

REPORT ON GEOCHEMICAL SURVEYS ON THE
PEACHLAND PROPERTY OF VEGA MINES LTD.

(NPL), OSOYOOS MINING DIVISION, B. C.

80E/13E, 13W
Rohanna 15-13, 21-22, 28-39

KEL 10-17

ZN 1-18

Situated 1.5 miles northwest of Peachland,
Osoyoos Mining Division, B. C.

49° 48'N; 119° 44'W

Submitted by: D.P. Taylor, Geologist
Endorsed by: R.H.D. Philp, P. Eng.
Owner: Vega Mines Ltd. (NPL)
Work Conducted by: Vega Mines Ltd. (NPL)

3913

REPORT ON GEOCHEMICAL SURVEYS
ON THE
PEACHLAND PROPERTY OF
VEGA MINES LTD. (NPL)
OSOYODS MINING DIVISION, B.C.

September 20, 1972

Vancouver, B.C.

Department of
Mines and Petroleum Resources

ASSESSMENT REPORT

NO. 3913 MAP.....

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REPORT ON GEOCHEMICAL SURVEYS
on the
Peachland Property of
Vega Mines Ltd. (NPL)
Usyooos Mining Division, B. C.

INTRODUCTION

The Peachland property of Vega Mines Ltd. (NPL) consists of 43 mineral claims situated approximately 1.5 miles north northwest of Peachland, B. C.

Zinc-copper-lead-precious metals mineralisation is reported to have been exposed at various locations within Nicola group rocks on the claim group.

Geochemical surveys have been conducted by Vega Mines personnel on the claim groups during 1972. The writer was asked to assess and report on the results obtained since the report of May, 1972. All geochemical sample results to date are covered by this report.

LOCATION AND ACCESS

The Peachland Group lies 1.5 miles north of Peachland extending westward from approximately $\frac{1}{2}$ mile west of Okanagan Lake. Access to the southeastern and eastern portion of the claim group is possible by secondary roads from Highway 97, north of Peachland. The property is located at:

49° 48'N; 119° 44'W

PHYSIOGRAPHY

Topographic relief is generally moderate on the Peachland group with elevations averaging around 1700 feet above sea level. There are some areas of steep local topography on the property whose elevations range from 1150 feet to 3000 feet.

Light timber cover of pine, spruce and fir, with underbrush near creeks and at lower elevations cover the property.

PROPERTY

The property consists of the following recorded mineral claims:

<u>Name</u>	<u>Claim</u>	<u>Record Number</u>
Rohanne	15-18	27928-27931
	19	27997
	21-22	27999-28000
	29-35	28128-28134
	36-39	28283-28286
KEL	10-17	28151-28158
ZN	1-18	28745-28762

All claims are recorded in the Osoyoos Mining Division.

Several zinc-copper occurrences have been explored by old workings on the property, the most extensive occurring in the vicinity of the central area of the geochemical survey.

GEOCHEMICAL SURVEY

Samples were collected at 200 foot intervals on north-south flagged grid lines which were established using chain and compass. The lines are 400 feet apart, with three interceding lines at 200 foot intervals between lines 4W and 8E.

The initial grid established and reported on in May, 1972 from lines 16W to 8E has been extended to the west and to the northeast with about 46,000 feet of new grid. All of the new grid has been sampled at 200 x 400 foot spacing.

FIELD PROCEDURES

Soil samples were collected using a shovel. Samples were taken from 6 to 12 inches of depth and placed in Kraft paper sample bags. Notes were taken at each station regarding the direction and slope of the topography. The slopes were estimated, in most cases overestimated.

The work was done during several weekends over the summer of 1972 by G. E. Decario, A. Cromwell, G. M. Begg and R. Minor, for Vega Mines Ltd. (NPL).

ANALYSIS

All samples were sent to Crest Laboratories (B.C.) Ltd. All samples had a minus 80 mesh fraction taken for digestion in perchloric nitric acid. Quantitative analysis was conducted for ppm copper and zinc content by atomic absorption.

RESULTS

Cumulative percent frequency distribution curves for copper and zinc results are included in this report. A total of 355 samples were analysed.

Copper values range from 5ppm to +2000 ppm. The graph curve breaks indicate a background of 35 ppm copper and a low anomalous value of 65 ppm copper. The top 2.5% of copper values are those greater than 170 ppm which are statistically very highly anomalous.

