MAP NO.:	ASSESSMENT REPORT	X	DOCUMENT NO: 092672
	PROSPECTUS		MINING DISTRICT: Dawson
115 O 2	CONFIDENTIAL	X	TYPE OF WORK: Geochemistry
	OPEN FILE		

REPORT FILED UNDER: R. McPhee

DATE PERFORMED: July 7- Aug 5, 1988 DATE FILED: Feb 14,1989

LOCATION: LAT.: 63° 02' N AREA: Scroggie Creek

LONG.: 138° 32' W VALUE $: 11 244.50

CLAIM NAME & NO.:
FISH 49-62 YA 89893-YA 89806
FISH 81-94 YA 89907-YA 89920
WINE 25-48 YA 89869-YA 89892
WINE 49-57 YA 89937-YA 89995

WORK DONE BY: D. Waugh

WORK DONE FOR: R. McPhee

DATE TO GOOD STANDING:

REMARKS: #73 PYROXENE

A PRELIMINARY GEOCHEMICAL EVALUATION REPORT

on the

FISH-WINE CLAIMS

092672

SCROGGIE CREEK PROPERTY
Mariposa Creek - Scroggie Creek Area
N.T.S. 115-0-2
Dawson Mining District
Yukon Territory
Latitude 63° 02' Longitude 138° 32'

For:

R. McPhee

By:

D. H. Waugh, Geologist

February, 1989
Field Work: July 7 - August 5, 1988

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 11,244.50.

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

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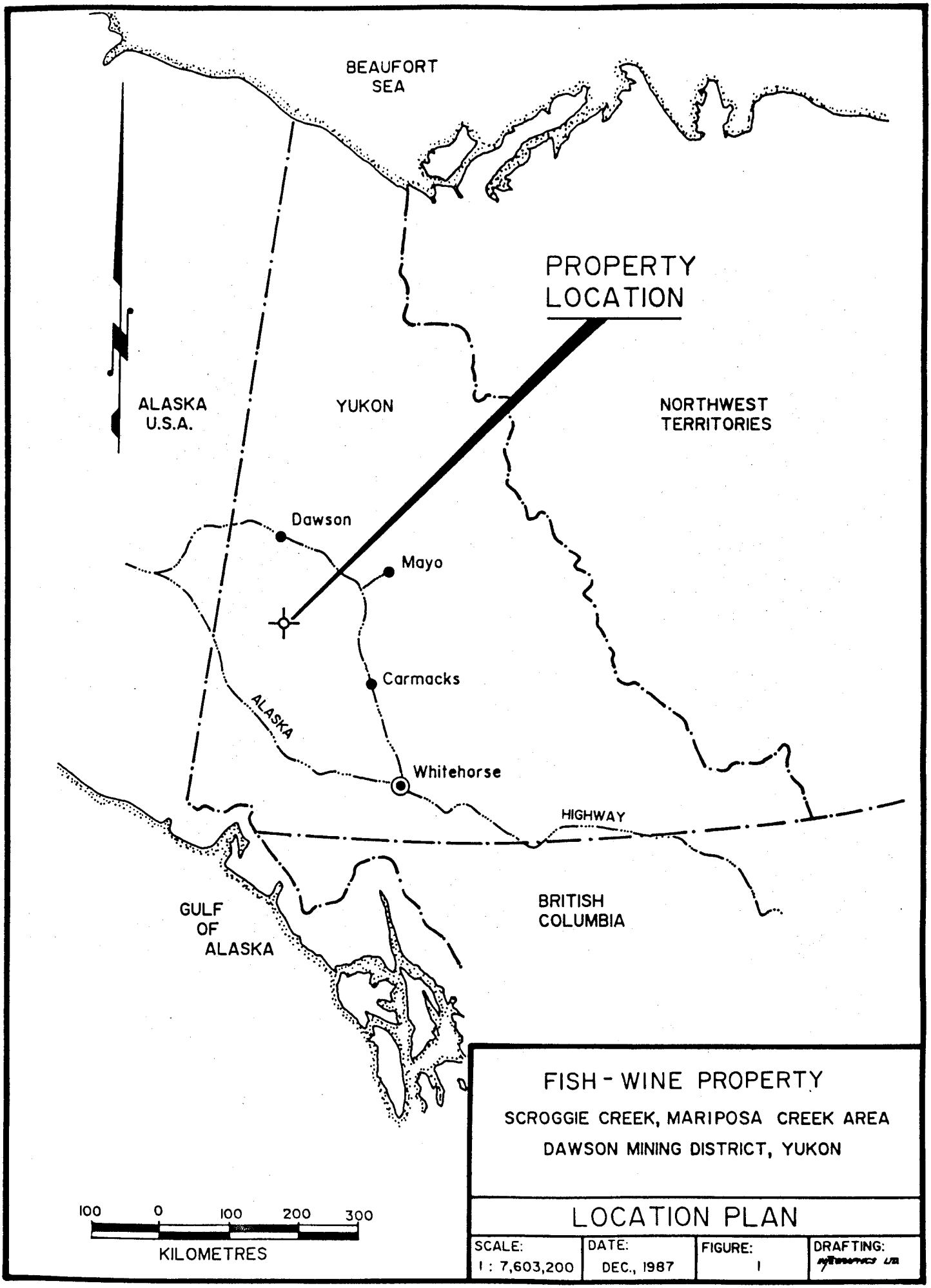


FISH - WINE PROPERTY

SCROGGIE CREEK, MARIPOSA CREEK AREA

DAWSON MINING DISTRICT, YUKON

LOCATION PLAN

SCALE:	DATE:	FIGURE:	DRAFTING:
1 : 7,603,200	DEC., 1987	1	

Introduction

This report is written as a follow up to the July-August 1988 rock geochemical and soil survey conducted on parts of the 61 FISH-WINE claim group and as a representation work requirement.

Field work was conducted during the period of July 7 - August 5, 1988 by a crew of 4 men, employed by the claim owner R. McPhee. The author did not supervise the work program or visit the property. However, the property adjoins the Pyroxene Mountain precious metal prospect where the author personally conducted a large geological/geochemical/geophysical survey in 1987/88 and has a good knowledge of the area.

The purpose of the geochemical survey was to test for economic concentrations of gold and other associated minerals such as arsenic, silver, tellurium, as well as the platinum group minerals and their associated minerals such as chrome and nickel.

The purpose of this report was to examine and evaluate the results of the program and present the data in proper form.

