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Nanaimo Mining District Vancouver Island, British Columbia NTS 92L/8E & L/1E 50°15'N - 126°12'E January 1994

Report Prepared By: **Peter M.D. Bradshaw of Orvana Minerals Corp.** Suite 710 - 1177 West Hastings Street Vancouver, British Columbia, Canada V6E 2K3 Tel: (604) 682-4929 Fax: (604) 682-3888

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JULIET CLAIM GROUP

Nanaimo Mining Division, Vancouver Island, British Columbia NTS 92L1/8
January 1994
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INTRODUCTION

Background

The Juliet claim group was staked by Orvana Minerals Corp. in October 1992 to cover a gold-copper geochemical anomaly identified by an earlier moss mat drainage sediment regional reconnaissance survey. The location of the property is shown in Figures 1 and 2.

This report includes description of geochemical work carried out on the claims during the late fall of 1992 (after the claims were staked) and during the summer of 1993.

Claim Status

The Juliet claim group comprises 40 units in two four post claim blocks as listed below. The registered owner of the claims is Orvana Minerals Corp. The area of the claim group and location of individual claims are shown in Figure 2.

<u>Claim</u>	Record No.	<u>No. of Units</u>	Date of Record	Expiry Date
Juliet 1	314504	20	1992 Oct 22	1994 Oct 22
Juliet 2	314505	20	1992 Oct 23	1994 Oct 23

Work Program

Field work in the area of the Juliet claim group was conducted as part of a larger program of exploration on Vancouver Island. As such a number of visits to the area were made during the summer and fall of 1992 both before and after the claim group was staked. Detailed moss mat drainage sediment samples collected during the summer permitted reliable recognition of an area of abnormal copper and gold geochemistry. The area was then staked by Orvana and the field crew moved immediately to complete a phase of soil sampling along open contour traverse lines. This program was extended in the summer of 1993.

All field work was conducted by employees of Orvana Minerals Corp. with overall co-ordination for the project provided by Andy Laird and Peter Bradshaw.

Location and Access

The Juliet claim group is located over the headwaters of Capulet Creek, within the south western portion of the Eve River catchment area. The claim group is situated some 10 km south of Sayward Junction.

Access to the claims is provided by an extensive system of logging roads which come out of the claims at a low elevation along Capulet Creek. The claims may be reached by driving north along the Island Highway from Sayward Junction to the Rooney Lake Road turnoff and thence south along the logging roads.

Topography and Vegetation

The claim group is located in very rugged and deeply dissected ground within the Vancouver Island Mountain

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Range. Local relief is often extreme with cliffs and scree. The valleys are U-shaped and overdeepened as a consequence of glacial erosion, and cirques are present on the upper flanks of Mount Juliet. The valley floor along Capulet Creek at the common legal corner post of the claims lies at 2500 feet while the summit of Mount Juliet is at 5370 feet.

Much of the area remains old growth coniferous rain forest with very large trees. The lower part of the Capulet Creek valley has been clear cut. At higher elevations the trees give way to alpine meadows and large areas of bare rock and scree.

Soils beneath the old growth forest cover are typically deep organic podzols. In clear cut areas soils have been distributed by the logging operations and the organic layer largely destroyed. Soils on slopes in these areas are often further altered due to erosion of the upper part of the inorganic portion of the profile. At higher elevations and on steeper slopes talus is extensive between bare rock outcrops.

GEOLOGY AND MINERALIZATION

Regional geological mapping by the Geological Survey of Canada shows the area of the Juliet claims as underlain by andesitic volanics of the Karmatsen Formation. Reconnaissance mapping during the soil sampling program indicates interbedded pillow basalts and very fine grained thin bedded dark basaltic (?) tuff or fine grained flows. Minor felsic volcanics (tuff?) and very minor coarse diorite (Island Intrusive), are found in float, both with only minor iron oxide stain. There are a series of fracture zones parallel to the axis of a broad gently north plunging anticline.

There are no published reports (Minfile, Assessment Reports etc) of mineralization in the Juliet claim area. The mineralization observed on the property is a strongly pyritic thin bedded units both above and in a Northsouth trending narrow shear or fracture zone with minor quartz. The pyritic is fine grained, disseminated and euhedral.

1992-1993 EXPLORATION PROGRAM

General

The Juliet claims were staked in October 1992 on the basis of a moss mat geochemical exploration program. Immediately following the claim staking four soil lines were run. In August 1993 these lines were extended to close off the defined anomalies.

Soil Sampling

Soil samples were collected at 40 metre intervals along contour traverse lines across the claim group. At each sample site a hole was dug with a mattock to reveal the full soil profile. Under most circumstances the B horizon was sampled. At a minority of sites the soil profile developed was not amenable to this form of sampling and decomposed rock or C horizon material was collected. Soils within the area are dominantly deep ferro-humic podzols giving way to humic gleysols in depressions and low lying areas, and to thin regosols on very steep slopes and around outcrops.

Samples were collected in high test strength kraft paper bags. Notes were taken at each sample site on the nature of the site, the soil profile and the material collected. These notes are included in Appendix 1 and are

JULIET CLAIM GROUP ♦ Nanaimo Mining Division, Vancouver Island, British Columbia NTS 92L1/8 January 1994 vancisl::juliet.j94 of use in qualifying the interpretation of the geochemical data.

A total of 168 soil samples were collected on the property. All sites were flagged and tagged in the field to enable relocation. The location of all sample sites are shown in Figure 3.

Sample Preparation and Analysis

All soil samples were shipped to Acme Analytical Laboratories, Vancouver, B.C. for sample preparation and analysis.

The soil samples were dried and then dry sieved using an 80 mesh (180 microns) sieve. The minus 80 mesh portion was retained for analysis. All samples were analyzed using the following procedures:

Gold was determined using a 10 gm sample aliquot, ignited at 600°C, digested with hot aqua regia, extracted using MIBK and determined by graphite furnace AA. The detection limit is 1 ppb.

The elements, Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Th, Sr, Cd, Sb, Bi, V, Ca, P, La, Cr, Mg, Ba, Ti, B, Al, Na, K and W were determined simultaneously by ICP emission spectroscopy from a 0.5 gm sample aliquot digested with 3 ml of 3-1-2 HCL-HNO₃-H₂O at 95°C for one hour then diluted to 10 cc with H₂O.

Detection limits for the ICP analysis are:

Ag	0.1 ppm
Cd, Co, Cr, Cu, Mo, Mn, Ni, Sr, Zn, W	1 ppm
As, B, Ba, Bi, La, Pb, Sb, Th, V	2 ppm
U	5 ppm
Al, Ca, Fe, K, Mg, Na, Ti	0.01 %
P	0.001 %

The resulting analytical data were provided in hard copy and in digital format for direct computer manipulation. Copies of the analytical results are presented in Appendix 2 of this report.

Data Handling and Data Presentation

Sample locations were digitized and merged with the analytical results. Maps were then produced over a topographic base of 1:10,000. Element distribution patterns are portrayed individually using graduated dots (blobs) with increasing size of symbol proportional to element abundance. The range of values represented by each dot is set after an examination of the histogram for data from this survey.

RESULTS AND INTERPRETATION

The results for Au, Cu, Mo, Ag, Ba, Pb, Zn and As are given in Figs. 4 to 11 and a summary interpretation map is given in Fig. 12.

Mo shows a strong coherent 600x400m anomaly in the centre of the grid. This has erratic, generally coincident, Cu anomalies with values up to 500 ppm. Au largely fringes the Mo/Cu anomaly to the north and west and, like Cu is very erratic, with values up to 240 ppb Au. Occasional samples are anomalous in Ag, Ba, Pb, and Zn flanking the central Mo, Cu (Au) anomaly.