Zinc values range from 14 ppm to 1800 ppm. The graph for zinc values shows a background of about 108 ppm and a low anomalous threshold of 176 ppm. The zinc percent cumulative frequency curve does not have distinctive breaks and the values for background and anomalous samples are approximate. The very high anomalous 2.5% of zinc values are those greater than 400 ppm.

INTERPRETATION

The anomaly on the older central grid is the strongest and most extensive for both copper and zinc. This anomaly stretches from station 20W, 14N southeasterly past the old workings on line 4W where a 2000 ppm copper is the highest value for copper on the grid. This anomaly stretches over 2000 feet of length and 400 feet of width; it has a good dispersion of lower values around it. There is a possibility of its extension off Vega ground to the northwest and southeast. This anomaly

is the strongest and most extensive found thus far on the claim group for both zinc and copper.

Moderately high copper anomalies and isolated spot highs have been found on the more recent geochemical surveys. Isolated very high copper values occur at: station 4E, 2N (320 ppm) with 2 medium high values on line 0 at 4E and 6E; one isolated high is at 6E, 10N; two adjacent very high values are found at 56W, 2N and 60W 4N.

Around the north working at 12E, 40N a moderate anomaly is found associated with very high zinc values, part of a zinc anomaly that extends northward on line 12E.

Zinc anomalies are more numerous than copper. Apart from the anomaly on the north working there is an erratic but extensive anomaly developing on the northeast corner of the grid, with one very high value of 1375ppm at station 28E, 68N.

A poorly defined zinc anomaly is located around very high values at 32W, 8N and 36W 6N, and a spot high sample (500 ppm) is at station 20E 34N; this anomaly appears to have some weak southward extension.

A medium high anomaly has developed on lines 16W and 24W at stations 6N.

The smaller zinc and copper anomalies do not correlate very closely, but there are less copper anomalies than zinc. The zinc anomalies may be important as tracers due to the mobile nature of zinc in groundwaters.

CONCLUSIONS

A strong and extensive anomaly exists on Rohanne 16 striking northwesterly through the old workings.

Smaller or weaker anomalies for both copper and zinc are found with little correlation between the two elements except at the north working. Zinc may, however, be considered as a potential tracer for copper mineralisation despite the lack of zinc anomalies with the smaller copper anomalies.

RECOMMENDATIONS

The anomalous areas, and the isolated very high values, should be soil sampled in detail (100 x 100 feet grid) to help define their orientation and extent.

A detailed geological map should be made of the property to give geochemical data a context for correlation and to assist in planning future work.

A magnetometer survey in conjunction with this work, over the entire grid, would assist both the geological mapping and the interpretation of geochemical data, particularly

around known mineralisation.

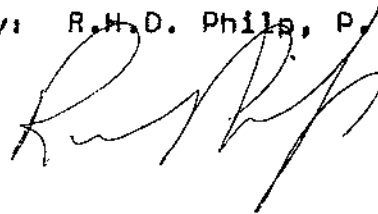
Some effort should be made to acquire the mineral rights to the northwesterly and southeasterly extensions of the main anomaly.

Subsequent to this work, physical work in the form of hand and/or bulldozer trenching to some depth is recommended to evaluate showing prior to possible subsequent geophysical and drilling work.

Submitted by: D.P. Taylor, Geologist



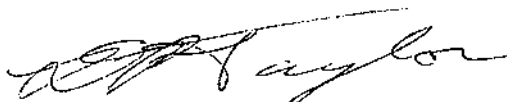
Endorsed by: R.H.D. Philp, P. Eng.



CERTIFICATION

I, David Pelham Taylor of Vancouver, B. C., do hereby certify that:

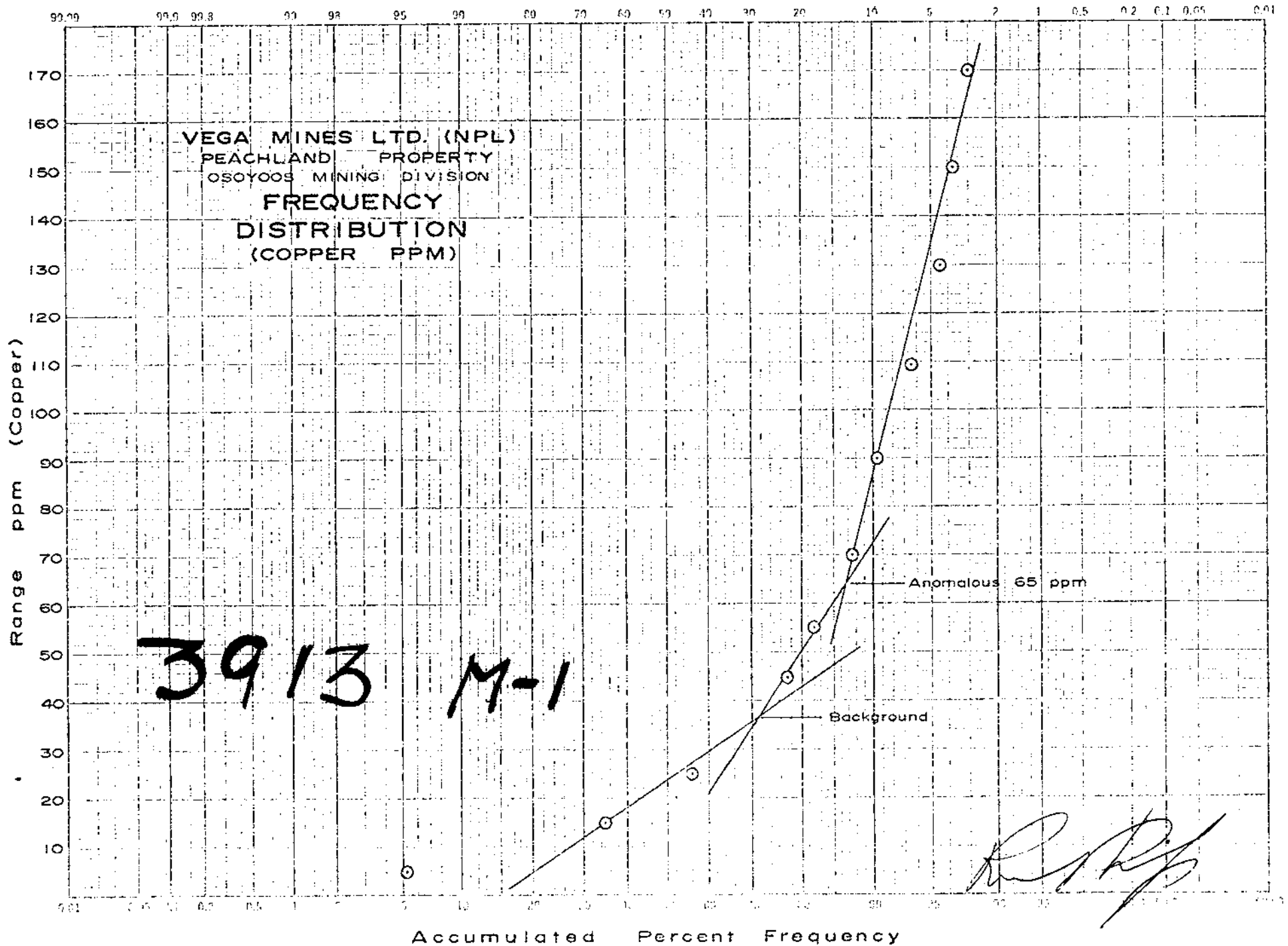
1. I am an exploration geologist residing at 2097 West 6th Avenue, Vancouver, B. C.
2. I am a graduate of the Royal School of Mines, London, Mineral Exploration, MSc. D.I.C. 1971.
3. I have practised as an exploration geologist in B. C. for four years.
4. I have not visited the property subject of this report, but have written it at the request of Mr. G. Begg of Vega Mines Ltd. (NPL) who made all pertinent data available to me.



D.P. Taylor, MSc. D.I.C.

