BRITISH COLUMBIA PROSPECTORS ASSISTANCE PROGRAM MINISTRY OF ENERGY AND MINES GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:2000/2001REPORT #:PAP 00-44NAME:EDWARD FREY

	le
D. TECHNICAL REPORT	BRITISH O
• One technical report to be completed for each project area.	COLUMBIA
• Refer to Program Regulations 15 to 17, pages 6 and 7.	Ministry of Energy and Mines Energy and Minerals Division
 SUMMARY OF RESULTS This summary section must be filled out by all grantees, one for each project area 	Information on this form is confidential subject to the provisions of the Freedom of Information Act.
Name EDWARD D, FREY Reference N	umber 2000/2001 P93
LOCATION/COMMODITIES	
Project Area (as listed in Part A) <u>NEWNYKULSTON CREEK</u> Location of Project Area NTS <u>92 P/8</u> ~Lat <u>51⁰ 18' 30''</u> Description of Location and Access <u>3 KM NEATHEAST OF CHINDOK MOU</u> <u>NORTH-NORTHEAST OF BARNERE</u> , <u>ACCESS BY GENIER LANE</u> <u>NEWNYKULSTON CREEK FOREST ACCESS ROADS</u> , <u>AND FOOT TRAVEA</u> Prospecting Assistants(s) - give name(s) and qualifications of assistant(s) (see Program Regulat <u>DARIA DUBA: M.S.C. (GEDLOCY) MCGILL UNIU., EXTENSIVE GOLD</u> <u>EXPLORATION EXFERIENCE</u> IN <u>B.C.</u> , <u>5A5K</u> , <u>NEUAON</u> Main Commodities Searched For <u>GOLO - IN PLUTON ALDUS EDID</u> IN <u>NEWNYKULSTON CREEK AND IN LODGEMENT TILC IN THE CA</u>	. if applicable N ~ Long 120° 04' 15'' WTAIN ~ 15 Km LEONIE LAKE AND 2555 ion 13, page 6) AND BASE METAL AND MASHINGTON ENS (FT. KNOX) OR - ROGATE VEINS (.POEO) SEAIMGNTS DE ESK VALLEY
	·····
WORK PERFORMED1. Conventional Prospecting (area) $7 \sim 425$ Lectares2. Geological Mapping (hectares/scale)1: 50003. Geochemical (type and no. of samples) 55 Rock + 15 stream service4. Geophysical (type and line km)NIL $+4$ Ag Assavs1. Geophysical (type and line km)NIL $+4$ Ag Assavs1. Split12 kmRoad CLEARING1. Drilling (no. holes, size, depth in m, total m)NIL7. Other (specify) o_{NE} 50 bePLACER & TWO0. Drilling (no. holes, size, depth in m, total m)NIL	T (7. FRACTIONS EACH) EA /AA) + 28 ECENNENT ROCK & SE DINIENTS AL SCAINS STAKED
WORK PERFORMED1. Conventional Prospecting (area) $? \sim 425$ Lectares2. Geological Mapping (hectares/scale) $1:5000$ 3. Geochemical (type and no. of samples) 55 ROCK + 15 STREAM SEDIMEN4. Geophysical (type and line km) NIL $+4$ Ag AS5A>5 $/30g$ Au (t 5. Physical Work (type and amount) $I.2$ Km, ROAD CLEARING ICP 6. Drilling (no. holes, size, depth in m, total m) NIL 7. Other (specify) $ONE 50$ ba PLACER & TWD UNITS MUNERBest DiscoveryProject/Claim Name $IIFWHYKULSTON$ CREEXCommodities 512 VERLocation (show on map) Lat. $251^{\circ}18' 55'' N$ Long $I20^{\circ}04' 45'' W$ EleBest assay/sample type $ID9.6$ $ff = 512$ VERAMPLE NRE 36Description of mineralization, host rocks, anomaliesWHITEVEIN(WIDTH >55	T (2. FRASTIONS EACH) EA/AA) + 28 ECEANENT BPCK & SE DINIENTS AL CCAINS STAKED LEAD vation ~ 1487 m EKDAT : ANEDLAR,

MAINTAIN IT FOR THE FUTURE OF MINING IN B.C.!

D. TECHNICAL REPORT (continued) **REPORT ON RESULTS**



V

- ٠ Those submitting a copy of an Assessment Report or a report of similar quality that covers all the key elements listed below are not required to fill out this section.
- Refer to Program Regulation 17D on page 6 for details before filling this section out (use extra pages if necessary)
- Supporting data must be submitted with the following TECHNICAL REPORT or any report accepted in lieu of.

Information on this form is confidential for one year from the date of receipt subject to the provisions of the Freedom of Information Act.

Name <u>EQWARD D. FREY</u> Reference Number <u>2000/2001</u> P93

1. LOCATION OF PROJECT AREA [Outline clearly on accompanying maps of appropriate scale.]

SEE ATTACHED REPORT

2. PROGRAM OBJECTIVE [Include original exploration target.]

SEE ATTACHED REPORT

3. PROSPECTING RESULTS [Describe areas prospected and significant outcrops/float encountered. Mineralization must be described in terms of specific minerals and how they occur. These details must be shown on accompanying map(s) of appropriate scale; prospecting traverses should be clearly marked.]

SEE ATTACHED REPORT

BC Prospectors Assistance Program - Guidebook 2000

D. TECHNICAL REPORT (continued)



REPORT ON RESULTS (continued)

5. GEOPHYSICAL RESULTS [Specify the objective of the survey, the method used and the work done. Discuss the results and show the data on an accompanying map of appropriate scale. Any anomalous areas must be indicated on maps by the use of contouring, or some other suitable technique.]

_____ ٠,٠ . .

5. OTHER RESULTS [Drilling - describe objective, type and amount of drilling done. Discuss results, including any significant intersections obtained. Indicate on a map of appropriate scale the drill-hole collar location, the angle of inclination and azimuth. Drill logs correlated with assay results must be included. Physical Work - describe the type and amount of physical work done and the reasons for doing it (where not self-evident). This includes lines/grids, trails, trenches, opencuts, undergound work, reclamation, staking of claims, etc. Discuss results where pertinent.]

DRICLING _____ PHYSICAL WORN - SEE ATTACHED REPORT L.A. FR Signature of Grantee Date 31 JAM. 2001

BC Prospectors Assistance Program - Guidebook 2000

E.D. Frey - Reference Number 2000/2001 P93

PROSPECTING REPORT FORM

D. REPORT ON RESULTS

1. Location of Project Area - The project area (Fig.1) is approximately 15 km north-northeast of the town of Barriere and 85 km north of Kamloops. It is on the upper western slope of the Adams Plateau. Newhykulston Creek and its parallel branch (~one kilometre north), drain the area into the North Thompson River, six kilometres westward.

2. Program Objective - The program objective was to find the bedrock source of the gold mineralization discovered by the B.C Geological Survey in Newhykulston Creek stream sediments and in a lodgement till sample in the stream valley (Fig.2).

Recent stream sediment sampling by the B.C. Geological Survey (Lett & Jackaman, 2000; Lett, et al., 2000) yielded highly anomalous gold, to 3130 ppb in stream sediments and 59,600 ppb in a heavy mineral concentrate (Fig.2). Earlier BCGS lodgement till and stream sediment sampling within 170 m downstream from these anomalies (Figs.2, 2a) yielded 62 and 247 ppb gold, respectively (Bobrowsky et al., 1998; Jackaman et al., 1992). Prospecting by Frey and Duba to 800 m up-ice (northwest) from the BCGS till sample site did not find a probable source of it (Frey, 2000). Additional prospecting of a larger area to the north and northeast also was inconclusive (Frey, 2000, Map CM-4).

The gold in the stream sediments may have been derived from erosion of the pre-drainage till cover of the present deeply incised valley of Newhykulston Creek (~300 m/km gradient). Locally, the deposition of that till may have been by **eastward** iceflow, controlled by preglacial topography, suggesting a source in metavolcanic rocks of the Fennell Formation, downstream and further west-northwest.

Another possible source is the unnamed granodiorite stock, an apophysis(?) of the Cretaceous Baldy Batholith (10 km to the northeast) that intrudes mafic metavolcanic flows of the Fennell Formation in this area. Frey (2000, Map CM-4) mapped part of its western contact and prospected part of its poorly exposed occurrence northeast of the anomalous samples. Assessment mapping by BP Minerals and Inco (Fig.2; Casselman & Cameron, 1994; Farmer & Hoffman, 1987) identified an outcrop of the stock 1.9 km south of the BCGS sample sites.

@@@@@@

The program objective originally had a second component: geophysical and prospecting/mapping surveys to follow-up the 1999 copper mineralization discovered in float by Frey and Duba (Frey, 2000). That work was not pursued in 2000 due to employment on consulting projects in Ontario in September and October. That work is now planned for spring 2001, with private funding.

3. Prospecting Results (Figs.2, 2a & b)

Prospecting focused on the drainage slopes and uplands north and south of Newhykulston Creek, upstream from its junction with the Newhykulston Creek forest access road. The area also includes most of the apparent outcrop area of the granodiorite stock, from Newhykulston Creek north to several hundred metres north of its north branch. Both stream beds were prospected eastward from their road intersections to the contact of the stock and the Fennell Formation. The small outcrops of the stock south of Newhykulston Creek, noted in Section 2, are now established as limited to that area. Newhykulston Creek follows most of the southern contact of the main body of the stock. (Fig.2)

The outcrop distribution of the stock between Newhykulston Creek and its north branch is more extensive than observed previously (Frey, 2000, Map CM-4). Most of the "new" outcrops follow the crest of a break in slope of the Newhykulston Creek valley.

The only visual mineralization discovered in the program is minor chalcopyrite, pyrite and bornite in boulder float near the north end of the stock area and minor galena and pyrite in vein quartz float in the north branch of Newhykulston Creek.

The former (Sample NRE25) occurs in fine grained to coarsely megacrystic (to 2 cm) granodiorite, pale white with dull orange feldspar weathering. The granodiorite contains numerous unmineralized aplitic to medium grained quartz-feldspar veins to 2 cm width (Sample NRE4). Neither sample yielded anomalous gold, however the gold content of the vein sample is eight times that of its host: 40 vs. 5 ppb. Prospecting area of numerous float boulders north and north west of this occurrence did not locate its source.

The galena-bearing quartz float in the north branch of Newhykulston Creek yielded a similar range of gold, 30 to 85 ppb, and significantly anomalous silver and lead (see Section 4). Prospecting the creek bed and adjacent uplands did not locate the source.

Prospecting in the Fennell Formation west and south of the stock did not find mineralization.

4. Geochemical Results (Figs.2, 2a & b)

Seventy samples of in situ bedrock, float and stream sediments were collected and analyzed geochemically in an attempt to identify areas of anomalous gold or its pathfinder elements. A secondary objective in the north branch of Newhykulston Creek was to define a prospecting area for the source of anomalous silver and lead discovered earlier in the project.

Bedrock: 55 hand samples (34 float) were analyzed from those collected during traverses across the area and along the beds of Newhykulston Creek and the north branch of Newhykulston Creek. All were analyzed for gold (FA/AA; 30g) and 28 other elements (ICP). Four quartz vein float samples from the north branch of Newhykulston Creek that yielded >30 ppm Ag (ICP) were also assayed for silver.

With the exception of the silver-lead discovery, the overall results from bedrock analyses are poor. Only a few samples yielded slightly geochemically elevated quantities of gold or base metals. As noted below, the stream sediment sample results confirm the presence of anomalous gold in the drainage of Newhykulston Creek. It's source remains unknown. Continuing stream sediment sampling upstream would help focus additional exploration, however the deeply incised valley and it's overburden covered slopes would require extensive mechanical excavation for thorough exploration.

In the north branch of Newhykulston Creek angular clasts of "heavy," white to grey, medium to coarse grained, vein quartz are thinly dispersed for about 800 m in the stream bed. They range from 8 to 30 cm length and 4 to 15 cm in apparent vein width. Most are unmineralized, the rest contain 1to 3% fine grained pyrite+/-chalcopyrite and galena. The most significant results are:

			(p	pm)	
	ppb Au	g/t Ag	Pb	Cu	Zn	Mo	
NRE26	55	73.0	3784	9	<1	30	
NRE36	35	109.6	5650	23	4	90	
NRE37	85	43.5	2108	12	2	34	
NRE41	35	14.2*	948	8	14	689	*note 14.2 ppm Ag
NRE47	30	92.5	6558	<1	26	30	

Stream Sediments: Stream sediments (Samples NST9a to NST20a and NST21 to NST23 were collected at thirteen sites in Newhykulston Creek and two sites in the north branch of Newhykulston Creek by wet sieving through a 20 mesh screen. Two size fractions: -80+200 mesh and -200 mesh of each -20 mesh sample were analyzed in the same manner as the bedrock samples. In addition, three bulk samples of stream sediment were collected for future heavy mineral analysis. Reference samples of +20 and -20 mesh were retained from each site for future examination of gold grain shape.

Newhykulston Creek was sampled upstream for 500 m, at intervals of 50 m from its intersection with the Newhykulston Creek forest access road, the site of the BCGS anomalous gold in till sample. Additional sites on Newhykulston Creek replicated the BCGS sampling that yielded 3130 ppb Au in stream stream sediments and 59,600 ppb Au from a heavy mineral concentrate. Anomalous results (ppb gold) are:

	-80+200 mesh	-200 mesh	upstream distance (m)
NST20	a 135	30	27
	59,600 (BCGS	HM concentrate)	
NST9a	ı 5	180	50
NST10	la 300	65	100
NST15	ia 5	100	325
	3130 (BCGS)		
NST16	a 115	90	350
NST18	a 30	515	450

5. Geophysical Results - N/A

6. Other Results

Drilling - N/A

Physical Work - The lower part of an otherwise open, abandoned logging road (Fig.2) was blocked by alder and aspen that had been bowed over the road by snow. Hand-clearing of 1.2 km with an ax allowed 4WD truck use of the road. Road access greatly facilitated stream sediment sampling of the upper reaches of Newhykulston Creek, its north branch and prospecting the area between the two creeks.

Four two-post mineral claim units and one 50 ha placer claim were staked to straddle a portion of Newhykulston Creek and a small area south of it (Figs.3 & 4). The northern units and the placer claim were staked to cover the gold-bearing stream sediments target and its possible near-source host rocks. The southern units were part of a planned expansion into an area of anticipated additonal outcrop of the felsic stock.

The eastern units and the placer claim were staked during the prospecting.

REFERENCES

Bobrowsky, P.T., Paulen, R., Little, E., Prebble, A., Ledwon, A. and R. Lett (1998): Till geochemistry of the Louis Creek - Chu Chua Creek Area (NTS 92P/1E and 92P/8E). B.C. Ministry of Energy and Mines, Open File 1998-6, 26p. & appendices.

Casselman, S. and B. Cameron (1994): 1994 Geological, geophysical and lithogeochemical report on the CM Property, Barriere, B.C. Inco Limited, Assessment Report 23,653.

Farmer, R., and S.J. Hoffman (1987): Assessment Report. Linecutting, Geophysics, Geochemistry, Geology and Diamond Drilling on the CM 1-6 Mineral Claims. BP Minerals Limited, Assessment Report 16,596.