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The geochemical pattern is consistent with a porphyry Cu/Mo source with associated, but fringing Au. This is similar to the geochemical pattern at Island Copper. However, the observed alteration is very minor and the host rocks are andesitic Karmutsen volcanics rather than Bonanza pyroclastics. Consequently, although the size of the geochemical anomaly is significant the alteration observed to date is not indicative of a large mineral system.

RECOMMENDATION

Two to three days should be spent mapping the area of the Cu, Mo, (Au) geochemical anomaly to:

- (1) determine the extent and type of alteration
- (2) try to determine if there are significant areas of (recessive?) pyroclastics or intrusives which were not observed during soil sampling
- (3) determine if there is any extensive transported overburden which may have masked the geochemical response to underlying mineralization
- (4) sample and assay any mineralized material

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Figure 2: Location of Juliet Claim Group NTS 92L/8E + 1E (1:50,000 scale)



















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STATEMENT OF COSTS

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JULIET PROPERTY October 24, 1992 to August 31, 1993

Salary	\$6374.69
Travel and Meals	1948.55
Publications and maps	166.00
Field Supplies	40.12
Analysis	2041.50
Drafting and Reproduction	820.11
TOTAL	\$11,391.06

STATEMENT OF QUALIFICATIONS

I, Peter M.D. Bradshaw of 4725 Rutland Road, West Vancouver, British Columbia, V7W 1G6 hereby certify that:

- (1) I am a graduate (1962) of Carleton University, Ottawa, Ontario, with a Bachelor of Science degree in Geology; and a graduate (1965) of Durham University, Durham, England, with a Ph.D. in Geology.
- (2) I am a Professional Engineer in the Province of British Columbia.
- (3) I have been practicing mineral exploration for 25 years.

Peter M.D. Bradshaw

APPENDIX 1

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Soil Samples Field Data

Soil Sampling Code Sheet

COORDINATES

Where the coordinates are not contained in the sample number the UTM easting and northing is used.

ELEVATION

in feet

-

LOCAL TERRAIN

ridge crest
knoll or hill top
side slope
base of slope
valley floor
rolling or hummocky ground
terrace
depression of gully
bank of stream or channel

SECONDARY ENVIRONMENT AND STATUS AFFECTING CONDITIONS

SW	swamp, bog
SP	groundwater seepage area
BO	base of outcrop
GO	POSSAN

DRAINAGE STATUS

EX	excessive, all water moves rapidly through the soil
FR	free, normal soil with dominant downward water movement
IM	imperfect
IP	impeded

PARENT MATERIAL

BR	bedrock
TL	talus
CO/CL	colluvium
AL	alluvium
TL/GT	glacial till

SLOPE

in degrees

SLOPE DIRECTION

down hill direction

ROCK FRAGMENTS

The first two letters denote rock type. The last number or symbol is concentration using the G scale.

QV, VQ quartz veins CV carbonate veins

AA	altered andesi	te
HF, HO	hornfels	
FV	felsic volcanic	\$
	dacite	
DC, DA	duke (compos	ite unspecified)
	uyke (compos	ne unspecifica)
RY	rnyoute	
BS, BA	basalt	
DI, DR	diorite	
SY	svenite	
CA BX	carbonate bre	ccia
N N	intrucive (upp	necified)
		pecifical
1F, 1U	turr	
SS	sandstone	
LS	limestone	
MO. MZ	monzonite	
OM	quartz monzo	nite
T A	latite	
IR	tracnyte	
CB	chert bands	
VC, VL	volcanics (min	(ed)
SD, MS	sediments (mi	ixed)
PD	pink diorite	·
CN	conglomerate	
AD	ondesite broo	nio.
AD	andesne breu	-1 a
RD	rnyodacite	
GR	granite	
GS	greenstone	
OP	quartz porphy	TY
AG	argillite	•
GP	ashbro	
	gabbio	
SH	snale	
MD	microdiorite	
MV, BV	mafic (basic) volcanics	
BR	breccia	
G scale		
o beat		
	100 07	
x	100 %	
9	90 %	
8	80 %	
7	70 %	
6	60 %	
5	50 %	
5 A	10 <i>1</i> 0	
4	40 70	
3	30 %	
2	20 %	
1	10 %	
=	5 %	
+	2.5 %	
)	1 %	
•	1 /0 02 07	
	0.5 %	
ι	0.1 %	
-	0.03 %	
•	0.01 %	or trace

VEGETATION

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CF	conifer forest
BR	brush, low bush
OG	old growth
AM	alpine meadows
FG	fern
JP	juniper

FE	iron
MN	manganese
CA	calcium

SAMPLE DEPTH

in cm

.....

COLOR

COATING

The color is described using a two letter color range followed by a single digit lightness scale.

	LIGHTNESS	
red	w	white
brown (amber)	9	palest to
orange	1	darkest
tan (khaki)	N	black
yellow		
green		
blue		
mauve		
white		
gray (ash)		
black (noir)		
	red brown (amber) orange tan (khaki) yellow green blue mauve white gray (ash) black (noir)	redWbrown (amber)9orange1tan (khaki)Nyellowgreenblue

PERCENT OF DIFFERENT PARTICLES

Using the G scale

MAXIMUM PARTICLE SIZE

The largest particle in the sample as taken from the ground

L	very small pebble	6
М	small pebble	11
N	medium pebble	23
0	large pebble	45
Р	small cobble	90
Q	large cobble	180
R	small boulder	360
S	medium boulder	725
Т	large boulder	1450
U	very large boulder	2900

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		╊┽╋┽╂╌┝╌╊╌┽┫╶┠╶╿╶╊╴┼╌┽╴╊╶┼╍┥	┝╍╋╌╂╌╂╶╏╴┥╸┥╴┥╴┥╴┥	
	╶┲╌┠╌┟╌┟╌┾╼┝╶╂┅┝╶┽╌┝╌╂╺┼╶┣╾┧╺	╆╍╪╉╼╪╌┠╌╞╼╂╌┽╼╂╌╬╌╉╌╬╌╉╌╬╌┫╴		
	╪╌┨╶┿╌┼╾╇╍╂╌┽╌┼╼┾╸┨╺┽╺╂╌┥╶			
	╶╴┫╴┼╴┫╴┼╴┫╴┼╴╋╺┝╴	╊╼╟╍┨╍╁╍╋╼┼╾┫╾┽╼┨╌┽╼┽╼┼╌╋╶┿╼┥	┣╋╋╋╋╋╋╋╋╋	
	╶╦╴╉╼┞╼╄╼┨╺╃╼╊╼╏╶┞┈┾╼┫━┼╸┠╺╄╶	╵┟╌┼╺╉╍┡╍╊╶┾╍┠╌┼╸╂╶╃╶┼╌╂╼┿╶┽╶╂╶┽╼┥	┝╍╊╼╄╼╀╌╄╼╀╶┼╌┼╴┽╶┨╴┅┝┥╽╻┥╴┥	
	<u>╶</u> ╴┲╴┼╶┲╌┼╌┟╸┽╺╂╴┼╴╂╶┼╸	╊╼╈┲┯╼╁╶╪╌╂╌╉╶╄╼╉╌┿╼┽╶┠╼╤┥	┝╋┽┽┽┼┼┼┼┼┼┼┼╴	
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	<u>┥╻╷┍╷╷</u> ╻┍┾╷╷ _{╋╺╋╸}	╏╞╋╔╗╗╎	┝╴╂╌┠╌╿╴╎╴╎╴╎╴╎╴╎╴╎╴╎╴╎╴╎╴╎╴╎╴╎	
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396-120	3660 55	FRCK 35 337	AB AB	X	AM	25325011 531 35322 VU 622
376-200	3660 55	FRCL 32335	ABSSS		<i>A.M</i>	20364043322
396 - 240	3660 55	FRCL 42320	<u>A 17</u>		AM	16 525045221
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$\frac{10}{39C} - 400$	3-00 55	FRCL 38297	<u>AM</u> 10 10	X	0G	40 81250 4 5 3 11
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396-620	3220 SS	FRCL 32307	<u>9 B</u> 115 15	\mathbf{v}	0G	30824044222
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		╶┨╺╉╌┾┄┾┅┼╍┠╍╎╼╊╍┥╺┼╌┠╾┽╾┼╶┾		╺╸╴╸╺╴╴╴		╺┿┲┠╼╪╼╀╼╌╧╍╃╶╂╶┠╼╌╧
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APPENDIX 2