Property and Ownership

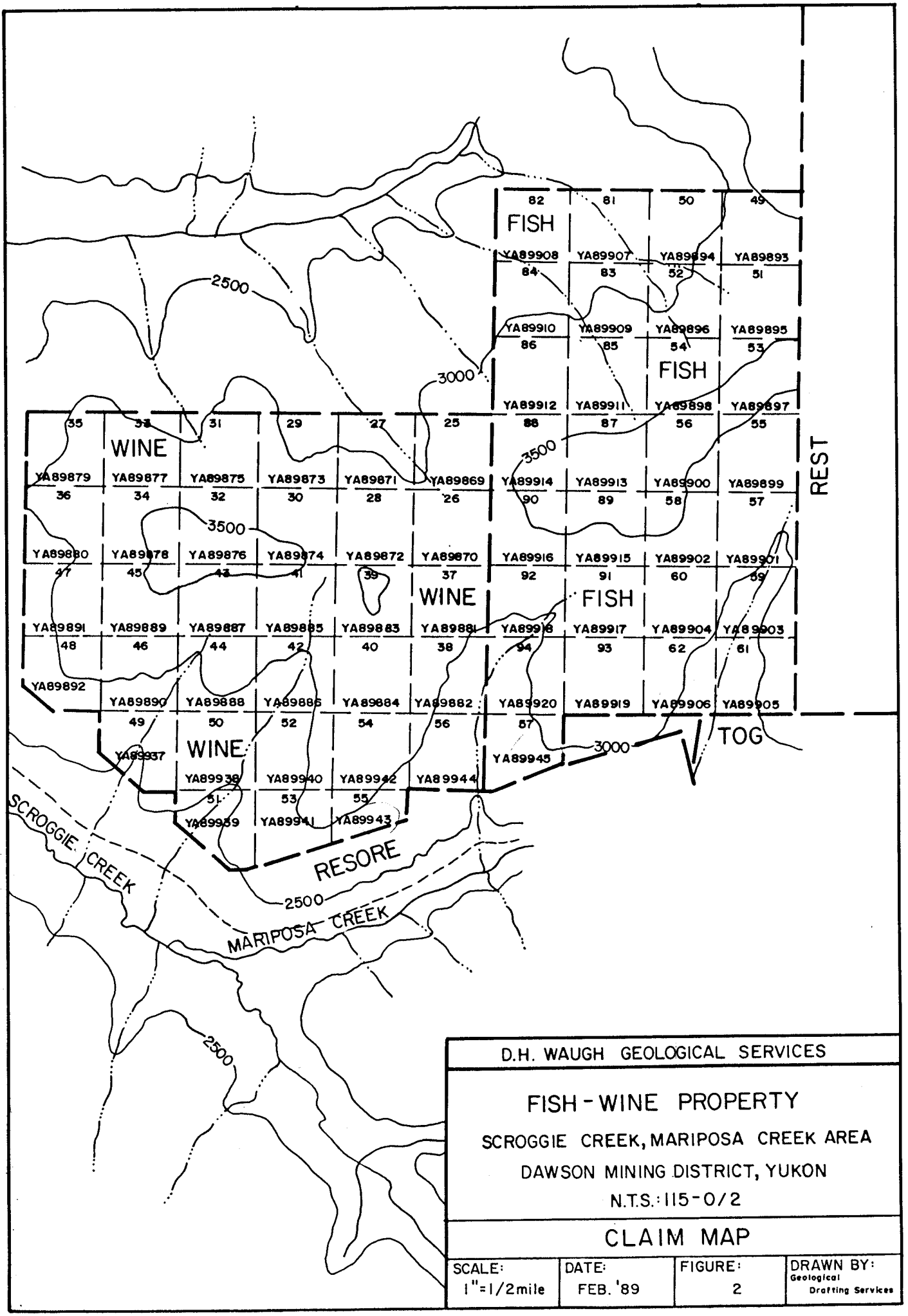
The original property consists of 151 contiguous quartz claims held by location at the time the summer survey was conducted. Ninety claims have since been allowed to lapse. The claims are located on Claim Sheets 115-0-2 and are listed below: (expiry dates shown are subject to acceptance of the work described in this report)

Claim Number	Record Number	Expiry Date
FISH 49 - 62	YA89893 - YA89806	August 19, 1989
FISH 81 - 94	YA89907 - YA89920	August 19, 1989
WINE 25 - 48	YA89869 - YA89892	August 19, 1989
WINE 49 - 57	YA89937 - YA89945	August 19, 1989

The claims are currently in good standing, registered in the name of Ron McPhee. The property occupies an area about .3 miles wide by 2 miles long and covers approximately 5 square miles or about 3,000 acres of ground.

Several placer claims have priority rights over the WINE 49, 51, 53 and 55 claims in the south end of the group.

See Figure 2, Claim Map, 1:50,000 scale, for further details of the property location.



D.H. WAUGH GEOLOGICAL SERVICES

FISH - WINE PROPERTY

SCROGGIE CREEK, MARIPOSA CREEK AREA

DAWSON MINING DISTRICT, YUKON

N.T.S.: 115-O/2

CLAIM MAP

SCALE:	DATE:	FIGURE:	DRAWN BY:
1"=1/2mile	FEB. '89	2	Geological Drafting Services

Location and Access

The FISH and WINE claims are located on an east ridge about 10 kilometers south of Walhalla Creek and immediately east of Scroggie Creek and bounded by Mariposa Creek on the south - distances of 80 miles or 129 kilometers south-southeast of Dawson and 61 miles or 100 kilometers from the settlements of Pelly Crossing and Stewart Crossing, and approximately 200 miles or 320 kilometers northwest of Whitehorse. The claim group is centered at 63° 02' latitude and 138° 32' longitude on 1:50,000 scale map sheets 115-0-2 Scroggie Creek and 115-J-15 Britannia Creek. See Location Plan, Figure 1 and Claim Map, Figure 2.

The property is accessible on a year-round basis by helicopter from Dawson City. The nearest gravel airstrip is located almost 2 miles due west of the centre of the property on Scroggie Creek. A winter tote road, originating at the Pelly River farm two miles upstream from the Yukon River/Pelly River confluence, travels past the west and south end of the property along Scroggie Creek. The overland distance from Highway No. 2 near Pelly Crossing to Mariposa Creek via the Pelly River-Black Creek-Jane Creek-Walhalla Creek tote trail route is about 90 miles, or 145 kilometers. This route is mainly used by placer miners and has been recommended for upgrading under the Territorial Government's resource road program to make it usable for summer travel. During the 1988 program, the property was accessed by helicopter and fixed wing aircraft out of Dawson.

Some supplies, equipment and personnel were flown into or out of the nearby Scroggie Creek airstrip by fixed wing Cessna 206 aircraft on charter from Dawson. The program also required the support of the Dawson-based Capital Helicopter's Jet Ranger.

Physiography, Climate and Vegetation

The property is located in an unglaciated area characterized by long, round-topped ridges with relatively steep side slopes and narrow, V-shaped valleys. Ridge tops show a general uniformity of elevation. Pyroxene Mountain (elevation 4,570 feet, or 1,393 metres) stands above most ridges and mountain peaks of this region. The accordance summit levels represent an erosion surface developed in Tertiary time that has been eroded to depths of over 2,000 feet by the principal rivers and larger creeks. The elevation of the WINE-FISH claims varies between 2,500 feet (760 metres) in the Mariposa Creek valley and 3,600 feet (1,100 metres) on the ridge apex that runs east-west through the centre of the claim group.

The ridge has its long axis oriented nearly east-west. It is drained in both a radial pattern and an almost annular pattern by a tributary of Scroggie Creek on the north, Mariposa Creek on the south, and small tributaries of Scroggie Creek on the west. The property lies within the Klondike Plateau, a subprovince of the larger Yukon Plateau province which is characterized by a gently rolling upland surface.