September 20, 1972

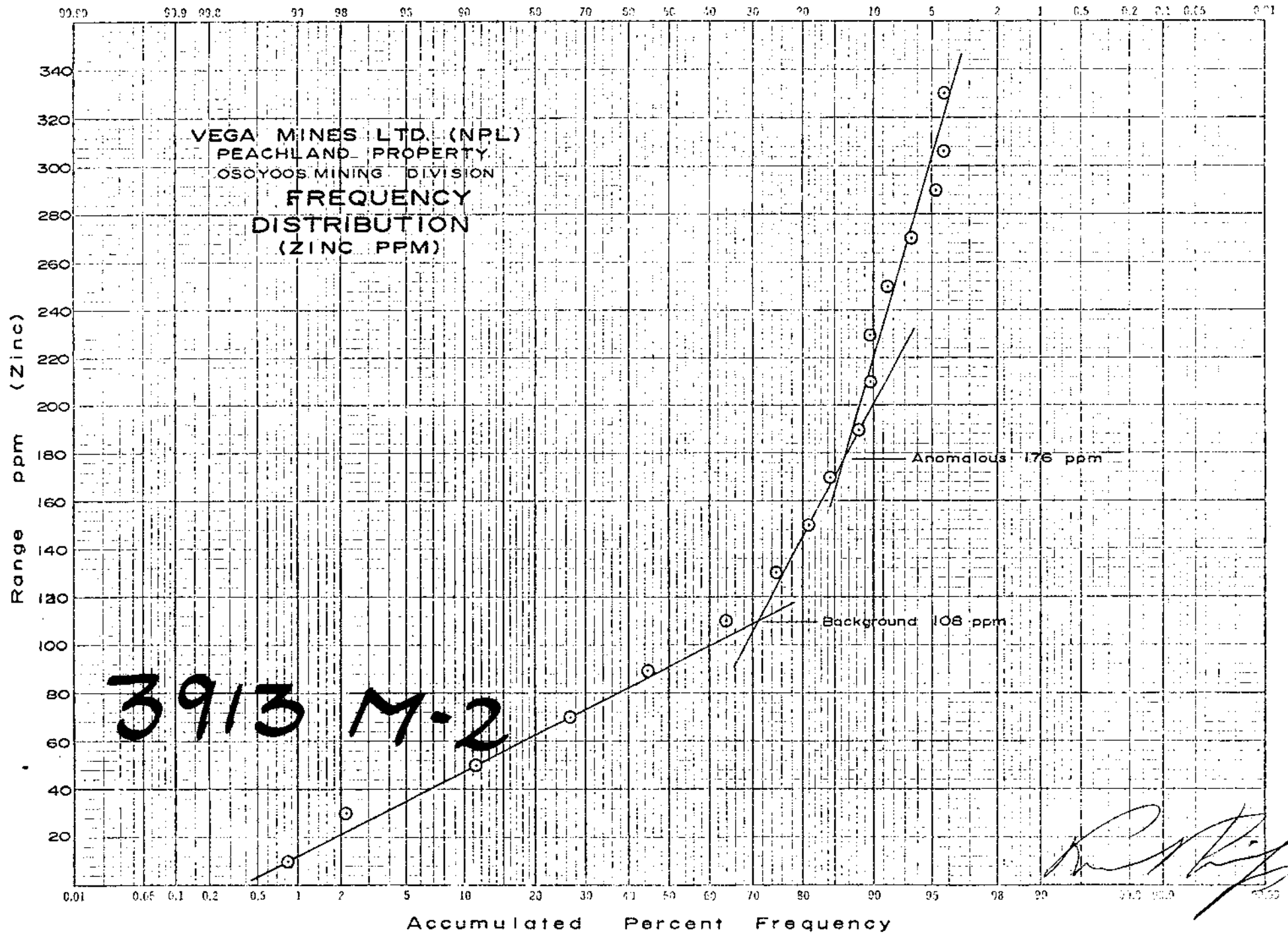
Vancouver, B. C.



