WEST MTN. QUAD REPORT CHEMICAL

WEST MTN QUAD

Kizil Prospect- (extra sheets)

Smead®

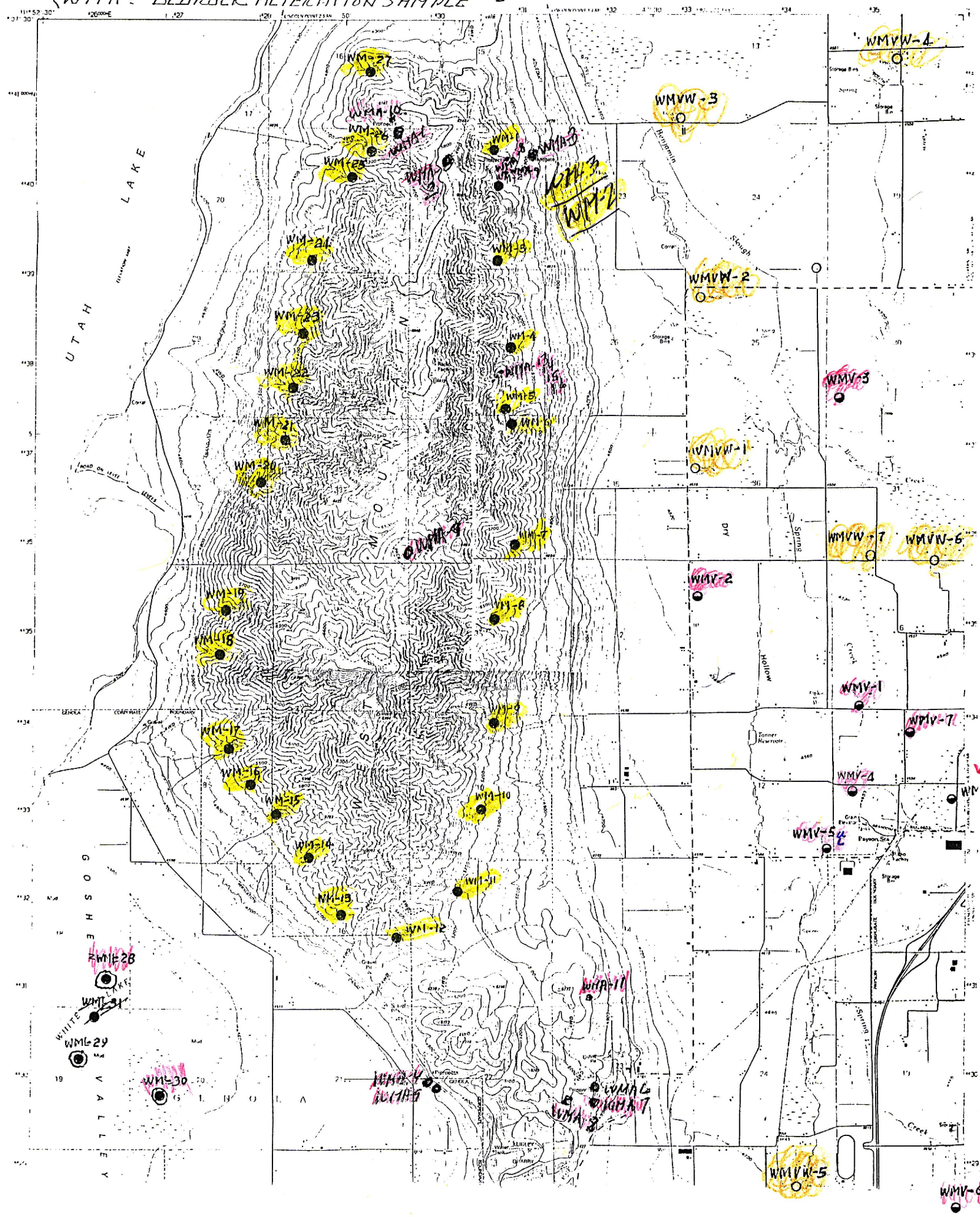
No. 202L

HASTINGS, MN - LOS ANGELES
LOGAN OH - McGREGOR, TX U. S. A.

WM = DRY STREAM Sediment SAMPLE
WMV = SOIL Sediment SAMPLE - E. UTAH VALLEY
WMVW = STREAM or WATERWELL SAMPLE
WMA = BEDROCK ALTERATION SAMPLE

COLLECTED SAMPLES FOR GEOCHEMICAL ANALYSES

WEST MOUNTAIN QUADRANGLE
Utah County, Utah



ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

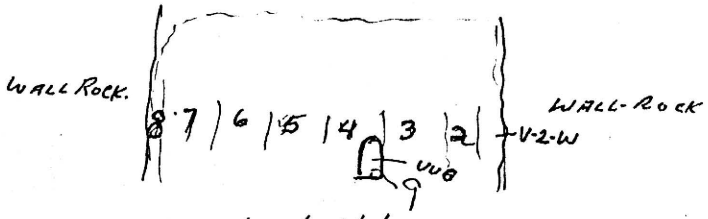
Paul Proctor File # 95-2557
2949 Apache Way, Provo UT U.S.A. 80604

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	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 %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppm
V-2-W	<1	14	7	2	.4	<1	<1	179	.01	4	<5	≤2	<2	149	<.2	<2	<2	11	39.28	.002	4	1	.13	1	<.01	<3	.02	<.01	.01	<2	<5	<1
V-2-2	<1	7	3	2	<.3	2	2	130	.02	5	<5	≤2	<2	154	<.2	2	<2	<1	39.45	.002	<1	2	.16	3	<.01	4	.02	<.01	<.01	15	<5	<1
V-2-3	<1	7	<3	1	<.3	<1	1	155	.01	5	<5	≤2	<2	194	<.2	<2	<2	1	39.27	.003	<1	1	.19	1	<.01	<3	.02	<.01	<.01	3	<5	<1
V-2-4	<1	6	<3	1	<.3	1	1	95	.03	11	<5	<2	<2	191	<.2	2	<2	1	40.66	.003	<1	1	.15	2	<.01	3	.02	<.01	.01	4	<5	<1
V-2-5	<1	3	<3	1	<.3	<1	1	140	.01	4	<5	<2	<2	164	<.2	2	<2	<1	39.79	.003	<1	<1	.18	1	<.01	3	.02	<.01	<.01	2	<5	<1
RE V-2-5	<1	6	4	<1	<.3	<1	1	141	.01	2	<5	<2	<2	165	<.2	<2	<2	<1	39.77	.003	<1	<1	.18	1	<.01	3	.02	<.01	<.01	3	<5	<1
V-2-6	<1	4	<3	2	<.3	1	1	62	.02	5	<5	<2	<2	126	<.2	<2	<2	1	40.38	.001	<1	<1	.08	3	<.01	<3	.01	<.01	<.01	3	<5	<1
V-2-7	<1	3	6	2	<.3	1	1	86	.02	6	<5	<2	<2	228	<.2	<2	<2	1	40.45	.002	1	1	.18	3	<.01	4	.02	<.01	<.01	2	<5	<1
STANDARD C	19	58	39	128	6.5	71	30	1028	3.92	41	22	7	34	47	16.6	16	18	62	.46	.085	38	51	.84	170	.08	27	1.72	.05	.14	10	<5	2

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.
- SAMPLE TYPE: PULP Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 27 1995 **DATE REPORT MAILED:** Aug 2/95 **SIGNED BY** C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Vein 2. Cedarstrom $CaCO_3$ Veins, Lake Mtns. Utah.
See Sketch of Sampled Vein.



Check Notes

Vein X-Sec.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Paul Proctor File # 95-3567

2949 Apache Way, Provo UT U.S.A. 80604

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	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 %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppm
UL1415 2279	1	26	27	97	<.3	19	5	312	1.11	19	<5	<2	5	745	.9	2	2	15	22.62	.059	10	14	1.05	172	.02	15	1.08	.07	.30	<2	<1	<1
UL1425 2280	<1	24	28	84	<.3	17	5	298	1.01	16	<5	<2	4	781	.9	<2	<2	14	24.14	.055	9	13	1.01	170	.01	7	.97	.06	.28	<2	<1	<1
UL1435 2281	<1	26	27	78	.3	16	5	291	.96	15	<5	<2	4	788	.6	3	<2	13	24.12	.053	9	12	.98	174	.02	10	.98	.06	.28	<2	<1	<1
UL1445 2282	<1	24	26	77	<.3	17	3	295	.96	13	<5	<2	4	799	.9	2	<2	13	24.86	.055	9	12	.99	176	.01	8	.94	.06	.27	<2	<1	<1
RE UL1445 2282	<1	22	24	76	<.3	20	5	291	.95	13	<5	<2	4	797	.6	2	<2	13	24.84	.054	9	12	.99	170	.01	11	.94	.06	.27	<2	<1	<1
UL1455 2283	<1	25	24	72	<.3	17	3	288	.91	12	<5	<2	4	791	.6	3	<2	13	24.73	.054	9	11	.97	166	.01	11	.89	.05	.26	<2	<1	<1
UL1465 2284	<1	21	25	67	<.3	17	4	282	.91	16	<5	<2	4	789	.5	2	<2	12	24.58	.051	9	12	.96	172	.01	9	.89	.05	.26	<2	<1	<1
UL1475 2285	<1	21	23	68	<.3	17	5	286	.92	10	<5	<2	4	807	.6	<2	<2	12	25.82	.051	9	11	.98	176	.01	11	.88	.06	.26	<2	<1	<1
UL1485 2286	1	20	22	68	.3	20	4	298	.95	17	<5	<2	4	836	1.0	2	3	13	26.35	.053	9	13	.99	181	.02	12	.93	.05	.26	<2	1	<1
UL1495 2287	1	19	21	66	<.3	20	4	294	.95	17	<5	<2	4	833	.7	3	<2	13	27.43	.051	9	12	.99	177	.01	10	.92	.06	.26	<2	<1	<1
UL1505 2288	<1	20	18	62	<.3	15	5	290	.94	14	<5	<2	4	832	.2	2	<2	12	26.72	.050	8	12	.97	174	.01	9	.91	.06	.26	<2	<1	<1
UL1515 2289	1	17	17	56	<.3	18	4	300	.98	10	<5	<2	4	856	.3	<2	<2	13	29.10	.053	9	14	1.01	189	.02	9	.97	.06	.28	<2	<1	<1
UL1525 2290	1	22	25	70	<.3	21	5	301	.98	15	<5	<2	4	886	.6	2	<2	13	28.85	.054	9	13	1.05	188	.02	13	.97	.06	.28	<2	1	<1
UL1535 2291	<1	23	16	60	.3	16	4	230	.93	11	<5	<2	5	641	.4	2	<2	13	19.19	.051	9	12	.93	141	.02	10	.87	.05	.26	<2	<1	<1
UL1545 2292	<1	24	24	67	<.3	17	5	281	.94	14	<5	<2	3	792	.4	<2	<2	12	24.97	.049	9	12	.95	170	.01	10	.93	.06	.27	<2	<1	<1
STANDARD C	20	61	39	125	6.4	64	33	1014	3.89	41	18	8	38	53	18.4	17	23	62	.50	.090	41	59	.88	180	.09	27	1.81	.06	.15	12	<1	2

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THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
- SAMPLE TYPE: PULP Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 15 1995 **DATE REPORT MAILED:** Sept 22/95 **SIGNED BY** C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Paul Proctor File # 95-2557
2949 Apache Way, Provo UT U.S.A. 80604