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Soil Samples Analytical Results

JULIET CLAIM GROUP

Nanaimo Mining Division, Vancouver Island, British Columbia NTS 92L1/8
January 1994
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Orvana Minerals Corp. PROJECT JULIET FILE # 93-1889

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SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe X	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P X	La ppm	Cr ppm	Mg X	Ba ppm	Ti %	8 ppm	Al X	Na %	K X	W ppm	Au* ppb
39C/00 39C/40 39C/80 39C/120 39C/160	ব ব ব ব ব	426 105 75 115 160	5 12 6 2	128 46 39 73 53	.5 3.5 1.0 .5 .5	63 20 13 22 30	53 13 9 22 19	1067 299 197 939 497	5.43 9.17 10.14 5.00 5.46	82 23 16 41 20	<5 <5 5 5 5 5 5	<2 <2 <2 <2 <2 <2 <2 <2 <2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	48 19 12 49 26	1.4 1.4 .8 .2 .2	<2 <2 2 5 <2	<2 <2 <2 <2 <2 <2 <2	124 201 236 119 119	.77 .25 .20 .49 .74	.052 .036 .037 .059 .049	4 4 3 5 4	59 72 65 54 54	1.59 .62 .37 .77 1.18	34 18 9 34 20	.28 .73 .73 .29 .46	<2 <2 <2 <2 <2 <2 <2 <2	4.22 3.10 2.46 5.48 4.66	.03 .02 .01 .02 .02	.03 .02 .03 .02 .02	<1 1 2 <1 <1	19 8 9 10 13
39C/200 39C/240 39C/320 39C/360 39C/400	ব ব ব ব ব	153 124 111 115 95	22 11 <2 9 <2	79 52 48 50 52	.2 .2 .1 .4 .1	38 29 24 29 21	38 18 17 19 23	1254 423 420 382 688	6.04 7.01 9.19 7.00 6.80	32 22 31 20 26		<2 <2 <2 <2 <2 <2 <2	<2 <2 <2 <2 <2 <2 <2	73 33 137 275 79	.6 .4 <.2 <.2 <.2	2 ~2 ~2 ~2 ~2 ~2 ~2	<2 <2 <2 <2 3	142 193 232 132 151	1.32 .82 .94 1.06 1.49	.042 .033 .071 .055 .038	5 4 3 3 3	50 59 52 43 41	1.38 .94 .84 1.06 .80	24 21 37 57 42	.45 .71 .59 .29 .50	2 <2 <2 <2 <2 <2	4.52 4.03 3.71 4.34 3.59	.04 .02 .03 .05 .05	.02 .02 .03 .03 .06	3 <1 1 <1 2	9 11 3 3 3
39C/440 39C/480 RE 39C/480 39C/520 39C/580	<1 <1 <1 <1 <1 2	66 105 110 125 144	<2 4 <2 <2 <2	26 53 56 37 59	.3 .5 .4 .2	11 23 25 22 35	10 23 25 29 44	504 652 677 730 1383	8.15 7.94 8.24 8.07 7.55	16 13 20 18 7	ও ও ও ও ও ও ও ও ও ও ও ও ও ও ও ও ও ও	~ ~ ~ ~ ~ ~ ~ ~	<2 <2 <2 <2 <2 <2 <2 <2 <2 <2	27 71 74 97 149	<.2 <.2 <.2 <.2 <.2	<2 <2 4 <2 3	4 २ २ २ २ २ २ २ २	275 172 175 170 143	.40 1.01 1.07 1.34 1.74	.041 .042 .044 .054 .039	3 3 4 4 4	55 56 59 59 60	.36 .69 .73 .73 1.22	12 24 26 40 65	.70 .51 .51 .46 .47	<2 <2 <2 <2 <2 <2	1.97 4.07 4.30 4.29 5.64	.01 .03 .03 .06 .07	.02 .02 .02 .03 .02	<1 <1 <1 <1 <1	4 11 12 5 3
39C/620 39C/660 39C/700 45/160 45/200	<1 <1 <1 <1 <1 <1	155 105 128 109 66	<2 3 2 6	66 57 67 51 30	<.1 .1 1.5 .2 <.1	40 32 23 21 12	59 54 21 15 8	1774 2342 1469 322 267	7.24 7.48 7.15 8.01 8.17	10 <2 26 25 21	ও ও ও ও ও ও ও	~? ~? ~? ~?	< < < < < < < < < < < < < < <> </td <td>122 135 53 18 12</td> <td><.2 <.2 <.2 <.2 <.3</td> <td>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</td> <td>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td> <td>148 165 203 222 255</td> <td>1.93 1.80 1.49 .31 .28</td> <td>.038 .035 .079 .035 .025</td> <td>5 3 5 3 3</td> <td>61 69 67 69 61</td> <td>1.47 1.28 .63 .67 .36</td> <td>67 86 25 15 8</td> <td>.45 .45 .58 .70 .77</td> <td><2 <2 <2 <2 <2 <2</td> <td>5.00 4.68 4.61 4.52 2.42</td> <td>.06 .06 .02 .01 .01</td> <td>.04 .03 .03 .02 .01</td> <td><1 <1 <1 <1 1</td> <td>3 2 21 23 17</td>	122 135 53 18 12	<.2 <.2 <.2 <.2 <.3	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	148 165 203 222 255	1.93 1.80 1.49 .31 .28	.038 .035 .079 .035 .025	5 3 5 3 3	61 69 67 69 61	1.47 1.28 .63 .67 .36	67 86 25 15 8	.45 .45 .58 .70 .77	<2 <2 <2 <2 <2 <2	5.00 4.68 4.61 4.52 2.42	.06 .06 .02 .01 .01	.04 .03 .03 .02 .01	<1 <1 <1 <1 1	3 2 21 23 17
45/240 45/280 45/320 45/360 45/400	<1 <1 <1 <1 <1	167 129 61 92 105	7 2 16 4 4	44 44 33 50 34	.2 <.1 .3 .6	28 21 9 16 12	18 15 7 15 9	382 433 285 346 246	11.92 14.06 14.35 9.22 11.73	23 3 <2 12 7	11 5 5 5	<2 <2 <2 <2 <2 <2	2 ~2 ~2 ~2 ~2 ~2	16 16 9 15 11	.4 <.2 <.2 .8 <.2	5 ~2 ~2 ~2 ~2 ~2	4 3 <2 3 2	273 296 407 262 268	.18 .17 .20 .31 .22	.022 .042 .042 .054 .054	3 2 3 3 3	116 101 72 51 70	.76 .74 .26 .50 .36	17 8 12 8 16	.81 .89 1.15 .75 .81	<2 <2 <2 <2 <2 <2	6.21 3.87 1.95 2.71 3.19	.01 .01 .01 .01 .01	.01 .02 .02 .02 .03	<1 1 2 2 1	17 8 6 3 3
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45/640 45/680 45/720 45/760 45/800	<1 <1 <1 1 3	135 68 154 505 172	11 3 5 4	53 31 56 68 40	.2 .1 .2 <.1 .3	29 11 40 87 13	18 9 24 90 9	384 235 402 495 126	12.14 10.77 13.03 5.69 4.87	<2 9 17 23 9	8 <5 <5 <5	<2 <2 <2 <2 <2	<2 <2 <2 <2 <2 <2	13 17 18 230 23	.3 .2 <.2 <.2 <.2	3 <2 <2 2 2	<2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <	269 300 267 117 98	.25 .27 .36 2.03 .25	.029 .035 .028 .027 .032	2 3 2 ~2 3	108 66 105 39 36	.92 .34 1.38 .54 .30	14 12 15 63 15	1.01 .73 1.00 .19 .29	<2 <2 4 <2 <2	4.57 2.83 5.06 7.90 4.85	.01 .01 .02 .12 .02	.02 .02 .02 .10 .02	2 1 <1 2 3	5 6 41 10 200
458/560 458/600 STANDARD C/AU-S	2 2 18	169 115 60	<2 2 37	45 40 128	.4 .5 6.8	34 20 65	23 13 31	263 195 1027	9.51 6.00 3.96	8 14 39	<5 <5 15	<2 <2 7	<2 <2 35	31 26 51	<.2 .2 18.4	4 <2 14	2 3 16	199 132 56	.33 .25 .50	.037 .038 .086	3 3 34	62 43 61	.83 .44 .89	22 19 184	.48 .37 .09	2 <2 32	3.52 4.15 1.88	.02 .01 .06	.03 .03 .13	4 <1 11	83 8 53