Permafrost conditions occur extensively on the north slopes and as lenses in some parts of the creek valleys and along west-facing slopes. The total extent and nature of the permafrost conditions are not well known.

The ridges, slopes and valleys on the property are smoothly eroded and, with the exception of the creek valleys, are covered with light to moderately thick residual soil, regolith and varying thicknesses of moss and organic material.

Rock exposures are mainly confined to the central ridge about 3,000 foot elevations in the central part of the claim block. These rock exposures constitute less than 2% of the total surface area of the property but are generally conspicuous. Some tree coverage is found to 4,000 foot elevations in the district but it is sparse. Heavy growth extends up to elevations of 3,500 feet.

The area has a Continental climate characterized by low precipitation and a wide temperature variance. Winters are cold and long but the relatively short summers are usually mild with almost continuous daylight during June and July.

Permafrozen areas are usually characterized by less densely forested to open moss covered terrain. Slopes above 3,500 feet are usually open, moss covered areas, having a few stunted spruce and some low alder growth.

An abundant water supply exists at lower elevations in Scroggie and Mariposa Creeks and their many unnamed tributaries. Water is difficult to locate at elevations above 3,000 feet in the late summer and fall months in this region.

Geology

The WINE and FISH group of claims appear to be completely underlain by rocks of the YUKON GROUP, unit E of the Ogilvie Map 711A, mapped by H. S. Bostock 1935-37. Locally the unit consists of gneiss, quartzite with some schist and slate.

Two intersecting lineaments, based on two separate two remote sensing studies, were interpreted to exist on the FISH/WINE claims with their foci located by a small south flowing tributary of Mariposa Creek on mineral claim FISH 94. This point was the focus of prospecting and rock sampling for much of the survey. Since the remote sensing data was not verified on the ground by a qualified person the fault inference remains an uncertainty.

Based on samples of bedrock submitted to the author of the claims are apparently underlain by gneiss and schist with clear, sugary textured, barren quartz-feldspar lenses that are sometimes rusty on fractures. The most common rock type as a lit-par-lit gneiss composed of alternating quartz-feldspar bands and amphibole-biotite-plagioclase bands.

LEGEND

6 RECENT
Unconsolidated alluvial deposits.

5 TERTIARY AND MODERN
Stream deposits.

4 JURASSIC OR LATER
Granite or granodiorite white to pinkish, coloured, coarse grained.

3 PRECAMRIAN OR LATER
Gneissic granite.

2 Pyroxenite, gabbro, coarse grained, moderately foliated.

1 Gneiss, quartzite, some schist and slate.

Geological boundary (approximate, assumed).

Fault (assumed by remote sensing study).

Walhalla - Scroggie Creek winter tote road.

Heavy overburden

WALHALLA CREEK

TOTE ROAD

SHARPE CREEK

70 Miles to Pelly Crossing

FISH

WINE

PROPERTY BOUNDARY

PYROXENE MOUNTAIN

PROPERTY BOUNDARY

ALBERTA CREEK

138°30'

137°15'

FISH - WINE PROPERTY

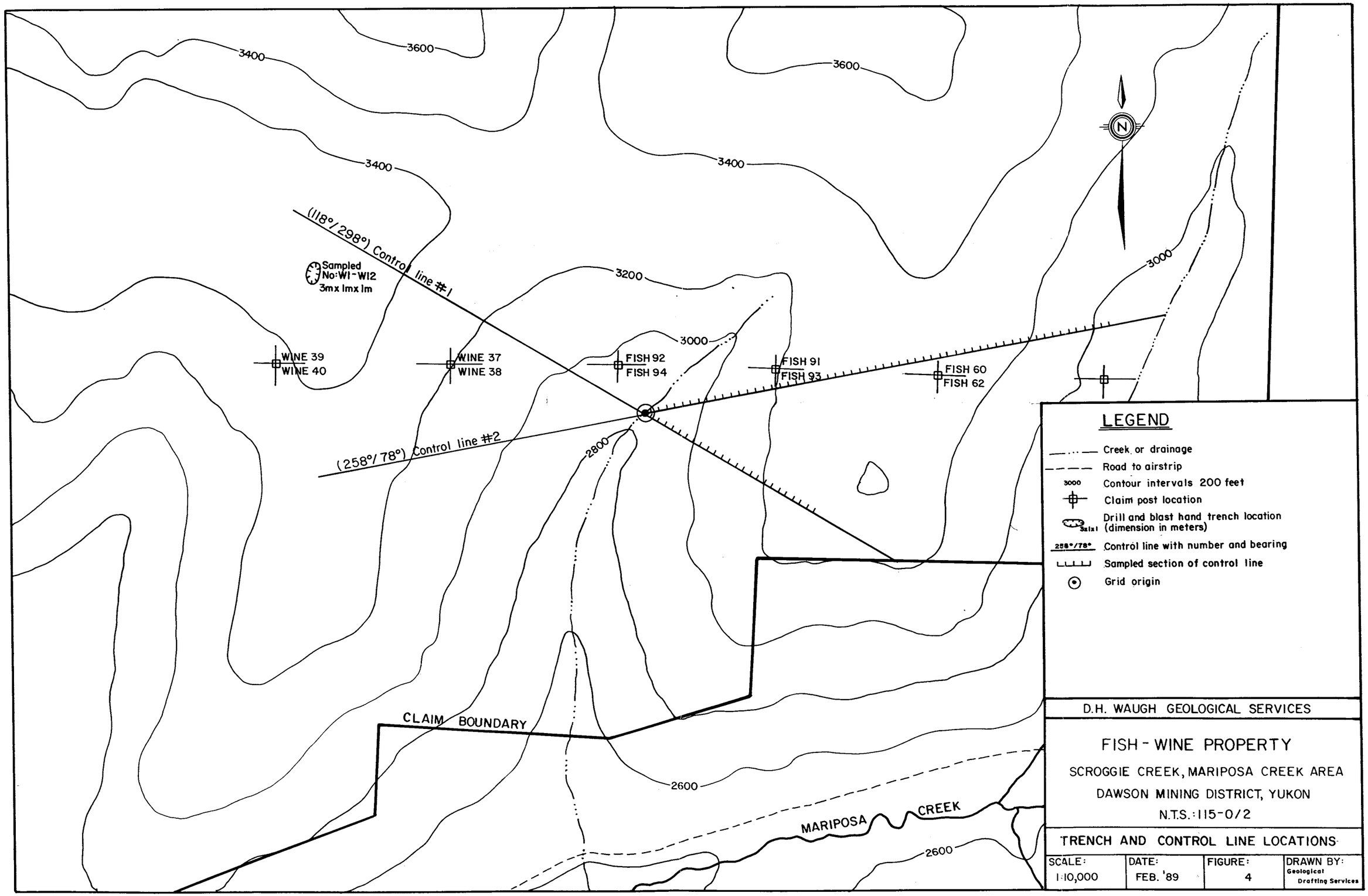
SCROGGIE CREEK, MARIPOSA CREEK AREA
DAWSON MINING DISTRICT, YUKON
N.T.S.: 115-0/2

GEOLOGY MAP

SCALE:	DATE:	FIGURE:
1" = 1 MILE	DEC., 1987	3

Grid

Two lines that approximately follow the trace of the lineaments, established by remote sensing studies, were located on the ground by chain and flagging. The point of intersect of these lines is located 150 metres from claim post 1, WINE 37 - 38 and claim post 2, FISH 92 and 94 at a bearing of 134°. Control Line Number 1 has a bearing of 118° and Control Line Number 2 has a bearing of 78°. The point of origin of these control lines is located in a creek at the bottom of a v-shaped valley that flows southward into Mariposa Creek. The lines were chained and flagged at 25 metre intervals. See figures 4 and 5 of this report for control line locations.