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	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 %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppm
V-2-W	<1	14	7	2	.4	<1	<1	179	.01	4	<5	≤2	<2	149	<.2	<2	<2	11	39.28	.002	4	1	.13	1	<.01	<3	.02	<.01	.01	<2	<5	<1
V-2-2	<1	7	3	2	<.3	2	2	130	.02	5	<5	≤2	<2	154	<.2	2	<2	<1	39.45	.002	<1	2	.16	3	<.01	4	.02	<.01	<.01	15	<5	<1
V-2-3	<1	7	<3	1	<.3	<1	1	155	.01	5	<5	≤2	<2	194	<.2	<2	<2	1	39.27	.003	<1	1	.19	1	<.01	<3	.02	<.01	<.01	3	<5	<1
V-2-4	<1	6	<3	1	<.3	1	1	95	.03	11	<5	<2	<2	191	<.2	2	<2	1	40.66	.003	<1	1	.15	2	<.01	3	.02	<.01	.01	4	<5	<1
V-2-5	<1	3	<3	1	<.3	<1	1	140	.01	4	<5	<2	<2	164	<.2	2	<2	<1	39.79	.003	<1	<1	.18	1	<.01	3	.02	<.01	<.01	2	<5	<1
RE V-2-5	<1	6	4	<1	<.3	<1	1	141	.01	2	<5	<2	<2	165	<.2	<2	<2	<1	39.77	.003	<1	<1	.18	1	<.01	3	.02	<.01	<.01	3	<5	<1
V-2-6	<1	4	<3	2	<.3	1	1	62	.02	5	<5	<2	<2	126	<.2	<2	<2	1	40.38	.001	<1	<1	.08	3	<.01	<3	.01	<.01	<.01	3	<5	<1
V-2-7	<1	3	6	2	<.3	1	1	86	.02	6	<5	<2	<2	228	<.2	<2	<2	1	40.45	.002	1	1	.18	3	<.01	4	.02	<.01	<.01	2	<5	<1
STANDARD C	19	58	39	128	6.5	71	30	1028	3.92	41	22	7	34	47	16.6	16	18	62	.46	.085	38	51	.84	170	.08	27	1.72	.05	.14	10	<5	2

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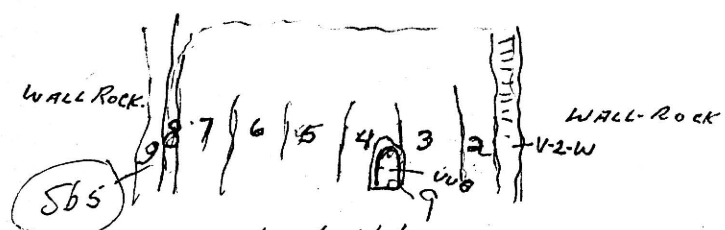
Vein 2. Cedarstrom $CaCO_3$ Veins, Lake Mtns. Utah.
See Sketch of Sampled Vein.



Check Notes

Vein X-Sec.
CEDARSTOM - W. of Vein 1

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Paul Proctor File # 95-2790

2949 Apache Way, Provo UT U.S.A. 80604

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	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 %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppm	
V-I-SL	<1	2	<3	1	.3	3	1	142	.04	2	6	<2	<2	357	<.2	<2	<2	2	40.72	.004	2	6	.14	1	<.01	4	.01	.01	<.01	<2	<5	<1	7' WIDE E VEIN, LARSEN QUARRY
Cedarstrom V-I	<1	2	<3	5	<.3	6	2	50	.06	4	<5	<2	<2	213	<.2	<2	<2	1	40.31	.002	<1	5	.10	9	<.01	<3	.01	.01	<.01	4	<5	<1	DUMP-150' DEPTH
V-2-8	<1	9	<3	4	.3	8	3	24	.14	34	6	<2	<2	160	<.2	<2	<2	2	40.06	.003	1	9	.10	5	<.01	<3	.01	<.01	<.01	4	<5	<1	E EDGE Vein-6'Th.
V-2-9	1	3	<3	8	<.3	7	2	64	.44	43	<5	<2	<2	125	<.2	5	<2	3	37.26	.006	<1	1	.11	5	<.01	<3	.08	.01	.02	<2	<5	<1	- VUGGREE FILL-E of Vein
Vein 4	<1	4	<3	870	<.3	334	4	<2	.04	<2	5	<2	<2	451	.4	<2	<2	<1	38.49	.003	<1	<1	.43	13	<.01	<3	.04	.02	.01	6	<5	<1	ARAGONITE FILLING
V-5-G	1	3	<3	71	<.3	20	<1	<2	.04	3	<5	<2	<2	566	.3	<2	2	<1	36.27	.001	<1	2	.29	18	<.01	3	<.01	.01	<.01	<2	<5	<1	Vein 5
RE V-5-G	1	3	<3	76	<.3	24	1	<2	.03	<2	<5	<2	<2	604	.3	<2	<2	<1	38.51	.001	<1	5	.30	19	<.01	4	<.01	.01	<.01	<2	<5	<1	Repeat
V-6-I	<1	4	<3	8	<.3	4	1	<2	.07	2	7	<2	<2	2401	<.2	<2	<2	2	38.62	.002	1	<1	.13	3	<.01	<3	<.01	<.01	<.01	<2	<5	<1	vein 6
M-Mcblsh	<1	24	16	81	<.3	57	16	567	4.21	4	<5	<2	4	44	.2	<2	<2	24	.92	.063	9	36	.73	13	<.01	<3	2.27	.02	.08	<2	<5	<1	Manning Canyon Black Shale
7' Lake Seds	3	18	14	71	.3	29	9	332	2.05	11	<5	<2	4	189	.7	<2	<2	29	5.78	.067	13	20	.78	113	.02	17	1.29	.30	.40	<2	<5		2L @ 51.75-16'+ Thick
GB-Bx-I	<1	7	4	35	<.3	11	21	62	.20	22	<5	<2	<2	143	.2	<2	<2	16	3.10	.032	2	8	.04	35	<.01	4	.08	<.01	.02	239	<5	<1	Jasperoid, in Great Blue
Mh-Bx-Mos	1	10	6	5	<.3	2	17	133	.04	3	<5	<2	<2	25	.2	<2	<2	1	7.96	.008	1	4	.03	340	<.01	<3	.03	<.01	.01	154	<5	<1	Jasperoid bx, Hamburg Fortn.
LPNW-Sec 31	<1	2	<3	2	<.3	2	3	76	.10	9	<5	<2	<2	257	<.2	3	<2	3	38.31	.004	2	2	.09	143	<.01	<3	.03	.01	.01	10	<5	<1	Vein 3, Top of Hill-DUMP
Tls-Mos	<1	3	5	2	<.3	3	2	272	.06	10	7	<2	<2	57	<.2	<2	<2	4	39.96	.002	<1	2	.05	97	<.01	3	.01	.01	<.01	<2	<5	<1	Tertiary pure limestone
L-FM-34ss	3	62	31	40	<.3	18	11	333	4.77	14	<5	<2	10	95	<.2	<2	<2	137	10.40	.049	10	43	2.16	57	.05	6	.50	.01	.16	<2	<5	<1	- FRISCO AREA SS
L-FS-35ss	3	265	45	83	.4	20	13	492	4.86	17	<5	<2	10	88	<.2	<2	<2	133	5.85	.079	16	40	1.35	101	.12	11	1.14	.02	.41	<2	<5	<1	- FRISCO REGIONAL SS
STANDARD C	18	58	41	137	6.9	69	32	1072	3.76	41	15	5	37	54	17.8	17	16	66	.49	.091	40	63	.91	193	.09	29	1.84	.06	.16	11	<5	1	

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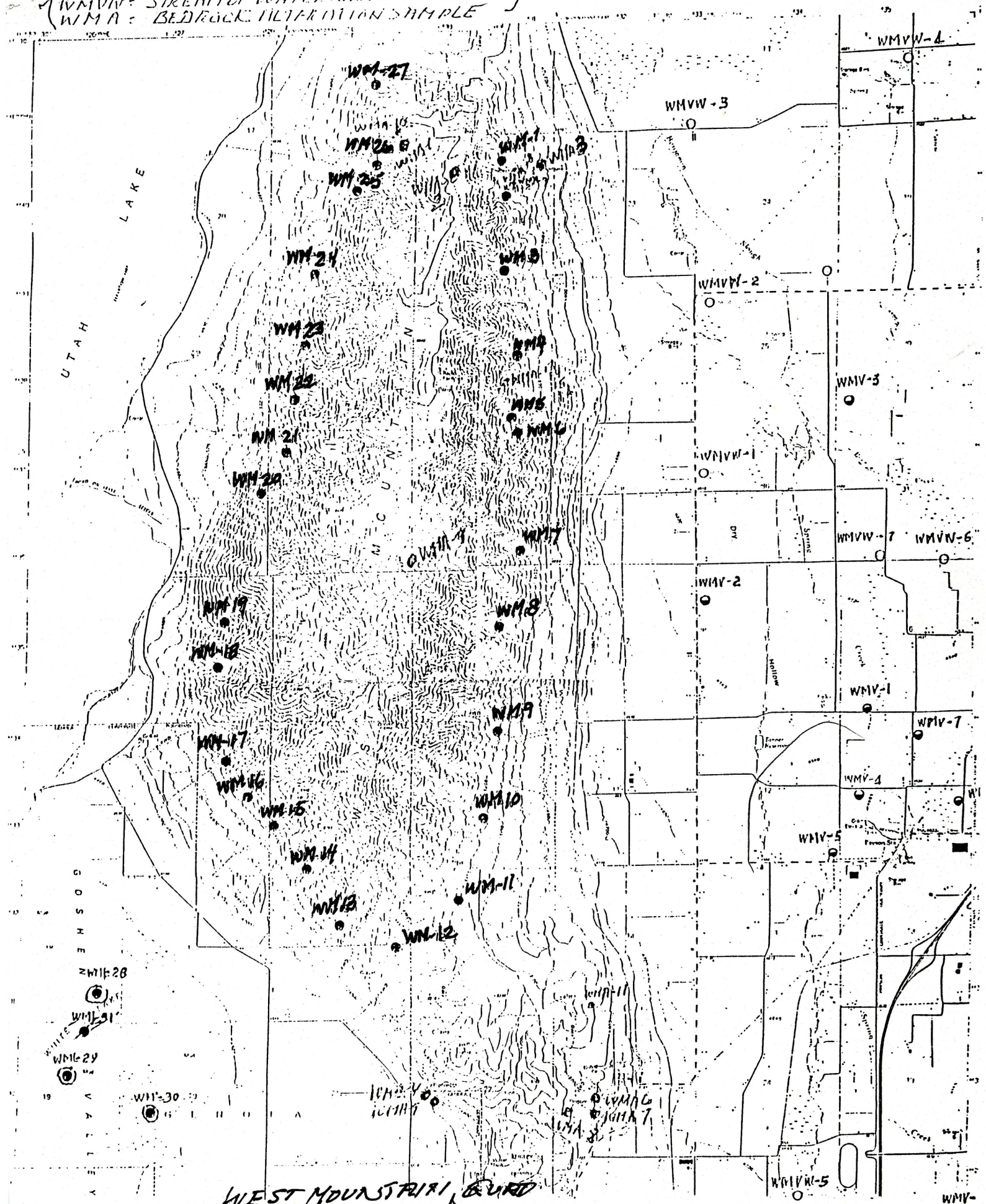
DATE RECEIVED: AUG 9 1995 **DATE REPORT MAILED:** Aug 18/95 **SIGNED BY** ..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