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

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Orvana Minerals Corp. PROJECT JULIET FILE # 93-1889

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SAMPLE#	Mo ppm	Cu ppin	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe X	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg X	Ba ppm	Ti %	B A ppm	1 X	Na %	K X	W ppm	Au* ppb
458/640 458/680 458/720 458/760 458/800	2 2 1 <1 <1	236 328 171 230 174	<2 17 2 10 <2	76 72 66 305 56	.3 1.4 1.2 1.9 .2	41 38 36 23 31	28 38 24 18 25	316 525 302 288 253	7.31 8.73 10.16 11.90 7.02	10 10 9 6 <2	ৎ ৎ ১ ৩ ৩ ৩	<2 <2 <2 <2 <2 <2	<2 <2 <2 <2 <2 2	69 11 82 19 66	<.2 .5 .4 1.1 <.2	<2 <2 <2 <2 <2 <2	<2 <2 <2 5 <2	137 121 200 241 126	.31 .10 .48 .17 .37	.051 .091 .057 .081 .068	<2 3 <2 2 <2	71 66 70 68 56	1.13 1.19 .82 .47 .76	41 21 59 14 37	.27 .04 .32 .16 .36	<2 7.1 2 6.9 <2 5.3 <2 4.5 <2 8.3	5 9 9 1 1	.02 .01 .04 .01 .02	.02 .02 .02 .01 .02	<1 1 <1 <1 1	22 23 4 6 6
458/840 458/880 458/920 458/980 48/360	1 2 1 <1	155 170 189 250 165	<2 <2 <2 4 <2	45 32 60 70 33	.1 .2 .7 <.1	31 24 40 39 17	21 20 27 23 12	240 162 358 406 196	10.64 8.20 9.42 7.67 8.83	<2 <2 <2 3 <2	<5 <5 <5 5 5 5	~ ~ ~ ~ ~ ~ ~ ~	2 <2 3 2 2	45 26 44 61 22	<.2 .3 <.2 <.2 <.2	<2 <2 <2 <2 <2 <2	~ ~ ~ ~ ~ ~ ~ ~	192 148 214 187 204	.27 .28 .32 .35 .25	.043 .072 .043 .045 .040	<2 <2 <2 <2 <2	77 45 61 56 51	.61 .39 1.36 1.40 .24	39 23 33 33 23	.43 .46 .48 .34 .40	<2 7.2 <2 6.7 2 6.0 <2 6.7 <2 6.7	20 73 15 15	.02 .02 .02 .02 .02 .02	.02 .02 .03 .03 .03	1 <1 <1 <1 1	2 5 3 59 7
48/400 48/440 48/480 48/520 48/560	1 1 1 1 1 1 1 1	176 176 181 248 283	<2 5 <2 4 <2	39 47 40 104 78	.1 <.1 1.3 .6 .7	24 27 23 39 30	18 25 17 24 31	127 186 266 521 3347	10.55 10.85 8.90 6.29 5.65	3 17 <2 30 5	ও ও ও ও ও	<2 <2 <2 <2 <2 <2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	25 36 53 41 171	<.2 <.2 <.2 .6 <.2	<2 ~ 2 <2 ~ 2 <2 ~ 2 <2 ~ 2	4 <2 <2 <2 <2	211 247 197 147 124	.19 .30 .41 .54 .80	.139 .102 .098 .061 .126	< < < < < < < < < < < < < < < < < < <> 	53 57 51 41 50	.50 .53 .50 1.00 1.10	22 24 20 37 99	.42 .77 .64 .39 .19	<2 5.0 <2 4.1 <2 4.1 <2 4.1 2 5.1	56 10 39 43 17	.01 .02 .02 .04 .06	.02 .04 .03 .04 .09	1 1 1 <1	10 14 41 39 22
48/600 48/640 48/680 48/720 48/760	1 <1 <1 <1 <1	90 145 99 207 112	5 4 3 3 4	34 42 36 54 59	.4 .1 <.1 .2 .1	14 24 17 37 31	12 19 12 19 16	275 174 167 435 461	6.79 8.94 11.06 5.44 9.21	8 <2 <2 <2 <2	ৎ ৎ ও ও	<2 <2 <2 <2 <2 <2	<2 2 3 <2 2	56 60 25 79 104	.3 <.2 <.2 <.2 <.2	3 2 ~2 ~2 ~2 ~2	<2 <2 3 <2 3	140 248 251 131 236	.28 .45 .25 .65 .63	.069 .057 .080 .041 .055	<2 <2 <2 <2 <2 <2	33 45 67 44 52	.27 .51 .26 .74 .87	26 27 19 94 50	.45 .66 .76 .45 .90	3 3.3 3 4. <2 4. <2 5.0 <2 4.0	29 73 12 02 03	.02 .03 .02 .04 .03	.03 .03 .04 .04 .06	1 1 <1 <1	17 10 5 10 13
48/800 488/00 488/40 488/80 RE 488/280	<1 1 1 1 1	88 110 204 77 278	5 2 16 2 5	58 35 39 21 98	<.1 .5 .6 1.2 .3	32 20 20 7 46	16 14 21 5 41	329 280 358 64 1228	7.73 10.01 6.72 4.25 6.65	<2 <2 67 4 2	<5 <5 <5 5	~ ~ ~ ~ ~ ~ ~	<2 2 2 2 2 2 2 2 2 2 2 2 2 2	69 20 86 78 31	<.2 .2 .3 .4 <.2	<2 <2 4 2 <2	<2 <2 <2 <2 <2 <2	170 209 100 90 139	.42 .30 .33 .35 .55	.046 .054 .055 .051 .074	<2 <2 <2 <2 <2 <2 <2	39 44 36 29 65	.83 .48 .50 .10 2.03	43 16 28 18 25	.38 .65 .27 .35 .51	<2 5. <2 3. 2 3. 2 3. <2 6.	19 36 93 11 29	.02 .02 .03 .02 .02	.07 .03 .03 .02 .04	<1 <1 3 <1 <1	9 16 240 9 22
488/120 488/160 488/200 488/240 488/280	1 <1 <1 <1 <1	137 100 96 172 276	2 12 6 4	33 38 43 78 97	.4 .5 .1 .5 .4	12 13 20 31 44	29 9 11 26 42	2550 175 205 1779 1277	4.69 8.93 12.26 6.31 6.62	3 6 ~2 ~2 ~2		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<2 2 4 2 2 4 2 2	43 28 11 23 30	.2 .5 .5 <.2 <.2	<2 <2 <2 <2 <2 <2	<2 <2 3 <2 <2	74 166 252 182 137	.41 .18 .16 .38 .52	.538 .060 .038 .071 .072	2 6 ~2 ~2 2	46 63 64 64 64	.21 .42 .75 1.45 2.02	34 16 15 24 25	.16 .55 .81 .68 .50	2 7. <2 3. <2 3. <2 5. <2 6.	03 26 31 34 33	.03 .01 .01 .02 .02	.04 .04 .02 .02 .04	1 1 <1 <1	5 16 18 63 31
488/320 488/360 488/400 STANDARD C/AU-S	<1 <1 <1 20	119 193 104 63	<2 <2 2 41	46 65 40 136	<.1 .1 .3 7.3	21 36 18 71	12 23 12 32	230 452 221 1076	12.64 6.76 7.31 4.09	<2 <2 3 46	<5 <5 <5 15	<2 <2 <2 7	3 <2 <2 38	18 41 47 54	<.2 <.2 <.2 16.6	<2 <2 <2 15	2 <2 <2 21	239 145 156 61	.17 .61 .45 .51	.038 .031 .033 .088	<2 <2 <2 42	87 67 57 62	.68 1.69 .60 .92	17 33 27 191	.79 .62 .56 .09	<2 4. <2 5. <2 4. 31 1.	34 69 38 94	.01 .03 .03 .07	.03 .02 .02 .15	<1 1 <1 11	8 20 19 48