Frey, E.D. (2000): B.C. Prospectors Assistance Program Report. Reference No. 99/2000/P136.

- Jackaman, W., Matysek, P.F. and S.J. Cook (1992): British Columbia regional geochemical survey, NTS 92P - Bonaparte Lake, stream sediment and water geochemical data. B.C. Ministry of Energy, Mines and Petroleum Resources, Preliminary Report RGS 36.
- Lett, R. and W. Jackaman (2000): Geochemical exploration techniques for intrusive hosted gold deposits in southern B.C. (82M/4, M/5, M/6 and 82F/7); in Geological Fieldwork 1999, B.C. Ministry of Energy and Mines, Paper 2000-1.

Lett, R., Jackaman, W. and L. Englund (2000): Stream geochemical exploration for plutonrelated quartz-vein gold deposits in southern British Columbia (NTS 82M/4, 5, 6; 92P/8; 82F/7). B.C. Ministry of Energy and Mines, Open File 2000-23.



680728

LEGAL POST	• : (e
WITNESS POST	* *********
FORFEITED TENURE	С
VERIFIED	VE
SURVEYED	SL
REVERTED C.G. MINERAL CLAIM	REV CG OR RCG
CROWN GRANTED	Ce
OPEN FOR STAKING	O.F.S.

1 UNIT	2 POST CLAIM	2 POST CLAIM
1640.42 ft	1640,42 11	1500 ft
25 ha 61.78 oc	25 ha 61.78 ac	20.90 ha 51,45 ac
	500 m	457.2 m

THIS MAP IS PREPARED ONLY AS A GUIDE TO THE LOCATION OF MINERAL TENURE AS AS SHOWN ON THE LOCATOR SKETCHES. FOR CURRENT OR MORE SPECIFIC INFORMATION, APPLICATION SHOULD BE MADE TO THE MINING DIVISION CONCERNED.

SCALE : 1; 31,680

092P09W	092P09E	082M12W
092P08W	092P08E	082M05W
092P01W	092P01E	082M04W

5683392

91769 KAMLOOPS

JAN 5 U 2001

INDEX TO ADJOINING MAPS

M 092P08E



SUR

LEASES

1500 1

41.80 ha

113.30 o

457.2 m

18-Jul-00

ECO- 10041 KAMI V2C & Phone Fax	TECH LAB 1 East Trans LOOPS, B.C 3T4 e: 250-573-4 : 250-573-4 es in ppm u	ORATORIE s Canada H 5700 1557 nless othe	S LTD ighway rwise I	reported	1					I	CP CEF	RTIFIC	ATE O	F ANA	LYSIS	AK 20	00-133							ED FR PO BC (AML) /2C 61 ATTEN No. of Sampl PROJI SHIPN Sampl	EY X 1437 OOPS, L7 VTION: sample: e type: ECT #: IENT #: es subn	BC ED FR s receive Rock None Gi None G nitted by	EY ed: 6 iven iven : E. F	rey		
		· · · · ·				-		• • • •		•	-	-		_						_			-	_				•		_
Et #	. Tag #	Au(ppb)	Ag	<u>AI %</u>	As	Ba	Bi	<u>Ca %</u>	Cd	Co	Cr	Cu	Fe %	La	<u>Mg %</u>	Mn	<u> </u>	<u>Na %</u>	Ni	P	Pb	Sb	Sn	Sr	<u> </u>	<u> </u>	<u> </u>	<u></u>	Y	Zn
1	NRE - 1	85	<0.2	0.52	<5	:85	<5	0.19	<1	6	100	4	1.44	40	0.35	373	<1	0.03	4	490	10	<5	<20	9	0.13	<10	23	<10	16	36
2	NRE - 2	10	<0.2	0.97	<5	125	15	0.68	<1	12	103	3	2.39	20	0.76	390	<1	0.05	11	1150	10	10	<20	36	0.18	<10	56	<10	10	39
3	NRE - 3	20	. <0.2	0.26	<5	20	<5	0.09	<1	2	97	3	0.75	<10	0.12	200	1	0.03	4	130	16	<5	<20	2	0.04	<10	11	<10	12	13
4	NRE - 4	40	<0.2	0.28	<5	-55-	<5	0.38	<1	3	83	2	0.66	10	0.16	141	<1	0.04	2	140	12	<5	<20	20	0.04	<10	13	<10	8	13
5	NRE - 5	25	<0.2	0.09	15	100	<5	0.03	<1	<1	142	3	0.46	<10	<0.01	102	6	0.01	5	60	10	<5	<20	4	<0.01	<10	2	<10	<1	5
6	NRE - 6	35	<0.2	0.64	60	185	25	3.28	<1	41	17	7	8.16	<10	1.36	1736	6	0.02	26	880	6	<5	<20	107	<0.01	<10	43	<10	4	75
	ATA:																													
Resp 1	<i>lit:</i> NRE - 1	115	-	· . <u>-</u>	-	• -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Repe 1	<i>at:</i> NRE - 1	95	-	_	_	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-		-	-	-	-	-	-
Stand GEO'(dard: 00	130	0.8	1.79	70	150	10	1.60	<1	20	61	83	3.70	<10	0.91	688	<1	0.02	26	730	<u>24</u>	20	<20	59	0.12	<10	77	<10	9	77

ECO-TECH LABORATORIES LTD. Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

λ.

. .,

.



ASSAYING GEOCHEMISTRY ANALYTICAL CHEMISTRY ENVIRONMENTAL TESTING

10041 Dallas Drive, Kamloops, B.C. V2C 6T4 Phone (250) 573-5700 Fax (250) 573-4557 email: ecotech@direct.ca

CERTIFICATE OF ANALYSIS AK 2000-139

ED FREY PO BOX 1437 KAMLOOPS, BC V2C 6L7 1-Aug-00

ATTENTION: ED FREY

No. of samples received: 15 Sample type: Sediment PROJECT #: None Given SHIPMENT #: None Given Samples submitted by: E. Frey

		Mes	h Weights(g	1)	Au (p	pb)	
ET #.	Tag #	Total	-80+200	-200	Mesh: -80+200	Mesh: - 200	
1	NST 9 a	1593	67	18	5	180	==
2	NST 10 a	1757	64	22	300	65	
3	NST 11 a	1753	53	18	5	15	
4	NST 12 a	1639	47	11	<5	30	
5	NST 13 a	1930	107	45	10	5	
6	NST 14 a	1873	38	15	<5	25	
7	NST 15 a	1941	53	15	5	100	
8	NST 16 a	1866	56	13	115	90	
9	NST 17 a	1756	46	13	. 5	2.0	
10	NST 18 a	1872	33	12	30	515	
11	NST 19 a	1616	40	17	5	20	
12	NST 20 a	1784	36	9	135	30	
13	NST 21	1749	78	92	5	10	
14	NST 22	1471	137	43	5	35	
15	NST 23	1277	84	67	5	10	

â

		Mes	h Weights(g	1)	Au (ppb)		
ET #	. Tag #	Total	-80+200	-200	Mesh: -80+200 Mes	h: - 200	
QC D	ATA:			·			
Repe	at:						
5	NST 13 a	1930	107	45	5	-	
13	NST 21	1749	78	92	-	10	
14	NST 22	1471	137	43	5	-	

Standard:

GEO '00

110

ECO-TECH LABORATORIES LTD. Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

3-Aug-00

· · · ·	ECO- 10041 KAML V2C 6	TECH LABO I Dallas Driv LOOPS, B.C	DRATORIES L re S.	.TD.						l	CP CEI	RTIFICA	ATE OF	F ANAL`	YSIS A	AK 2000)-139						E P K V	d Fre 0 B0) Amlo 2C 6L	:Y (1437) OPS, E 7	BC				
-	Phone Fax	e: 250-573-5 250-573-4	5700 557																				۵	TTEN	TION:	ED FRI	EY			
	Tur	. 200 01 0																					٨	lo. of s	amples	receive	d: 15			
		:	19 · · · ·																				S	ample	type: S	Sedimen	t			
			1	~																			F	ROJE	CT #: 1	Vone Gi	ven			
	Value	e in nom u	nláce otheniji	éo rono	rtod																		3	HIPW(Semple	zNT#∷ s suhm	itted by	iven FFFr	eν		
	Value	s in ppin a	Mesh	se repo	100																			umpio	0.000/11	nicu by		.,		
	Et #.	. Tag #	Weights (g)	Ag	AI %	As	Ba	Bi Ca %	Cd	Со	Cr	Cu	Fe %	La f	Vig %	Mn	Мо	Na %	Ni	P	Pb	Sb	Sn	Sr	<u>Ti %</u>	U	<u>v</u>	W	<u> </u>	Zn
	1	NST 9 a	-80+200	<0.1	1.46	5	65	20 0.68	<1	18	54	30	2.71	<10	0.84	361	<1	0.01	24	570	20	10	<20	14	0.23	<10	71	<10	20	80
	2	NST 10 a	-80+200	<0.1	1.55	10	65	15 0.70	<1	19	56	25	2.75	<10	0.88	385	<1	0.01	27	600	12	5	<20	14	0.23	<10	71	<10	19	52
	3	NST 11 a	-80+200	<0.1	1.51	5	60	20 0.68	<1	19	61	24	2.75	<10	0.89	367	<1	0.01	28	580	10	10	<20	14	0.23	<10	71	<10	18	46
	4	NST 12 a	-80+200	<0.1	1.54	5	65	20 0.68	<1	19	55	25	2.71	<10	0.90	387	<1	0.01	26	540	10	10	<20	14	0.24	<10	71	<10	20	49
	5	NST 13 a	-80+200	<0.1	1.55	10	60	20 0.70	<1	19	58	25	2.65	<10	0.89	401	<1	0.01	28	540	12	10	<20	12	0.25	<10	71	<10	21	49
	6	NST 14 a	-80+200	<0.1	1.57	<5	65	15 0.72	<1	19	56	27	2.80	<10	0.88	405	<1	0.01	27	550	10	10	<20	14	0.24	<10	74	<10	20	46
	7	NST 15 a	-80+200	<0.1	1.62	10	60	20 0.71	<1	20	56	25	2.77	<10	0.94	405	<1	0.01	28	520	10	10	<20	11	0.26	<10	74	<10	21	44
	8	NST 16 a	-80+200	<0.1	1.61	15	60	20 0.71	<1	19	53	27	2.69	<10	0.87	425	<1	0.01	25	530	10	10	<20	10	0.24	<10	71	<10	21	44
	9	NST 17 a	-80+200	<0.1	1.59	10	70	15 0.71	<1	19	50	26	2.53	<10	0.86	429	<1	0.01	25	520	10	10	<20	15	0.24	<10	68	<10	20	43
	10	NST 18 a	-80+200	<0.1	1.65	10	65	15 0.72	<1	20	56	27	2.84	<10	0.90	423	<1	0.01	27	520	10	10	<20	16	0.25	<10	75	<10	20	45
	44	NCT 10 a	00±200	<0 1	1 60	10	70	20 0.74	-1	10	51	20	2 4 8	~10	0.86	466	~1	0.02	27	540	10	15	<20	15	0.22	<10	67	<10	20	14
	10	NGT 20 a	-00+200	<0.1	1.09	10 ~5	60	20 0.74	<1	19	57	28	2.40	<10	0.80	377	~1	0.02	25	600	10	10	<20	15	0.22	<10	73	<10	18	43
	13	NST 21	-80+200	<0.1	1.52	<5	55	25 0.65	<1	21	52	27	2.50	<10	0.98	396	<1	0.01	28	450	8	10	<20	6	0.29	<10	67	<10	23	44
	14	NST 22	-80+200	<0.1	1.00	10	85	20 0.65	<1	19	49	22	2.69	<10	0.87	450	<1	0.01	24	630	36	10	<20	15	0.25	<10	67	<10	20	46
	15	NST 23	-80+200	<0.1	1.96	10	95	25 0.73	<1	25	62	32	2.92	<10	1.13	637	<1	0.01	34	430	14	10	<20	11	0.27	<10	77	<10	21	62
												• •									4.0									
	16	NST 9 a	-200	<0.1	1.73	15	90	15 0.85	<1	16	49	34	2.31	<10	0.66	4//	<1	0.02	23	830	12	10	<20	21	0.17	<10	60	<10	23	45
	17	NST 10 a	-200	<0.1	1.84	20	100	15 0.91	<1	16	54	34	2.36	<10	0.68	493	<1	0.02	26	900	14	10	<20	22	0.17	<10	62	<10	24	46
	18	NST 11a	-200	<0.1	1.68	20	85	10 0.82	<1	15	53	30	2.17	<10	0.61	440	<1	0.02	25	790	10	<5	<20	20	0.16	<10	56	<10	21	40
	19	NSI 12 a	-200	<0.1	1.86	20	95	15 0.87	<1	16	53	34	2.33	<10	0.68	499	<1	0.02	26	830	12	10	<20	20	0.18	<10	61	<10	23	40
	20	NSI 13a	-200	<0.1	1.88	15	100	15 0.90	<1	17	52	37	2.20	<10	0.68	562	<1	0.02	26	800	12	5	<20	21	0.17	<10	99	<10	27	4/
	21	NST 14 a	-200	<0.1	1.95	15	105	10 0.95	<1	17	50	37	2.23	<10	0.66	572	<i< td=""><td>0.02</td><td>25</td><td>840</td><td>12</td><td>10</td><td><20</td><td>23</td><td>0.17</td><td><10</td><td>59</td><td><10</td><td>25</td><td>47</td></i<>	0.02	25	840	12	10	<20	23	0.17	<10	59	<10	25	47
	22	NST 15 a	-200	<0.1	1.86	15	95	20 0.88	<1	17	49	34	2.26	<10	0.67	504	<1	0.02	25	770	10	5	<20	23	0.19	<10	60	<10	24	45
	23	NST 16 a	-200	<0.1	1.87	20	95	15 0.89	<1	18	50	35	2.35	<10	0.71	511	<1	0.02	25	780	12	<5	<20	22	0.20	<10	63	<10	24	48
	24	NST 17 a	-200	<0.1	1.81	15	90	15 0.88	<1	17	46	34	2.14	<10	0.65	531	<1	0.02	24	770	12	10	<20	17	0.18	<10	58	<10	25	45
	25	NST 18 a	-200	<0.1	1.95	20	100	10 0.90	<1	17	48	36	2.18	<10 Page	0.68 1	544	<1	0.02	25	690	10	5	<20	21	0.18	<10	59	<10	25	46

~`` .

> 4 • ۰,

ED FREY

.