UGS File - Home

WM = Dry stream sediment sample
WMV = Soil-sediment sample (heavy)
WMVW = Stream or water well sample
WMA = Bedrock alteration sample

FOR GEOCHEMICAL ANALYSES

WEST MOUNTAIN QUADRANGLE
Utah County, Utah



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GEOCHEMICAL ANALYSIS CERTIFICATE

Utah Geological Survey File # 97-0878 Page 1

State of Utah Natural Res, Salt Lake City UT U.S.A. 84114-6100 Submitted by: PAUL PROCTOR

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	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 %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
WM-1	1	26	24	61	<.3	18	11	540	1.83	11	<5	<2	4	35	.6	<2	<2	30	.62	.080	22	22	.56	157	.05	9	1.72	.02	.48	9
WM-2	<1	21	17	48	<.3	15	7	408	1.43	9	<5	<2	2	66	.4	<2	<2	23	4.06	.071	16	18	.79	136	.04	10	1.31	.02	.38	4
WM-3	1	30	67	69	<.3	14	5	429	1.46	5	<5	<2	3	48	1.4	<2	<2	23	2.07	.072	17	16	.64	131	.04	9	1.27	.02	.36	<2
WM-4	1	26	52	68	<.3	15	6	463	1.38	8	<5	<2	2	39	1.0	2	<2	21	1.11	.097	16	16	.55	119	.03	14	1.13	.01	.32	<2
WM-5	<1	10	9	34	<.3	14	4	247	1.04	5	<5	<2	2	36	.4	<2	<2	19	3.07	.043	12	13	.40	82	.02	5	.77	.01	.19	<2
WM-6	1	11	13	39	<.3	13	4	283	1.11	6	<5	<2	3	40	.3	<2	<2	19	1.95	.047	13	13	.41	92	.02	6	.81	.01	.19	<2
WM-7	1	21	30	80	<.3	20	6	362	1.31	9	<5	<2	2	31	.7	<2	<2	20	1.78	.065	14	16	.52	116	.02	8	.91	.01	.25	<2
WM-8	1	30	43	85	<.3	18	13	496	1.60	11	<5	<2	2	32	1.3	<2	2	25	1.21	.078	17	19	.64	129	.03	10	1.29	.02	.36	46
WM-9	1	21	43	66	<.3	16	5	361	1.37	7	5	<2	3	37	1.0	<2	<2	24	1.89	.063	14	15	.50	101	.03	8	1.08	.01	.31	<2
WM-10	1	19	17	81	<.3	20	10	457	1.55	8	<5	<2	2	33	.4	<2	<2	25	1.98	.065	16	17	.65	123	.03	8	1.18	.01	.31	8
WM-11	1	20	17	66	<.3	17	8	398	1.28	17	<5	<2	2	119	.8	2	<2	24	11.01	.082	16	15	1.14	144	.03	9	1.11	.02	.33	15
WM-12	1	16	25	60	<.3	13	8	385	1.05	18	<5	<2	2	92	.7	<2	<2	19	15.49	.048	10	10	3.91	110	.02	8	.75	.02	.22	16
WM-13	1	28	41	96	<.3	18	9	346	1.23	9	<5	<2	2	132	1.1	2	<2	20	6.73	.072	13	14	1.00	124	.03	11	.95	.02	.32	26
WM-14	1	15	12	67	<.3	24	10	278	1.04	10	<5	<2	2	69	.3	2	<2	17	6.41	.053	12	16	.74	100	.01	5	.60	.01	.17	33
WM-15	1	20	33	60	<.3	16	12	296	1.09	13	<5	<2	2	72	.7	<2	<2	17	5.23	.078	13	14	.75	96	.02	9	.76	.01	.24	49
WM-16	1	28	59	68	<.3	14	7	372	1.19	9	<5	<2	2	77	1.1	<2	<2	20	5.93	.085	13	15	.83	109	.03	9	.95	.02	.29	14
WM-17	<1	13	19	48	<.3	13	4	259	1.10	13	<5	<2	2	54	.4	<2	<2	20	3.96	.052	12	13	.52	82	.02	6	.82	.01	.21	<2
WM-18	1	20	25	61	<.3	14	7	390	1.24	26	<5	<2	2	131	.8	<2	<2	21	7.34	.086	14	16	.94	132	.03	10	.96	.02	.34	8
WM-19	1	25	47	68	<.3	13	5	401	1.43	14	<5	<2	3	79	1.0	<2	<2	24	3.50	.072	16	17	.81	131	.04	12	1.25	.02	.38	<2
WM-20	1	13	9	48	<.3	14	14	232	1.10	29	<5	<2	2	111	.7	<2	<2	19	10.96	.052	10	14	.61	80	.01	5	.62	.01	.15	108
WM-21	1	18	15	52	<.3	14	11	344	1.33	11	<5	<2	3	84	.5	<2	<2	24	5.59	.063	16	17	.61	122	.04	9	1.26	.02	.31	33
RE WM-21	1	18	18	52	<.3	14	11	347	1.32	10	<5	<2	3	84	.6	<2	<2	24	5.64	.063	16	17	.62	122	.03	9	1.26	.02	.32	34
WM-22	1	17	12	54	<.3	16	11	349	1.30	22	<5	<2	3	109	.6	<2	<2	25	8.59	.067	15	18	.65	117	.04	8	1.12	.02	.31	45
WM-23	1	17	13	49	<.3	15	12	339	1.21	20	<5	<2	2	139	.6	<2	<2	22	10.88	.065	14	16	.68	138	.03	9	1.03	.02	.30	8
WM-24	1	19	15	52	<.3	15	7	320	1.18	22	<5	<2	2	175	.8	<2	<2	22	11.63	.078	14	17	.77	146	.03	10	1.07	.02	.33	13
WM-25	1	15	12	51	<.3	16	7	376	1.34	18	<5	<2	2	116	.7	<2	<2	24	8.72	.064	16	16	.62	132	.04	9	1.14	.02	.31	6
WM-26	1	19	25	54	<.3	14	9	407	1.30	16	5	<2	2	91	.7	<2	<2	23	5.89	.069	16	16	.70	126	.04	9	1.13	.02	.32	12
WM-27	1	24	24	54	<.3	12	9	351	1.08	21	<5	<2	2	175	.6	<2	<2	20	12.27	.084	13	17	.97	128	.03	10	.88	.02	.31	30
STANDARD C2	19	58	40	122	7.4	70	34	1090	3.74	45	15	8	35	50	20.2	18	19	67	.48	.106	38	59	.93	181	.07	24	1.83	.06	.14	12

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.
- SAMPLE TYPE: PULP Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

RGE	10-36	5-67	34-96	<0.3	12-24	4-14			5-29	<5	<2	2-4	31-175	0.3-1.4	<2-2		17-30			10-22			82-167		8-14				<2-18

DATE RECEIVED: FEB 26 1997 DATE REPORT MAILED: SIGNED BY D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

N=27																														
	X̄	19.7	26.6	44.7	<0.3	14.5	8.2			13.6	<5	<2	2.3	82	0.7	<2		21.8			14.4			118		10.7				18.1
	S.D.	5.98	16.6	22		3.8	2.9			6.5				43.7	0.29			2.9			2.5			20		10				23.5
	T	26	43	66		18	11			20				126	1.3			24.7			16.9			138		20				41.6
	A	32	59	96		22	14			26				169	1.6			27.6			19.4			158		40				65.1

DRY STREAM SEDIMENTS +5200'- WEST MTN QUADRANGLE, UTAH CO, UTAH

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data FA

WEST MTN, UTAH CO, UTAH SS-BURCH

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Utah Geological Survey File # 97-0878 Page 1

State of Utah Natural Res, Salt Lake City UT U.S.A. 84114-6100 Submitted by: PAUL PROCTOR

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	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 %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
WM-1	1	26	24	61	<.3	18	11	540	1.83	11	<5	<2	4	35	.6	<2	<2	30	.62	.080	22	22	.56	157	.05	9	1.72	.02	.48	9
WM-2	<1	21	17	48	<.3	15	7	408	1.43	9	<5	<2	2	66	.4	<2	<2	23	4.06	.071	16	18	.79	136	.04	10	1.31	.02	.38	4
WM-3	1	30	67	69	<.3	14	5	429	1.46	5	<5	<2	3	48	1.4	<2	<2	23	2.07	.072	17	16	.64	131	.04	9	1.27	.02	.36	<2
WM-4	1	26	52	68	<.3	15	6	463	1.38	8	<5	<2	2	39	1.0	2	<2	21	1.11	.097	16	16	.55	119	.03	14	1.13	.01	.32	<2
WM-5	<1	10	9	34	<.3	14	4	247	1.04	5	<5	<2	2	36	.4	<2	<2	19	3.07	.043	12	13	.40	82	.02	5	.77	.01	.19	<2
WM-6	1	11	13	39	<.3	13	4	283	1.11	6	<5	<2	3	40	.3	<2	<2	19	1.95	.047	13	13	.41	92	.02	6	.81	.01	.19	<2
WM-7	1	21	30	80	<.3	20	6	362	1.31	9	<5	<2	2	31	.7	<2	<2	20	1.78	.065	14	16	.52	116	.02	8	.91	.01	.25	<2
WM-8	1	30	43	85	<.3	18	13	496	1.60	11	<5	<2	2	32	1.3	<2	2	25	1.21	.078	17	19	.64	129	.03	10	1.29	.02	.36	46
WM-9	1	21	43	66	<.3	16	5	361	1.37	7	5	<2	3	37	1.0	<2	<2	24	1.89	.063	14	15	.50	101	.03	8	1.08	.01	.31	<2
WM-10	1	19	17	81	<.3	20	10	457	1.55	8	<5	<2	2	33	.4	<2	<2	25	1.98	.065	16	17	.65	123	.03	8	1.18	.01	.31	8
WM-11	1	20	17	66	<.3	17	8	398	1.28	17	<5	<2	2	119	.8	2	<2	24	11.01	.082	16	15	1.14	144	.03	9	1.11	.02	.33	15
WM-12	1	16	25	60	<.3	13	8	385	1.05	18	<5	<2	2	92	.7	<2	<2	19	15.49	.048	10	10	3.91	110	.02	8	.75	.02	.22	16
WM-13	1	28	41	96	<.3	18	9	346	1.23	9	<5	<2	2	132	1.1	2	<2	20	6.73	.072	13	14	1.00	124	.03	11	.95	.02	.32	26
WM-14	1	15	12	67	<.3	24	10	278	1.04	10	<5	<2	2	69	.3	2	<2	17	6.41	.053	12	16	.74	100	.01	5	.60	.01	.17	33
WM-15	1	20	33	60	<.3	16	12	296	1.09	13	<5	<2	2	72	.7	<2	<2	17	5.23	.078	13	14	.75	96	.02	9	.76	.01	.24	49
WM-16	1	28	59	68	<.3	14	7	372	1.19	9	<5	<2	2	77	1.1	<2	<2	20	5.93	.085	13	15	.83	109	.03	9	.95	.02	.29	14
WM-17	<1	13	19	48	<.3	13	4	259	1.10	13	<5	<2	2	54	.4	<2	<2	20	3.96	.052	12	13	.52	82	.02	6	.82	.01	.21	<2
WM-18	1	20	25	61	<.3	14	7	390	1.24	26	<5	<2	2	131	.8	<2	<2	21	7.34	.086	14	16	.94	132	.03	10	.96	.02	.34	8
WM-19	1	25	47	68	<.3	13	5	401	1.43	14	<5	<2	3	79	1.0	<2	<2	24	3.50	.072	16	17	.81	131	.04	12	1.25	.02	.38	<2
WM-20	1	13	9	48	<.3	14	14	232	1.10	29	<5	<2	2	111	.7	<2	<2	19	10.96	.052	10	14	.61	80	.01	5	.62	.01	.15	108
WM-21	1	18	15	52	<.3	14	11	344	1.33	11	<5	<2	3	84	.5	<2	<2	24	5.59	.063	16	17	.61	122	.04	9	1.26	.02	.31	33
RE WM-21	1	18	18	52	<.3	14	11	347	1.32	10	<5	<2	3	84	.6	<2	<2	24	5.64	.063	16	17	.62	122	.03	9	1.26	.02	.32	34
WM-22	1	17	12	54	<.3	16	11	349	1.30	22	<5	<2	3	109	.6	<2	<2	25	8.59	.067	15	18	.65	117	.04	8	1.12	.02	.31	45
WM-23	1	17	13	49	<.3	15	12	339	1.21	20	<5	<2	2	139	.6	<2	<2	22	10.88	.065	14	16	.68	138	.03	9	1.03	.02	.30	8
WM-24	1	19	15	52	<.3	15	7	320	1.18	22	<5	<2	2	175	.8	<2	<2	22	11.63	.078	14	17	.77	146	.03	10	1.07	.02	.33	13
WM-25	1	15	12	51	<.3	16	7	376	1.34	18	<5	<2	2	116	.7	<2	<2	24	8.72	.064	16	16	.62	132	.04	9	1.14	.02	.31	6
WM-26	1	19	25	54	<.3	14	9	407	1.30	16	5	<2	2	91	.7	<2	<2	23	5.89	.069	16	16	.70	126	.04	9	1.13	.02	.32	12
WM-27	1	24	24	54	<.3	12	9	351	1.08	21	<5	<2	2	175	.6	<2	<2	20	12.27	.084	13	17	.97	128	.03	10	.88	.02	.31	30
STANDARD C2	19	58	40	122	7.4	70	34	1090	3.74	45	15	8	35	50	20.2	18	19	67	.48	.106	38	59	.93	181	.07	24	1.83	.06	.14	12