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Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

ACT MAL TIEAL					Orv	vana	n Mi	ine	rals	s Co	orp	. PI	ROJI	ECT	JUI	LIEJ	C F	FILE	C #	93-	-158	3					Pag	ie 2			
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe X	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg X	Ba ppm	Ti X	8 ppm	Al X	Na X	K X	W ppm	Au* ppb
48/00 48/40 48/80 48/120 48/160	<1 1 1 2	85 270 117 146 79	3 <2 2 <2 5	27 33 23 25 25	.3 .6 1.3 .4 .3	13 24 16 21 15	9 58 8 14 11	130 1225 118 150 151	3.10 3.48 4.01 6.47 8.74	4 <2 6 3 9		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	24 136 34 45 31	<.2 <.2 <.2 <.2 <.2 <.2 .3	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	111 47 86 127 220	.67 .95 .37 .33 .20	.028 .070 .030 .035 .034	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	25 18 25 32 30	.36 .17 .36 .36 .31	9 36 15 39 22	.40 .10 .37 .50 .57	43442	1.67 4.55 2.41 4.89 2.66	.03 .05 .02 .02 .01	.02 .03 .02 .02 .03	<1 1 <1 1 <1	12 14 11 19 13
48/200 48/270 RE 48/80 48/320 STANDARD C/AU-S	2 3 1 2 17	291 130 112 135 62	<2 <2 3 <2 33	26 23 26 29 125	.4 .5 1.4 .3 6.4	30 13 15 15 67	15 7 8 8 30	128 80 99 130 1107	6.22 6.51 4.02 8.61 3.96	5 3 3 8 41	<5 <5 <5 <5 15		<2 <2 <2 <2 <2 34	85 35 32 63 52	<.2 <.2 <.2 .2 16.9	<2 <2 <2 <2 <2 14	<2 <2 <2 <2 <2 16	104 134 87 142 53	.36 .21 .35 .38 .52	.028 .032 .028 .046 .086	<2 <2 <2 <2 <2 37	23 25 24 28 55	.35 .11 .33 .17 .91	62 22 14 30 194	.30 .39 .37 .41 .08	2 4 2 33	7.48 3.63 2.38 2.56 1.88	.04 .01 .02 .02 .06	.03 .02 .01 .02 .14	<1 <1 <1 <1 10	39 11 11 4 45
Sample type: SOIN	<u> Sa</u>	<u>mples</u>	<u>begi</u>	<u>nning</u>	<u>'RE</u>	are_	<u>dupli</u>	<u>cate</u>	sampl	<u>es.</u>																					