÷

ICP CERTIFICATE OF ANALYSIS AK 2000-139

3-Aug-00																			Б	Ph	Sb	Sn	Sr	Ti %	<u> </u>			Y	Zn
Et #. Tag # 26 NST 19 a 27 NST 20 a 28 NST 21 29 NST 22 30 NST 23	Mesh Weights (g) -200 -200 -200 -200 -200	Ag <0.1 <0.1 .<0.1 0.5 <0.1	AI % 2.00 1.81 1.98 1.54 2.05	As 20 20 5 20 20 20	Ba 100 95 105 135 140	Bi (10 15 25 20 15	Ca % 0.93 0.92 0.83 0.76 0.81	Cd <1 <1 <1 <1 <1	Co 17 16 22 17 23	Cr 48 55 56 42 56	Cu 38 34 38 27 40	Fe % 2.14 2.38 2.56 2.40 2.64	La <10 <10 <10 <10 <10	Ag % 0.69 0.68 0.85 0.57 0.85	Mn 585 510 544 664 757	Mo <1 <1 <1 <1 <1	Na % 0.02 0.02 0.02 0.01 0.01	25 26 30 21 31	700 970 650 860 580	12 12 14 64 16	10 10 10 <5 10	<20 <20 <20 <20 <20	22 21 14 18 15	0.18 0.16 0.29 0.17 0.21	<10 <10 <10 <10 <10	58 61 70 56 68	<10 <10 <10 <10 <10	25 23 29 25 24	40 45 59 49 66
OC DATA: Repeat: 1 NST 9 a		<0.1 <0.1	1.47 1.62	10 5	60 65	20 25	0.68	<1 <1	18 20 16	54 54 52	24 27 33	2.75 2.73 2.31	<10 <10 <10	0.83 0,89 0.66	365 412 497	<1 <1 <1	0.01 0.01 0.02	24 26 26	580 500 840	14 12 12	<5 10 5	<20 <20 <20	12 13 18	0.25 0.25 0.17	<10 <10 <10	71 74 61	<10 <10 <10	20 21 24	53 44 45
19 NST 12 a Standard: GEO'00	a	້ <0.1 1.2	1.83 1.79	20 60	95 150	10	1.59	<1	20	57	82	2 3.66	<10	0.94	687	<1	0.02	24	t 690	22	15	<20	55	5 0.11	<10	76	<10	13	74

ECO-TECH LABORATORIES LTD. Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

df/139 XLS/00

...

21-Ju	-00
-------	-----

ECO-TECH LABORATORIES LTD. 10041 East Trans Canada Highway KAMLOOPS, B.C. V2C 6T4

.

Phone: 250-573-5700 Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AK 2000-140

ED FREY PO BOX 1437 KAMLOOPS, BC V2C 6L7

.

ATTENTION: ED FREY

No. of samples received: 7 Sample type: Rock PROJECT #: None Given SHIPMENT #: None Given Samples submitted by: E. Frey

Values in ppm un	ess otherwise reported	1				na 11-0/	NI: D	Ph Sb	Sn	Sr Ti%	U	<u>v w</u>	Y Zn
Et #. Tag # 1 NRE 7 2 NRE 8 3 NRE 9 4 NRE 10 5 NRE 11 6 NRE 12 7 NRE 14	Au(ppb) Ag Al % As 30 <0.2	Ba Bi Ca % 180 20 0.86 275 20 0.79 110 15 0.93 75 <5	Cd Co Cr <1	Cu Fe % 21 3.01 21 2.97 14 2.73 3 1.36 32 2.49 2 1.27 2 0.37	La Mg % Mn 20 1.23 426 10 1.67 434 20 0.99 391 30 0.30 353 <10	Mo Na % <1	NI P 18 1690 67 1630 10 1670 2 490 64 670 7 440 3 20	22 10 18 20 16 10 10 <5	<20 <20 <20 <20 <20 <20 <20 <20	44 0.35 28 0.31 36 0.23 1 0.12 16 0.09 13 0.09 <1	<10 <10 <10 <10 <10 <10 <10	90 <10	15 49 13 45 13 48 23 35 10 60 9 18 <1 8
QC DATA:												-	
Resplit: 1 NRE 7	40							- 22 2(· · ·	- 39 0.35	<10	90 <10	18 50
Repeat: 1 NRE 7	25 <0.2 1.72 10	0 180 20 0.86	<1 19 81	21 3.05	20 1.25 428	<1 0.09	10 1700		-				
Standard: GEO'00	130 0.8 1.79 7	0 150 10 1.60	<1 20 61	83 3.70	<10 0.91 688	<1 0.02	26 730	24 2	0 <20	59 0.12	<10	77 <10	9 77

LTD.

ECO-TECH LABORATOR Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

df/143 XLS/00

Page 1



10041 Dallas Drive, Kamloops, B.C. V2C 6T4 Phone (250) 573-5700 Fax (250) 573-4557 email: ecotech@direct.ca

CERTIFICATE OF ASSAY AK 2000-189

ED FREY PO BOX 1437 KAMLOOPS, BC V2C 6L7

ATTENTION: ED FREY

No. of samples received: 12 Sample type: Rock PROJECT #: None Given SHIPMENT #: None Given Samples submitted by: Ed. Frey

		Ag	Ag	
ET #.	Tag #	(g/t)	(oz/t)	
10	NRE 26	73.0	2.13	

QC DATA:

Standard:

MP1a

XLS/00

69.0 2.01

ECO-TECH/ABORATORIES LTD. Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

4-Aug-00

LABORATORIES LTD.

	3-Aug-00	· .																												
ECO-1 10041 KAML V2C 6	TECH LABO Dallas Driv OOPS, B.C T4	DRATORIE e :	S LTD							1	CP CEF	RTIFIC	ATE O	FANAL	LYSIS .	AK 200)0-189						E F V	ED FR PO BO (AML) /2C 61	ey X 1437 D ops , B _7	BC				
Phone	250-573-5	5700	i																				Ļ		ITION:	ED FR	EY			
Fax	: 250-573-4	557																												
		2																					۲ د	vo. of	samples	receive	ed: 12			
		12 1	····																				() 		e type: I	Rock				
																							, ,		:C/#:/ IENT#:	None G	ivon			
Value	s in ppm ui	nless othe	rwise r	reported	1																		5	Sample	es subm	itted by	: Ed. F	- rev		
		,	- 1.	-																								,		
Et #.	Tag #	Au(ppb)	Ag	<u>Al %</u>	As	Ba	Bi C	a %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	<u>Na %</u>	Ni	<u>P</u>	Pb	Sb	Sn	<u>Sr</u>	<u>Ti %</u>	U	V	W	Y	Zn
1	NRE 16	15	<0.2	0.55	55	130	5 (0.11	<1	5	87	8	1.41	<10	0.42	178	<1	0.03	5	310	12	5	<20	18	0.07	<10	27	<10	5	30
2	NRE 17	5	<0.2	1.11	85	160	15 (0.68	<1	12	95	6	2.40	20	0.81	552	<1	0.05	12	1050	10	10	<20	43	0.17	<10	55	<10	12	45
3	NRE 19	<5	<0.2	0.77	40	195	15 (0.26	<1	7	117	4	1.63	10	0.53	336	<1	0.04	9	410	10	10	<20	28	0.12	<10	40	<10	9	38
4	NRE 20	5	<0.2	0.56	30	50	10 (0.32	<1	6	102	4	1.28	<10	0.39	231	<1	0.05	6	510	10	<5	<20	18	0.10	<10	28	<10	12	21
5	NRE 21	10	<0.2	0.75	20	65	15 (0.76	<1	8	106	5	1.74	10	0.57	341	<1	0.05	8	630	18	5	<20	30	0.11	<10	40	<10	11	33
6	NRF 22	5	<0.2	0.25	20	15	<5 (90.0	<1	2	96	5	0.56	<10	0.07	110	2	0.03	2	60	10	~5	~20		0.04	-10	F	-10	0	0
7	NRE 23	<5	<0.2	0.20	10	5	<5 (0.00	<1	1	108	67	0.00	<10	0.07	71	2	<0.03	2	40	-2	<5 ~5	<20	່ 4 ວ	-0.01	<10	ວ 1	<10	3	0
, 8	NRE 24	5	<0.2	1 10	15	20	15 1	1 04	<1	20	64	07	2 40	<10	0.01	202	~1	~0.01 0.06	4	700	-2	~0 15	<20	~ ~	<0.01 0.22	<10	70	<10 <10	< 05	40
g	NRE 25	5	<0.2	0.48	10	140	10 1	1.04	<1	6	Q1	4	1 58	10	0.07	293	21	0.00	40 6	440	10	10	<20		0.23	<10	70	<10	25	29
10	NRE 26	55	>30	<0.40	5	15	130 (n 12	<1	1	160	a	0.74	<10	~0.04	520	20	<0.04	2	440 ~10	2794	<u>∽</u> 5	<20	59	0.00	<10	23	<10	8	Z1 -1
10	10.12 20	00		-0.01	Ŭ	.0	100 (V. 12		•	100		0.14	510	~0.01	51	50	~0.01	3	~10	5704	~0	~20	4	<0.01	<10	~1	<10	5(51
11	NRE 27	5	<0.2	1.92	<5	50	30 1	1.02	<1	46	61	58	4.54	<10	1.89	408	<1	0.02	56	300	26	20	<20	93	0 25	<10	151	<10	10	28
12	NRE 28	<5	<0.2	0.03	10	<5	<5 <(0.01	<1	<1	177	5	0.29	<10	<0.01	46	4	<0.01	3	20	8	<5	<20	<1	<0.01	<10	<1	<10	<1	1
<u>QC DA</u> Respli	NTA: it:																						1							
1	NRE 16	15	<0.2	0.56	55	130	10 (0 11	<1	5	96	8	1 48	<10	0.42	185	<1	0.03	e	320	14	5	<20	15	0.07	~10	28	<10	4	31
Repea	t:	0				.00		~	•	v	•••	Ŭ		- 10	¥r™6n-	100	- 1	0.00	0	040	3-1	0	740	10	0.07	~10	20	510	4	51
1	NRE 16	10	<0.2	0.55	80	130	5 (0.11	<1	4	90	8	1.43	<10	0 42	180	<1	0.03	5	330	14	5	<20	17	0.07	~10	27	~10	F	20
Standa	ard:				00					-	00	Ű	1.40	-10	0.72	100	- 1	0.00	J	550		5	~20	17	0.07	~10	21	510	5	30
GEO'0	0	115	1.2	1.74	70	155	15 1	1.58	<1	19	66	83	3.58	<10	0.90	664	<1	0.02	25	730	24	10	<20	61	0.11	<10	74	<10	11	72

. .

بە: .

ECO-TECH LABORATORIES LTD. Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

Page 1

df/187 XLS/00

ECO-TI 10041 I KAMLO V2C 6T	ECH LAB East Trans DOPS, B.C	ORATORIE 5 Canada H 2.	S LTD. ghway	•						ļ	CP CEF	RTIFIC	ATE OF	= ANAL	YSIS #	AK 200	10-194						E F H	ED FRI Po Bo Kaml(/2c 6l	ey X 1437 D ops , E .7	3C				
Phone:	250-573-	5700																					,	ATTEN	TION:	ED FRI	EY			
Values	es in ppm unless otherwise reported #. Tag # Au(ppb) Ag Al % As Ba Bi Ca % Cd Co Cr Cu Fe % La Mg % Mn Mo Na % Ni P Pb St NRE29 15 0.1 1.78 80 340 25 1.23 1 23 230 13 2.95 10 1.94 435 <1 0.05 72 2400 16 20																	No. of s Sample PROJE SHIPM Sample	samples a type: ECT #: ENT #: as subm	receive Rock None Gi None Gi itted by:	ed: 2 iven iven : E.F	rey								
Et #.	Tag #	Au(ppb)	Ag	AI %	As	Ba	Bi	Ca %	Cd	Co	Cr	Çu	Fe %	La	Mg %	Mn	Мо	Na %	Ni	Р	Pb	Sb	Sn	Sr	Ti %	U	v	W	Y	Zn
1	NRE29	15	0.1	1.78	80	340	25	1.23	1	23	230	13	2.95	10	1.94	435	<1	0.05	72	2400	16	20	<20	38	0.28	<10	73	<10	21	43
2	NRE33	5	0.1	1.55	<5	185	30	0.92	<1	17	86	22	3.22	20	1.11	439	<1	0.05	11	1790	20	10	<20	45	0.30	<10	92	<10	24	50
	TA:																													
Resplit	*	40		4 70	-7	220	00	4 00	-4	00	000	40	0.07	10	1.07		-1	0.00	70	2440	16	25	~20	20	0.20	~10	76	<10	21	46
1	NRE29	10	0.1	1.78	75	330	20	1.29	<1	23	233	12	2.97	10	1.97	444	~1	0.00	12	2410	10	20	~20	30	0.20	<10	74	10	21	40
Repeat 1	NRE33	10	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standa GEO S	rd: TD		1.6	1.76	55	165	<5	1.57	1	19	60	87	3.74	<10	0.94	681	<1	0.02	24	750	24	15	<20	66	0.11	<10	75	<10	13	74

. . .

ECO-TECH LABORATORIES LTD. Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

df/193 XLS/00



ASSAYING GEOCHEMISTRY ANALYTICAL CHEMISTRY ENVIRONMENTAL TESTING

10041 Dallas Drive, Kamioops, B.C. V2C 6T4 Phone (250) 573-5700 Fax (250) 573-4557 email: ecotech@direct.ca

CERTIFICATE OF ASSAY AK 2000-252

ED FREY PO BOX 1437 KAMLOOPS, BC V2C 6L7

13-Sep-00

ATTENTION: ED FREY

No. of samples received: 5 Sample type: Rock PROJECT #: None Given SHIPMENT #: None Given Samples submitted by: E. Frey

ET #	Tag #	Ag (g/t)	Ag (oz/t)	
1	NRE36	109.6	3.20	
2	NRE37	43.5	1.27	

QC DATA:

Standard:

Mpla

70.0 2.04

ØRIES LTD. ECO-TECH L

Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

	11-Sep-00)				;																					
ECO-T 10041 KAMLC V2C 6T	ECH LABO Dallas Driv DOPS, B.O	DRATORIË: e :	S LTD.							ŀ	CP CEI	RTIFIC	ATE O	F ANALYSIS	AK 200	00-252					E F M	ED FREY PO BOX 1437 (AMLOOPS, 1 /2C 6L7	BC				
Phone: Fax :	250-573-5 250-573-4	5700																			4	TTENTION:	ED FR	EY			
Values	in ppm u	nless other	wise r	reported	î																N S F S S	lo. of samples Sample type: F PROJECT #: 1 SHIPMENT #: Samples subm	receive Rock None G None G None G None by	ed: 5 iven ìiven :: E. Fi	ey		
Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ва	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La Mg %	Mn	Mo Na%	Ni	Р	Pb	Sb	Sn	Sr Ti%	U	v	W	Y	Zn
1	NRE36	55	>30	0.02	<5	15 [:]	205	0.08	1	3	223	23	1.63	<10 <0.01	57	90 <0.01	7	<10	5650	<5	<20	6 < 0.01	<10	<1	<10	<1	4
2	NRE37	35	>30	<0.01	<5	5 (85	0.10	<1	2	203	12	0.82	<10 <0.01	95	34 <0.01	7	<10	2108	<5	<20	<1 <0.01	<10	<1	<10	<1	2
3	NRE38	85	0.6	0.62	80	95 (<5	0.51	<1	6	80	6	1.10	10 0.31	239	2 <0.01	8	300	58	<5	<20	23 <0.01	<10	3	<10	18	18
4	NRE39	40	0.4	0.49	35	135	5	0.80	<1	5	102	4	1.32	10 0.27	321	3 0.01	7	360	36	<5	<20	40 <0.01	<10	3	<10	8	23
5	NRE40	20.	1.6	0.02	<5	40	<5	0.02	1	1	241	17	0.40	<10 <0.01	92	17 <0.01	8	10	112	<5	<20	2 <0.01	<10	<1	<10	<1	52
	TA:																										
Deenli			1 - F			1																					
Respin 1	NRE36	60	-	-	-	-	-	-	-	-	-	-	-		-		-	-	-	-	-		-	-	-	-	-
Repeat 1	t: NRE36	-	>30	0.01	5	:. 10.	200	0.07	<1	3	228	20	1.63	<10 <0.01	54	91 <0.01	7	<10	5614	<5	<20	2 <0.01	<10	<1	<10 ⁻	<1	3
Standa GEO'00	nrd:)	110	. 1.0	1.76	50	155	10	1.56	<1	19	58	86	3.49	<10 0.91	663	<1 0.02	25	690	26	10	<20	60 0.11	<10	75	<10	9	70

ļ

df/254 XLS/00

ECO-TECH LABORATORIES LTD. Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

3.