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.
- SAMPLE TYPE: PULP Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: FEB 26 1997 **DATE REPORT MAILED:** Mar 24/97 **SIGNED BY** ..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

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Data FA ____

ACME ANALYTICAL

Utah Geological Survey FILE # 97-0878

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	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 %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
WMA-1	30	130	3839	3433	20.6	112	60	625	25.93	1258	<5	<2	2	48	9.3	<2	<2	107	5.15	.022	4	22	.45	211	<.01	14	.15	.02	.07	61
WMAR-1A	1	13	14	29	<.3	20	13	62	1.63	16	<5	<2	10	77	<.2	<2	<2	40	3.16	.037	101	48	.27	60	.02	9	1.47	.01	.16	47
WMAR-2A	1	15	44	28	<.3	18	15	26	1.51	22	6	<2	4	52	.2	<2	<2	21	1.37	.095	20	26	.28	25	.01	17	.91	.01	.23	98
WMA-3	<1	6	<3	6	<.3	1	11	72	.13	2	<5	<2	<2	108	<.2	<2	<2	3	16.95	.015	2	5	.31	16	<.01	<3	.10	.01	.04	119
WMA-5	<1	9	<3	6	.4	<1	1	34	<.01	3	<5	<2	<2	1469	<.2	<2	<2	1	40.03	.001	<1	1	.13	6	<.01	<3	<.01	<.01	.01	8
RE WMA-5	<1	10	<3	6	.6	<1	1	35	.01	3	6	<2	3	1484	<.2	2	<2	2	40.26	.001	1	1	.13	6	<.01	<3	.01	<.01	.01	9
WMA-7	<1	9	<3	6	.4	2	2	37	.06	<2	<5	<2	<2	1562	<.2	2	<2	2	39.77	.002	<1	1	.72	47	<.01	<3	.06	.01	.01	15
WMA-8	2	16	14	36	<.3	10	16	76	1.54	24	<5	<2	3	91	.2	<2	<2	25	3.58	.035	21	21	.30	284	.02	19	1.03	.01	.22	71
WMA-9	<1	11	4	12	<.3	10	8	139	.54	14	<5	<2	3	98	.3	<2	<2	19	13.71	.042	10	16	.83	67	<.01	5	.45	.01	.14	38
WMA-11	8	28	3	129	<.3	32	15	97	11.25	296	8	<2	2	104	.7	<2	2	176	.27	.103	5	24	.09	37	.01	5	.53	.02	.07	80
WMA-13	2	20	15	43	<.3	14	43	71	1.79	21	<5	<2	4	143	.2	<2	<2	48	2.24	.079	19	53	.26	64	.02	13	1.68	.01	.31	218
WMA-14	<1	9	3	11	.5	8	8	129	.50	9	<5	<2	3	124	.3	3	<2	16	13.02	.029	9	12	1.08	30	<.01	5	.39	.02	.12	41
WMA-15	<1	10	<3	7	<.3	3	8	21	.23	8	<5	<2	2	172	.2	<2	<2	7	18.00	.043	5	5	.27	96	<.01	9	.27	.02	.08	51
WMA-16	<1	14	9	13	<.3	6	15	22	1.04	6	<5	<2	6	21	.2	<2	<2	16	.46	.049	56	32	.51	37	.01	17	1.00	.01	.29	94
STANDARD C2	19	56	40	134	6.9	70	34	1079	3.77	42	22	7	35	49	19.8	14	19	67	.49	.109	37	59	.94	181	.07	23	1.88	.06	.14	11

Sample type: PULP. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

WHOLE ROCK ICP ANALYSIS

Utah Geological Survey File # 97-0878 Page 3

State of Utah Natural Res, Salt Lake City UT U.S.A. 84114-6100 Submitted by: PAUL PROCTOR

SAMPLE#	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	Ba ppm	Ni ppm	Sr ppm	Zr ppm	Y ppm	Nb ppm	Sc ppm	LOI %	SUM %
WMV-1	48.49	10.94	4.17	2.83	12.47	.46	1.91	.49	.20	.08	.008	589	31	227	143	19	<10	<10	18.0	100.17
WMV-2	42.30	8.80	2.90	3.71	17.23	.51	1.80	.39	.19	.05	.010	517	33	513	184	16	<10	<10	21.3	99.34
WMV-3	39.41	7.80	2.78	2.77	20.40	.45	1.34	.38	.20	.06	.008	421	36	382	110	15	<10	<10	23.8	99.51
WMV-4	89.26	1.62	.38	.05	3.85	.09	.61	.06	.03	.01	<.001	135	<20	24	133	<10	<10	<10	4.0	100.00
WMV-5U	52.87	7.77	2.82	3.70	12.31	.95	1.60	.42	.29	.06	.004	446	<20	332	208	16	<10	<10	16.8	99.71
WMV-5L	54.23	8.23	2.90	3.25	11.64	.80	1.30	.48	.21	.03	.009	364	25	266	225	17	<10	<10	16.9	100.09
RE WMV-5L	53.68	8.11	2.88	3.22	11.49	.76	1.27	.48	.24	.03	.008	362	32	260	212	17	<10	<10	16.8	99.08
WMV-6	47.35	6.82	2.85	4.75	15.63	.82	1.13	.42	.25	.08	.003	631	<20	464	191	13	<10	<10	19.7	99.96
WMV-7	53.76	8.34	3.15	2.33	14.12	.94	1.49	.50	.19	.05	.002	527	20	380	239	16	<10	<10	15.1	100.11
WMV-8	50.53	9.62	3.81	2.49	11.53	.74	1.81	.49	<.01	.06	.009	446	41	277	186	18	<10	<10	16.4	97.61
WML-28	16.96	1.96	.58	11.63	29.16	1.11	.38	.08	.14	.01	.003	219	<20	3447	55	<10	<10	<10	37.3	99.76
WM-30	13.05	1.49	.41	4.81	39.02	.78	.29	.06	.08	.02	.001	321	<20	3042	55	<10	<10	<10	38.7	99.12
STANDARD SO-15	49.93	12.61	7.09	7.23	5.92	2.45	1.83	1.59	2.53	1.29	1.123	2142	80	419	736	20	<10	10	5.9	99.90

.200 GRAM SAMPLES ARE FUSED WITH 1.5 GRAM OF LIBO2 AND ARE DISSOLVED IN 100 MLS 5% HNO3. OTHER METALS ARE SUM AS OXIDES.
- SAMPLE TYPE: PULP Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: FEB 26 1997 **DATE REPORT MAILED:** Mar 24/97 **SIGNED BY** ..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

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Data FA ____

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Utah Geological Survey File # 97-0878 Page 1

State of Utah Natural Res, Salt Lake City UT U.S.A. 84114-6100 Submitted by: PAUL PROCTOR