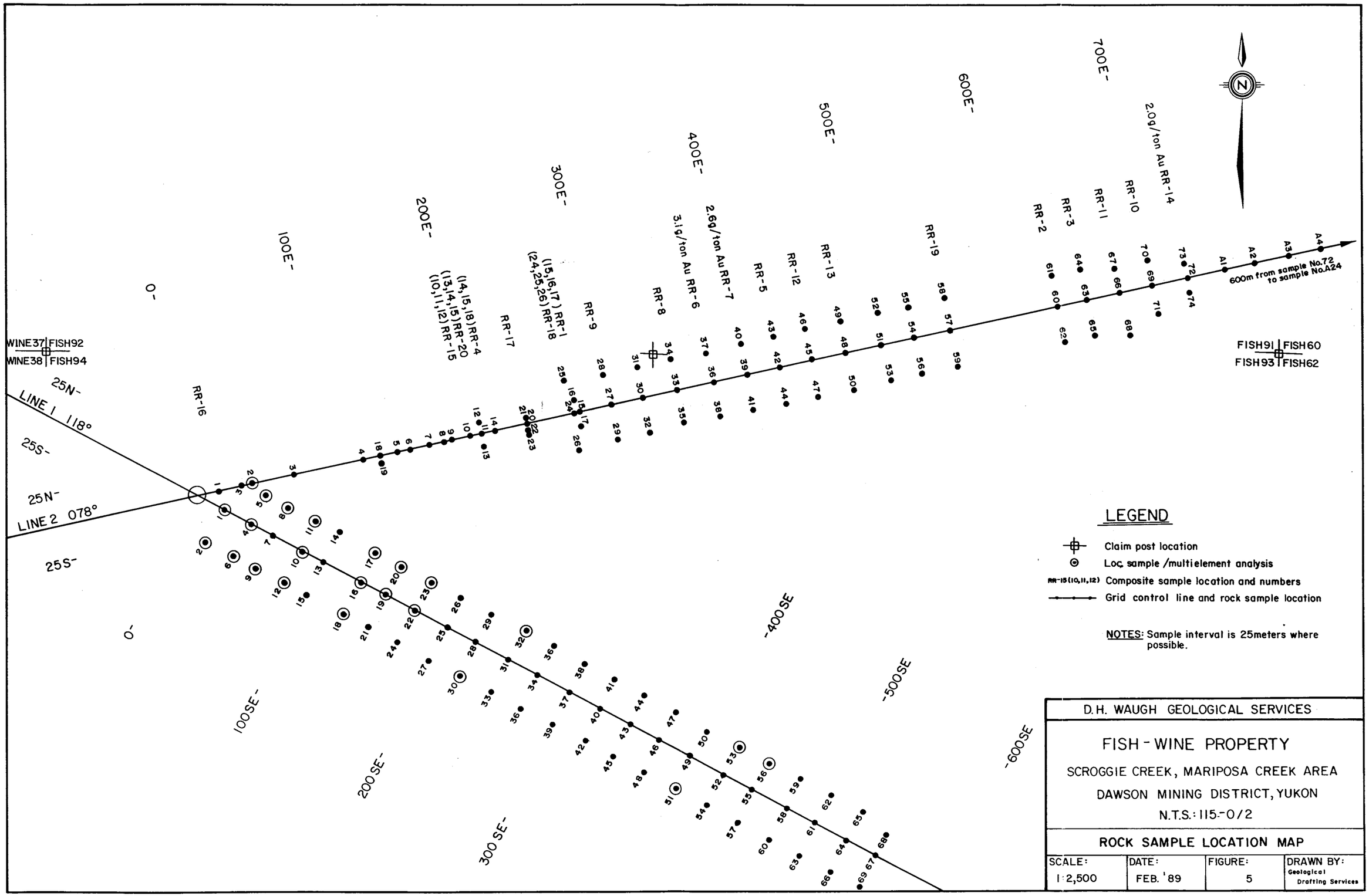

3400
3600
3600
3400
3400
(118°/298°) Control line #1
Sampled
No: W1 - W12
3m x 1m x 1m
3200
3000
3000
WINE 39
WINE 40
WINE 37
WINE 38
FISH 92
FISH 94
FISH 91
FISH 93
FISH 60
FISH 62
(258°/78°) Control line #2
2800
CLAIM BOUNDARY
2600
MARIPOSA CREEK
2600
N
LEGEND
Creek or drainage
Road to airstrip
3000 Contour intervals 200 feet
Claim post location
3x1x1 Drill and blast hand trench location (dimension in meters)
258°/78° Control line with number and bearing
Sampled section of control line
Grid origin
D.H. WAUGH GEOLOGICAL SERVICES
FISH - WINE PROPERTY
SCROGGIE CREEK, MARIPOSA CREEK AREA
DAWSON MINING DISTRICT, YUKON
N.T.S.: 115-0/2
TRENCH AND CONTROL LINE LOCATIONS
SCALE: 1:10,000
DATE: FEB. '89
FIGURE: 4
DRAWN BY: Geological Drafting Services

Rock Geochemical Survey

A total of 179 rock samples were collected along the two control lines and from the drilled and blasted hand trench. The location of these samples are shown on Figures 4 and 5 of this report. The approximate 3 metre by 1 metre by 1 meter trench is located on the apex of an east-west trending ridge on claim WINE 39 about 1,000 metres northwest of the Line 1 and Line 2 grid origin. A total of 12 samples were collected from the trench and are numbered W-1 through W-12. From Line 1, a total of 69 rock samples were collected and from Line 2 a total of 98 rock samples were collected.

Samples W-1 through W-12 taken from the hand trench were analyzed by Bondar-Clegg for gold and silver by fire assay method. All samples gave values below the detection limit of 0.002 ounces per ton gold and 0.02 ounces per ton silver. For details see the Appendix for assay results dated January 12, 1989.

Not all samples collected along Line 1 were analyzed. Of the 69 samples collected only 35 samples were tested. These 35 rock samples were analyzed for gold plus thirty-three (Gold + 33) elements by Bondar-Clegg using neutron activation analysis (INAA) on a 10 gram rock sample. The detection limits for the elements tested and results of the analysis are listed in the appendix and dated August 12, 1988. The highest gold value is 30 ppb and all silver values were below the 2 ppm detection limit. Most other elements tested feel within or below average levels for average igneous rocks. Samples #1, 2, 4 and 11 were slightly higher in barium than might be expected. The absence of anomalous values in such associated minerals as zinc and silver points to k-feldspar rather than barite as the likely source of these moderately anomalous



LEGEND

- Claim post location
- Loc. sample /multielement analysis
- RR-15(10,11,12) Composite sample location and numbers
- Grid control line and rock sample location

NOTES: Sample interval is 25meters where possible.