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ACME ANALY	FICA	T T	ABOR	ATO	RIES	LTD	•	8	52 E	. HA	STIN	GS	ST.	VAN	COUV	ER B	.c.	V6	A 11	1 6	P	HONI	E(60	4)25	3-31	158	FAX	(604)253-	1716
AA			-				07	van	G) a M	EOCH	EMI ale	CAI	i AN	IAL) T	SIS 711e	CE	RTI 92-	FIC	ATE 9	Pa	це	1							4	A
LL							710	- 11	77 W.	Hastin	gs St	, Va	ncouve	r BC	V6E 2	2K3	Subm	tted	by: I	Rob Fr	eder i	cks								L
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe X	As ppm	U ppm	Au ppm	Th	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca X	Р Х	La ppm	Cr ppm	Mg X	Ba ppm	Ti Z	8 ppm	۸۱ ۲	Na %	K X pp	i Au* n ppb
		· · ·																	;											· · · · · · · · · · · · · · · · · · ·
36/00 36/40 36/80	4 17 18	100 406 373	2 5 2	16 74 55	.2 .4 1	13 42 46	4 57 2 27	68 2209 284	6.23 12.65 10.10	2222	5 5 5	ND ND ND	1 1 1	18 125 66	.3 .3 2	2 2 2	322	115 76 136	. 15 .85 .42	.052 .132 .073	2 4 3	55 26 43	.18 .69 .86	17 35 37	.36 .08 .35	4 3 2	7.54 4.42 6.39	.02 .06	.01 .06 .02	1 3 1 6 1 9
398/00 398/40 398/80 398/120 398/160	20 10 3 6 6	259 208 98 147 500	2 2 3 2 2	18 26 25 30 48	 .2 .6 .3 .1 .2	22 11 13 19 33	7 4 6 8 50	83 98 92 136 526	9.74 9.02 6.39 5.93 7.15	2222222	5 5 5 5 5 5 5	ND ND ND ND ND	1 2 1 1 1	49 22 13 20 31	.2 .3 .3 .2 .3	2 7 2 4 5	22222	96 91 136 92 127	.19 .13 .17 .18 .31	.046 .071 .044 .070 .073	2 4 3 4 13	36 43 38 53 51	.31 .18 .26 .45 .87	27 12 13 22 19	.33 .29 .40 .31 .36	3 1 4 3 4	0.07 9.06 4.09 9.05 9.35	.02 .02 .02 .02 .02 .02	.01 .02 .03 .04 .02	1 25 1 6 1 2 1 8 1 3
398/200 398/240 398/280 42/600 42/640	3 6 9 1 3	225 101 472 88 98	9 49 5 7 11	48 48 95 28 33	-4 -5 -5 -1	21 18 84 15 15	52 11 115 11 11	2308 278 1537 158 120	7.19 9.48 7.98 11.57 12.19	5 10 9 2 2	5 5 5 5 5	nd Nd Nd Nd	1 1 1 1 2	78 48 98 13 30	.2 .2 .4 .2 .2	2 2 2 2 2 2	2 2 2 2 2 2 2	127 131 112 384 311	.46 .21 .94 .30 .27	.057 .057 .113 .033 .048	6 3 6 2 2	34 36 46 58 54	.94 .71 1.35 .32 .29	34 34 38 10 15	.27 .19 .24 1.20 .98	4 3 4 3 4	4.50 3.33 5.60 2.42 3.69	.05 .03 .08 .03 .02	.05 .04 .04 .02 .05	1 47 1 5 1 11 1 7 1 7
RE 42/840 42/680 42/720 42/760 42/800	2 1 1 2	294 187 152 76 127	4 7 4 5 4	64 38 31 19 35	.8 .4 .1 .1 .3	51 31 23 11 25	59 15 12 9 14	1765 258 161 114 235	9.96 9.64 3.57 11.38 9.09	32 2 2 6 5	5 5 5 5 5	nd Nd Nd Nd	1 1 1 1	144 25 31 13 32	.2 .2 .3 .2 .2	' 2 2 2 2 2 2	2 2 2 2 2 2	131 236 94 243 213	.92 .34 .46 .15 .43	.077 .053 .064 .055 .045	3 3 2 2	55 68 49 41 48	1.16 .55 .64 .32 .67	51 28 34 12 19	.18 .79 .31 .24 .58	3 3 3 3 4	6.02 7.36 7.65 3.39 3.76	.06 .04 .03 .02 .03	.06 .05 .01 .02 .02	1 18 1 20 1 6 1 1 1 150
42/840 42/880 42/920 42/960 42/1000	2 1 1 2 1	294 114 76 144 205	2 8 5 7 2	65 42 32 38 34	.8 .1 .2 .1 .1	50 18 15 23 30	59 9 6 10 13	1746 236 103 181 180	9.90 14.51 10.36 11.14 8.09	27 2 2 2 3	5 5 5 5 5	nd Nd Nd Nd Nd	1 2 1 1	145 16 9 17 16	.2 .2 .2 .2 .2	2 2 2 2 2 2	2 2 2 2 2	130 286 329 306 188	.93 .21 .19 .27 .25	.076 .055 .049 .038 .033	3 2 3 2 3	55 68 47 53 77	1.18 .33 .21 .55 .69	52 15 13 16 24	.17 .79 .81 .94 .71	2 3 4 3 3	6.00 3.62 2.86 4.10 8.46	.06 .03 .02 .03 .03	.08 .04 .05 .02 .03	1 18 1 3 1 7 1 9 1 63
42/1040 42/1090 42/1130 42/1160 42/1200	1 1 6 3	152 137 300 237 243	6 6 7 5 2	34 54 76 25 22	.6 .5 .3 .4 .1	30 41 61 29 24	13 13 42 13 13	182 229 434 93 90	11.67 10.59 7.44 8.33 7.81	3 2 8 2 2 2	7 5 5 5 5	ND ND ND ND	4 2 1 1 2	16 28 69 39 64	.2 .8 .5 .2 .2	3 2 4 2 2	2 2 2 2 2 2	244 202 170 153 129	.24 .25 .49 .24 .39	.035 .051 .052 .037 .048	3 5 4 2 3	96 65 68 43 41	.61 .84 1.44 .39 .36	23 40 55 36 33	.83 .74 .54 .40 .37	5 3 3 3 2	6.68 5.00 6.80 5.10 7.45	.03 .03 .04 .03 .04	.07 .04 .05 .03 .04	1 6 1 11 1 17 1 5 1 6
428/00 428/40 STANDARD C/AU-S	1 2 18	133 134 60	2 4 37	48 56 131	.2 .1 7.3	32 36 69	16 18 31	258 323 1065	6.81 9.02 3.96	2 2 42	5 5 18	ND ND 7	1 2 36	24 29 52	.3 .2 18.7	4 2 15	2 2 21	128 219 60	.38 .52 .50	.031 .037 .095	4 3 39	69 59 60	1.10 1.15 .95	21 15 183	.42 .69 .09	3 2 34	5.14 3.44 1.88	.04 .05 .08	.04 .03 .16	1 8 1 47 10 47
		1C TH -	P IS LE SAMPL	500 G ACH I E TYP	RAM SA S PART E: SOI	MPLE IAL I L	IS DI FOR MI AU*	IGESTI N FE S ANALY	ED WIT SR CA YSIS B	H 3ML P LA C Y Acid	3-1-2 R MG LEAC	HCL BA T H/AA	-HNO3 I B W FROM	H20 AND 10 G	AT 95 LIMITE M SAMF	DEG. ED FOF PLE.	C FO NA 1 Samp	r one k and les200	HOUR AP eginn	AND I AU DE ing 'R	S DIL TECTI E' ar	UTED ON LI	TO 10 IMIT B plicat) ML W NY ICP te sam	ITH N IS 3 ples.	JATER. 5 PPM.				
DATE REG	CEIV	ED:	NOV	2 19	92 E	DATE	REI	PORT	MAI	LED:	^	√o√	4	92	SI	gned	BY		Ň	أننذ	.D. TO	YE, C	LEON	G, J.	WANG;	CERT	IFIED	B.C.	ASSAYER	S
L1	٦	 	-1	.—	٦.		٦		_			-1		-		-	;	-	<u> </u>	-			<u> </u>		-		• .			