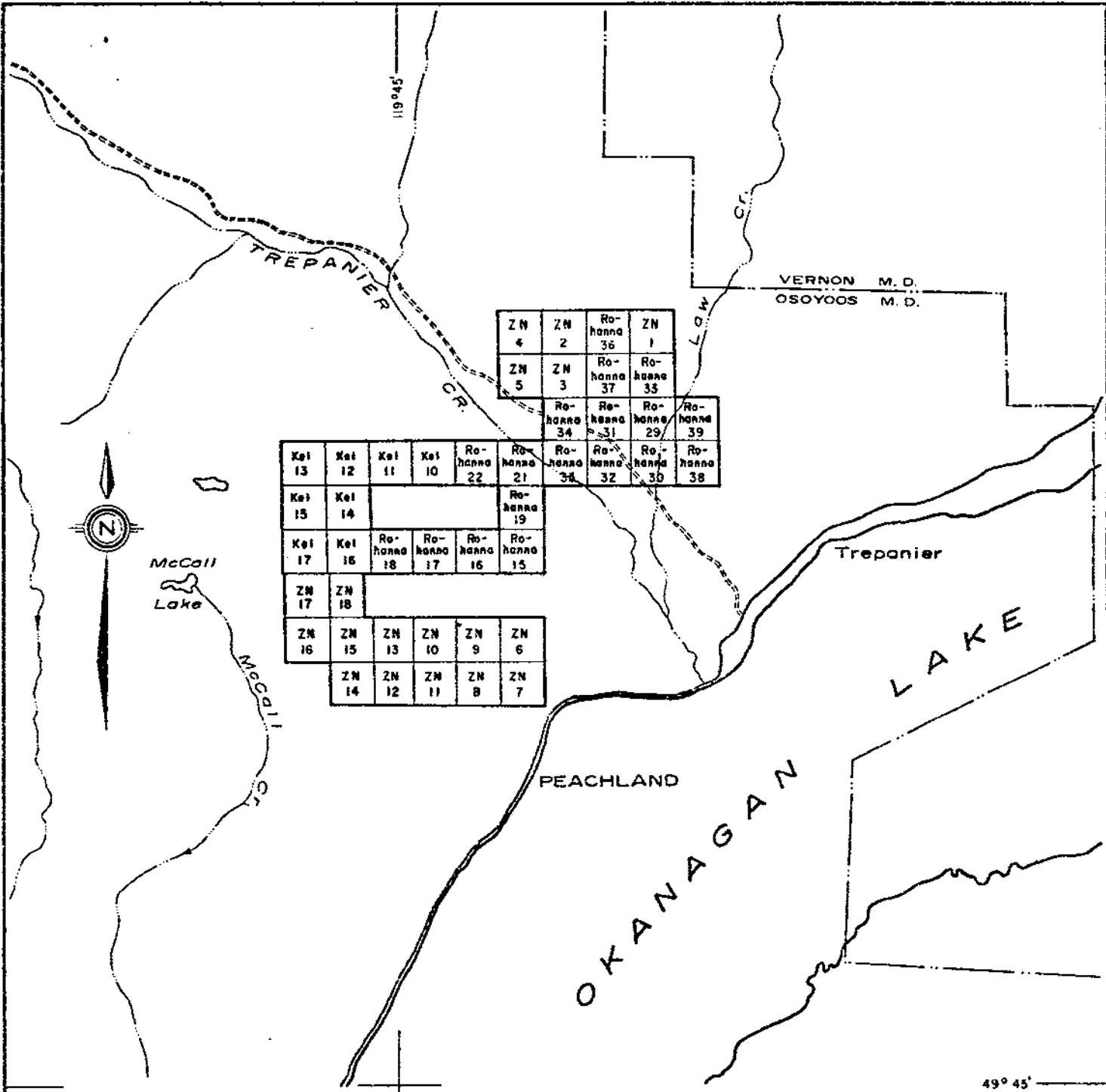
Department of
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ASSESSMENT REPORT

3913 MAP #1



Department of
Manufacturing Resources
ASSESSMENT REPORT
NO. 3913 MAP #2



NOTE: Traced from Dept. of Mines and Petroleum Resources mineral claim maps 82E/13E & 13W. Location of claims may be inaccurate.

3913 M-3

VEGA MINES LTD. (NPL)
PEACHLAND AREA B. C.
OSOYOOS MINING DIVISION

CLAIM
LOCATION MAP

SCALE - 1" = 4500 FT APPROX.

NO. **3913** #3

July 12, 1972

Vega Mines Ltd., (N.P.L.)
1250 - 505 Burrard Street,
Vancouver, B.C.

Lab 844G

Geochemical analysis for copper and zinc

Mesh Size: - 80 and - 100
Analytical Method: Atomic Absorption
Digestion Method: $\text{HClO}_4 + \text{HNO}_3$

Sample Marked:	Copper ppm	Zinc ppm	Sample Marked:	Copper ppm	Zinc ppm
S 180	18	100	S 209 rock	7	60
181	20	56	210 rock	6	90
182	16	104	211 rock	8	66
183	12	58	212 rock	9	62
184 rock	49	68	213	8	80
185	8	92	214	10	104
186	16	62	215 rock	11	70
187 rock	22	124	216	10	120
188	580	136	217 rock	5	92
189	75	114	218 rock	10	58
190	21	72	219 rock	128	130
191	52	82	220 rock	9	54
192	25	84	221 rock	11	68
193	28	106	222 rock	34	78
194	28	152	223 rock	34	62
195 rock	18	72	224	20	72
196	20	30	225	26	66
197	13	14	226 rock	18	62
198 rock	11	116	227	22	66
199	17	122	S 228	20	60
200 rock	44	118			
201	23	90			
202 rock	10	48			
203 rock	8	48			
204 rock	24	50			
205 rock	11	52			
206 rock	8	58			
207 rock	11	40			
S 208 rock	6	48			