D.H. WAUGH GEOLOGICAL SERVICES

FISH - WINE PROPERTY

SCROGGIE CREEK, MARIPOSA CREEK AREA

DAWSON MINING DISTRICT, YUKON

N.T.S.: 115-O/2

ROCK SAMPLE LOCATION MAP

SCALE:	DATE:	FIGURE:	DRAWN BY:
1:2,500	FEB. '89	5	Geological Drafting Services

barium values. Sample locations 1 through 5 were sampled twice on Line 1 and both groups analyzed. In addition samples 6, 8 thru 13, 16 thru 24, 30 thru 32 and 51 thru 56 were analyzed on Line 1 for [Gold + 33] elements.

Samples A-1 through A-24 are located on Line 2 from 750 metres east to 1,325 metres east. These samples were fire assayed by Bondar-Clegg, 130 Pemberton Avenue, North Vancouver, B.C. using a 10 gm, -80 mesh sample and fire assay extraction and the atomic absorption method to analyze for gold and silver. All values were very low with most samples below the detection limits of 0.002 opt gold and 0.02 opt silver. Rock samples RR-1 through RR-20 are composite samples made up of 3 rock samples each taken along Line 2 between 11 metres east and 725 metres east. See Table I for the list of composite samples, gold assays in grams per ton and also the Appendix for assay results of samples RR-1 to RR-20 analyzed at the Ketza River Lab and dated December 9, 1988. Results of these assays were very low except three samples RR-6, RR-7 and RR-14 that gave moderately anomalous values of 3.1 g/ton, 2.6 g/ton and 2.0 g/ton gold and are located at 375 meters, 400 metres and 725 meters east of the origin on Line 2 respectively.

Conclusions and Recommendations

The FISH and WINE claim group is underlain by Yukon Group gneiss and schist. No pyroxenite or other ultra-basic rock units as found on Pyroxene Mountain to the east, is known to outcrop on the property. The potential for a platinum group mineral discovery is poor. The low gold-silver values indicate that the possibility of an economic vein deposit existing on the claims is also not very good. However, the moderately anomalous gold values located on Line 2 at 375, 400 and 725 east warrant further investigation.

TABLE 1

Composite Samples Assay Lab Number	Field Numbers Line 2 Samples	Location East of Origin	Gold Assay grams/ton
RR-1	15, 17, 19	134E/276E	0.5
RR-2	60, 61, 62	630E	0.1
RR-3	63, 64, 65	650E	0.3
RR-4	14, 15, 18	134E/215E/276E	<0.1
RR-5	42, 43, 44	425E	<0.1
RR-6	36, 37, 38	375E	3.1
RR-7	39, 40, 41	400E	2.6
RR-8	33, 34, 35	350E	0.2
RR-9	27, 28, 29	300E	0.2
RR-10	69, 70, 71	700E	<0.1
RR-11	66, 67, 68	675E	<0.1
RR-12	45, 46, 47	450E	<0.1
RR-13	48, 49, 50	475E	<0.1
RR-14	72, 73, 74	725E	2.0
RR-15	10, 11, 12	198E/207E	0.3
RR-16	1	11E	0.1
RR-17	20, 21, 22, 23	240E	<0.1
RR-18	24, 25, 26,	275E	0.4
RR-19	57, 58, 59	550E	<0.1
RR-20	13, 14, 15	207E/215E/276E	<0.1

FIELD CREW LIST

	Days Worked
M. Harris - prospector, linecutter, sampler General Delivery, Whitehorse - $150.00/day	5
Titus Charlie - helper, labourer General Delivery, Old Crow - $100.00/day	10
Scott Cone - miner, plugger, operator General Delivery, Dawson - $150.00/day	5
Joe Blanchard - labourer, helper General Delivery, Dawson - $100.00/day	5
Total man days (travel and field work)	25

REPORT

Drafting: Geological Drafting Services	1.5 days
Typing: Sourdough Secretarial Services	3 hours
Report Writing: D. H. Waugh Geological Services	4 days

STATEMENT OF QUALIFICATIONS

I, DAVID H. WAUGH of 118 Alsek Road, Whitehorse, in the Yukon Territory, HEREBY STATE that:

1. I have practised my profession as an Exploration Geologist for 24 years.

2. I was educated at Michigan Technological University, class of 1964, and majored in geological engineering.

3. I personally organized, examined and evaluated the data found in this report from the FISH and WINE quartz claims and wrote this evaluation report for R. McPhee as part of assessment requirement.

4. The observations made in this report are those of my own unless otherwise disclosed.

DATED at Whitehorse, Yukon this 6th day of February, 1989

David H. Waugh

COST STATEMENT

Labour:	travel, sampling, trenching, grid	$ 3,000.00
Transportation:	2 Jet Ranger 206 helicopter trips and 2 Cessna 206 flights via Dawson	3,200.00
Supplies:	groceries, gas, flagging, misc.	1,000.00
Remote Sensing:	2 hours study plus runup	350.00
Rentals:	plugger, chainsaw, ATV, camp gear	900.00
Assays:	89 rock assays and 1 soil assay	1,294.50
Report:	drafting, typing, evaluation, writing	1,500.00
	TOTAL EXPENDITURES	$11,244.50

APPENDIX

ANALYTICAL REPORT

ASSAY CERTIFICATES

Bondar-Clegg & Company Ltd.
136 Industrial Road
Whitehorse, Yukon Territory Y1A 2V1
Phone: (403) 667-6523
Telex: 036-8-460

BONDAR-CLEGG

Geochemical Lab Report

REFERENCE INFO:

CLIENT: DUNE INVESTMENT

SUBMITTED BY: I. ANDERSON

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU	GOLD	82	0.002 OPT		FIRE ASSAY
2	AG	SILVER	82	0.02 OPT		FIRE ASSAY

SAMPLE TYPES		NUMBER	SIZE FRACTIONS		NUMBER	SAMPLE PREPARATIONS	NUMBER
R	ROCK OR BED ROCK	82	2	-150	82	ASSAY PREP	82

REPORT COPIES TO: MR. IAN ANDERSON

INVOICE TO: MR. IAN ANDERSON

Bondar-Clegg & Company Ltd.

