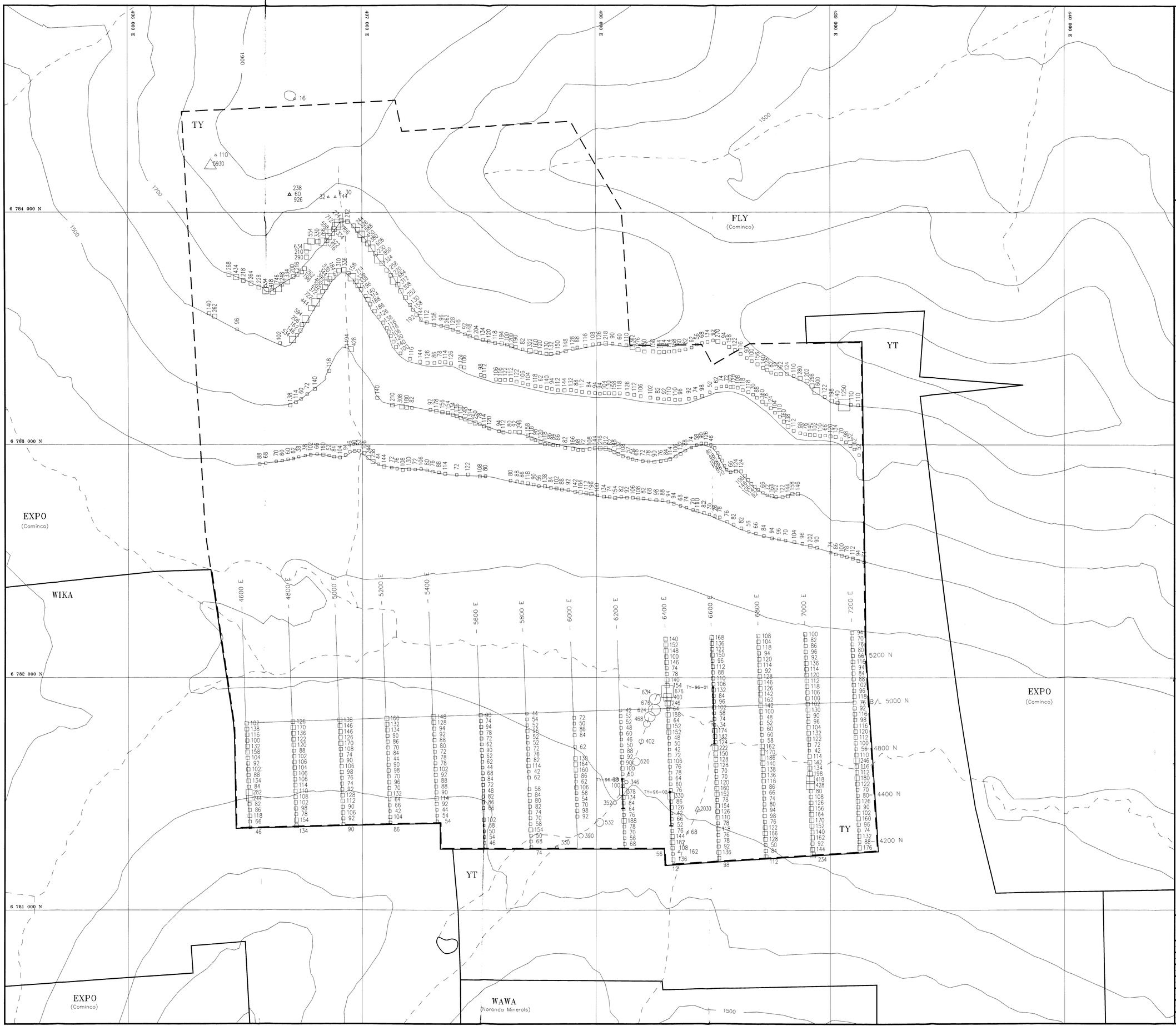
TY Property

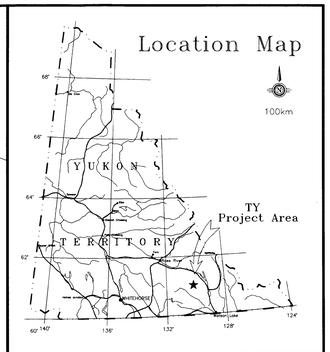
Rock, Soil and Silt Geochemistry Map for Pb (ppm)

100 0 100 200 300m

SCALE 1 : 5,000

Figure 8.4





UTM
GRID
NORTH

(True North is approximately 1° East of Grid North)

Magnetic Declination ~ 30° 18' (1996)

LEGEND

- Westmin / Pacific Bay Minerals TY Claim Joint Venture Area
- Westmin Claim Block Outlines (WIKA and YT Claims)
- TY-96-02 — Drill Hole with Identifier
- Grid Lines - (cut)
- Creeks
- Lakes
- 1600 — Topographic Contours (100m contour interval)

Rock Sample

MAX △ 5930

MIN · 12

Soil Samples

MAX □ 1250

MIN ▫ 26

Silt Samples

MAX ○ 676

MIN · 330

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WESTMIN RESOURCES LIMITED
Pacific Bay Minerals Limited

Work By	D. Terry
Date Drafted	Oct. 25, 1996
Drafted By	A.T. & J.K.
Date Revised	Nov. 25, 1996
Revised By	
N.T.S. Number	105 G/1
File Name	TY_CHEM.DWG