41

.

Page 1



Į.

ASSAYING GEOCHEMISTRY ANALYTICAL CHEMISTRY ENVIRONMENTAL TESTING

10041 Dallas Drive, Kamloops, B.C. V2C 6T4 Phone (250) 573-5700 Fax (250) 573-4557 email: ecotech@direct.ca

CERTIFICATE OF ASSAY AK 2000-385

ED FREY PO BOX 1437 KAMLOOPS, BC V2C 6L7			4-Dec-00
ATTENTION: ED FREY			
No. of samples received: 23			
Sample type: Rock			
PROJECT #: None Given			
Samples submitted by: E. Frey			
	٨٩	Δa	
ET #. Tag #	(g/t)	(oz/t)	
6 NRE47	92.5	2.70	

ECO-TECH LABORATORIES LTD. Frank J. Pezzotti, A.Sc.T. B.C. Certified Assaye

XLS/00

ECO-TECH LABORATORIES LTD. 10041 Dallas Drive KAMLOOPS, B.C. V2C 6T4

Phone: 250-573-5700 Fax : 250-573-4557

Values in ppm unless otherwise reported

.

ICP CERTIFICATE OF ANALYSIS AK 2000-385

ED FREY PO BOX 1437 KAMLOOPS, BC V2C 6L7

-

ATTENTION: ED FREY

ъį.

4

.

¢.

No. of samples received: 23 Sample type: Rock PROJECT #: None Given SHIPMENT #: None Given Samples submitted by: E. Frey

Et #.	Tag #	Au(ppb)	Ag	AI %	As	Ва	Bi Ca %	Cd	Co	Cr	Cu	Fe %	La Mg %	Mn	Mo Na%	Ni	Р	Pb	Sb	Sn	Sr Ti%	. บ	v	w	Y	Zn
1	NRE41	35	14.2	0.03	<5	30	30 0.04	k <1	1	148	8	0.52	<10 <0.01	72	689 < 0.01	4	20	998	<5	<20	1 < 0.0	<10	9	<10	<1	14
2	NRE42	20	7.6	0.30	<5	60	170 0.0	3 <1	2	144	<1	0.89	<10 0.07	173	13 0.03	6	220	460	<5	<20	19 <0.0 ⁻	<10	8	<10	2	16
3	NRE43	10	9.4	0.07	<5	10	25 0.04	↓ <1	1	177	<1	0.77	<10 0.02	61	56 0.01	6	50	484	<5	<20	4 < 0.0	<10	2	<10	<1	6
4	NRE45	15	5.6	0.01	<5	<5	10 <0.0 ⁻	2	<1	214	<1	0.33	<10 <0.01	75	7 <0.01	5	<10	286	<5	<20	<1 <0.0	<10	<1	<10	<1	182
5	NRE46	5	<0.2	0.25	<5	230	<5 1.22	2 <1	3	104	<1	1.38	10 0.27	372	4 0.03	7	380	16	<5	<20	54 <0.0	<10	6	<10	4	24
6	NRE47	30	>30	<0.01	<5	<5	190 0.03	3 2	<1	176	<1	0.34	<10 <0.01	76	30 <0.01	4	<10	6558	<5	<20	<1 <0.0	<10	<1	<10	<1	26
7	NRE48	10	<0.2	0.15	<5	<5	<5 0.0	5 <1	1	92	<1	0.46	<10 0.05	110	3 0.03	2	30	32	<5	<20	2 0.0	2 <10	4	<10	13	7
8	NRE49a	10	<0.2	0.23	<5	175	<5 0.4) <1	3	128	<1	1.11	<10 0.12	255	3 0.03	7	280	22	<5	<20	34 < 0.0	i <10	6	<10	4	19
9	NRE49b	10	<0.2	0.15	<5	20	<5 0.03	3 <1	1	189	<1	0.69	<10 0.04	149	5 0.02	6	60	10	<5	<20	<1 <0.0	<10	4	<10	1	10
10	NRE50	30	<0.2	0.02	<5	<5	<5 <0.0	<1	<1	194	27	0.31	<10 <0.01	58	9 <0.01	7	10	24	<5	<20	<1 <0.0	l <10	<1	<10	<1	5
11	NRE51	15	<0.2	0.05	<5	<5	<5 0.0 ⁻	<1	<1	251	5	0.45	<10 <0.01	68	6 <0.01	7	30	40	<5	<20	<1 <0.0	<10	<1	<10	<1	10
12	NRE52	10	<0.2	<0.01	<5	<5	<5 <0.0 ⁻	<1	<1	198	<1	0.24	<10 <0.01	41	5 < 0.01	5	<10	<2	<5	<20	<1 <0.0	<10	<1	<10	<1	4
13	NRE53	20	<0.2	0.40	<5	55	<5 0.14	l <1	4	120	<1	1.11	<10 0.23	206	2 0.04	5	280	12	<5	<20	10 0.0	5 <10	20	<10	8	17
14	NRE54	5	0.4	<0.01	<5	<5	<5 <0.0 ⁻	<1	<1	230	<1	0.29	<10 <0.01	76	13 <0.01	6	<10	30	<5	<20	<1 <0.0	<10	<1	<10	<1	4
15	NRE55	5	<0.2	0.40	<5	30	<5 0.2	<1	4	121	<1	1.06	<10 0.20	219	<1 0.05	5	260	8	<5	<20	15 0.0	5 <10	17	<10	9	16
16	NRE56	5	~<0:2	0.22	<5	15	<5 0.08	-1	2	111	<1	0.60	<10 0.09	143	1 0.04	2	70	8	<5	<20	4 0.03	3 <10	7	<10	5	11
17	NRE57	5	<0.2	0.39	<5	30	<5 0.2	<1	4	94	<1	1.03	<10 0.23	224	<1 0.04	6	230	10	<5	<20	14 0.00	8 <10	18	<10	8	16
18	NRE58	<5	<0.2	0.26	<5	15	<5 0.09) <1	2	101	<1	0.75	<10 0.12	172	<1 0.04	3	130	6	<5	<20	2 0.0	4 <10	10	<10	8	10
19	NRE59	10	<0.2	0.59	<5	40	<5 0.3 ⁻	<1	6	101	<1	1.41	10 0.40	245	<1 0.04	9	440	2	<5	<20	29 0.0	3 <10	29	<10	12	19
20	NRE60	5	<0.2	0.31	<5	25	<5 0.1	5 <1	3	122	<1	0.85	<10 0.16	155	<1 0.04	7	180	8	<5	<20	12 0.0	5 <10	16	<10	9	11
21	NRE61	15	<0.2	0.26	15	75	<5 0.04	<1	<1	71	1	0.45	50 0.01	48	2 0.03	4	150	48	<5	<20	2 <0.0	<10	<1	<10	10	21
22	NRE62	10	<0.2	<0.01	<5	<5	<5 <0.01	<1	1	287	<1	0.59	<10 <0.01	56	6 <0.01	10	<10	2	<5	<20	<1 <0.0	I <10	1	<10	<1	7
23	NRE63	10	<0.2	0.30	70	125	5 2.1 ⁻	<1	25	86	35	4.37	<10 1.56	535	3 0.04	40	540	4	10	<20	53 < 0.0	l <10	23	<10	<1	26

.

30-Nov-00

. ...

ICP CERTIFICATE OF ANALYSIS AK 2000-385

ED FREY

> ير د م

> > .

<u></u> Et #	Tag #	Au(ppb)	Ag	<u>AI %</u>	As	Ва	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	Lai	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tì %	U	V	W	Y	Zn
QC DA	TA:																													
Resplit 1	NRE41	35	14.6	6 <0.01	<5	25	25	0.03	<1	1	170	10	0.52	<10	<0.01	78	686	<0.01	2	<10	1026	<5	<20	<1	<0.01	<10	8	<10	<1	14
Repeat 1 10	: NRE41 NRE50	35 35	14.4 <0.2	↓ <0.01 2 0.02	<5 <5	25 <5	25 <5	0.03 <0.01	<1 <1	<1 1	152 194	9 27	0.56 0.31	<10 <10	<0.01 <0.01	80 57	690 4	<0.01 <0.01	2 6	<10 20	996 16	<5 <5	<20 <20	<1 <1	<0.01 <0.01	<10 <10	7 <1	<10 <10	<1 <1	14 6
Standa GEO'00	rd:	····· 110	. 1.0) 1.90	50	160	10	1.69	<1	21	64	88	4.11	<10	1.05	720	<1	0.02	24	770	22	<5	<20	65	0.14	<10	82	<10	13	81
			 - -			: 																	(AAD.	Ju	June			

df/370b XLS/00 -----

n Angelene

•

ECOTECH LABORATORIES LTD. Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

.

D. TECHNICAL REPORT

- One technical report to be completed for each project area.
- Refer to Program Regulations 15 to 17, pages 6 and 7.

SUMMARY OF RESULTS

• This summary section must be filled out by all grantees, one for each project area

Ministry of Energy and Wines Energy and Minerals Division Information on this form is confidential subject to the

provisions of the Freedom of Information Act.

Name	EOWARD	D, FREY

_Reference Number _<u>2000/2001 P93</u>

LOCATION/COMMODITIES

Project Area (as listed in Part A) <u>NEWNYKULSTON CREEN</u> Location of Project Area NTS <u>92 P/8</u> Description of Location and Access <u>3 Kin NEATHEAST OF CHINDON SHOUNTAIN</u> <u>15 km</u> <u>NERTH-NOATHEAST OF BARRIERE</u>, <u>ACCESS BY GENNER LANE LEONIE LAKE AND</u> <u>NEWHYKULSTAN CREEK FAREST ACCESS ROADS</u>, <u>AND FOOT TRAVENSES</u> Prospecting Assistants(s) - give name(s) and qualifications of assistant(s) (see Program Regulation 13, page 6) <u>DARIA DUBA</u>: <u>M.Sc. (GERCOLY) MCGILL UNIV., EXTENSIVE GOLD AND BASE METAL</u> <u>EXPLOSACTION EXPERIENCE IN B.C., SASK, NEUMON AND MASHINEDON</u>. Main Commodities Searched For <u>GOLD · IN PLUZON AELATED SHEERED VENS (FT. KNOX) OR</u> <u>SHEAR & FISSURE REPLACEMENT RODUCTS VENS (1°060</u>

Known Mineral Occurrences in Project Area <u>NONF, ANDIALOUS GOLD IN SEDIMENTS OF</u> NEWNYKULSTON CREEK AND IN LODGEMENT TILL IN THE CREEK VALLEY

WORK PERFORMED

I. Conventional Prospecting (area)	7 ~425 hectares
2. Geological Mapping (hectares/scale)) 1:5,000
3. Geochemical (type and no. of samples)	55 ROCK + 15 STREAM SEDIMENT (2 FRACTIONS ENCH
4. Geophysical (type and line km) MIL	+ 4 Ag ASSAYS /300 AU (FA/AA) + 28 ECEMPENT
5. Physical Work (type and amount) 1.2 km	ROAD CLEARING ICP ROCK & SEDIMENTS
6. Drilling (no. holes, size, depth in m, total	m) <u>N//L</u>
7. Other (specify)	"Dhe PLACER & TWO UNITS WINERAL CCAIMS STAKED.

Best Discovery

Project/Claim Name Alf wHYKULSTON CREEK	Commodities SILVER LEAD	
Location (show on map) Lat51° 18' 55" N	Long 120°04'45" W Elevation ~1487 m	
Best assay/sample type 109.6 a 1t SILVER &	5650 DAM LEAD IN FROAT! ANFULAR	-
HEAVY CLAST ~ 20 × 12 × 5 cm.	SAMPLE NRE 36	

Description of mineralization, host rocks, anomalies <u>WHITE VEIN (WIDTH >5CM)</u> QUARTZ <u>MEDIVENI - CRARSE CRAINED: ~ 3rd FINE GRAINED PYRITE AND GALENA, PIESEMENATED</u> AND IN CLETZ TO SMM. BARE COARSE GRAINED CALENA TO 5mm.

FEEDBACK: comments and suggestions for Prospector Assistance Program_

MAINTAIN IT FOR THE EVALURE OF MINING IN B.C.,

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS



- Those submitting a copy of an Assessment Report or a report of similar quality that covers all the key elements . listed below are not required to fill out this section.
- Refer to Program Regulation 17D on page 6 for details before filling this section out (use extra pages if necessary)
- Supporting data must be submitted with the following TECHNICAL REPORT or any report accepted in lieu of.

Information on this form is confidential for one year from the date of receipt subject to the provisions of the Freedom of Information Act.

Name EDWARD D. FREY Reference Number 2000/2001 P93

1. LOCATION OF PROJECT AREA [Outline clearly on accompanying maps of appropriate scale.]

SEE ATTACHED REPORT

2. PROGRAM OBJECTIVE [Include original exploration target.]

SEE ATTACHED REPORT

3. PROSPECTING RESULTS [Describe areas prospected and significant outcrops/float encountered. Mineralization must be described in terms of specific minerals and how they occur. These details must be shown on accompanying map(s) of appropriate scale; prospecting traverses should be clearly marked.]

SEE ATTACHED REPORT

BC Prospectors Assistance Program - Guidebook 2000

17

D. TECHNICAL REPORT (continued)



20

REPORT ON RESULTS (continued)

÷

 $\mathbf{\hat{z}}$

ł

5. GEOPHYSICAL RESULTS [Specify the objective of the survey, the method used and the work done. Discuss the results and show the data on an accompanying map of appropriate scale. Any anomalous areas must be indicated on maps by the use of contouring, or some other suitable technique.]

. . • . · · · ,

5. OTHER RESULTS [Drilling - describe objective, type and amount of drilling done. Discuss results, including any significant intersections obtained. Indicate on a map of appropriate scale the drill-hole collar location, the angle of inclination and azimuth. Drill logs correlated with assay results must be included. Physical Work - describe the type and amount of physical work done and the reasons for doing it (where not self-evident). This includes lines/grids, trails, trenches, opencuts, undergound work, reclamation, staking of claims, etc. Discuss results where pertinent.]