136 Industrial Road
Whitehorse, Yukon Territory Y1A 2V1
Phone: (403) 667-6523
Telex: 036-8-460

BONDAR-CLEGG

Geochemical Lab Report

REPORT: VGS-1823.4

PROJECT: NONE GIVEN PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU OPT	AG OPT	SAMPLE NUMBER	ELEMENT UNITS	AU OPT	AG OPT
R2 A1		<0.002	<0.02	R2 X-5		<0.002	<0.02
R2 A2		<0.002	<0.02	R2 X-6		<0.002	<0.02
R2 A3		<0.002	<0.02	R2 X-7		<0.002	<0.02
R2 A4		<0.002	<0.02	R2 X-8		<0.002	<0.02
R2 A5		<0.002	<0.02	R2 X-9		0.003	0.02
R2 A6		<0.002	<0.02	R2 X-10		<0.002	<0.02
R2 A7		<0.002	<0.02	R2 X-11		<0.002	<0.02
R2 A8		<0.002	<0.02	R2 X-12		<0.002	<0.02
R2 A9		<0.002	<0.02	R2 X-13		<0.002	<0.02
R2 A10		<0.002	<0.02	R2 X-14		<0.002	<0.02
R2 A11		<0.002	<0.02	R2 X-15		<0.002	<0.02
R2 A12		<0.002	<0.02	R2 Y-1		<0.002	<0.02
R2 A13		<0.002	<0.02	R2 Y-2		<0.002	<0.02
R2 A14		<0.002	<0.02	R2 Y-3		<0.002	<0.02
R2 A15		<0.002	<0.02	R2 Y-4		<0.002	<0.02
R2 A16		<0.002	<0.02	R2 Y-5		<0.002	<0.02
R2 A17		0.013	<0.02	R2 Y-6		<0.002	<0.02
R2 A18		<0.002	<0.02	R2 Y-7		<0.002	<0.02
R2 A19		<0.002	<0.02	R2 Y-8		<0.002	<0.02
R2 A20		<0.002	<0.02	R2 Y-9		<0.002	0.02
R2 A21		<0.002	<0.02	R2 Y-10		<0.002	<0.02
R2 A22		0.002	<0.02	R2 Y-11A		<0.002	<0.02
R2 A23		<0.002	<0.02	R2 Y-11B		<0.002	<0.02
R2 A24		<0.002	<0.02	R2 Y-12		<0.002	<0.02
R2 W-1		<0.002	<0.02	R2 Y-13		<0.002	<0.02
R2 W-2		<0.002	<0.02	R2 Y-14		0.002	<0.02
R2 W-3		<0.002	<0.02	R2 Y-15		<0.002	<0.02
R2 W-4		<0.002	<0.02	R2 Z-1		<0.002	0.02
R2 W-5		<0.002	<0.02	R2 Z-2		0.002	<0.02
R2 W-6		<0.002	<0.02	R2 Z-3		<0.002	<0.02
R2 W-7		<0.002	<0.02	R2 Z-4		<0.002	<0.02
R2 W-8		<0.002	<0.02	R2 Z-5		<0.002	<0.02
R2 W-9		<0.002	<0.02	R2 Z-6		0.002	<0.02
R2 W-10		<0.002	<0.02	R2 Z-7		<0.002	<0.02
R2 W-11		<0.002	<0.02	R2 Z-8		<0.002	<0.02
R2 W-12		<0.002	<0.02	R2 Z-9		<0.002	<0.02
R2 X-1		<0.002	<0.02	R2 Z-10		<0.002	<0.02
R2 X-2		<0.002	<0.02	R2 Z-11		<0.002	<0.02
R2 X-3		<0.002	<0.02	R2 Z-12		<0.002	<0.02
R2 X-4		<0.002	<0.02	R2 Z-13		<0.002	<0.02

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

BONDAR-CLEGG

Geochemical Lab Report

REPORT: V88-04693.0 (COMPLETE)

REFERENCE INFO:

CLIENT: MR. RON MCPHEE
PROJECT: NONE GIVEN

SUBMITTED BY: RON MCPHEE
DATE PRINTED: 12-AUG-88

ORDER		ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	36	2 PPB		INST. NEUTRON ACTIV.
2	Ag	Silver	36	2 PPM		INST. NEUTRON ACTIV.
3	As	Arsenic	36	0.5 PPM		INST. NEUTRON ACTIV.
4	Ba	Barium	36	50 PPM		INST. NEUTRON ACTIV.
5	Br	Bromine	36	0.5 PPM		INST. NEUTRON ACTIV.
6	Cd	Cadmium	36	5 PPM		INST. NEUTRON ACTIV.
7	Ce	Cerium	36	0.5 PPM		INST. NEUTRON ACTIV.
8	Co	Cobalt	36	5 PPM		INST. NEUTRON ACTIV.
9	Cr	Chromium	36	20 PPM		INST. NEUTRON ACTIV.
10	Cs	Cesium	36	0.5 PPM		INST. NEUTRON ACTIV.
11	Eu	Europium	36	1 PPM		INST. NEUTRON ACTIV.
12	Fe	Iron	36	0.2 PCT		INST. NEUTRON ACTIV.
13	Hf	Hafnium	36	1 PPM		INST. NEUTRON ACTIV.
14	Ir	Iridium	36	50 PPB		INST. NEUTRON ACTIV.
15	La	Lanthanum	36	2 PPM		INST. NEUTRON ACTIV.
16	Lu	Lutetium	36	0.2 PPM		INST. NEUTRON ACTIV.
17	Mo	Molybdenum	36	1 PPM		INST. NEUTRON ACTIV.
18	Na	Sodium	36	0.02 PCT		INST. NEUTRON ACTIV.
19	Ni	Nickel	36	20 PPM		INST. NEUTRON ACTIV.
20	Rb	Rubidium	36	5 PPM		INST. NEUTRON ACTIV.
21	Sb	Antimony	36	0.1 PPM		INST. NEUTRON ACTIV.
22	Sc	Scandium	36	0.2 PPM		INST. NEUTRON ACTIV.
23	Se	Selenium	36	5 PPM		INST. NEUTRON ACTIV.
24	Sm	Samarium	36	0.05 PPM		INST. NEUTRON ACTIV.
25	Sn	Tin	36	100 PPM		INST. NEUTRON ACTIV.
26	Ta	Tantalum	36	0.5 PPM		INST. NEUTRON ACTIV.
27	Tb	Terbium	36	0.5 PPM		INST. NEUTRON ACTIV.
28	Te	Tellurium	36	10 PPM		INST. NEUTRON ACTIV.
29	Th	Thorium	36	0.2 PPM		INST. NEUTRON ACTIV.
30	U	Uranium	36	0.2 PPM		INST. NEUTRON ACTIV.
31	W	Tungsten	36	1 PPM		INST. NEUTRON ACTIV.
32	Yb	Ytterbium	36	2 PPM		INST. NEUTRON ACTIV.
33	Zn	Zinc	36	100 PPM		INST. NEUTRON ACTIV.
34	Zr	Zirconium	36	200 PPM		INST. NEUTRON ACTIV.