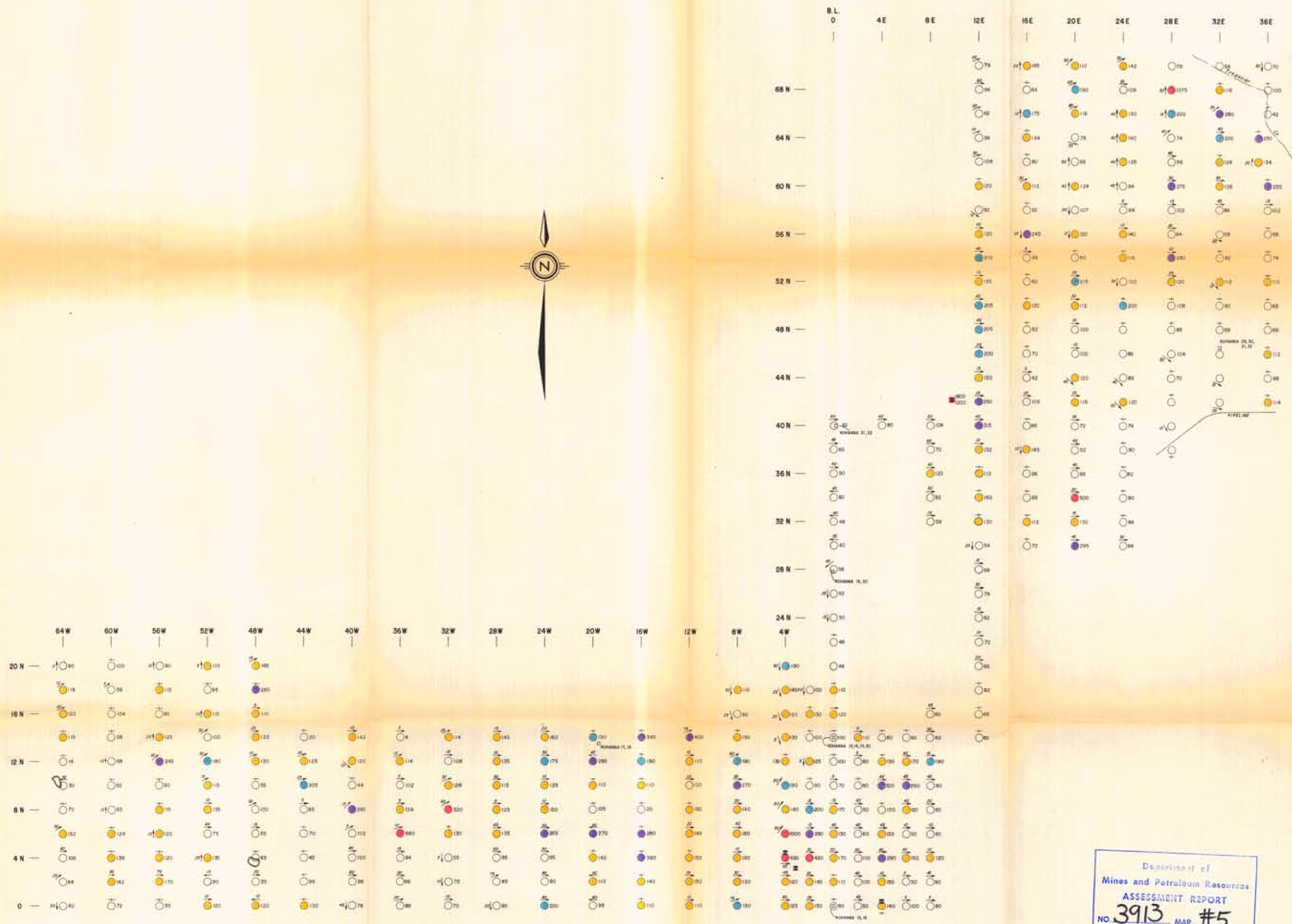
Yours truly,

CREST LABORATORIES (B.C.) LTD.,

F.C. Burgess

F.C. Burgess

Chief Assayer



- LEGEND**
- Sample location
 - ↘ Downward slope of ground in degrees
 - + Flat ground
 - Claim post
 - ⊠ Shaft or tunnel
 - Pond
 - 110 - 174 ppm
 - 175 - 239 ppm
 - 240 - 400 ppm
 - > 400 ppm