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	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 %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
WM-1	1	26	24	61	<.3	18	11	540	1.83	11	<5	<2	4	35	.6	<2	<2	30	.62	.080	22	22	.56	157	.05	9	1.72	.02	.48	9
WM-2	<1	21	17	48	<.3	15	7	408	1.43	9	<5	<2	2	66	.4	<2	<2	23	4.06	.071	16	18	.79	136	.04	10	1.31	.02	.38	4
WM-3	1	30	67	69	<.3	14	5	429	1.46	5	<5	<2	3	48	1.4	<2	<2	23	2.07	.072	17	16	.64	131	.04	9	1.27	.02	.36	<2
WM-4	1	26	52	68	<.3	15	6	463	1.38	8	<5	<2	2	39	1.0	2	<2	21	1.11	.097	16	16	.55	119	.03	14	1.13	.01	.32	<2
WM-5	<1	10	9	34	<.3	14	4	247	1.04	5	<5	<2	2	36	.4	<2	<2	19	3.07	.043	12	13	.40	82	.02	5	.77	.01	.19	<2
WM-6	1	11	13	39	<.3	13	4	283	1.11	6	<5	<2	3	40	.3	<2	<2	19	1.95	.047	13	13	.41	92	.02	6	.81	.01	.19	<2
WM-7	1	21	30	80	<.3	20	6	362	1.31	9	<5	<2	2	31	.7	<2	<2	20	1.78	.065	14	16	.52	116	.02	8	.91	.01	.25	<2
WM-8	1	30	43	85	<.3	18	13	496	1.60	11	<5	<2	2	32	1.3	<2	2	25	1.21	.078	17	19	.64	129	.03	10	1.29	.02	.36	46
WM-9	1	21	43	66	<.3	16	5	361	1.37	7	5	<2	3	37	1.0	<2	<2	24	1.89	.063	14	15	.50	101	.03	8	1.08	.01	.31	<2
WM-10	1	19	17	81	<.3	20	10	457	1.55	8	<5	<2	2	33	.4	<2	<2	25	1.98	.065	16	17	.65	123	.03	8	1.18	.01	.31	8
WM-11	1	20	17	66	<.3	17	8	398	1.28	17	<5	<2	2	119	.8	2	<2	24	11.01	.082	16	15	1.14	144	.03	9	1.11	.02	.33	15
WM-12	1	16	25	60	<.3	13	8	385	1.05	18	<5	<2	2	92	.7	<2	<2	19	15.49	.048	10	10	3.91	110	.02	8	.75	.02	.22	16
WM-13	1	28	41	96	<.3	18	9	346	1.23	9	<5	<2	2	132	1.1	2	<2	20	6.73	.072	13	14	1.00	124	.03	11	.95	.02	.32	26
WM-14	1	15	12	67	<.3	24	10	278	1.04	10	<5	<2	2	69	.3	2	<2	17	6.41	.053	12	16	.74	100	.01	5	.60	.01	.17	33
WM-15	1	20	33	60	<.3	16	12	296	1.09	13	<5	<2	2	72	.7	<2	<2	17	5.23	.078	13	14	.75	96	.02	9	.76	.01	.24	49
WM-16	1	28	59	68	<.3	14	7	372	1.19	9	<5	<2	2	77	1.1	<2	<2	20	5.93	.085	13	15	.83	109	.03	9	.95	.02	.29	14
WM-17	<1	13	19	48	<.3	13	4	259	1.10	13	<5	<2	2	54	.4	<2	<2	20	3.96	.052	12	13	.52	82	.02	6	.82	.01	.21	<2
WM-18	1	20	25	61	<.3	14	7	390	1.24	26	<5	<2	2	131	.8	<2	<2	21	7.34	.086	14	16	.94	132	.03	10	.96	.02	.34	8
WM-19	1	25	47	68	<.3	13	5	401	1.43	14	<5	<2	3	79	1.0	<2	<2	24	3.50	.072	16	17	.81	131	.04	12	1.25	.02	.38	<2
WM-20	1	13	9	48	<.3	14	14	232	1.10	29	<5	<2	2	111	.7	<2	<2	19	10.96	.052	10	14	.61	80	.01	5	.62	.01	.15	108
WM-21	1	18	15	52	<.3	14	11	344	1.33	11	<5	<2	3	84	.5	<2	<2	24	5.59	.063	16	17	.61	122	.04	9	1.26	.02	.31	33
RE WM-21	1	18	18	52	<.3	14	11	347	1.32	10	<5	<2	3	84	.6	<2	<2	24	5.64	.063	16	17	.62	122	.03	9	1.26	.02	.32	34
WM-22	1	17	12	54	<.3	16	11	349	1.30	22	<5	<2	3	109	.6	<2	<2	25	8.59	.067	15	18	.65	117	.04	8	1.12	.02	.31	45
WM-23	1	17	13	49	<.3	15	12	339	1.21	20	<5	<2	2	139	.6	<2	<2	22	10.88	.065	14	16	.68	138	.03	9	1.03	.02	.30	8
WM-24	1	19	15	52	<.3	15	7	320	1.18	22	<5	<2	2	175	.8	<2	<2	22	11.63	.078	14	17	.77	146	.03	10	1.07	.02	.33	13
WM-25	1	15	12	51	<.3	16	7	376	1.34	18	<5	<2	2	116	.7	<2	<2	24	8.72	.064	16	16	.62	132	.04	9	1.14	.02	.31	6
WM-26	1	19	25	54	<.3	14	9	407	1.30	16	5	<2	2	91	.7	<2	<2	23	5.89	.069	16	16	.70	126	.04	9	1.13	.02	.32	12
WM-27	1	24	24	54	<.3	12	9	351	1.08	21	<5	<2	2	175	.6	<2	<2	20	12.27	.084	13	17	.97	128	.03	10	.88	.02	.31	30
STANDARD C2	19	58	40	122	7.4	70	34	1090	3.74	45	15	8	35	50	20.2	18	19	67	.48	.106	38	59	.93	181	.07	24	1.83	.06	.14	12

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.
- SAMPLE TYPE: PULP Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

RGE	10-36	5-67	34-96	<0.3	12-24	4-14			5-29	<5	<2	2-4	51-175	0.3-1.4	<2-2		17-30			10-22			52-167		5-14				2-168
DATE RECEIVED: FEB 26 1997 DATE REPORT MAILED: SIGNED BY D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS																														
N=27 X	19.7	26.6	44.7	<0.3	14.5	8.2			13.6	<5	<2	2.3	82	0.7	<2		21.8			14.4			118		10.7				18.1
S.D.	5.98	16.6	22		3.8	2.9			6.5				43.7	0.29			2.9			2.5			20		10				23.5
T	26	43	66		18	11			20				126	1.3			24.7			16.9			138		20				41.6
A	32	59	96		22	14			26				169	1.6			27.6			19.4			158		40				65.4

DRY STREAM SEDIMENTS +5200'- WEST MTN QUADRANGLE, UTAH CO, UTAH

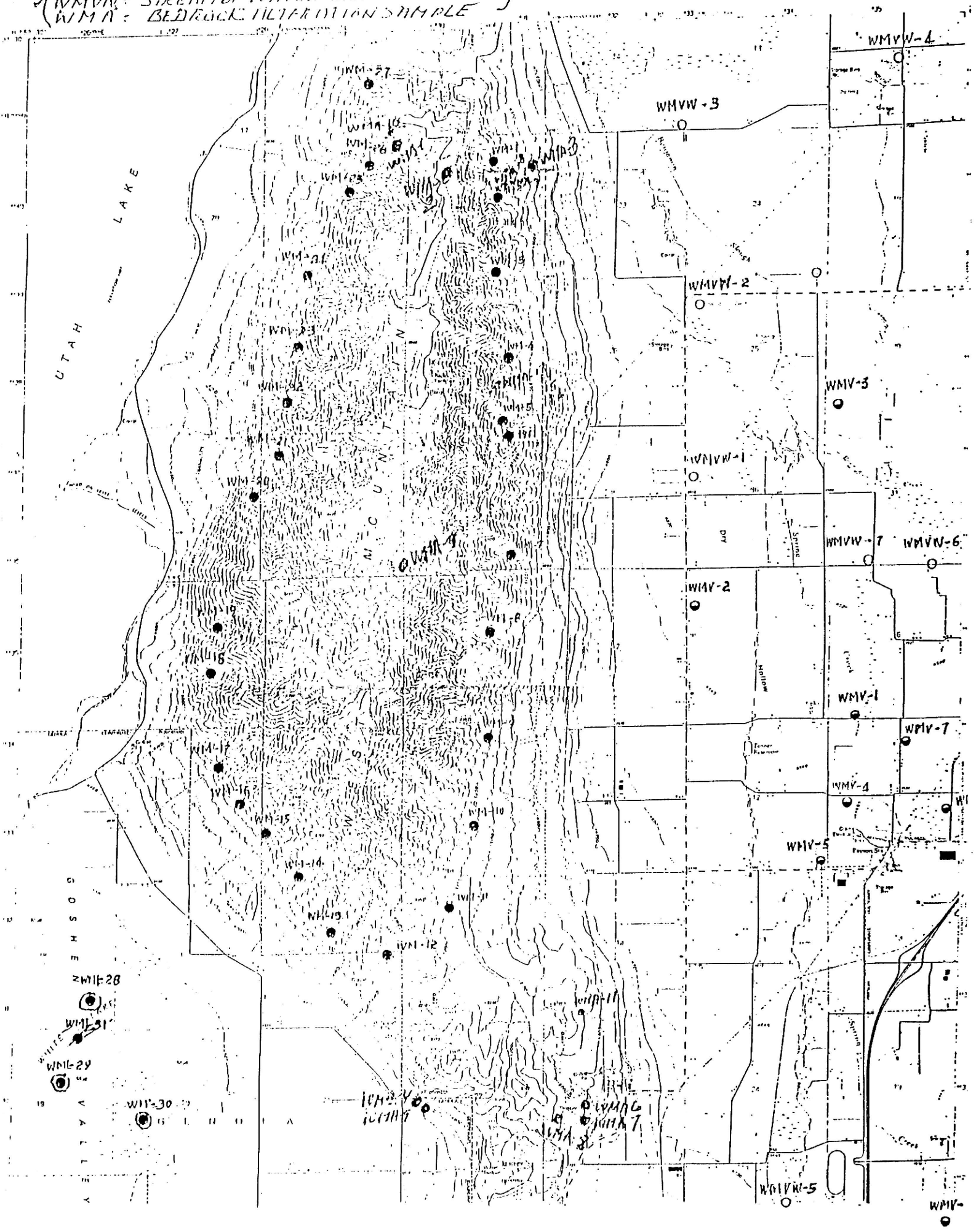
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data___ FA ____

WM = Dry Stream Sediment Sample
WMV = Soil-Sediment Sample (Heavy Mt.)
WMVW = Stream or Water Well Sample
WMA = Bedrock Mineralization Sample

FOR GEOCHEMICAL ANALYSES

WEST MOUNTAIN QUADRANGLE
Utah County, Utah



ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Utah Geological Survey File # 97-0878 Page 1

State of Utah Natural Res, Salt Lake City UT U.S.A. 84114-6100 Submitted by: PAUL PROCTOR

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	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 %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
WM-1	1	26	24	61	<.3	18	11	540	1.83	11	<5	<2	4	35	.6	<2	<2	30	.62	.080	22	22	.56	157	.05	9	1.72	.02	.48	9
WM-2	<1	21	17	48	<.3	15	7	408	1.43	9	<5	<2	2	66	.4	<2	<2	23	4.06	.071	16	18	.79	136	.04	10	1.31	.02	.38	4
WM-3	1	30	67	69	<.3	14	5	429	1.46	5	<5	<2	3	48	1.4	<2	<2	23	2.07	.072	17	16	.64	131	.04	9	1.27	.02	.36	<2
WM-4	1	26	52	68	<.3	15	6	463	1.38	8	<5	<2	2	39	1.0	2	<2	21	1.11	.097	16	16	.55	119	.03	14	1.13	.01	.32	<2
WM-5	<1	10	9	34	<.3	14	4	247	1.04	5	<5	<2	2	36	.4	<2	<2	19	3.07	.043	12	13	.40	82	.02	5	.77	.01	.19	<2
WM-6	1	11	13	39	<.3	13	4	283	1.11	6	<5	<2	3	40	.3	<2	<2	19	1.95	.047	13	13	.41	92	.02	6	.81	.01	.19	<2
WM-7	1	21	30	80	<.3	20	6	362	1.31	9	<5	<2	2	31	.7	<2	<2	20	1.78	.065	14	16	.52	116	.02	8	.91	.01	.25	<2
WM-8	1	30	43	85	<.3	18	13	496	1.60	11	<5	<2	2	32	1.3	<2	2	25	1.21	.078	17	19	.64	129	.03	10	1.29	.02	.36	46
WM-9	1	21	43	66	<.3	16	5	361	1.37	7	5	<2	3	37	1.0	<2	<2	24	1.89	.063	14	15	.50	101	.03	8	1.08	.01	.31	<2
WM-10	1	19	17	81	<.3	20	10	457	1.55	8	<5	<2	2	33	.4	<2	<2	25	1.98	.065	16	17	.65	123	.03	8	1.18	.01	.31	8
WM-11	1	20	17	66	<.3	17	8	398	1.28	17	<5	<2	2	119	.8	2	<2	24	11.01	.082	16	15	1.14	144	.03	9	1.11	.02	.33	15
WM-12	1	16	25	60	<.3	13	8	385	1.05	18	<5	<2	2	92	.7	<2	<2	19	15.49	.048	10	10	3.91	110	.02	8	.75	.02	.22	16
WM-13	1	28	41	96	<.3	18	9	346	1.23	9	<5	<2	2	132	1.1	2	<2	20	6.73	.072	13	14	1.00	124	.03	11	.95	.02	.32	26
WM-14	1	15	12	67	<.3	24	10	278	1.04	10	<5	<2	2	69	.3	2	<2	17	6.41	.053	12	16	.74	100	.01	5	.60	.01	.17	33
WM-15	1	20	33	60	<.3	16	12	296	1.09	13	<5	<2	2	72	.7	<2	<2	17	5.23	.078	13	14	.75	96	.02	9	.76	.01	.24	49
WM-16	1	28	59	68	<.3	14	7	372	1.19	9	<5	<2	2	77	1.1	<2	<2	20	5.93	.085	13	15	.83	109	.03	9	.95	.02	.29	14
WM-17	<1	13	19	48	<.3	13	4	259	1.10	13	<5	<2	2	54	.4	<2	<2	20	3.96	.052	12	13	.52	82	.02	6	.82	.01	.21	<2
WM-18	1	20	25	61	<.3	14	7	390	1.24	26	<5	<2	2	131	.8	<2	<2	21	7.34	.086	14	16	.94	132	.03	10	.96	.02	.34	8
WM-19	1	25	47	68	<.3	13	5	401	1.43	14	<5	<2	3	79	1.0	<2	<2	24	3.50	.072	16	17	.81	131	.04	12	1.25	.02	.38	<2
WM-20	1	13	9	48	<.3	14	14	232	1.10	29	<5	<2	2	111	.7	<2	<2	19	10.96	.052	10	14	.61	80	.01	5	.62	.01	.15	108
WM-21	1	18	15	52	<.3	14	11	344	1.33	11	<5	<2	3	84	.5	<2	<2	24	5.59	.063	16	17	.61	122	.04	9	1.26	.02	.31	33
RE WM-21	1	18	18	52	<.3	14	11	347	1.32	10	<5	<2	3	84	.6	<2	<2	24	5.64	.063	16	17	.62	122	.03	9	1.26	.02	.32	34
WM-22	1	17	12	54	<.3	16	11	349	1.30	22	<5	<2	3	109	.6	<2	<2	25	8.59	.067	15	18	.65	117	.04	8	1.12	.02	.31	45
WM-23	1	17	13	49	<.3	15	12	339	1.21	20	<5	<2	2	139	.6	<2	<2	22	10.88	.065	14	16	.68	138	.03	9	1.03	.02	.30	8
WM-24	1	19	15	52	<.3	15	7	320	1.18	22	<5	<2	2	175	.8	<2	<2	22	11.63	.078	14	17	.77	146	.03	10	1.07	.02	.33	13
WM-25	1	15	12	51	<.3	16	7	376	1.34	18	<5	<2	2	116	.7	<2	<2	24	8.72	.064	16	16	.62	132	.04	9	1.14	.02	.31	6
WM-26	1	19	25	54	<.3	14	9	407	1.30	16	5	<2	2	91	.7	<2	<2	23	5.89	.069	16	16	.70	126	.04	9	1.13	.02	.32	12
WM-27	1	24	24	54	<.3	12	9	351	1.08	21	<5	<2	2	175	.6	<2	<2	20	12.27	.084	13	17	.97	128	.03	10	.88	.02	.31	30
STANDARD C2	19	58	40	122	7.4	70	34	1090	3.74	45	15	8	35	50	20.2	18	19	67	.48	.106	38	59	.93	181	.07	24	1.83	.06	.14	12