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Geochemical Lab Report

REPORT: V88-04693.0 (COMPLETE)

REFERENCE INFO:

CLIENT: MR. RON MCPHEE
PROJECT: NONE GIVEN

SUBMITTED BY: RON MCPHEE
DATE PRINTED: 12-AUG-88

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
S SOILS	1	1 -80	1	DRY, SIEVE -80	1
R ROCK OR BED ROCK	35	2 -150	35	CRUSH,PULVERIZE -150	35

REPORT COPIES TO: MR. RON MCPHEE

INVOICE TO: MR. RON MCPHEE

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Geochemical Lab Report

REPORT: V88-04693.0 | PROJECT: NONE GIVEN | PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Ba PPM	Br PPM	Cd PPM	Ce PPM	Co PPM	Cr PPM	Cs PPM	Eu PPM	Fe PCT
S1 #7		4	<2	10.0	940	<2.0	<5	43.0	16	64	2.8	1	4.0
R2 7/8/88 #1		<2	<2	2.7	2000	<2.0	<5	<5.0	<5	130	1.0	<1	0.7
R2 7/8/88 #2		<2	<2	4.5	3000	<2.0	<5	<5.0	7	160	1.2	<1	2.3
R2 7/8/88 #3		2	<2	3.7	620	<2.0	<5	27.0	27	290	1.8	<1	5.6
R2 7/8/88 #4		3	<2	3.3	2500	<2.0	<5	120.0	30	220	0.7	2	5.4
R2 7/8/88 #5		<2	<2	2.5	770	<2.0	<5	14.0	11	98	<0.5	<1	4.4
R2 7/11/88 #1		<2	<2	4.8	490	<2.0	<5	30.0	13	81	1.7	<1	3.5
R2 7/11/88 #2		<2	<2	1.8	280	<2.0	<5	21.0	19	190	1.0	<1	4.4
R2 7/11/88 #3		<2	<2	2.8	470	<2.0	<5	43.0	17	150	1.0	2	4.9
R2 7/11/88 #4		<2	<2	1.4	240	<2.0	<5	17.0	8	96	0.7	<1	2.1
R2 7/11/88 #5		<2	<2	4.8	530	<2.0	<5	21.0	20	62	0.5	2	6.9
R2 7/11/88 #6		<2	<2	1.2	380	<2.0	<5	15.0	28	140	<0.5	<1	6.0
R2 7/11/88 #8		<2	<2	1.0	450	<2.0	<5	23.0	14	110	0.7	<1	4.6
R2 7/11/88 #9		<2	<2	0.8	470	<2.0	<5	29.0	22	84	0.8	2	6.2
R2 7/11/88 #10		30	<2	2.5	380	<2.0	<5	28.0	18	100	0.7	<1	6.4
R2 7/11/88 #11		8	<2	2.8	1600	<2.0	<5	<5.0	<5	120	1.1	<1	1.0
R2 7/11/88 #12		8	<2	3.2	770	<2.0	<5	24.0	8	160	1.0	<1	2.7
R2 7/11/88 #13		<2	<2	<0.5	200	<2.0	<5	<5.0	<5	110	0.7	<1	0.5
R2 7/11/88 #16		<2	<2	2.7	780	<2.0	<5	28.0	16	77	0.7	<1	3.8
R2 7/11/88 #17		<2	<2	1.8	700	<2.0	<5	21.0	6	120	1.8	<1	2.2
R2 7/11/88 #18		5	<2	3.1	520	<2.0	<5	33.0	20	96	0.8	<1	5.7
R2 7/11/88 #19		<2	<2	1.4	280	<2.0	<5	23.0	19	86	<0.5	<1	5.7
R2 7/11/88 #20		2	<2	1.1	230	<2.0	<5	23.0	18	86	0.8	2	5.0
R2 7/11/88 #21		<2	<2	1.0	130	<2.0	<5	31.0	16	110	<0.5	1	6.0
R2 7/11/88 #22		<2	<2	1.7	340	<2.0	<5	27.0	16	67	0.5	<1	5.0
R2 7/11/88 #23		2	<2	1.3	770	<2.0	<5	35.0	14	110	1.7	1	5.2
R2 7/11/88 #24		<2	<2	0.5	870	<2.0	<5	22.0	33	120	<0.5	<1	6.6
R2 7/11/88 #30 COMP		<2	<2	2.7	410	<2.0	<5	28.0	9	110	<0.5	<1	4.2
R2 7/11/88 #31 COMP		<2	<2	1.8	260	<2.0	<5	13.0	15	98	0.5	<1	5.0
R2 7/11/88 #32		<2	<2	0.8	450	<2.0	<5	40.0	<5	170	<0.5	<1	2.1
R2 7/11/88 #51		<2	<2	<0.5	550	<2.0	<5	27.0	18	76	0.5	<1	5.4
R2 7/11/88 #52		<2	<2	0.5	410	<2.0	<5	27.0	23	88	0.6	2	6.7
R2 7/11/88 #53		2	<2	0.9	190	<2.0	<5	11.0	6	130	<0.5	<1	2.0
R2 7/11/88 #54		<2	<2	0.8	490	<2.0	<5	24.0	19	85	1.0	1	5.8
R2 7/11/88 #55		<2	<2	1.2	75	<2.0	<5	19.0	25	69	0.7	1	8.1
R2 7/11/88 #56		<2	<2	<0.5	940	<2.0	<5	29.0	8	100	<0.5	<1	2.3

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Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	Hf PPM	Ir PPB	La PPM	Lu PPM	Mo PPM	Na PCT	Ni PPM	Rb PPM	Sb PPM	Sc PPM	Se PPM	Sm PPM
S1 #7		6	<50	29	<0.2	<1	1.70	<20	59	0.8	19.0	<5	4.50
R2 7/8/88 #1		3	<50	<2	<0.2	2	4.25	<20	36	2.9	1.6	<5	0.22
R2 7/8/88 #2		3	<50	2	<0.2	1	3.44	<20	44	5.0	10.0	<5	0.76
R2 7/8/88 #3		4	<50	15	<0.2	<1	3.41	<20	32	3.4	23.9	<5	2.80
R2 7/8/88 #4		4	<50	74	<0.2	<1	3.14	55	80	1.1	25.2	<5	5.90
R2 7/8/88 #5		2	<50	9	<0.2	1	3.69	<20	44	0.7	19.0	<5	2.00
R2 7/11/88 #1		3	<50	14	<0.2	2	5.31	<20	21	2.0	15.0	<5	2.60
R2 7/11/88 #2		3	<50	11	<0.2	<1	4.02	34	14	0.6	22.7	<5	2.50
R2 7/11/88 #3		4	<50	21	<0.2	<1	4.17	<20	22	0.7	20.6	<5	3.90
R2 7/11/88 #4		2	<50	8	<0.2	<1	5.20	<20	18	0.2	8.7	<5	1.60
R2 7/11/88 #5		3	<50	12	<0.2	<1	3.95	<20	20	0.7	33.5	<5	3.60
R2 7/11/88 #6		3	<50	9	<0.2	<1	4.33	43	36	0.5	24.7	<5	2.50
R2 7/11/88 #8		5	<50	10	<0.2	<1	4.28	<20	29	0.5	19.0	<5	2.80
R2 7/11/88 #9		4	<50	17	0.2	<1	3.62	<20	25	0.2	29.7	<5	4.70
R2 7/11/88 #10		3	<50	13	<0.2	<1	3.26	<20	38	0.4	21.0	<5	2.80
R2 7/11/88 #11		2	<50	5	<0.2	<1	3.93	<20	44	0.6	3.5	<5	0.64
R2 7/11/88 #12		3	<50	15	<0.2	<1	3.01	<20	64	0.3	10.0	<5	2.20
R2 7/11/88 #13		3	<50	2	<0.2	1	4.45	<20	11	0.3	0.6	<5	0.38
R2 7/11/88 #16		4	<50	14	<0.2	<1	3.52	<20	37	0.4	17.0	<5	3.00
R2 7/11/88 #17		3	<50	12	<0.2	<1	2.82	<20	64	0.4	7.1	<5	1.20
R2 7/11/88 #18		4	<50	16	<0.2	<1	3.84	<20	23	0.7	25.7	<5	4.00
R2 7/11/88 #19		5	<50	15	0.2	<1	5.00	<20	15	1.0	26.7	<5	4.00
R2 7/11/88 #20		5	<50	12	<0.2	<1	5.15	<20	<5	0.3	25.7	<5	3.90
R2 7/11/88 #21		4	<50	13	0.3	<1	4.75	25	<5	0.2	27.1	<5	3.80
R2 7/11/88 #22		4	<50	16	<0.2	<1	4.58	<20	18	0.2	23.6	<5	4.00
R2 7/11/88 #23		5	<50	20	0.2	<1	3.62	<20	73	0.2	22.1	<5	4.10
R2 7/11/88 #24		3	<50	15	<0.2	<1	3.54	34	53	0.3	32.9	<5	3.60
R2 7/11/88 #30 COMP		4	<50	15	<0.2	<1	3.59	<20	24	0.3	19.0	<5	3.20
R2 7/11/88 #31 COMP		3	<50	7	<0.2	<1	4.37	<20	7	0.4	23.3	<5	2.40
R2 7/11/88 #32		4	<50	24	<0.2	<1	1.60	<20	29	0.3	6.3	<5	3.30
R2 7/11/88 #51		4	<50	14	<0.2	<1	3.99	<20	33	0.2	24.7	<5	3.50
R2 7/11/88 #52		4	<50	15	<0.2	<1	3.86	<20	24	0.2	32.4	<5	4.10
R2 7/11/88 #53		2	<50	6	<0.2	<1	5.15	<20	15	0.2	7.0	<5	1.30
R2 7/11/88 #54		4	<50	15	0.2	<1	3.77	<20	37	0.3	26.3	<5	3.90
R2 7/11/88 #55		3	<50	8	0.3	<1	4.97	<20	<5	0.2	41.9	<5	3.20
R2 7/11/88 #56		4	<50	19	<0.2	<1	3.47	<20	40	0.1	9.4	<5	2.60