_____ N J.A. DRICLING _____ ----PHYSICAL WORK - SEE ATTACHED REPORT Date 31 JAM. 2001 Signature of Grantee _____

BC Prospectors Assistance Program - Guidebook 2000

E.D. Frey - Reference Number 2000/2001 P93

PROSPECTING REPORT FORM

D. REPORT ON RESULTS

1. Location of Project Area - The project area (Fig.1) is approximately 15 km north-northeast of the town of Barriere and 85 km north of Kamloops. It is on the upper western slope of the Adams Plateau. Newhykulston Creek and its parallel branch (~one kilometre north), drain the area into the North Thompson River, six kilometres westward.

2. Program Objective - The program objective was to find the bedrock source of the gold mineralization discovered by the B.C Geological Survey in Newhykulston Creek stream sediments and in a lodgement till sample in the stream valley (Fig.2).

Recent stream sediment sampling by the B.C. Geological Survey (Lett & Jackaman, 2000; Lett, et al., 2000) yielded highly anomalous gold, to 3130 ppb in stream sediments and 59,600 ppb in a heavy mineral concentrate (Fig.2). Earlier BCGS lodgement till and stream sediment sampling within 170 m downstream from these anomalies (Figs.2, 2a) yielded 62 and 247 ppb gold, respectively (Bobrowsky et al.,1998; Jackaman et al., 1992). Prospecting by Frey and Duba to 800 m up-ice (northwest) from the BCGS till sample site did not find a probable source of it (Frey, 2000). Additional prospecting of a larger area to the north and northeast also was inconclusive (Frey, 2000, Map CM-4).

The gold in the stream sediments may have been derived from erosion of the pre-drainage till cover of the present deeply incised valley of Newhykulston Creek (~300 m/km gradient). Locally, the deposition of that till may have been by **eastward** iceflow, controlled by preglacial topography, suggesting a source in metavolcanic rocks of the Fennell Formation, downstrearn and further west-northwest.

Another possible source is the unnamed granodiorite stock, an apophysis(?) of the Cretaceous Baldy Batholith (10 km to the northeast) that intrudes mafic metavolcanic flows of the Fennell Formation in this area. Frey (2000, Map CM-4) mapped part of its western contact and prospected part of its poorly exposed occurrence northeast of the anomalous samples. Assessment mapping by BP Minerals and Inco (Fig.2; Casselman & Cameron, 1994; Farmer & Hoffman, 1987) identified an outcrop of the stock 1.9 km south of the BCGS sample sites.

@ @ @ @ @ @

The program objective originally had a second component: geophysical and prospecting/mapping surveys to follow-up the 1999 copper mineralization discovered in float by Frey and Duba (Frey, 2000). That work was not pursued in 2000 due to employment on consulting projects in Ontario in September and October. That work is now planned for spring 2001, with private funding.

3. Prospecting Results (Figs.2, 2a & b)

Prospecting focused on the drainage slopes and uplands north and south of Newhykulston Creek, upstream from its junction with the Newhykulston Creek forest access road. The area also includes most of the apparent outcrop area of the granodiorite stock, from Newhykulston Creek north to several hundred metres north of its north branch. Both strearn beds were prospected eastward from their road intersections to the contact of the stock and the Fennell Formation. The small outcrops of the stock south of Newhykulston Creek, noted in Section 2, are now established as limited to that area. Newhykulston Creek follows most of the southern contact of the main body of the stock. (Fig.2)

The outcrop distribution of the stock between Newhykulston Creek and its north branch is more extensive than observed previously (Frey, 2000, Map CM-4). Most of the "new" outcrops follow the crest of a break in slope of the Newhykulston Creek valley.

The only visual mineralization discovered in the program is minor chalcopyrite, pyrite and bornite in boulder float near the north end of the stock area and minor galena and pyrite in vein quartz float in the north branch of Newhykulston Creek.

The former (Sample NRE25) occurs in fine grained to coarsely megacrystic (to 2 cm) granodiorite, pale white with dull orange feldspar weathering. The granodiorite contains numerous unmineralized aplitic to medium grained quartz-feldspar veins to 2 cm width (Sample NRE4). Neither sample yielded anomalous gold, however the gold content of the vein sample is eight times that of its host: 40 vs. 5 ppb. Prospecting area of numerous float boulders north and north west of this occurrence did not locate its source.

The galena-bearing quartz float in the north branch of Newhykulston Creek yielded a similar range of gold, 30 to 85 ppb, and significantly anomalous silver and lead (see Section 4). Prospecting the creek bed and adjacent uplands did not locate the source.

Prospecting in the Fennell Formation west and south of the stock did not find mineralization.

4. Geochemical Results (Figs.2, 2a & b)

Seventy samples of in situ bedrock, float and stream sediments were collected and analyzed geochemically in an attempt to identify areas of anomalous gold or its pathfinder elements. A secondary objective in the north branch of Newhykulston Creek was to define a prospecting area for the source of anomalous silver and lead discovered earlier in the project.

Bedrock: 55 hand samples (34 float) were analyzed from those collected during traverses across the area and along the beds of Newhykulston Creek and the north branch of Newhykulston Creek. All were analyzed for gold (FA/AA; 30g) and 28 other elements (ICP). Four quartz vein float samples from the north branch of Newhykulston Creek that yielded >30 ppm Ag (ICP) were also assayed for silver.

With the exception of the silver-lead discovery, the overall results from bedrock analyses are poor. Only a few samples yielded slightly geochemically elevated quantities of gold or base metals. As noted below, the stream sediment sample results confirm the presence of anomalous gold in the drainage of Newhykulston Creek. It's source remains unknown. Continuing stream sediment sampling upstream would help focus additional exploration, however the deeply incised valley and it's overburden covered slopes would require extensive mechanical excavation for thorough exploration.

In the north branch of Newhykulston Creek angular clasts of "heavy," white to grey, medium to coarse grained, vein quartz are thinly dispersed for about 800 m in the stream bed. They range from 8 to 30 cm length and 4 to 15 cm in apparent vein width. Most are unmineralized, the rest contain 1 to 3% fine grained pyrite+/-chalcopyrite and galena. The most significant results are:

			(p	pm)	
	ppb Au	ı g/t Ag	Рb	Cu	Zn	Mo	
NRE26	55	73.0	3784	9	<1	30	
NRE36	35	109.6	5650	23	4	90	
NRE37	85	43.5	2108	12	2	34	
NRE41	35	14.2*	948	8	14	689	*note 14.2 ppm Ag
NRE47	30	92.5	6558	<1	26	30	

Stream Sediments: Stream sediments (Samples NST9a to NST20a and NST21 to NST23 were collected at thirteen sites in Newhykulston Creek and two sites in the north branch of Newhykulston Creek by wet sieving through a 20 mesh screen. Two size fractions: -80+200 mesh and -200 mesh of each -20 mesh sample were analyzed in the same manner as the bedrock samples. In addition, three bulk samples of stream sediment were collected for future heavy mineral analysis. Reference samples of +20 and -20 mesh were retained from each site for future examination of gold grain shape.

Newhykulston Creek was sampled upstream for 500 m, at intervals of 50 m from its intersection with the Newhykulston Creek forest access road, the site of the BCGS anomalous gold in till sample. Additional sites on Newhykulston Creek replicated the BCGS sampling that yielded 3130 ppb Au in stream stream sediments and 59,600 ppb Au from a heavy mineral concentrate. Anomalous results (ppb gold) are:

	-80+200 mesh	-200 mesh	upstream distance (m)
NST20	a 135	30	27
	59,600 (BCGS	HM concentrate)	
NST9a	5	180	50
NST10	a 300	65	100
NST15	ia 5	100	325
	3130 (BCGS)		
NST16	ia 115	90	350
NST18	la 30	515	450

5. Geophysical Results - N/A

6. Other Results

Drilling - N/A

Physical Work - The lower part of an otherwise open, **abandoned logging road (Fig.2)** was blocked by alder and aspen that had been bowed over the road by snow. Hand-clearing of 1.2 km with an ax allowed 4WD truck use of the road. Road access greatly facilitated stream sediment sampling of the upper reaches of Newhykulston Creek, its north branch and prospecting the area between the two creeks.

Four two-post mineral claim units and one 50 ha placer claim were staked to straddle a portion of Newhykulston Creek and a small area south of it (Figs.3 & 4). The northern units and the placer claim were staked to cover the gold-bearing stream sediments target and its possible near-source host rocks. The southern units were part of a planned expansion into an area of anticipated additonal outcrop of the felsic stock.

The eastern units and the placer claim were staked during the prospecting.

REFERENCES

- Bobrowsky, P.T., Paulen, R., Little, E., Prebble, A., Ledwon, A. and R. Lett (1998): Till geochemistry of the Louis Creek Chu Chua Creek Area (NTS 92P/1E and 92P/8E). B.C. Ministry of Energy and Mines, Open File 1998-6, 26p. & appendices.
- Casselman, S. and B. Cameron (1994): 1994 Geological, geophysical and lithogeochemical report on the CM Property, Barriere, B.C. Inco Limited, Assessment Report 23,653.

Farmer, R., and S.J. Hoffman (1987): Assessment Report. Linecutting, Geophysics, Geochemistry, Geology and Diamond Drilling on the CM 1-6 Mineral Claims. BP Minerals Limited, Assessment Report 16,596.

- Frey, E.D. (2000): B.C. Prospectors Assistance Program Report. Reference No. 99/2000/P136.
- Jackaman, W., Matysek, P.F. and S.J. Cook (1992): British Columbia regional geochemical survey, NTS 92P - Bonaparte Lake, stream sediment and water geochemical data. B.C. Ministry of Energy, Mines and Petroleum Resources, Preliminary Report RGS 36.
- Lett, R. and W. Jackaman (2000): Geochemical exploration techniques for intrusive hosted gold deposits in southern B.C. (82M/4, M/5, M/6 and 82F/7); in Geological Fieldwork 1999, B.C. Ministry of Energy and Mines, Paper 2000-1.

Lett, R., Jackaman, W. and L. Englund (2000): Stream geochemical exploration for plutonrelated quartz-vein gold deposits in southern British Columbia (NTS 82M/4, 5, 6; 92P/8; 82F/7). B.C. Ministry of Energy and Mines, Open File 2000-23.



5689728

LEGAL POST	. O
WITNESS POST	мр` ()
FORFEITED TENURE	C
VERIFIED	VER
SURVEYED	SUF
REVERTED C.G. MINERAL CLAIM	REV CG OR RCG
CROWN GRANTED	CG
OPEN FOR STAKING	O.F.S.



THIS MAP IS PREPARED ONLY AS A GUIDE TO THE LOCATION OF MINERAL TENURE AS AS SHOWN ON THE LOCATOR S SKETCHES. FOR CURRENT OR MORE SPECIFIC INFORMATION, APPLICATION SHOULD BE MADE TO THE MINING DIVISION CONCERNED.

092P09W	092P09E	082M12W
092P08W	092P08E	082M05W
092P01W	092P01E	082M04W

INDEX TO ADJOINING MAPS



5683392

91769 KAMLOOPS

JAN 5 0 2001



ECO-TECH LABORATORIES LTD. 10041 East Trans Canada Highway

KAMLOOPS, B.C. V2C 6T4

Phone: 250-573-5700 Fax : 250-573-4557

18-Jul-00

. "_

Values in ppm unless otherwise reported

ICP CERTIFICATE OF ANALYSIS AK 2000-133

.

ED FREY PO BOX 1437 KAMLOOPS, BC V2C 6L7

ATTENTION: ED FREY

No. of samples received: 6 Sample type: Rock PROJECT #: None Given SHIPMENT #: None Given Samples submitted by: E. Frey

_Et #.	Tag #	Au(ppb)	Ag	A1 %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Мо	Na %	Ni	Р	Pb	Sb	Sn	Sr	Ti %	U	v	w	Y	Zn
1	NRE - 1	85	< 0.2	0.52	<5	85	<5	0.19	<1	6	100	4	1.44	40	0.35	373	<1	0.03	4	490	10	<5	<20	9	0.13	<10	23	<10	16	36
2	NRE - 2	10	<0.2	0.97	<5	125	15	0.68	<1	12	103	3	2.39	20	0.76	390	<1	0.05	11	1150	10	10	<20	36	0.18	<10	56	<10	10	39
3	NRE - 3	20	<0.2	0.26	<5	20	<5	0.09	<1	2	97	3	0.75	<10	0.12	200	1	0.03	4	130	16	<5	<20	2	0.04	<10	11	<10	12	13
4	NRE - 4	40	<0.2	0.28	<5	55	<5	0.38	<1	3	83	2	0.66	10	0.16	141	<1	0.04	2	140	12	<5	<20	20	0.04	<10	13	<10	8	13
5	NRE - 5	25	<0.2	0.09	15	100	<5	0.03	<1	<1	142	3	0.46	<10	<0.01	102	6	0.01	5	60	10	<5	<20	4	<0.01	<10	2	<10	<1	5
6	NRE - 6	35	<0.2	0.64	60	185	25	3.28	<1	41	17	7	8.16	<10	1.36	1736	6	0.02	26	880	6	<5	<20	107	<0.01	<10	43	<10	4	75
QC D/ Respl	ATA:	· · · ·		 																										
1	NRE - 1	115			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-		-	-
Repea 1	at: NRE - 1	95	•	-	-	-	-	-	-	-	-	-	-	-	-	-	÷	-	-	-	-	-	-		-	-	•	-	-	-
Stand GEO'0	l ard:)0	130	0.8	1.79	70	150	10	1.60	<1	20	61	83	3.70	<10	0.91	688	<1	0.02	26	730	24	20	<20	59	0.12	<10	77	<10	9	77

ECO-TECH LABORATORIES LTD. Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

Page 1

ASSAYING GEOCHEMISTRY ANALYTICAL CHEMISTRY ENVIRONMENTAL TESTING

10041 Dailas Drive, Kamloops, B.C V2C 614 Phone (260) 573 5700, Fax (250) 573-4557 email: ecetochi&directica

CERTIFICATE OF ANALYSIS AK 2000-139

ED FREY PO BOX 1437 KAMLOOPS, BC V2C 6L7

2

ATTENTION: ED FREY

No. of samples received: 15 Sample type: Sediment PROJECT #: None Given SHIPMENT #: None Given Samples submitted by: E. Frey

		Mes	h Weights(g	り	Au (p	pb)	
ET #.	Tag #	Total	-80+200	-200	Mesh: -80+200	<u>Mesh: - 200</u>	
1	NST 9 a	1593	67	18	5	180	
2	NST 10 a	1757	64	22	300	65	
3	NST 11 a	1753	53	18	5	15	
4	NST 12 a	1639	47	11	<5	30	
5	NST 13 a	1930	107	45	10	5	
6	NST 14 a	1873	38	15	<5	25	
7	NST 15 a	1941	53	15	5	100	
8	NST 16 a	1866	56	13	115	90	
9	NST 17 a	1756	46	13	5	20	
10	NST 18 a	1872	33	12	30	515	
11	NST 19 a	1616	40	17	5	20	
12	NST 20 a	1784	36	9	135	30	
13	NST 21	1749	78	92	5	10	
14	NST 22	1471	137	43	5	35	
15	NST 23	1277	84	67	5	10	



1-Aug-00

÷ `

.

7

		Mes	h Weights(g	1)	Au (pr	ob)	
ET #	Tag #	Total	-80+200	-200	Mesh: -80+200	Mesh: - 200	
QC D	ATA:						
Repe	at:						
5	NST 13 a	1930	107	45	5	-	
13	NST 21	1749	78	92	-	10	
14	NST 22	1471	137	43	5	-	

Standard: GEO '00

110

....