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.
- SAMPLE TYPE: PULP Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

RGE	10-36	5-67	34-96	<0.3	12-24	4-14			5-29	<5	<2	2-4	31-175	0.3-1.4	42-2		17-30			10-22			52-157		5-14				2-18
N=27																														
X	19.7	26.6	44.7	<0.3	14.5	8.2			13.6	<5	<2	2.3	82	0.7	<2		21.8			14.4			118		10.7				18.1
S.D.	6.98	16.6	22		3.8	2.9			6.5				43.7	0.29			2.9			2.5			20		1.6				23.5
T	26	43	66		18	11			20				126	1.3			24.7			16.9			138		20				41.6
A	32	59	96		22	14			26				169	1.6			27.6			19.4			158		4.6				65.6

DATE RECEIVED: FEB 26 1997 DATE REPORT MAILED: SIGNED BY ..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

DRY STREAM SEDIMENTS +5200'- WEST MTN QUADRANGLE, UTAH CO, UTAH

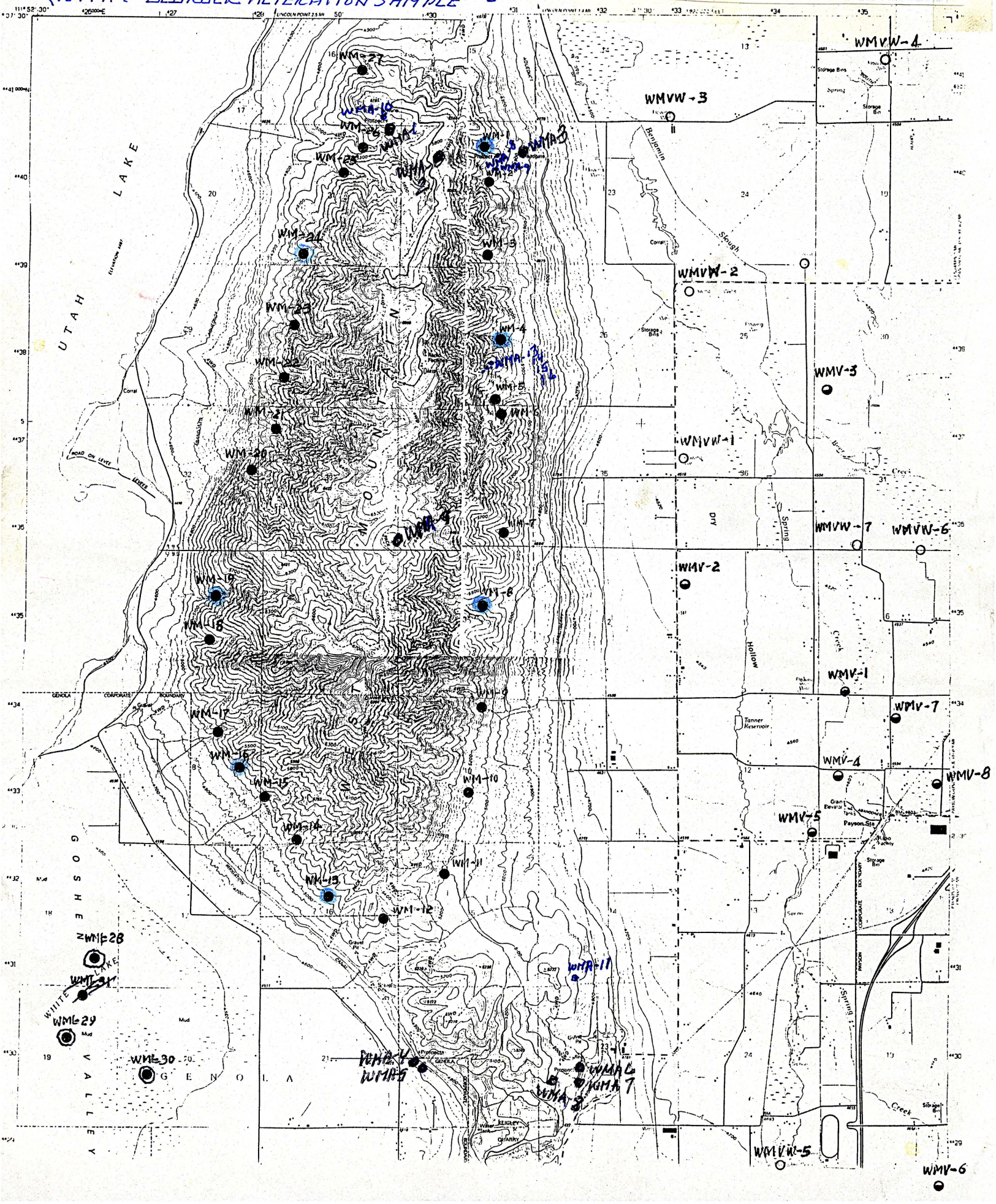
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data FA

WM = Dry Stream Sediment Sample
WMV = Soil-Sediment Sample - E. Utah Valley
WMVW = Stream or Waterwell Sample
WMA = Bedrock Alteration Sample

Collected Samples for Geochemical Analyses

WEST MOUNTAIN QUADRANGLE
Utah County, Utah



WEST MTN, UTAH CO-UTAH

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Utah Geological Survey File # 97-0878 Page 4

State of Utah Natural Res, Salt Lake City UT U.S.A. 84114-6100 Submitted by: PAUL PROCTOR

SAMPLE#	Au PPB	Ag PPM	As PPM	Ba PPM	Br PPM	Ca %	Co PPM	Cr PPM	Cs PPM	Fe %	Hf PPM	Hg PPM	Ir PPB	Mo PPM	Na %	Ni PPM	Rb PPM	Sb PPM	Sc PPM	Se PPM	Sn %	Sr %	Ta PPM	Th PPM	U PPM	W PPM	Zn PPM	La PPM	Ce PPM	Nd PPM	Sm PPM	Eu PPM	Tb PPM	Yb PPM	Lu PPM
WMA-4	<5	<5	2	<100	<1	40	<5	<10	<2	.1	<1	<1	<5	<5	<.05	<50	<30	<.2	.3	<5	<.01	.10	<1	<.5	<.5	11	<50	1	<3	<5	.2	<.2	<.5	<.2	<.05
WMA-10	14	<5	3000	<100	<1	9	34	55	<2	25.0	<1	<1	<5	<5	<.05	<50	<30	<.2	1.4	<5	<.01	<.05	<1	1.0	9.1	70	810	4	7	<5	.4	<.2	<.5	.6	.10

ANALYSED BY NEUTRON ACTIVATION FROM ACTIVATION LABORATORIES (ANCASTER, ON).
- SAMPLE TYPE: PULP

DATE RECEIVED: FEB 26 1997 DATE REPORT MAILED: April 30/97 SIGNED BY. C. Leong .....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Copy Send to Paul Proctor,

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data___ FA ___

WEST MTN-UTCO, UTAH

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Utah Geological Survey File # 97-0878 Page 4

State of Utah Natural Res, Salt Lake City UT U.S.A. 84114-6100 Submitted by: PAUL PROCTOR

SAMPLE#	Au PPB	Ag PPM	As PPM	Ba PPM	Br PPM	Ca %	Co PPM	Cr PPM	Cs PPM	Fe %	Hf PPM	Hg PPM	Ir PPB	Mo PPM	Na %	Ni PPM	Rb PPM	Sb PPM	Sc PPM	Se PPM	Sn %	Sr %	Ta PPM	Th PPM	U PPM	W PPM	Zn PPM	La PPM	Ce PPM	Nd PPM	Sm PPM	Eu PPM	Tb PPM	Yb PPM	Lu PPM
WMA-4	<5	<5	2	<100	<1	40	<5	<10	<2	.1	<1	<1	<5	<5	<.05	<50	<30	<.2	.3	<5	<.01	.10	<1	<.5	<.5	11	<50	1	<3	<5	.2	<.2	<.5	<.2	<.05
WMA-10	14	<5	3000	<100	<1	9	34	55	<2	25.0	<1	<1	<5	<5	<.05	<50	<30	<.2	1.4	<5	<.01	<.05	<1	1.0	9.1	70	810	4	7	<5	.4	<.2	<.5	.6	.10

ANALYSED BY NEUTRON ACTIVATION FROM ACTIVATION LABORATORIES (ANCASTER, ON).
- SAMPLE TYPE: PULP

DATE RECEIVED: FEB 26 1997 DATE REPORT MAILED: April 30/97 SIGNED BY. C. L. D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

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WEST MTN, UTAH CO, UTAH

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Utah Geological Survey File # 97-0878 Page 4

State of Utah Natural Res, Salt Lake City UT U.S.A. 84114-6100 Submitted by: PAUL PROCTOR