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Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	Sn PPM	Ta PPM	Tb PPM	Te PPM	Th PPM	U PPM	W PPM	Yb PPM	Zn PPM	Zr PPM
S1 #7		<100	0.9	0.8	<10	6.3	2.5	<1	3	120	300
R2 7/8/88 #1		<100	<0.5	<0.5	<10	0.3	0.3	<1	<2	<100	<200
R2 7/8/88 #2		<100	<0.5	<0.5	<10	0.4	<0.2	<1	<2	<100	<200
R2 7/8/88 #3		<100	0.6	0.8	<10	2.8	0.7	<1	<2	110	<200
R2 7/8/88 #4		<100	1.0	0.9	<10	20.4	3.6	<1	2	<100	330
R2 7/8/88 #5		<100	<0.5	<0.5	<10	1.5	0.6	<1	<2	<100	<200
R2 7/11/88 #1		<100	<0.5	0.6	<10	3.1	0.9	1	<2	<100	<200
R2 7/11/88 #2		<100	<0.5	0.5	<10	1.6	0.7	<1	<2	<100	<200
R2 7/11/88 #3		<100	0.7	1.0	<10	4.1	1.2	<1	3	<100	<200
R2 7/11/88 #4		<100	<0.5	<0.5	<10	1.5	0.6	<1	<2	<100	<200
R2 7/11/88 #5		<100	<0.5	1.0	<10	1.8	1.2	2	3	130	<200
R2 7/11/88 #6		<100	<0.5	0.6	<10	1.1	0.5	<1	<2	100	<200
R2 7/11/88 #8		<100	0.6	0.7	<10	4.0	0.9	<1	3	<100	<200
R2 7/11/88 #9		<100	<0.5	1.1	<10	2.1	0.9	<1	3	160	<200
R2 7/11/88 #10		<100	<0.5	0.8	<10	2.8	0.9	4	<2	120	300
R2 7/11/88 #11		<100	<0.5	<0.5	<10	2.2	0.5	<1	<2	<100	<200
R2 7/11/88 #12		<100	<0.5	<0.5	<10	3.4	1.0	<1	<2	<100	<200
R2 7/11/88 #13		<100	<0.5	<0.5	<10	1.5	0.4	<1	<2	<100	<200
R2 7/11/88 #16		<100	0.7	0.7	<10	4.1	1.2	<1	2	150	<200
R2 7/11/88 #17		<100	0.6	<0.5	<10	6.5	1.4	<1	<2	<100	<200
R2 7/11/88 #18		<100	0.9	0.9	<10	3.1	1.1	<1	3	150	270
R2 7/11/88 #19		<100	0.8	1.0	<10	2.5	0.8	<1	4	130	<200
R2 7/11/88 #20		<100	0.7	1.0	<10	2.5	0.7	<1	3	<100	<200
R2 7/11/88 #21		<100	0.7	0.7	<10	1.7	0.6	<1	3	110	<200
R2 7/11/88 #22		<100	0.6	0.8	<10	2.4	1.2	<1	3	140	<200
R2 7/11/88 #23		<100	1.0	1.0	<10	3.2	1.2	<1	4	140	340
R2 7/11/88 #24		<100	0.7	0.9	<10	1.6	0.5	<1	3	100	<200
R2 7/11/88 #30 COMP		<100	0.7	0.8	<10	3.3	1.1	<1	3	110	<200
R2 7/11/88 #31 COMP		<100	<0.5	0.7	<10	1.2	0.4	<1	2	130	<200
R2 7/11/88 #32		<100	0.9	0.8	<10	8.6	3.1	<1	3	<100	<200
R2 7/11/88 #51		<100	0.8	0.8	<10	2.0	0.7	<1	3	130	<200
R2 7/11/88 #52		<100	0.6	1.0	<10	1.9	0.5	<1	3	150	<200
R2 7/11/88 #53		<100	1.2	<0.5	<10	1.3	0.9	<1	<2	<100	<200
R2 7/11/88 #54		<100	0.6	1.0	<10	1.8	0.6	<1	3	140	270
R2 7/11/88 #55		<100	<0.5	0.9	<10	1.0	0.4	<1	2	140	<200
R2 7/11/88 #56		<100	0.8	0.8	<10	5.3	1.2	<1	<2	<100	250

KETZA RIVER LAB

DATE: Dec 9/88

TEST RUN: Survey Samples - MIBK 10g→100mls

	SAMPLE	Aug/L							
1	RR 1	0.5							1
2	2	0.1							2
3	3	0.3							3
4	4	<0.1							4
5	5	<0.1							5
6	6	3.1							6
7	7	2.6							7
8	8	0.2							8
9	9	0.2							9
10	10	<0.1							10
11	11	<0.1							11
12	12	<0.1							12
13	13	<0.1							13
14	14	2.0							14
15	15	0.3							15
16	16	0.1							16
17	17	<0.1							17
18	18	0.4							18
19	19	<0.1							19
20	20	<0.1							20
21									21
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