المراجعة بالمعالية مردان الفلائية ومناسبة

San San An

SAMPLE#

Orvana Minerals Corp. FILE # 92-3859

Fe As U Au Th Sr Cd Sb Bi V Ca P La Cr Mg Ba Ti B AL Na

AMPLE#	Мо	Cu	РЬ	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr 🖁	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba Ti	B AL	Na	- K 🔅 I	Au*
	ppm	ppm	ppm	ppm	ppm:	ppm	ppm	ppm	X	ppm:	ppm	ppm	ppm	ppm §	ppm	ppm	ppm	ppm	<u>×</u>	<u> </u>	ppm	ppm	<u>×</u>	ppm %	ppm %	<u>×</u>	% ppr	n ppb
28/80	5	111	5	38	.1	26	11	183	7.99	4	5	ND	1	20	.2	2	2	208	.41	.028	2	44	.73	11 .70	3 2.46	.04	.01	13
2B/120	3	76	8	31	.8	9	3	71	5.79	2	5	ND	1	12	.2	2	3	112	.13	.065	3	49	.15	11 .30	3 6.39	.02	.01	2
2B/160	10	171	2	34	. 1	14	8	83	5.89	7	5	ND	1	33 🕯	2	2	2	87	.18	.042	2	44	.42	23 .28	2 8.37	.02	.01	5
28/200	2	168	6	46	1.5	22	14	195	6.58	22	5	ND	1	73	2	2	2	104	.42	060	3	35	.72	36 .25	3 5.25	.05	.03	2 15
28/240	2	134	10	42	.3	19	11	185	8.03	15	5	ND	1	69	.2	ž	ž	131	.34	.054	2	32	.72	51 .33	2 4.31	.04	.04	i 9
			-			~~					-						-				-							
28/280	l 8	145	2	39	•2	21	11	206	8.60	<u>د الا</u>	2	ND	1	14 8	-4	2	2	1/9	.27	.036	2	47	-11	16 .55	2 3.41	.02	.03	1 2
28/320	4	161	3	26	•4	17	9	88	3.84	2	5	ND	1	19	<u>8-5</u>	3	2	74	.21	2030	3	30	.39	14 .22	3 4.53	.02	.04	1 4
28/360		197	9	36	-5	24	9	106	11.93	6	5	ND	1	16		2	2	243	.18	.040	2	56	.38	21 .77	2 3.57	.02	.02	1 5
28/400	7	257	6	51	.2	31	11	242	8.01	8	5	ND	1	31 8		2	2	138	.16	:053	2	27	.85	50 .31	2 4.25	.02	.02	1 3
28/440	7	154	4	21		30	9	94	8.15	2	5	ND	1	23	.2	2	2	189	.15	.038	2	39	.28	43 .46	2 2.96	.01	.02	1 2
28/480	6	173	4	23		20	8	108	12.51	2	5	ND	1	8	.2	2	2	328	. 19	.034	3	76	.34	10 .86	2 5.21	.02	.01	18
RE 458/120	1 1	117	6	34	.9	18	9	98	7.44	2	5	ND	1	32	2	2	2	202	.27	042	2	47	.51	20 .76	2 4.03	.03	.02	1 9
\$5B/00	10	184	8	37	1	15	5	83	15.06	2	5	ND	3	22	2	ž	ž	158	.14	.048	ž	76	.34	15 .59	2 7.18	.02	.02	1 26
458/40	6	136	10	41	1	22	9	141	9.97	3	5	ND	1	21	2	2	2	279	.28	030	ž	47	.63	12 .81	2 2.78	.03	.01	1 6
45B/80	3	92	2	33	.8	15	5	74	8.24	2	5	ND	Ź	9	.2	- Ā	2	245	.22	.037	3	57	.34	9.66	3 3.93	.02	.03	1 5
	1																											
45B/120	2	136	8	39	.9	20	11	109	7.56	2	5	ND	1	34		2	2	198	.28	.043	2	49	.53	23 .72	2 4.67	.03	.03	1 14
45B/160	2	138	4	40	.6	18	7	94	9.25	2	5	ND	1	25	.2	2	2	244	.23	.045	2	48	.63	15 .74	2 4.02	.03	.04	1: 9
45B/200	9	136	5	25	.2	13	6	44	6.78	2	5	ND	1	37	.2	2	2	109	.34	.033	2	27	. 15	16 .34	2 3.50	.02	.02	1 8
45B/240	17	173	5	22	.9	15	6	53	12.70	12	5	ND	2	28	.2	5	2	159	.18	.039	2	57	.21	16 .54	2 4.79	.02	.03	1 12
45B/280	20	254	3	25	.9	9	3	44	9.43	2	5	ND	1	62	.2	2	2	96	.24	.048	2	31	. 18	26 .42	2 4.47	.02	.03	1 2
458/320	15	181	6	32	.3	14	5	71	12.44	7	5	ND	2	40	2	2	2	208	. 19	047	2	59	.30	18 70	2 4.76	.02	.03	· 1 15
458/360	14	173	2	32	.2	15	7	91	7.29	3	5	ND	1	28	2	<u>ء</u> י	2	140	.20	041	2	43	.35	14 .41	2 4.46	.02	.01	1 8
45B/400	3	249	2	74	3	44	189	2369	2.85	38	ŝ	ND	1	33	7	ž	2	63	.93	.086	ž	51	.41	17 16	4 6.76	-04	.03	1 6
458/440	2	137	7	50	4	25	28	895	5.03	6	Š	ND	1	36	2	ž	ī	109	.82	037	ż	42	.56	19 40	3 2.58	.04	.04	1 3
458/480	2	84	10	35	.4	13	7	74	7.16	2	5	ND	1	14	2	3	2	220	.16	.036	3	34	.18	11 .53	2 2.75	.02	.02	1 17
458/520		197	7	<u>د</u>		7/	10	257	£ 04		E	ND	2	71		2	-	174	17	0/2	,	/F	0 7	70	-		~	
STANDADO CZALL-C		10/		174	7.2	J4 70	17	1100	/ 1/	27	2	7	70	57	40.6	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2	120	.46	.042	4	40	.02	30 .42	2 4./3	.05	.04	0
STARDARD L/AU-S	1 19	01	41	130	1.0	: 70	21	1100	4.10	~ 43	22		28	22	10.0	14	20	60	.51	3000 C	41	62	.91	100 8.09	54 1.9/	.08	.16	1: 46

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

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Mo Cu Pb Zn Ag Ni Co Mn

Page 2

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716



GEOCHEMICAL ANALYSIS CERTIFICATE

Orvana Minerals Corp. PROJECT JULIET File # 92-3819 710 - 1177 W. Hastings St. Vancouver BC V6E 2K3 Submitted by: Rob Fredericks