M E I P 3913 M-5

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3913 MAP #5

AGILIS EXPLORATION SERVICES LTD.
VEGA MINES LTD. (NPL)
PEACHLAND PROPERTY
OSBOYOS MINING DIVISION

GEOCHEMICAL SURVEY
ZINC (ppm)

SCALE IN FEET
400 0 400 800 1200

SEPTEMBER 1994

Department of
 Mines and Technical Resources
 Analytical Services
 NO. **3913**

May 25, 1972

Armstrong, Brawner, Speton & Philips,
 1250 - 505 Burrard Street,
 Vancouver, B.C.

Lab 801G

Geochemical analysis for copper and zinc

Mesh Size: - 80
 Analytical Method: Atomic Absorption
 Digestion Method: $\text{HClO}_4 + \text{HNO}_3$

Sample Marked:	Copper ppm	Zinc ppm	Sample Marked:	Copper ppm	Zinc ppm
S - 91	130	190	S - 120	30	128
92	140	295	121	48	108
93	30	110	122	24	114
94	34	105	123	26	88
95	92	270	124	29	114
96	42	140	125	14	102
97	46	110	126	14	134
98	52	95	127	24	690
99	104	200	128	34	94
100	44	90	129	21	66
101	78	95	130	38	88
102	104	265	131	128	78
103	28	150	132	76	98
104	76	125	133	80	100
105	42	175	134	16	102
106	42	160	135	74	280
107	32	145	136	30	44
108	28	135	137	24	120
109	30	115	138	40	142
110	26	125	S - 139	21	20
111	24	135			
112	24	95			
113	52	85			
114	120	85			
115	36	70			
116	40	70			
117	19	55			
118	38	130			
S-1 119	24	530			

Yours truly,
 CREST LABORATORIES (B.C.) LTD.,
F.C. Burgess
 F.C. Burgess
 Chief Assayer

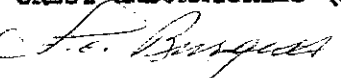
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103	28	150	132	76	98
104	76	125	133	80	100
105	42	175	134	16	182
106	42	160	135	74	280
107	32	145	136	30	44
108	28	135	137	24	120
109	30	115	138	40	142
110	26	125	S - 139	21	20
111	24	135			
112	24	95			
113	52	85			
114	120	85			
115	36	70			
116	40	70			
117	19	55			
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Yours truly,
 CREST LABORATORIES (B.C.) LTD.,

 F.C. Burgess
 Chief Assayer

June 27, 1972

Vega Mines Ltd., (N.P.L.)
1250 - 505 Burrard Street,
Vancouver, B.C.

Lab 832G

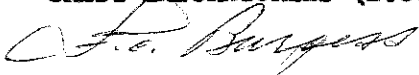
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Digestion Method: $\text{HClO}_4 + \text{HNO}_3$

Sample Marked:	Copper ppm	Zinc ppm	Sample Marked:	Copper ppm	Zinc ppm
S 140	24	125	S 158	20	110
141	14	205	159	36	95
142	26	95	160	32	115
143	64	70	161	18	100
144	14	45	162	26	180
145	24	95	163	24	115
146 rock	136	130	164	56	135
147	40	120	165	18	75
148	14	35	166	20	135
149 rock	22	65	167	20	90
150	14	55	168	26	120
151	20	100	169 rock	74	95
152	16	55	170	275	170
153	20	130	171	28	120
154	14	135	172	18	120
155	20	110	173	16	115
156	46	260	174	44	90
157	58	165	175	94	245
			176	14	125
			177	18	80
			178	12	115
			S 179	14	90

Yours truly,

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F.C. Burgess

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June 27, 1972

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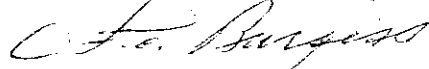
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142	26	95	160	32	115
143	64	70	161	18	100
144	14	45	162	26	180
145	24	95	163	24	115
146 rock	136	130	164	56	135
147	40	120	165	18	75
148	14	35	166	20	135
149 rock	22	65	167	20	90
150	14	55	168	26	120
151	20	100	169 rock	74	95
152	16	55	170	275	170
153	20	130	171	28	120
154	14	135	172	18	120
155	20	110	173	16	115
156	46	260	174	44	90
157	58	165	175	94	245
			176	14	125
			177	18	80
			178	12	115
			S 179	14	90

Yours truly,

CREST LABORATORIES (B.C.) LTD.,



F.C. Burgess

Chief Assayer

July 12, 1972

Vega Mines Ltd., (N.P.L.)
1250 - 505 Burrard Street,
Vancouver, B.C.