SAMPLE#	Au PPB	Ag PPM	As PPM	Ba PPM	Br PPM	Ca %	Co PPM	Cr PPM	Cs PPM	Fe %	Hf PPM	Hg PPM	Ir PPB	Mo PPM	Na %	Ni PPM	Rb PPM	Sb PPM	Sc PPM	Se PPM	Sn %	Sr %	Ta PPM	Th PPM	U PPM	W PPM	Zn PPM	La PPM	Ce PPM	Nd PPM	Sm PPM	Eu PPM	Tb PPM	Yb PPM	Lu PPM
WMA-4	<5	<5	2	<100	<1	40	<5	<10	<2	.1	<1	<1	<5	<5	<.05	<50	<30	<.2	.3	<5	<.01	.10	<1	<.5	<.5	11	<50	1	<3	<5	.2	<.2	<.5	<.2	<.05
WMA-10	14	<5	3000	<100	<1	9	34	55	<2	25.0	<1	<1	<5	<5	<.05	<50	<30	<.2	1.4	<5	<.01	<.05	<1	1.0	9.1	70	810	4	7	<5	.4	<.2	<.5	.6	.10

ANALYSED BY NEUTRON ACTIVATION FROM ACTIVATION LABORATORIES (ANCASTER, ON).
- SAMPLE TYPE: PULP

DATE RECEIVED: FEB 26 1997 DATE REPORT MAILED: April 30/97 SIGNED BY. . . . . D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Copy Sent to Paul Proctor,

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data___ FA ___

WEST MTN, UTAH CO., UTAH

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Utah Geological Survey File # 97-0878 Page 4

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WMA-10	14	<5	3000	<100	<1	9	34	55	<2	25.0	<1	<1	<5	<5	<.05	<50	<30	<.2	1.4	<5	<.01	<.05	<1	1.0	9.1	70	810	4	7	<5	.4	<.2	<.5	.6	.10

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Data___ FA ___

4 Decenber 1996

WM SAMPLES

Mr. Grant Willis
Senior Geologist
Utah Geological Survey
1594 West North Temple
Salt Lake City, Utah 84116

Dear Grant:

I originally talked with Hellmutt Doelling t regarding the need for chemical analyses for samples collected in the West Mountain Quadrangle, Utah County, Utah.

I indicated that we have 27 Stream Sediment Samples, -80m, from the eastern and western sides of West Mountain, which represent sediments from the major drainage basins of the mountain. We have two lake sediments from White Lake playa in the southwest quarter of the quadrangle, and additional samples from the valley fill east of West Mountain. Water well samples from selected flowing wells in the eastern valley, and about 16 alteration samples from prospects and altered zones in the main mountain mass make up the remainder. We believe these samples will give a good geochemical signature for the quadrangle.

I have contacted Acme Laboratories, Ltd. of Vancouver, Canada for costs of their certified ICP analyses. Their prices are as follows:

29 Str. Sediments -80 m, 32 elements each @5.30/sample.....$153.70
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Total Estimated Costs.....$470.10

I understand, on approval, I will have Acme bill your office directly with a copy of the analyses sent to you, and also to us. A map is enclosed showing the location of these various samples and appropriate sample numbers.

We are making real progress on the quadrangle, andfield work is essentially completed. We have many fossils for the Oquirrh and will work these over via students during the winter.

Please let me know the response to the above. The samples are ready for shipment and have about a two weeks turn-around time. Thanks for your help.

Regards,

Paul

Paul Dean Proctor
c/o Department of Geology
Fax 378-8143
Provo, Utah 84602

Enclosure: Sample Map

WMA-R - 2A. Redall. in Pog, Tower Rd, near N quad bdy - WC Sec 15, 1E, 8S.

WMA-R - 1A - Redall. of Pog 1s - Tower Rd, near N QUAD. bdy WC sec 15, 1E, 8S.

WMA - 1 ~~WC Sec~~ WEC 27, 1E, 9S Covered shaft ~300' deep near canal (Fe Ox alteration) { WMV - 4 Red Sandstone WC Sec 7, T9S, R2E

WMA - 2 ? (WMA) Limonitic alteration in Pog - 'mine' - SE 4/16, 1E, 8S

" 3 ? - Fgn. Wi Calcite on joints, NC Sec 22, 1E, 8S

" 4 Calcite Vein with H_2S (Sec. 23) Prospects, 9S, 1E.

" 5 Calcite veinlets, H_2S bearing, Center sec. 23, 1E, 9S.

" 6 Reddish clay from dumps near "mine" at C Sec. 23, 9S, 1E

" 7 White $CaCO_3$ with H_2S inclusions, near 'mine', WC Sec. 23, T9S, R1E

" 8 ? Red alteration, prospect, NE 4 22, 8S, 1E (WMA 6)

" 9 ? Argillic alteration, pits of WMA 8, NE 4 22, 1E, 8S.

" 10 ~~White~~ ~~Red~~ Limonitic alt., replacement Cherty Pog at 25' shaft, near Cave SE 4/4 16, 1E, 8S.

" 11. ~~Red~~ Sample limonitic alteration, SW 4 ~~14~~ 20' shaft in Pog b Ls, Limonitic Replacement of limestone

" 12 white ✓

" 13 Red alteration, NC Sec. 27, 1E, 8S.

" 15 ~~14~~ White alteration in breccia, Pog, EC-27, 1E, 8S (near LB level - see sec.)

" 14 White alteration, prospect above LB level, EC sec. 27, 1E, 8S.

" 16 Red ~~W~~ Red alteration, below WM-15 - EC Sec. 27, 1E, 8S

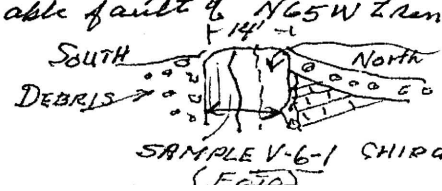
Calcite Veins

Vein 2 - West of Currently mined Vein 1 of Cedarstrow.

LOCATION (N. of W. of Lincoln Pit gated ~1 mile

Vein 4 (To NW) Aragonite - brown - banded N20W, 45-55E; 8' wide at surface

White Calcite vein 14' wide NW of EXPL. PIT of DYNA in Probable fault of N65W Trend.



(OVER)

BRIGHAM YOUNG UNIVERSITY

Geology 351 - Mineralogy

Crystallography

SYSTEM	CLASS	MILLER INDICES	FORM NAMES
1. WMV-1			WML-28 ✓
2. WMV-2			WML-30 ✓
3. WMV-3			
4. WMV-4	Nov. 30 ✓		
5. WMV-5 (U), (L)			
6. WMV-6			
7. WMV-7			
8. WMV-8			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16. WMA-1	✓?	9 ✓	WMARLA ✓
17. 2		10 ✓	WMA-R-2A ✓
18. 3	✓	11 ✓	
19. 4	✓	12	
20. 5	✓	13 ✓	
21. 6		14 ✓	
22. 7	✓	15 (Wi) ✓	
23. 8	✓	16 ✓	
24.			
25.			

WMA-R - 2A - Red alt. in Pog, Tower Rd, near N quad body - WC Sec 15, 1E, 8S.

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" ✓ 5 ~~[illegible] Sec. 23 Dump Reddish clay, near mine, [illegible]~~

" 6 Reddish clay from dump near "mine" at Sec. 23, 9S, 1E

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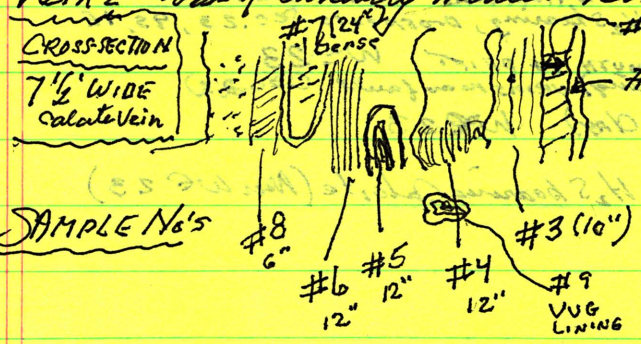

LOCATION (N. of W. of Lincoln Pt road ~ 1 mile)

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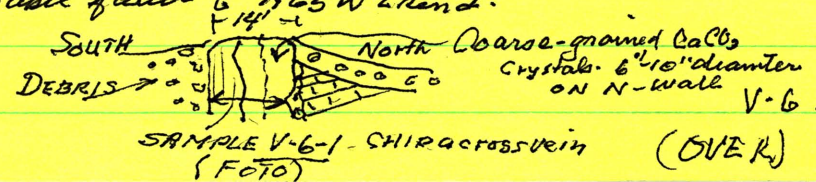
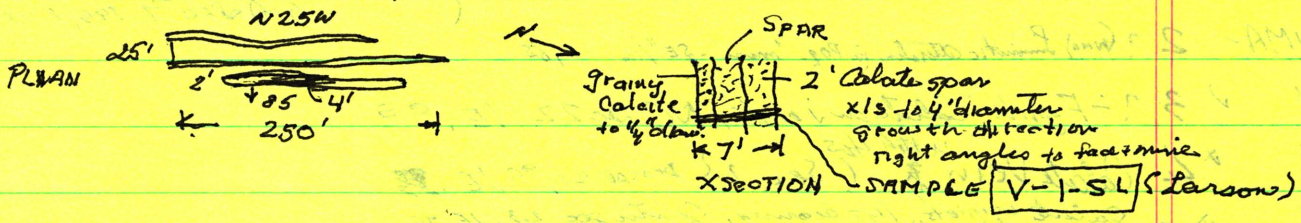


(OVER)

Vein (V-1) (Cedarstown) - Chip Sample of 8' vein, 150' below surface

V-2a Mammilary coating on coarse xls of transparent $CaCO_3$ (150' depth from γ_3)

Larson QUARRY (Envirotech) - Upper Level - 3 calcite veins exposed



Sample of Bird Island Beach Gravels (Tufa-like)

" of limonitized tufa from so. side of island

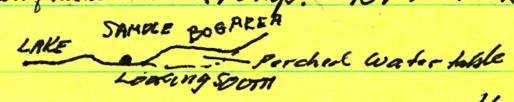
Sample - Tufa - Lincoln Pt - east side

Sample 1 - (Qpc.) SE 1/4 Sec. 12 (Li Pt Quad)

2 - (Qps) NW 1/4 7 (Li Pt Quad)

3 (Qpc) NC-18 (Li Pt Quad)

Sample Larson Water well, early mine (Temp. ~104°F (~40°C) (corrosive to metal pipes)

Sample UC-544 

Sample O-2 - Ozurch foss. blue lo. NE 1/4 WMTN

O-3 Gray R-qtzt - Pog NE 1/4 WMTN

WM-1-R. Bright Red Clay zone Sec 15 Road Turn - WMTN

Sample R-50 Red FeOx (Alt. Ls.) Just south of Quad. bdry 7.0' thk.

P-4 SW 1/4 15 Just off (N) WMTN. Rd) - Pit with alteration in Mgls FeOx

✓ Sample A-1 Shaft (Covered) FeOx from dump WC Sec 27 WMTN

✓ " A-4 Calcite alteration (H_2S bearing, prospects Sec. 23, 9S, 1E

Sample (Brad. fossils near mouth of drift WC 23

✓ Sample A-5 - Calcite (H_2S bearing) veins near fault (Sec 23)

✓ Sample A-6 (Dump Reddish Clay) WC 23

✓ Sample A-7 (White grainy H_2S bearing Calcite (Near WC 23)

Fossils No.