ECO-TECH LABORATORIES LTD. Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

.

XLS/00

3-Aug-00	· · · · · · · · · · · · · · · · · · ·	·	
ECO-TECH LABORATORI 10041 Dallas Drive KAMLOOPS, B.C. V2C 6T4	IES LTD.	ICP CERTIFICATE OF ANALYSIS AK 2000-139	ED FREY PO BOX 1437 KAMLOOPS, BC V2C 6L7
Phone: 250-573-5700	:- 4.		ATTENTION: ED FREY
Fax : 250-573-4557			<i>No. of samples received: 15 Sample type: Sediment PROJECT #: None Given SHIPMENT #: None Given</i>

٠,

4 .

.

Samples submitted by: E. Frey

Values in ppm unless otherwise reported Nesh

· · · · _ · · _ ·

Et #	. Tag #	Weights (g)	Ag	AI %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe <u>%</u>	La	Mg %	Mn	Мо	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	<u> </u>	<u>v</u>	W	<u>Y</u>	_Zn
1	NST 9a	-80+200	<0.1	1.46	5	65	20	0.68	<1	18	54	30	2.71	<10	0.84	361	<1	0.01	24	570	20	10	<20	14	0.23	<10	71	<10	20	80
2	NST 10 a	-80+200	<0.1	1.55	10	65	15	0.70	<1	19	56	25	2.75	<10	0.88	385	<1	0.01	27	600	12	5	<20	14	0.23	<10	71	<10	19	52
3	NST 11 a	-80+200	<0.1	1.51	5	60	20	0.68	<1	19	61	24	2.75	<10	0.89	367	<1	0.01	28	580	10	10	<20	14	0.23	<10	71	<10	18	46
4	NST 12 a	-80+200	<0.1	1.54	5	65	20	0.68	<1	19	55	25	2.71	<10	0.90	387	<1	0.01	26	540	10	10	<20	14	0.24	<10	71	<10	20	49
5	NST 13 a	-80+200	<0.1	1.55	10	60	20	0.70	<1	19	58	25	2.65	<10	0.89	401	<1	0.01	28	540	12	10	<20	12	0.25	<10	71	<10	21	49
6	NST 14 a	-80+200	<0.1	1.57	<5	65	15	0.72	<1	19	56	27	2.80	<10	88.0	405	<1	0.01	27	550	10	10	<20	14	0.24	<10	74	<10	20	46
7	NST 15 a	-80 +200	<0.1	1.62	10	60	20	0.71	<1	20	56	25	2.77	<10	0.94	405	<1	0.01	28	520	10	10	<20	11	0.26	<10	74	<10	21	44
8	NST 16 a	-80+200	<0.1	1.61	15	60	20	0.71	<1	19	53	27	2.69	<10	0.87	425	<1	0.01	25	530	10	10	<20	10	0.24	<10	71	<10	21	- 44
9	NST 17 a	-80+200	<0.1	1.59	10	70	15	0.71	<1	19	50	26	2.53	<10	0.86	429	<1	0.01	25	520	10	10	<20	15	0.24	<10	68	<10	20	43
10	NST 18 a	-80+200	<0.1	1.65	10	65	15	0.72	<1	20	56	27	2.84	<10	0.90	423	<1	0.01	27	520	10	10	<20	16	0.25	<10	75	<10	20	45
11	NST 19 a	-80+200	<0.1	1.69	10	70	20	0.74	<1	19	51	29	2.48	<10	0.86	466	<1	0.02	27	540	10	15	<20	15	0.22	<10	67	<10	20	- 44
12	NST 20 a	-80+200	<0.1	1.52	<5	60	20	0.69	<1	18	57	23	2.82	<10	0.87	377	<1	0.01	25	600	10	10	<20	15	0.22	<10	73	<10	18	43
13	NST 21	-80+200	<0.1	1.55	<5	55	25	0.65	<1	21	52	27	2.50	<10	0.98	396	<1	0.01	28	450	8	10	<20	6	0.29	<10	67	<10	23	- 44
14	NST 22	-80+200	<0.1	1.46	10	85	20	0.65	<1	19	49	22	2.69	<10	0.87	450	<1	0.01	24	630	36	10	<20	15	0.25	<10	67	<10	20	46
15	NST 23	-80+200	<0.1	1.96	10	95	25	0.73	<1	25	62	32	2.92	<10	1.13	637	<1	0.01	34	430	14	10	<20	11	0.27	<10	77	<10	21	62
																														. –
16	NST 9a	-200	<0.1	1.73	15	90	15	0.85	<1	16	49	34	2.31	<10	0.66	477	<1	0.02	23	830	12	10	<20	21	0.17	<10	60	<10	23	45
17	NST 10 a	-200	<0.1	1.84	20	100	15	0.91	<1	16	54	34	2.36	<10	0.68	493	<1	0.02	26	900	14	10	<20	22	0.17	<10	62	<10	24	46
18	NST 11 a	-200	<0.1	1.68	20	85	10	0.82	<1	15	53	30	2.17	<10	0.61	440	<1	0.02	25	790	10	<5	<20	20	0.16	<10	56	<10	21	40
19	NST 12 a	-200	<0.1	1.86	20	95	15	0.87	<1	16	53	34	2.33	<10	0.68	499	<1	0.02	`26	830	12	10	<20	20	0.18	<10	61	<10	23	45
20	NST 13 a	-200	<0.1	1.88	15	100	15	0.90	<1	17	52	37	2.20	<10	0.68	562	<1	0.02	26	800	12	5	<20	21	0.17	<10	59	<10	27	47
21	NST 14 a	-200	<0.1	1.95	15	105	10	0.95	<1	17	50	37	2.23	<10	0.66	572	<1	0.02	25	840	12	10	<20	23	0.17	<1Û	59	<10	25	47
22	NST 15 a	-200	<0.1	1.86	15	95	20	0.88	<1	17	49	34	2.26	<10	0.67	504	<1	0.02	25	770	10	5	<20	23	0.19	<10	60	<10	24	45
23	NST 16 a	-200	<0.1	1.87	20	95	15	0.89	<1	18	50	35	2.35	<10	0.71	511	<1	0.02	25	780	12	<5	<20	22	0.20	<10	63	<10	24	48
24	NST 17 a	-200	<0.1	1.81	15	90	15	0.88	<1	17	46	3 4	2.14	<10	0.65	531	<1	0.02	24	770	12	10	<20	17	0.18	<10	58	<10	25	45
25	NST 18 a	-200	<0.1	1.95	20	100	10	0.90	<1	17	48	36	2.18	<10	0.68	544	<1	0.02	25	690	10	5	<20	21	0.18	<10	59	<10	25	46
														Page	1															

3-Aug-00.

ICP CERTIFICATE OF ANALYSIS AK 2000-139

ED FREY

۳٩

4

Me	st	h	

· • 22. -

-· · · · · ·

	Tag # Weights (g) Ag Al % As Ba Bi Ca % Cd Co Cr Cu Fe % La Mg % Mn Mo Na % Ni																												
Tag #	Weights (g)	Ag	AI %	As	Ba	Bi	Ca %	Ċd	Со	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	Р	РЪ	Sb	Sn	Sr	Ti %	U	V	W	Υ_	Zn
NST 19 a	-200	<0.1	2.00	20	100	10	0.93	<1	17	48	38	2.14	<10	0.69	5 85	<1	0.02	25	700	12	10	<20	22	0.18	<10	58	<10	25	48 ,
NST 20 a	-200	<0.1	1.81	20	95	15	0.92	<1	16	55	34	2.38	<10	0.68	510	<1	0.02	26	970	12	10	<20	21	0.16	<10	61	<10	23	45
NST 21	-200	<0.1	1.98	5	105	25	0.83	<1	22	56	38	2.56	<10	0.85	544	<1	0.02	30	650	14	10	<20	14	0.29	<10	70	<10	29	59
NST 22	-200	0.5	1.54	20	135	20	0.76	<1	17	42	27	2.40	<10	0.57	664	<1	0.01	21	860	64	<5	<20	18	0.17	<10	56	<10	25	49
NST 23	-200	<0.1	2.05	20	140	15	0.81	<1	23	56	40	2.64	<10	0.85	757	<1	0.01	31	580	16	10	<20	15	0.21	<10	68	<10	24	66
TA:	· 	-																											
	•																												
nt:	····																												
NST 9 a		<0.1	1.47	10	60	20	0.68	<1	18	54	24	2.75	<10	0.83	365	<1	0.01	24	580	14	<5	<20	12	0.25	<10	71	<10	20	53
NST 18 a		<0.1	1.62	5	65	25	0.72	<1	20	54	27	2.73	<10	0.89	412	<1	0.01	26	500	12	10	<20	13	0.25	<10	74	<10	21	44
NST 12 a		<0.1	1.83	20	95	10	88.0	<1	16	52	33	2.31	<10	0.66	497	<1	0.02	26	840	12	5	<20	18	0.17	<10	61	<10	24	45
ard:		-																											
ю		1.2	1.79	60	150	10	1.59	<1	20	57	82	3.66	<10	0.94	687	<1	0.02	24	690	22	15	<20	55	0.11	<10	76	<10	13	74
	, 																												
		<u>. . . </u>																											
																						2_							
		•																			Z		Ø.						
																			ECO-TE		BORK	TORIF							
																			Frank J.	Pezzót	i. A.S	c.T.		•					
0																		1	3.C. Ce	rtified A	ssaver	•							
	Tag # NST 19 a NST 20 a NST 21 NST 22 NST 23 AIA: nt: NST 9 a NST 18 a NST 12 a lard: NO	Tag # Weights (g) NST 19 a -200 NST 20 a -200 NST 21 -200 NST 22 -200 NST 23 -200 ATA:	Tag # Weights (g) Ag NST 19 a -200 <0.1	Tag # Weights (g) Ag Ai % NST 19 a -200 <0.1	Tag # Weights (g) Ag Ai % As NST 19 a -200 <0.1	Tag # Weights (g) Ag Ai % As Ba NST 19 a -200 <0.1	Tag # Weights (g) Ag A! % As Ba Bi NST 19 a -200 <0.1	Tag # Weights (g) Ag Al % As Ba Bi Ca % NST 19 a -200 <0.1	Tag # Weights (g) Ag Ai % As Ba Bi Ca % Cd NST 19 a -200 <0.1	Tag # Weights (g) Ag Al % As Ba Bi Ca % Cd Co NST 19 a -200 <0.1	Tag # Weights (g) Ag Al % As Ba Bi Ca % Cd Co Cr NST 19 a -200 <0.1	Tag # Weights (g) Ag Al % As Ba Bi Ca % Cd Co Cr Cu NST 19 a -200 <0.1	Tag # Weights (g) Ag Al % As Ba Bi Ca % Cd Co Cr Cu Fe % NST 19a -200 <0.1	Tag # Weights (g) Ag Al % As Ba Bi Ca % Cd Co Cr Cu Fe % La NST 19 a -200 <0.1	Tag # Weights (g) Ag Al % As Ba Bi Ca % Cd Co Cr Cu Fe % La Mg % NST 19 a -200 <0.1	Tag # Weights (g) Ag Al % As Ba Bi Ca % Cd Co Cr Cu Fe % La Mg % Mn NST 19 a -200 <0.1	Tag # Weights (g) Ag Al % As Ba Bi Ca % Cd Co Cr Cu Fe % La Mg % Mn Mo NST 19 a -200 <0.1	Tag # Weights (g) Ag Ai % As Ba Bi Ca % Cd Co Cr Cu Fe % La Mg % Mn Mo Na % NST 19 a -200 <0.1	Tag # Weight (g) Ag Al % As Ba Bi Ca % Cd Co Cr Cu Fe % La Mg % Mn Mo Na % Ni NST 19 a -200 <0.1	Tag # Weights (g) Ag Al% As Ba Bi Ca % Cd Co Cr Cu Fe % La Mg % Mn Mo Na % Ni P NST 19 a -200 <0.1	Tag # Weights (g) Ag Al% As Ba Bi Ca % Cd Co Cr Cu Fe % La Mg % Mn Mo Na % Ni P Pb NST 19 a -200 <0.1	Tag # Weights (p) Ag Ai As Ba Bi Ca Cd Co Cr Cu Fe La Mg % Mn Mo Na % Ni P Pb Sb NST 19 a -200 <0.1	Tag # Weights (g) Ag Al % As Ba Bi Ca % Cd Co Cr Cu Fe % La Mg % Mn Mo Na % Ni P Pb Sb Sn NST 19 a -200 <0.1	Tag # Weights (g) Ag A I % As Ba Bi Ca % Cd Co Cr Cu Fe % La Mg % Mn Mo Na % Ni P Pb Sb Sn Sr NST 19 a -200 <0.1	Tag # Weights (g) Ag Al% As Ba Bl Ca % Cd Co Cr Cu Fe % La Mg % Mn Mo Na % Ni P Pb Sb Sn Sr Ti % NST 19 a -200 <0.1	Tag # Weights (g) Ag Al % As Ba Bl Ca % (a) Cd Co Cr Cu Fe % (b) La Mg % (b) Mn Mo Na % (b) Ni P Pb Sb Sn Sr Ti % (b) U NST 10 a -200 -0.1 1.81 20 95 15 0.92 <1	Tag # Weighte (g) Ag As Ba Bi Ca % Cd Co Cr Cu Fe % La Mg % Mn Mo Na % Ni P Pb Sb Sn Sr Ti % U V NST 19 a -200 <0.1	Tag # Weights (n) Weights (n) Ag Als Ba Bl Ca % Cd Co Cr Cu Fe % La Mg % Mn Mo Na% NI P Pb Sb Sn Sr Ti% U V W NST 19a -200 -0.1 1.00 10 0.93 -11 17 48 38 2.14 0.0 0.85 50 1 0.02 25 700 12 10 <20	Tag if Weights (g) Ag Al Ba Bi Cd Cd Co Cr Cu Fe La Mg Ni P Pb Sb Sn Sr Tit U V W Y NST 19a 200 <0.1

XLS/00

Page 2

.

21-Jul-00

ECO-TECH LABORATORIES LTD. 10041 East Trans Canada Highway KAMLOOPS, B.C. V2C 6T4

Phone: 250-573-5700 Fax : 250-573-4557

Values in ppm unless otherwise reported

ICP CERTIFICATE OF ANALYSIS AK 2000-140

ED FREY PO BOX 1437 KAMLOOPS, BC V2C 6L7

.