Lab 844G Geochemical analysis for copper and zinc

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Analytical Method: Atomic Absorption
Digestion Method: HClO₄ + HNO₃

Sample Marked:	Copper ppm	Zinc ppm	Sample Marked:	Copper ppm	Zinc ppm
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190	21	72	219 rock	128	130
191	52	82	220 rock	9	54
192	25	84	221 rock	11	68
193	28	106	222 rock	34	78
194	28	152	223 rock	34	62
195 rock	18	72	224	20	72
196	20	30	225	26	66
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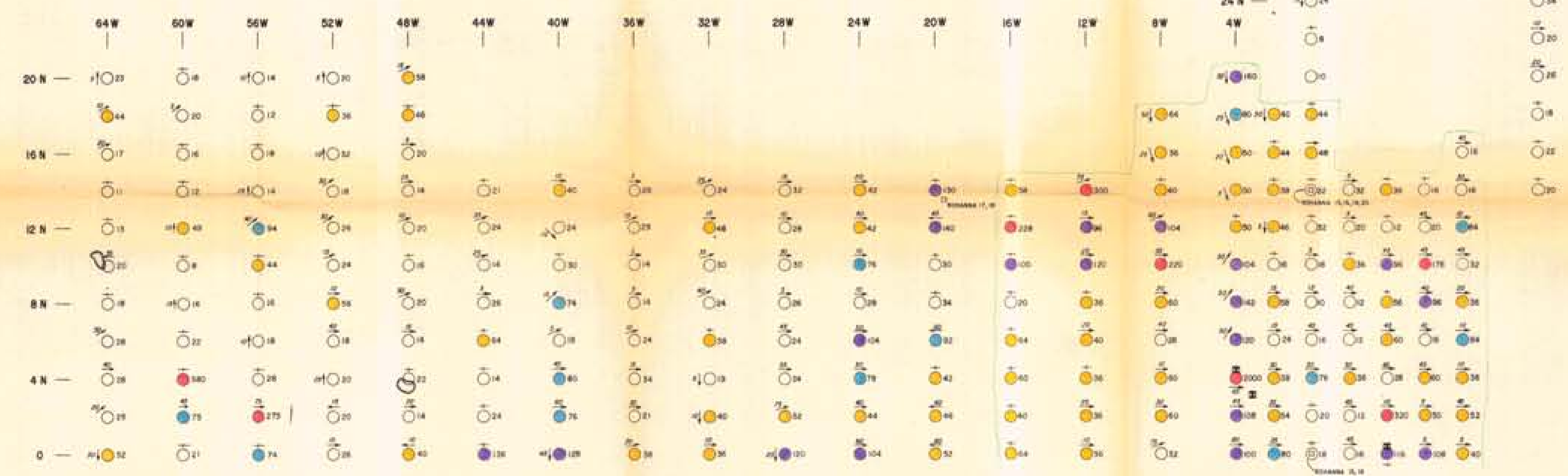
Yours truly,

CREST LABORATORIES (B.C.) LTD.,

F.C. Burgess
F.C. Burgess

Chief Assayer

B.L. 0 4E 8E 12E 16E 20E 24E 28E 32E 36E



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3913 MAP #4

- LEGEND**
- Sample location
 - ⚡ Downward slope of ground in degrees
 - ⊕ Flat ground
 - Claim post
 - Shaft or tunnel
 - Pond
 - 35 - 65 ppm
 - 66 - 95 ppm
 - 96 - 170 ppm
 - > 170 ppm

3913 M.4

AGILIS EXPLORATION SERVICES LTD.
VEGA MINES LTD. (NPL)
PEACHLAND PROPERTY
OSGOOBS MINING DIVISION

GEOCHEMICAL SURVEY
COPPER (ppm)

SCALE IN FEET
0 400 800 1200

SEPTEMBER '72