Page 1

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba 🛛 Ti	B AL	Na	K	<u></u>	iu*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	~ ~	ppm	ppm	ppm	ppm	ppm	bbu	ppm	ppm	bbu	7.	<u> </u>	ppm	ppm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ppm Z	ppm %	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	7	ppm	
ξ ΟΔ / ΠΠ	1	69	' 4	61	7	27	24	2358	7.26	2	5	ND	. 1	21	.6	2	2	223	.86	.046	2	59	1.06	16 .71	2 2.87	.02	.02	1	12
SQA / 40	i	42	7	41	- 1	24	10	318	10.48	3	5	ND	2	13	2	ž	ī	350	.35	027	2	67	.54	9 1.04	2 1.75	.02	.02	1	4
ROA / RO	1	88	7	64	िर	33	38	1957	6.15	3	5	ND	1	46	6	2	2	155	.76	041	2	60	1.26	25 59	2 3.26	.04	.03	8 i -	Ŕ
378/00 204/120		102	7	74	∭°.ı́́i	26	42	7285	5.57	3	ś	ND	;	OR	15	2	3	144	1 30	0.00	2	40	.63	55 30	2 5 25	07	06		ž
7787 120 204 /140		85	7	57		21	78	4042	6 00	885 -	ś	ND	1	60	.	2	2	148	00	051	ž	51		17 13	2 5 20	.0/	.00	88 1	5
39M/ 100	· ·	05	•	51		21	50	4042	0.00		,		•	0,		~	"	140	. 70		5	51	.40		2 3.27	.04	.02		,
104 /200	1	62	4	45	1	20	12	285	10 82		5	ND	2	14	.	2	2	200	.32	027	2	76	54	10 81	2 2 71	02	01	1	6
304/2/0	1	72	6	20		23	12	332	7 72	3	ś		2	15	2	2	2	205	- 46	020	2	60	.72	0 75	2 2 80	03	.07	i i	Ř
30A /2R0		171	š	40		22	12	215	5 68	847	ŝ	ND	2	15	3	2	2	144	27	035	2	60	38	16 57	2 7 25	02	02	2	Ă
37A/200 204/220		80	ő	70		10	10	1/0	0 02	×.	Ę	ND	2	15	88 5	2	2	225	28	030	5	64	.50	15 8/	2 2 08	.02	.02	5	17
37R/320 304/340		24	11	20			10	47	5 37	88 5	5	ND	2	6	<u> </u>	2	2	646	.20	012	2	4.2		5 1 20	2 2.70	.02	02		17
39A/ 300	1	20		23		,	0	00	1.11		,	Rυ	٤.	7		۲.	2	040	. 10		2	42	. 13	J 1.70	2.00	.01	.02		14
394/400	1	38	8	33	1	14	8	115	8.05	2	5	ND	3	29	2	2	2	512	.25	.015	2	33	.29	13 1.34	2 1.51	- 02	.05	1	7
39A/440	1 1	74	4	33	1	16	11	421	10.07	2	5	ND	2	46	2	ž	2	177	.33	.040	ī	61	.36	28 .53	2 3.22	.03	.03	30 1	1
39A/480	1	136	8	56	3	14	20	691	10.26	2	5	ND	2	60	2	2	2	302	.43	.040	2	52	.43	25 .69	2 3.41	.03	.02	1	13
39A/520	1	164	6	53	1	34	18	282	6.12	3	5	ND	1	97		ž	ī	174	.86	026	2	58	1.03	39 .60	2 4.17	.04	.05	1 I I I I I I I I I I I I I I I I I I I	10
39A/560	1 1	62	10	26	5 8.1	9	5	100	8.76	2	5	ND	Ż	28	2	2	ž	277	.37	.023	2	56	.22	17 .88	2 2.08	.02	.02	1	7
							-						-			-	-				-								•
39A/600	1	70	11	49) .4	27	13	279	7.11	6	5	ND	1	33	1.0	2	2	198	.62	.023	2	73	1.01	14 .68	2 2.49	.03	.02	1	2
39A/640	1	88	6	36	5 .3	21	10	186	9.13	22	5	ND	2	31	.2	2	2	186	.28	.030	2	71	.44	14 .55	2 2.55	.02	.02	1	12
RE 39A/240	1	74	6	40) 🖾 3	24	13	326	7.79	33	5	ND	1	15	.8	2	2	210	.47	.029	2	60	.74	9 75	2 2.85	.03	.02	1	4
39a/680	1 1	107	4	30) 🕘 . 8	17	9	96	9.68	4	5	ND	3	11	884	2	2	172	.16	.030	2	106	.25	12 .55	2 7.85	.01	.01	<u>ੇ 1</u>	7
39A/720	1	74	13	43	5 🔍 4	25	12	228	6.49	5	5	ND	1	28	.9	2	2	149	.53	2030	2	60	.54	17 40	2 3.24	.04	.02	1	3
																													•
39A/760	1	141	6	- 38	3 2.4,	26	15	144	7.48	3	5	ND	3	14	.2	2	2	206	.24	.037	2	68	.38	15 .62	2 7.20	.02	.02	1	10
39A/800	1	104	9	26	5 4	15	9	72	10.15	13	5	ND	3	11	.2	2	2	184	.12	.033	2	95	.23	12 52	2 6.25	.02	.02	1	4
39A/840	2	104	7	- 46	5 .2	27	12	127	11.62	24	5	ND	3	13	.9	2	2	314	. 18	.044	2	72	.29	20 .85	2 3.42	.01	.02	88. 1 -	9
39A/880	2	87	6	- 36	5 🛛 . 2	18	10	107	10.62	311	5	ND	3	19		2	2	263	.54	.027	2	69	.27	14 8.83	2 3.04	.02	.02	81	11
39A/920	1	135	12	43	3 .9	24	12	200	5.79	22	5	ND	1	21	.7	2	2	133	.38	.032	2	43	.37	13 .44	2 3.75	.03	.02	8 1 -	3
39a/960	4	155	9	- 30	8. ()	19	10	108	6.49	5	5	ND	2	15		2	3	120	. 18	.042	3	57	.24	15 40	2 7.34	.02	.01	1	8
39A/1000	14	190	- 4	35	5 1	19	10	95	15.01	2	5	ND	4	13	.2	2	2	321	. 16	032	2	86	.26	9 .84	2 3.9	.01	.01	1	3
39A/1040	2	200	5	47	7 .3	34	21	378	6.21	2	5	ND	2	162	1.1	2	2	83	2.34	.051	4	- 31	.77	33 .13	2 6.50	5.05	.09	1	2
42/00	1	- 44	7	33	3 🔬 4	15	8	215	7.50	2	5	ND	2	13	.6	2	2	314	.43	. 028	2	52	.36	10 .94	2 2.0	2 .01	.02	1	15
42/40	1	59	2	- 38	8 .9	18	11	618	7.90	5	5	ND	2	19		2	2	216	.35	.035	2	61	.43	15 .71	2 3.2	5.02	.02	1	4
12/80		~~			. 882				1 70		-													_,					_
42/00		98	° °	04	2	10	21	1039	4.70	- 888 S	2	NU	1	40		2	2	150	.44		0	20	.33	31 224	3 3./	J .02	.02		5
42/120		68		2	2 8.4	14	. Y	221	11.09	- 2005	2	ND		15	886 S	2	2	294		025	2	18	.39		2 2.5	1 .01	.02	1	4
42/100	1]	40	2	2	2	15		154	7.08	· 3885	2	ND	2	22	- MA S	2	2	297	.30	025	2	46	.27	13 .89	2 1.2	4 .02	.02	<u></u>	5
42/200		49		2	د ج	15		199	6.75	- 2005	2	ND	2	25		2	2	2/2		026	Z	47	.32	16 .80	2 1.5	9.01	.02	<u></u>	6
42/240	1	49	6	1	6	(5	62	10.99	' ())) (>	ND	5	15	- 20 - 20 - 20 - 20 - 20 - 20 - 20 - 20	2	2	389	.15	> 1028	2	53	.22	8 1.08	2 1.8	2 .01	.02	1	9
42/280	1 1	177	25	7	n (5)	74	. 74	1540	7 70		E	Nu	4	175		2	2	179		, //·	- -	75	1 30	47 27	250	7 07			
42/320		150	. 27		0 2.1 g	- J0 77	, JC , JC	7 1309 7 1740	1.30	' ##\$) E			167		2	2	170	1 00		د 7	12	1.30	45 71	2 3.0	, .U3	.04		11
STANDARD C/ALLE	1	139	· · · · · · · · · · · · · · · · · · ·	 	0 20	23	21	1074	7.64	· ##5		NU T	70	170		45	2	120	1.00		2	24	.02	02 000	2 3.4		.04		32
CINICARU GIAUS	1 17	02		12	0 80.0	. /1		10/0	3.70	844	19		20		10.1	15		20		0 2004	<u>8</u> 39	00	.91	102 8.09	3 33 1.0	<u> </u>	. 14	0.0	40

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: OCT 28 1992 DATE REPORT MAILED:

SIGNED BY **1.D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS**

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	ACHE ANALYTICAL

Orvana Minerals Corp. PROJECT JULIET FILE # 92-3819

Page	2	省省

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SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	۷	Ca	P	La	Cr	Mg	Ba 🖉 T i	B Al	Na	K W	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppn	X	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	*	%	ppm	ppm	%	ppm 🕺 🕺	ppm %	<u> </u>	% ppm	ppb
121710		00	2	71		25	10	715	F 90		E	110	4	101		2	2	177	40	070	,	/7	00	57 20	7 / 20	00	07	
42/300		90	2	21	200 C	25	10	212	2.00	5	2	NU		101	.	2	2	122	.07	.039	4	43	.00	⊃⊃ <u></u> ,20	2 4.20	.09	.US 🔆 I	1
42/400	1	76	2`	25		15	8	159	7.62	2 Z	5	ND	1	135		2	2	259	.59	.034	2	- 47	.46	39 8.88	2 2.53	.05	.03	1
42/440	1	90	8	24	.4	17	10	163	12.82	4	5	ND	2	18	.2	2	2	349	.25	.032	2	94	.46	9 1.13	2 2.77	.03	.04 1	9
42/480	1	14	15	16	.5	6	3	45	1.24	2	5	ND	2	21	.2	5	2	149	. 18	.036	3	28	- 15	20 .66	2.83	.01	.05 1	1
42/520	1	92	9	26	.2	13	7	100	13.07		5	ND	1	10	.2	2	2	371	.17	.030	2	80	.30	9 1.19	2 2.93	.02	.03 1	14
42/560	4	85	5	29	. 1	16	16	94	6.28	2	5	ND	1	41	 2	2	2	218	.37	.036	2	31	.26	14 .75	3 1.82	.02	.04 1	21
RE 42/440	1	84	6	22	8.1	16	9	148	11.83	5	5	ND	1	15	.2	2	2	324	.22	.030	2	86	.41	8 1.06	2 2.55	.02	.02	5
45/00	1	121	3	51	.5	23	29	2711	4.86	2	5	ND	1	47	.2	2	3	142	.93	.060	3	50	.69	34 .46	3 6.50	.08	.05 1	18
45/40	1	79	2	25	.3	15	9	243	8.47	2	5	ND	1	46	.2	2	2	288	.39	.031	3	53	.32	36 1.12	2 2.87	.04	.03	3
45/80	1	66	2	29	.5	13	17	806	5.07	2	5	ND	1	59	.4	2	2	201	.78	.042	3	41	.36	52 .77	3 3.09	.12	.03 1	4
45/120	1	116	4	77	.5	34	48	4397	5.28		5	ND	1	42	.2	2	2	141	.86	.044	3	56	1.18	29 .56	3 3.84	.07	.04 1	4
STANDARD C/AU-S	19	61	39	133	7.5	71	32	1083	3.96	42	18	7	36	53	19.0	15	21	59	.50	.085	39	61	.91	184 .09	34 1.88	.08	.16 11	49

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.