ATTENTION: ED FREY

No. of samples received: 7 Sample type: Rock PROJECT #: None Given SHIPMENT #: None Given Samples submitted by: E. Frey

Et #	. Tag #	Au(ppb)	Ag	<u>Al %</u>	As	Ba	Bi (<u>Ca %</u>	Cd	Co	Cr	Cu	Fe %	La	<u>Mg %</u>	<u>Mn</u>	Mo	Na %	Ni	<u> </u>	Pb	Sb	<u>Sn</u>	Sr	<u> </u>	<u> </u>	<u> </u>	<u></u>	<u> </u>	<u></u> Zn
1	NRE 7	30	<0.2	1.70	<5	180	20	0.86	<1	19	78	21	3.01	20	1.23	426	<1	0.09	18	1690	22	10	<20	44	0.35	<10	90	<10	15	49
2	NRE 8	10	<0.2	1.74	<5	275	20	0.79	<1	23	189	21	2.97	10	1.67	434	<1	0.03	67	1630	18	20	<20	28	0.31	<10	84	<10	13	45
3	NRE 9	40	<0.2	1.32	<5	110	15	0.93	<1	15	66	14	2.73	20	0.99	391	<1	0.04	10	1670	16	10	<20	36	0.23	<10	73	<10	13	48
4	NRE 10	30	<0.2	0.50	<5	75	<5	0.14	<1	5	67	3	1.36	30	0.30	353	<1	0.03	2	490	10	<5	<20	1	0.12	<10	21	<10	23	35
5	NRE 11	25	<0.2	0.87	<5	40	10	0.71	<1	19	144	32	2.49	<10	0.26	2404	<1	0.02	64	670	14	<5	<20	16	0.09	<10	47	<10	10	60
6	NRE 12	45	<0.2	0.49	<5	60	5	0.28	<1	6	77	2	1.27	10	0.33	228	<1	0.04	7	440	8	<5	<20	13	0.09	<10	27	<10	9	18
7	NRE 14	15-	<0.2	0.04	<5	5	<5	0.01	<1	1	165	2	0.37	<10	<0.01	75	4	<0.01	3	20	<2	<5	<20	<1	<0.01	<10	1	<10	<1	8
QC_D Resp 1	ATA: lit: NRE 7	40 -	 				*	-	-	-	-				. .						-	-	-			-	-	-	-	
Repe 1	at: NRE 7	25	<0.2	1.72	10	180	20	0.86	<1	19	81	21	3.05	20	1.25	428	<1	0.09	18	1700	22	20	<20	39	0.35	<10	90	<10	18	50
Stand GEO'(<i>lard:</i> 00	130	0.8	1.79	70	150	10	1.60	<1	20	61	83	3.70	<10	0.91	688	<1	0.02	26	730	24	20	<20	59	0.12	<10	77	<10	9	77

ECO-TECH LABORATORIES LTD. Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

df/143 XLS/00

ASSAYING GEOCHEMISTRY ANALYTICAL CHEMISTRY ENVIRONMENTAL TESTING

10041 Dallas Drive, Kamloops, B.C. V2C 6T4 Phone (250) 573-5700 Fax (250) 573-4557 email ecotech@direct.ca



QC DATA:

LABORATORIES TD.

Standard: MP1a

69.0 2.01

XLS/00

ECO-TECH LABORATORIES LTD.

ECO-TECHILABORATORIES LTD. Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

an dia siya

3-Aug-00

ECO-TECH LABORATORIES LTD. 10041 Dallas Drive KAMLOOPS, B.C. V2C 6T4

12.22

Phone: 250-573-5700 Fax : 250-573-4557 ICP CERTIFICATE OF ANALYSIS AK 2000-189

ED FREY PO BOX 1437 KAMLOOPS, BC V2C 6L7

ATTENTION: ED FREY

No. of samples received: 12 Sample type: Rock PROJECT #: None Given SHIPMENT #: None Given Samples submitted by: Ed. Frey ٦í

٠

af.

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	AI %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Мо	Na %	Ni	Р	Pb	Sb	Sn	Sr	Ti %	บ	v	w	Y	Zn
1	NRE 16	15	<0.2	0.55	55	130	5	0.11	<1	5	87	8	1.41	<10	0.42	178	<1	0.03	5	310	12	5	<20	18	0.07	<10	27	<10	5	30
2	NRE 17	5	<0.2	1.11	85	160	15	0.68	<1	12	95	6	2.40	20	0.81	552	<1	0.05	12	1050	10	10	<20	13	0.07	<10	55	<10	12	45
3	NRE 19	<5	<0.2	0.77	40	195	15	0.26	<1	7	117	4	1.63	10	0.53	336	<1	0.00	<u>a</u>	410	10	10	~20	20	0.17	~10	40	<10	14	
4	NRE 20	5	<0.2	0.56	30	50	10	0.32	<1	6	102	4	1.00	<10	0.00	231	-1	0.04	6	510	10	-5	~20	40	0.12	<10	40	<10	9 40	00
5	NRE 21	10	<0.2	0.75	20	65	15	0.76	-1	Å	106	5	1.2.0	10	0.55	244	-1	0.00		620	10	~5 F	~20	10	0.10	<10	20	<10	12	21
0	,	10		0.70	20	00		0.70	-1	0	100	5	(.74	10	0.57	341	~1	0.05	0	630	18	5	<20	30	0.11	<10	40	<10	11	33
6	NRE 22	5	<0.2	0 25	20	15	<5	0.06	<1	2	96	5	0.56	<10	0.07	110	2	0.02	2	60	10	7 5	~10		0.04			.40	•	~
7	NRE 23	<5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0.03	10	5	<5	0.00	-1	1	109	67	0.00	<10	0.07	74	2	<0.03	2	40	12	< <u>5</u>	~20	4	0.01	<10	5	<10	3	5
8	NRF 24	5	<0.2	1 10	15	20	-0	1.04	-1	20	64	07	2 40	~10	0.01	202	0	~0.01	4	40	<2	<5	<20	2	< 0.01	<10	ך הבי	<10	<1	2
ă	NRE 25	5	<0.2	0.48	10	140	10	1.04	~1	29	04	94	2.40	10	0.07	293	< 1	0.06	48	700	10	15	<20		0.23	<10	70	<10	25	19
40	NDE 20		-0.2	40.04	10	140	10	1.10	51	0	91	4	1.58	10	0.34	326	<1	0.04	6	440	10	<5	<20	59	0.06	<10	23	<10	8	27
10	NRE 20	55	~30	<0.01	5	15	130	0.12	<1	1	160	9	0.74	<10	<0.01	51	30	<0.01	3	<10	3784	<5	<20	4	<0.01	<10	<1	<10	<1	<1
11	NRE 27	5	<0.2	1.92	<5	50	30	1.02	<1	46	61	58	4.54	<10	1.89	408	<1	0.02	56	300	26	20	<20	0 3	0.25	<10	151	<10	10	28
12	NRE 28	<5	<0.2	0.03	10	<5	<5	<0.01	<1	<1	177	5	0.29	<10	<0.01	46	4	<0.01	2	200	20	20 ~5	~20	-1	<0.01	~10	-101	~10	- 10	20
		-				Ū	•		•			v	0.20	-10	-0.01	40	-	-0.01	5	20	U	~0	~20	~1	~0.01	<10	~1	<10	51	1
QC DA Resolu	IA:																													
nespin 1	NDE 16	4 E	-0.2	0 50	<i></i>	400	40	0.44		_	00	~				4.5.5			_											
0		15	~0.2	0.56	25	130	10	Q. 11	<1	5	96	8	1.48	<10	0.42	185	<1	0.03	6	320	14	5	<20	15	0.07	<10	28	<10	4	31
Repeat							_																							
1	NRE 16	10	<0.2	0.55	80	130	5	0.11	<1	4	90	8	1.43	<10	0.42	180	<1	0.03	5	330	14	5	<20	17	0.07	<10	27	<10	5	30
Standa	rd:																													
GEO'00)	115	1.2	1.74	70	155	15	1.58	<1	19	66	83	3.58	<10	0.90	664	<1	0.02	25	730	24	10	<20	61	0.11	<10	74	<10	11	72

Page 1

ECO-TECH LABORATORIES LTD. Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

.

2-Aug-	00		•																										
ECO-TECH LA 10041 East Tra KAMLOOPS, I V2C 6T4	A BORATORIE ans Canada H B.C.	S LTD lighway							I	ICP CE	RTIFIC	ATE O	F ANAL	YSIS .	AK 200	0-194						E F 	E D FR PO BO (AML) /2C 61	EY X 1437 DOPS, I _7	BC				
Phone: 250-57 Fax : 250-57	3-5700 3-4557																					Å	ATTEN	ITION:	ED FR	EY			
Values in ppm	n unless othe	rwise	reported	ł														·				N 5 5 5 5	No. of S Sample PROJE SHIPM Sample	samples e type: ECT #: IENT #: es subm	s receive Rock None G None G nitted by	ed: 2 iven ìiven :: E. F	rey		
_Et #. Tag #	# Au(ppb)	Ag	AI %	As	Ва	Bi	Ca %	Cd	Со	Çr	Cu	Fe %	La	Mg %	Mn	Мо	Na %	Ni	Р	Рb	Sb	Sn	Sr	Ti %	U	v	w	Y	Zn
1 NRE2	9 15	0.1	1.78	80	340	25	1.23	1	23	230	13	2.95	10	1.94	435	<1	0.05	72	2400	16	20	<20	38	0.28	<10	73	<10	21	43
2 NRE3	3 5	0.1	1.55	<5	185	30	0.92	<1	17	86	22	3.22	20	1.11	439	<1	0.05	11	1790	20	10	<20	45	0.30	<10	92	<10	24	56
QC DATA:	· · · · · · · · · · · · · · · · · · ·		.*																										
1 NRE2	9 10	0.1	1.78	75	330	20	1.29	<1	23	233	12	2.97	10	1.97	444	<1	0.06	72	2410	16	25	<20	38	0.28	<10	74	<10	21	46
Repeat: 1 NRE3	3 10	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard:	445	4.0	1.70		405	-5	4 57	4	40	00	07	0.74	.40		004	- 4			~=~						10				.
6FU 310	115	1.0	1.70	55	165	<5	3.37	1	19	60	87	3.74	<10	0.94	681	<1	0.02	- 24	750	24	15	<20	66	0.11	<10	75	<10	13	- 74

ECO-TECH LABORATORIES LTD. Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

.

df/193 XLS/00

Page 1

.



ASSAYING GEOCHEMISTRY ANALYTICAL CHEMISTRY ENVIRONMENTAL TESTING

13-Sep-00

10041 Dallas Drive, Kamloops, B.C. V2C 6T4 Phone (250) 573-5700 Fax (250) 573-4557

CERTIFICATE OF ASSAY AK 2000-252

ED FREY PO BOX 1437 KAMLOOPS, BC V2C 6L7

ATTENTION: ED FREY

No. of samples received: 5 Sample type: Rock PROJECT #: None Given SHIPMENT #: None Given Samples submitted by: E. Frey

		Ag	Ag	
ET #.	Tag #	(g/t)	(oz/t)	
1	NRE36	109.6	3.20	
2	NRE37	43.5	1.27	

QC DATA:

Standard:

Mpla

70.0 2.04

RIES LTD. O-TE

Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

XLS/00

11-Sep-00

ECO-TE 10041 E KAMLO V2C 6T4	ECH LABC Dallas Driv DOPS, B.C 4	ORATORIES e :	S LTD.							10	CP CER	TIFIC	ATE OF	ANAL	ysis a	K 2000	0-252						R R R	D FRE 0 B0) AMLC 2C 6L	e y (1437 10 PS, E 7	IC . ·				
Phone	250-573-5	5700																					A	TTEN	TION:	ED FRE	ΞY			
Fax :	250-573-4	557																					٨	in of s	amnles	receive	d 5			
			··· ·																				S	Sample	type: F	lock	u. v			
			·. ·. ·																				ļ.	ROJE	CT #: J	Vone Gi None Gi	ven iven			
Valuas	in nom u	nloss other	wieg n	anorted	t																			Sample	s subm	itted by:	E. Fr	өу		
values	ni ppin u	me33 Valei.		0,007100								_							A.1.7		D 5	Ch	80	e-	T: %	ш	v	w	Y	Zn
Et #.	Tag #	Au(ppb)	Ag	AI %	As	Ba	Bi	<u>Ca %</u>	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	MON	a %		P	PD	30			-0.01	-10		<10	<1	
1	NRE36	55	>30	0.02	<5	15	205	0.08	1	3	223	23	1.63	<10	< 0.01	57	90 <	0.01	7	<10	0000	<5 <5	<20	-1	<0.01	<10	<1	<10	<1	2
2	NRE37	35	~ >30	<0.01	<5	5	85	0.10	<1	2	203	12	0.82	<10	<0.01	95	34 <	0.01	(<10	2108	<5	<20	22	<0.01	~10	3	<10	18	18
3	NRE38	85	0.6	0.62	80	95	<5	0.51	<1	6	80	6	1.10	10	0.31	239	2 <	0.01	8	300	58	<5	<20	23	<0.01	~10	3	<10	8	23
4	NRE39	40	0.4	0.49	35	135	5	0.80	<1	5	102	4	1.32	10	0.27	321	3	0.01	7	360	36	<5	<20	40	<0.01	<10	-1	<10	-1	52
5	NRE40	20	1.6	0.02	<5	40	<5	0.02	1	1	241	17	0.40	<10	<0.01	92	17 <	0.01	8	10	112	<5	<20	2	<0.01	<10	~1	~10	-1	72
		- 1	<u></u>																											
	TA:	- • ann																												
		1 ₁₁																												
Resplit	t:								_	-	_	_	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	NRE36	60	-	-	-	-	-	-	-	-	-	-																		
Repeat	t:									-	~~~		4.00	-40	-0.04	54	01	0.01	7	~10	5614	c 5	<20	2	<0.01	<10	<1	<10	<1	3
1	NRE36	·	>30	0.01	5	10	200	0.07	<1	3	228	20	1.03	. <10	-0.01	04	91 5	-U.VI	ſ	-10	5014	-0	-20	2	-0,01		•		-	
Standa	ard:									45		00	2.40	~10	0.04	662	~1	0.02	25	600	26	10	<20	60	0.11	<10	75	<10	9	70
GEO'0	D	110	1.0	1.76	50	155	10	1,56	<1	19	28	80	3.49	< 10	0.91	003		0.02	20	030	20		-20						-	

ECO-TECH LABORATORIES LTD. Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

- 7

1

.