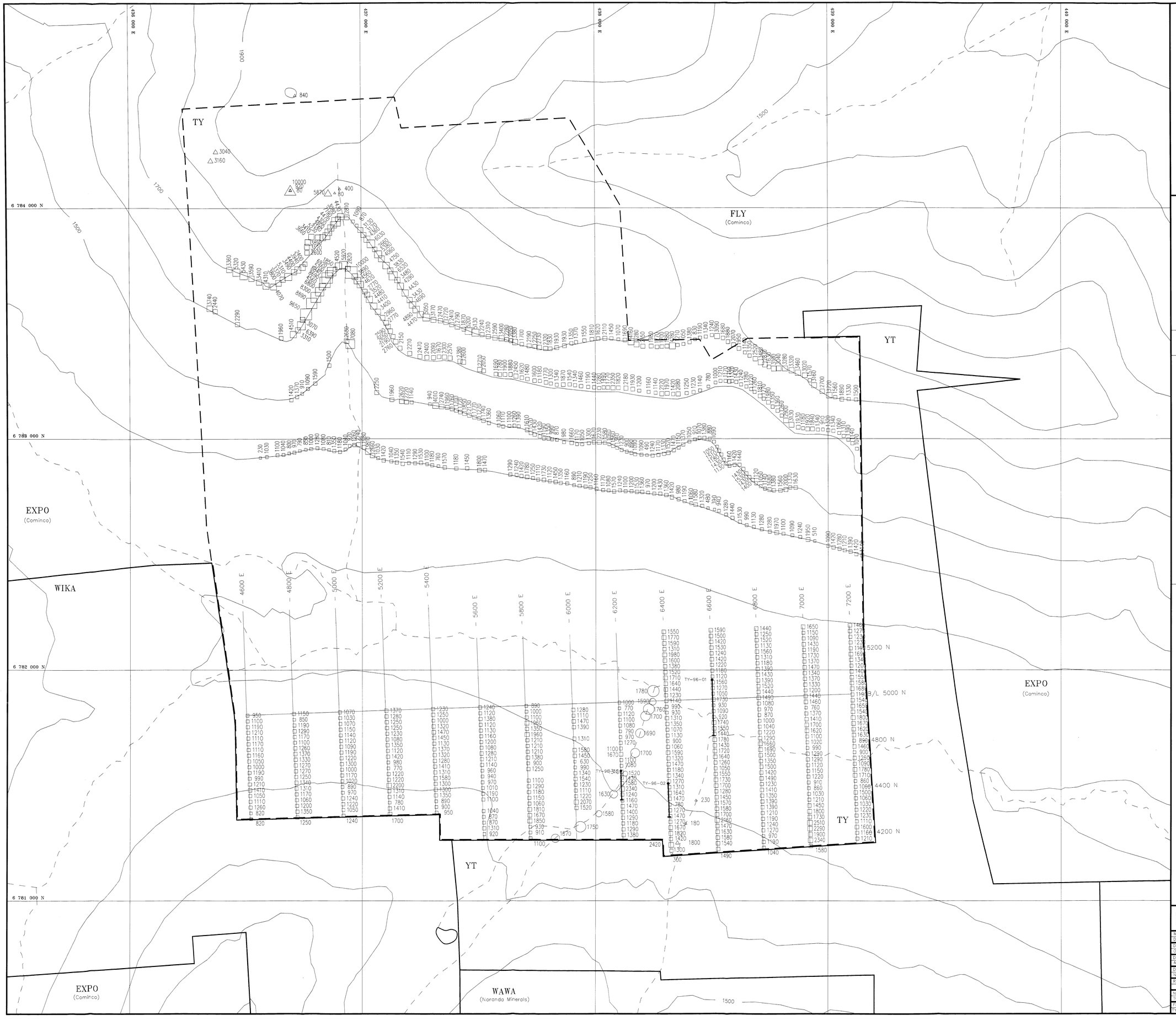
TY Property

Rock, Soil and Silt Geochemistry Map for Zn (ppm)

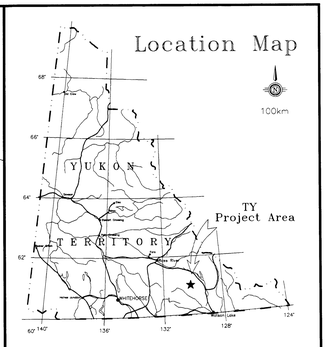
100 0 100 200 300m

SCALE 1 : 5,000

Figure 8.5



Location Map



UTM GRID NORTH

(True North is approximately 1° East of Grid North)

Magnetic Declination ~ 30° 18' (1996)

LEGEND

- Westmin / Pacific Bay Minerals TY Claim Joint Venture Area
- Westmin Claim Block Outlines (WIKA and YT Claims)
- TY-96-02 — Drill Hole with Identifier
- Grid Lines – (cut)
- Creeks
- Lakes
- 1600 — Topographic Contours (100m contour interval)

Rock Sample

MAX △ >10000

MIN ▪ 80

Soil Samples

MAX □ >10000

MIN ▫ 230

Silt Samples

MAX ○ 1780

MIN ▪ 1520

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WESTMIN RESOURCES LIMITED
Pacific Bay Minerals Limited

Work By	D. Terry
Date Drafted	Oct. 25, 1996
Drafted By	A.T. & J.K.
Date Revised	Nov. 25, 1996
Revised By	
N.T.S. Number	105 G/1
File Name	TY_CHEM.DWG

TY Property

Rock, Soil and Silt Geochemistry Map for Ba ppm

100 0 100 200 300m

SCALE 1 : 5,000

Figure 8.6