11

df/254 XLS/00



GEOCHEMISTRY ANALYTICAL CHEMISTRY ENVIRONMENTAL TESTING

10041 Dallas Drive, Kamloops, B.C. V2C 614 Phone (250) 573-5700 Fax (250) 573-4557 email: ecotech@direct.ca

CERTIFICATE OF ASSAY AK 2000-385

ED FREY		20	
PO BOX 1437			4-Dec-00
KAMLOOPS, BC			
V2C 6L7			
		 ······································	

ATTENTION: ED FREY

No. of samples received: 23 Sample type: Rock PROJECT #: None Given SHIPMENT #: None Given Samples submitted by: E. Frey

		Ag Ag	
ET #.	Tag #	<u>(g/t)</u> (oz/t)	
6	NRE47	92.5 2.70	

ORIES LTD. ECO-1 ABORA p

Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

XLS/00

ECO-TECH LABORATORIES LTD. 10041 Dallas Drive KAMLOOPS, B.C. V2C 6T4

Phone: 250-573-5700 Fax : 250-573-4557

Values in ppm unless otherwise reported

Ba Et #. Tag # Au(ppb) Ag Al% As Bi Ca % Cd Co Cr Cu Fe % La Mg % Mn Mo Na % Ni Ρ Pb Sb Sr TW V W Y Sn U Zn 35 14.2 1 NRE41 30 30 0.04 148 0.52 14 0.03 <5 <1 1 8 <10 <0.01 72 689 < 0.01 4 20 998 <5 <20 1 <0.01 <10 9 <10 <1 2 NRE42 20 7.6 <5 60 170 <1 0.89 0.30 0.08 2 144 <1 <10 0.07 173 13 0.03 6 220 460 <5 <20 19 < 0.01 <10 8 <10 2 16 9.4 25 3 NRE43 10 0.07 <5 10 0.04 <1 1 177 <1 0.77 <10 0.02 61 56 0.01 6 50 484 <5 <20 4 < 0.01 <10 2 <10 <1 6 2 <10 <0.01 4 NRE45 15 5.6 0.01 <5 <5 10 < 0.01 <1 214 <1 0.33 75 7 < 0.01 5 <10 286 <5 <20 <1 <0.01 <10 <1 <10 <1 182 -5 NRE46 5 <0.2 0.25 <5 230 <5 1.22 <1 3 104 <1 1.38 10 0.27 372 0.03 7 380 16 <5 <20 54 < 0.01 <10 6 24 4 <10 4 6 NRE47 >30 < 0.01 <5 190 0.03 2 30 <5 <1 176 <1 0.34 <10 <0.01 76 30 < 0.01 <10 6558 <5 <20 <1 < 0.01 26 4 <10 <1 <10 <1 7 NRE48 10 <0.2 0.15 <5 <5 <5 0.05 <1 1 92 <1 0.46 <10 0.05 110 3 2 30 32 <5 0.03 <20 2 0.02 7 <10 <10 13 4 <0.2 8 NRE49a 10 0.23 <5 175 <5 0.49 <1 3 128 <1 <10 0.12 255 0.03 7 22 <5 1.11 3 280 <20 34 < 0.01 <10 6 <10 4 19 9 NRE49b ∶<0.2 0.15 20 0.69 10 <5 <5 0.03 <1 1 189 <1 <10 0.04 149 5 0.02 6 60 10 <5 <20 10 <1 <0.01 <10 4 <10 1 10 NRE50 30 <0.2 0.02 <5 <5 <5 < 0.01 <1 <1 194 27 0.31 <10 < 0.01 58 7 24 9 < 0.01 10 <5 <20 <1 <0.01 <10 <1 <10 <1 -5 NRE51 11 15 <0.2 0.05 <5 <5 <5 0.01 <1 <1 251 5 0.45 <10 <0.01 68 6 < 0.01 7 30 40 <5 <20 <1 <0.01 <10 <10 <1 10 <1 12 NRE52 10 < 0.2 < 0.01 <5 <5 <5 < 0.01 <1 <1 198 <1 0.24 <10 < 0.01 41 5 < 0.01 5 <10 <2 <5 <20 <1 <0.01 <10 <1 <10 <1 4 13 NRE53 20 < 0.2 0.40 <5 55 <5 0.14 <1 120 <1 1.11 <10 0.23 206 2 0.04 5 280 12 <5 20 8 17 4 <20 10 0.05 <10 <10 14 NRE54 5 0.4 < 0.01 <5 <5 <5 <0.01 <1 <1 230 <1 0.29 <10 < 0.01 76 13 < 0.01 6 <10 30 <5 <20 <1 < 0.01 <10 <1 <10 <1 4 15 NRE55 <0.2 0.40 <5 30 0.21 <1 121 <1 1.06 <10 0.20 219 5 260 8 16 5 <5 4 <1 0.05 <5 <20 15 0.05 <10 17 <10 9 16 NRE56 <0.2 0.22 0.08 2 0.60 <10 0.09 2 70 5 <5 15 <5 <1 111 <1 143 0.04 8 <5 <20 7 11 1 4 0.03 <10 <10 5 17 NRE57 0.39 6 5 < 0.2 <5 30 0.21 <1 4 94 <1 1.03 <10 0.23 224 <1 0.04 230 10 <20 16 <5 <5 14 0.06 <10 18 <10 8 18 NRE58 <5 <0.2 0.26 <5 15 <5 0.09 <1 2 101 <1 0.75 <10 0.12 172 <1 0.04 3 130 6 <5 <20 2 0.04 <10 10 <10 8 10 19 NRE59 10 < 0.2 0.59 <5 40 <5 0.31 <1 6 101 <1 1.41 10 0.40 245 <1 0.04 9 440 2 <5 <20 29 0.09 29 12 19 <10 <10 20 NRE60 5 < 0.2 0.31 <5 25 0.15 <1 3 122 <1 0.85 <10 0.16 155 <1 0.04 7 180 8 <5 <20 16 9 11 <5 12 0.05 <10 <10 <0.2 0.26 50 21 NRE61 15 15 75 <5 0.04 <1 <1 71 1 0.45 0.01 48 2 0.03 4 150 48 <5 <20 2 < 0.01 <10 <1 <10 10 21 22 NRE62 10 <0.2 < 0.01 <5 <5 <0.01 <1 287 <1 0.59 <10 < 0.01 56 6 <0.01 10 <10 2 <5 <20 <5 1 <1 <0.01 <10 1 <10 <1 7 86 NRE63 < 0.2 0.30 70 25 35 4.37 23 10 125 5 2.11 <1 <10 1.56 535 3 0.04 40 540 4 10 <20 53 < 0.01 <10 23 <10 <1 26

ICP CERTIFICATE OF ANALYSIS AK 2000-385

ED FREY PO BOX 1437 KAMLOOPS, BC V2C 6L7

.

.

ATTENTION: ED FREY

No. of samples received: 23 Sample type: Rock PROJECT #: None Given SHIPMENT #: None Given Samples submitted by: E. Frey .

14

10

ED FREY

•،

.

5

.

ICP CERTIFICATE OF ANALYSIS AK 2000-385



ECOTECH LABORATORIES LTD. Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

df/370b XLS/00 **BEDROCK:** (NRE#) all are *in situ* grab samples unless noted float or chip (section). Float samples are noted on figures by their underlined sample number, e.g. NRE<u>36</u>

STREAM SEDIMENTS: (NST#) all are hand excavated and field washed to -20 mesh through a stainless steel screen; 1.3-1.9 kg per dry sample. Heavy mineral samples (NSTH##) are 10 to 13 kg each; analyses pending.

NOTES: sample numbers not analyzed or not used: NRE13, 15, 18, 30, 31, 32, 34, 35; REF = reference sample NRE44 (mis-labeled as NRE49a by laboratory)

total bedrock samples analyzed: 55; X - small outcrop

total stream sediment samples analyzed: 15

GD - granodiorite; QM - quartz monzonite GRAN - granite

Q - quartz; stream float samples, probably vein quartz

QV - quartz vein; with remnant wallrock

QF - quartz-feldspar

Biot. - biotite

×

Bm - massive basalt; very fine grained, grey-dark grey

Ch - Chert; aphanitic, pale grey

sil - silicified; gos - gossan; diss. - disseminated

vfg, fg, mg, cg, peg - grain sizes: very fine (<1mm), fine, medium, coarse(>3mm), pegmatitic;

bid - boulder; cob - cobble

SS - stream sediment (sample); HM - heavy mineral (sample)

REFERENCE NUMBER 2000 / 2001 E.D. FREY

BEDROCK:

SAMPLE DESCRIPTIONS

NEWHYKULSTON CREEK AREA - FIG. 2

- NRE1 (float) GD-biotite granite boulder; fg, dull white-grey, pale pink feldspar to 1cm; rare tourmaline to 5mm
- NRE2 (float) QM boulder, fg-mg, black and white; ~40% mafic (biotite); pegmatitic feldspar to 3cm; >20% Q, fg-mg
- NRE3 (float) GD boulder, 0.5m; 7cm QV, white, mg-cg, limonite seams
- NRE6 (float) Bm boulder, angluar; trace sulphides
- NRE7 GD, porphyritic, vfg-fg, grey; cg biotite, 3-10 mm; massive, blocky fractures: 265°/80°-90° NW
- NRE8 (float) GD boulder, frost split, angular, on o/c crest; cg, biotitic; 5mm QV; vigaphanitic Q seams
- NRE9 GD; sheeted QV-seams 260°/70° NW cut 1cm QV 095°, recessed with gossan
- NRE10 (float) granite-peg boulder, rounded 80x50cm
- NRE11 Bm; fractured (205°/80° SW) chert, varigated, to 3 m wide
- NRE15 (float) granite-GD, equigranular, weakly foliated; sub-rounded boulder, 1x1.5 m
- NRE16 (float) granite-peg boulder; QV; six peg veinlets, 2-3 cm wide
- NRE17 QM-cg biotite granite +/- cg microcline to 1x5 cm;
- NRE18 QM; 5-15 cm spaced fractures/seams, 310°/65° NE
- NRE19 Q, white to clear, 30% pegmatitic
- NRE20 biotite granite, grey, mg; aplite seams
- NRE21 biotite granite, grey, mg; white, cg Q
- NRE22 granite, mg; QV
- NRE23 (float) Q, vfg, limonite seams and fractures
- NRE24 Bm, sil, vfg; 1-2% pyrite; intensely fractured
- NRE30 biotite granite
- NRE31 diorite biotite diorite porphyry, fg; small Bm zenoliths; dike?

NRE32 biotite diorite, fg; weakly magnetic; dike?

NRE33 Bm, fg;

NRE34 GD, cg

NRE35 (float) GD, cg; recessed biotite

NEWHYKULSTON CREEK FIGS. 2 and 2a

STREAM SEDIMENTS: NST9a to NST20a; NST21 and NSTH21

BEDROCK:

- NRE12 (float) GD boulder; QF-peg veins to 5 cm wide, <10cm spacing
- NRE14 (float) Q, large white cobble; limonite, epidote seams
- NRE61 (float) Q, dull grey, subrounded, 8x10x15 cm
- NRE62 (float) Q, cg, dull white, sub-angular, 4x5x6 cm
- NRE63 (float) Bm, sil, grey, gossan; 10x15 cm; diss. vfg py

NEWHYKULSTON CREEK - NORTH BRANCH AREA FIG. 2

BEDROCK:

- NRE4 (float) GD boulder, 1.5 m, angular; trace sulphides
- NRE5 (float) GD boulder, thin QV
- NRE25 (float) GD, angular boulder; cg +/- aplite seams; to 5% py, cpy, trace bornite; re-sampling of NRE4 boulder

NORTH BRANCH - NEWHYKULSTON CREEK FIGS. 2 and 2b

STREAM SEDIMENTS: NST22 and NST23; NSTH22 and NSTH23

BEDROCK:

- NRE26 (float) Q, white, sub-angular boulder; trace py, galena
- NRE36 (float) Q, white, sub-angular small boulder; <5% py, galena
- NRE37 (float) same as NRE36
- NRE38 (chip) fault gouge; 3-5 cm wide, 060°/90°, base of 3 m high GD fracture wall, north side of creek
- NRE39 (chip) fault gouge and GD wallrock; 15cm wide composite
- NRE40 QV, 20-35 cm wide, 045°-050°/90°

NRE41 (float) Q, angular slab, 2-3 cm wide; 2% py, cpy

NRE42 GD; weak gossan; several 1-2 cm wide QVs

NRE43 (float) Q-GD; 1% py in both parts; white Q

NRE49a (= field #44) (float) GD, 4 QVs to 70 cm long; large sub-angular slab, 50x30x50 cm; 1-2% mg-cg py, cpy

NRE45 (float) Q; angular, 2x3x4 cm

NRE46 (float) GD, angular, cg, <1% sulphides; 1cm wide QV

NRE47 (float) Q, 5 cm wide, zoned; 1-3% py, galena

NRE48 (float) Q, grey 2 cm wide, angular

NRE49b (= field #49) (float) GD, sub-angular, angular; QV, 2 cm wide, zoned

NRE50 (float) Q, white, angular, 3 cm wide, zoned, "heavy"

- NRE51 (float) Q, slab to 2 cm wide, sub-angular, sub-rounded, zoned, "heavy"
- NRE52 (float) Q, white, sub-rounded, sub-angular; 3x4x5 cm
- NRE53 (float) GD; QV to 2 cm wide, grey, zoned
- NRE54 (float) Q, white, 2-3 cm wide, sub-angular, "heavy"
- NRE55 (float) GD; QV, grey, 2 cm wide; sub-angular cobble
- NRE56 (float) GD; QV, mottled grey, 2 cm wide; angular slab, subcrop?
- NRE57 (float) GD; QF vein, dull grey, 2-3 cm wide; sub-angular, blocky
- NRE58 (float) GD; QV, grey, 5 cm wide, 1% fg py; large block, subcrop?
- NRE59 (float) GD; two QF (pegmatite?) veins, 2-3 cm wide; angular slab
- NRE60 (float) GD, mg; grey QV and light grey aplite to 5 cm wide; 40x60x80 cm slab; a rare plutontic float among >95% Bm float



CHIL CHILA CREEK

800 900 1000 Pieds

500

600

700

ministère de l'Énergie, des Mines et des Ressources, Ottawa, ou chez le vendeur le plus près,



REFERENCE NUMBER: 2000/2001 P93

GEOLOGY: E.D. FREY D. DUBA 2000

SAMPLING DETAIL

FIGURE 26

NORTH BRANCH NEWHYKULSTON CREEK SAMPLING DETAIL

BCGS ANOMALOUS MOSS MAT DATA

2000 PROSPECTING - ANOMALOUS BEDROCK DATA

UNLABELED MAP DATA = ppb Au OTHER ELEMENTS = ppm In the north branch of Newhykulston Creek angular clasts of "heavy," white to grey, medium to coarse grained, vein quartz are thinly dispersed for about 800 m in the stream bed. They range from 8 to 30 cm length and 4 to 15 cm in apparent vein width. Most are unmineralized, the rest contain 1to 3% fine grained pyrite+/-chalcopyrite and galena. The most signifcant results are:

			(p	pm)	
	ppb Au	g/t Ag	Pb	Cu	Zn	Mo	
NRE26		73.0	3784	9	<1	30	
NRE36	35	109.6	5650	23	4	90	
NRE37	85	43.5	2108	12	2	34	
NRE41	35	14.2*	948	8	14	689	*note 14.2 ppm Ag
NRE47	30	92.5	6558	<1	26	30	



REFERENCE NUMBER: 2000/2001 P93

GEOLOGY: E.D. FREY 2000

58 NORTH BRANCH NEWYKULSTON CREEK

00-44 1)



FIGURE 2 GEOLOGY & SAMPLING BCGS - ANOMALOUS STREAM SEDIMENT OR MOSS MAT DATA 2000 PROSPECTING - ANOMALOUS STREAM SEDIMENT DATA 2000 PROSPECTING - ANOMALOUS BEDROCK DATA UNLABELED MAP DATA = ppb Au OTHER ELEMENTS = PPM ROCK SAMPLE DESCRIPTIONS ATTACHED COMPLETE ANALYSES ON ICP& ASSAY CERTIFICATES SAMPLING DETAILS OF NEWHYKULSTON CREEK & ITS NORTH BRANCH ON FIGS. 20 & 26 300 200 100 Luit METRES REFERENCE NUMBER: 2000 / 2001 P93 2. D. Sug GEOLOGY: E.D. FREY | D. DUBA 2000 00.44.2