WMF-1
2
3
4
5
6
7
8
9
10 (A.B), NE, Section 3
? 11 SE 1/4 1/4 Sec. 16, 1E, 8S
12 NE, Section 34
13 NE, Section 34
14 NE, Section 34
15 section 16, NE
16 Section 15 (Md Form.)
17 SE corner, Section 9
18, SW corner, Section 10
19 SW corner, Section 10
20, NW, Section 10
21, NW, Section 10
22 ~~(No)~~ NE, Section 34
23 NW, Section 22
24 (A.B) Section 21
25 (A.B) Section 21
26, section 28
27 Section 28
28 Between Sec. 28 & 33

WMF-29, Section 28 & 33
30, Section 28 & 33
31, Section 33
~~32~~ (No)
~~33~~ (A.B) ~~SWSW, Section 33~~ No.
34 (A.B) SWSW Section 33
35 SE, Section 32
36, SE, Section 32
37 NE, section 8
38 NE, Section 8
39 E, Section 9
40 E, Section 9
41 S, Section 9
42 SE, Section 34
43 ..
44 ..
45 ..
46 S, Section 3
47 ..
48 ..
49 ..

WMF-50 Homcorado, EC8, 9S-1E.
51 E, Section 5
52 S, Section 22
53 S, .. 22

ACME ANALYTICAL LABORATORIES LTD.

852 E. Hastings St., Vancouver, B.C., CANADA V6A 1R6
Phone: (604) 253-3158 Toll free: 800-990-2263
Our GST # 100035377 RT

UTAH GEOLOGICAL SURVEY
State of Utah Natural Resources
Box 146100
Salt Lake City, UT
U.S.A. 84114-6100

File: **97-0878**
Date: Mar 24 1997

QTY	ASSAY	PRICE	AMOUNT
40	30 ELEMENT ICP ANALYSIS @	4.95	198.00
11	GEOCHEM WHOLE ROCK ICP ANALYSIS @	10.80	118.80
2	NEUTRON ACTIVATION - AU + 34 ELEMENTS @	10.80	21.60
	TOTAL U.S.$		**338.40**

Purchase Order #: 302048
Samples submitted by PAUL PROCTOR
INAA RESULT TO COME

Copy for Proctor

Approved for payment 3/31/97

COPIES 1

Please pay last amount shown. Return one copy of this invoice with payment.
TERMS: Net two weeks. 1.5 % per month charged on overdue accounts.

[COPY 2]

22 ~~20~~ February 1997

Acme Analytical Laboratories Ltd
250 H Street
Blaine WA 98230

Dear Manager:

In this package are samples for geochemical analyses. I have enclosed the following all bound together in separate groups:

27 Stream Sediment Samples, -80 m numbered WM I-27
Group ID ICP Analysis Est. Charge@ $5.30/ sample..... $143.10

11 Soil-rock samples numbered WMV1-4, WMV 5u & 5L
WMV 6-8 and WML-28 and WM-30
Whole Rock Analysis by ICP. Est. Charge@$11.55/sample. 126.50

15 Alteration Samples numbered WMA-1, WMAR-1a, WMA 3-5,
WMA-7-11, and WMA -13-16
Group ID ICP Analysis all samples (13) except
* WMA-4 and WMA-10 . Est. Charge@ /$5.30/sample 68.90

* Samples WMA-4 and WMA-10 by Neutron Activation
with Enhanced gold + 34 Elements. Est Chg @11.00/samp. 22.00
Est. Total 1st Shipment $360.50

At a later date 10 Water Samples will be mailed under the same Purchase Order Number. Sorry for the delay on these latter samples, but I will have to resample because of time elapsed since the original collection and possible precipitation of some elements in the containers.
Ten Samples of Water (to be sent) Est.Chg. @9.80/samp. $98.00

Please bill the $360.50 charge for the rock and soil analyses only to:

State of Utah
Natural Resources- Utah Geological Survey (P.O. No. 302048)
Attn. Grant Willis
Box 146100
Salt Lake City, Utah 84114-6100

Also send copy of analyses to same address: Attn. Grant Willis. A copy of the same analyses is also to be sent to my address below. Thank you for your service.

Sincerely,

Paul Dean Proctor
2949 Apache Way
Provo, Utah 84604

Enclosure

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Thank you

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Utah Geological Survey
Box 146100 · Salt Lake City, UT 84114-6100 · (801) 537-3300 · Fax (801) 537-3400

PURCHASE ORDER P.O. no. 302048

Vendor Acme Laboratories, Ltd. Vendor no. _____ Date 12/17/96 1099 ____
Address Vancouver City Vancouver State Canada Zip _____

Invoice	Quantity	Description/Stock no.	Unit Price	Amount
	29	Ht. Sediments-80m, 32 elements each-	5.30	153.70
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estimated Total amount $ 470.10

Contract no. _____ Emergency no. _____ Other _____

Fund	Org.	Account	Approp.	Activity	Grant	Project	Amount
100-560	3500	6139	RNE				

Ordered by _____ Date _____ Total amount $ 470.10
Approved by [signature] Date 12/17/96
Received by _____ Date _____
Explanation/Inventory location Lincoln Point West Mountain quads. Paul Proctor

DNR-1 White-Accounting Canary-Vendor Pink-Accounting/Return to issuer Goldenrod-Retain
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Paul Dean Proctor
c/o Department of Geology
Fax 378-8143
Provo, Utah 84602

Enclosure: Sample Map

Includes

27 Stream Sediment - 8 oz samples 10
Geoch. #'s ~~1-27~~ WM 1-27 143

11 Soil - rock samples - WMV 1-4 127 05
analysis
" 5L + 5L
Whole Rock ~~samples~~ " 6-8
15 alteration samples - ARWML - 28 + 30
79 50

WMA-1, WMAR-1A, WMA-2 2A, WMA-3-5
WMA-7-11, WMA 13-16
98 00

Separate Package
To Water Samples - 22 9 50

Total $ 448 10

BRIGHAM YOUNG
UNIVERSITY

20 February 1997

Acme Analytical Laboratories Ltd
250 H Street
Blaine WA 98230

Dear Manager:

In this package are samples for geochemical analyses. I have enclosed the following all bound together in separate groups:

27 Stream Sediment Samples, -80 m numbered WM I-27 Group ID ICP Analysis Est. Charge@ $5.30/ sample.....	$143.10
11 Soil-rock samples numbered WMV1-4, WMV 5u & 5L WMV 6-8 and WML-28 and WM-30 Whole Rock Analysis by ICP. Est. Charge@$11.55/sample.	126.50
15 Alteration Samples numbered WMA-I, WMAR-Ia, WMA 3-5, WMA-7-11, and WMA -13-16 Group ID ICP Analysis all samples (13) except WMA-1 and WMA-4 . Est. Charge@ /$5.30/sample	68.90
Samples WMA-I and WMA-4 by Neutron Activation with Enhanced gold + 34 Elements. Est Chg @11.00/samp.	22.00
Est. Total Ist Shipment	$360.50

At a later date 10 Water Samples will be mailed under the same Purchase Order Number. Sorry for the delay on these latter samples, but I will have to resample because of time elapsed since the original collection and possible precipitation of some elements in the containers.

Ten Samples of Water (to be sent) Est.Chg. @9.80/samp. $98.00

Please bill the $360.50 charge for the rock and soil analyses only to:

State of Utah
Natural Resources- Utah Geological Survey (P.O. No. 302048)
Attn. Grant Willis
Box 146100
Salt Lake City, Utah 84114-6100

Also send copy of analyses to same address: Attn. Grant Willis. A copy of the same analyses is also to be sent to my address below. Thank you for your service.

Sincerely,

Paul Dean Proctor
2949 Apache Way
Provo, Utah 84604

Enclosure

SAMPLES - ALT. MAINLY WMTN Quad

WMA-R - 2A - Red alt. in Pq, Tower Rd, near N quad bdry - WC Sec 15, 1E, 8S.

WMA-R - 1A - Redalt. of Pq 1s - Tower Rd, near N QUAD. bdry WC sec 15, 1E, 8S.

WMA - 1 Fe Ox alteration Sec. WEC 27, 1E, 9S Covered Shaft ~300' deep near canal } WMV - 4 Red Sandstone WC Sec. 7, T9S, R 2E

WMA - 2 ? (WMA) Limonitic alteration in Pq - 'mine' - SE 4/16, 1E, 8S

" ✓ 3 ? - Fgn. W. Calcite on joints, NC Sec 22, 1E, 8S

" ✓ 4 Calcite Vein with H2S (Sec. 23 Prospects, 9S, 1E.

" ✓ 5 Calcite veinlets, H2S bearing, Center sec. 23, 1E, 9S.

" 6 Reddish clay from dumps near "mine" at Sec. 23, 9S, 1E

" ✓ 7 White CaCO3 with H2S inclusions, near 'mine', WC Sec. 23, T9S, R1E

" 8 ? Red alteration, prospect, NE 4 22, 8S, 1E (WMWG)

" 9 ? Argillic alteration, p.t.so. of WMA 8, NE 4 22, 1E, 8S.

" ✓ 10 ~~White~~ ~~Red~~ Limonitic alt., replacement Cherty Pq at 25' shaft, SE 4/4 16, 1E, 8S.

" ✓ 11 ~~Red~~ ✓, sample limonitic alteration, SW 4 14 20' shaft in Mgb Ls, Limonitic Replacement of limestone

" 12 white ✓

" ✓ 13 Red alteration, NC Sec. 27, 1E, 8S.

" 15 White alteration in breccia, Pq, EC-27, 1E, 8S (near LB level - see sec.)

" ✓ 14 White alteration, prospect above LB level, EC Sec. 27, 1E, 8S.

" ✓ 16 Red alteration, below WM-15 - EC Sec. 27, 1E, 8S

Index

location

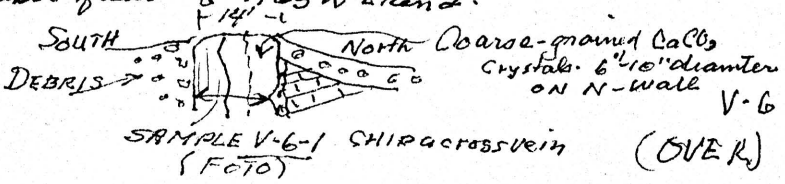
Calcite Veins

Vein 2 - West of Currently mined Vein 1 of Cedarstrow.

LOCATION (N. of W. of Lincoln Pt quad ~ 1 mile)

Vein 4 (To NW) Aragonite - brown - banded N20W, 45-55E; 8' wide at surface

White Calcite vein 14' wide NW of EXPL. PIT of DYNA in Probable fault of N65W Trend.



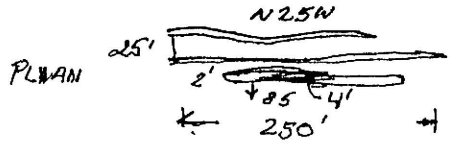
(OVER)

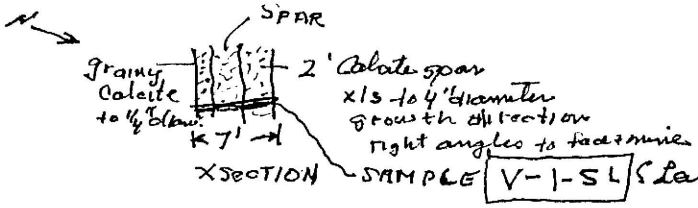
SAMPLES- WMTN- LINC PT

Vein (V-1) (Cedarstrom) - Chip SAMPLE of 8' vein, 150' below surface

V-2a mammilary coating on coarse xls of transparent $CaCO_3$ (150' depth fro

Larson QUARRY (Envirotech) - Upper Level - 3 calcite veins exposed





Sample of Bird ISLAND BEACH GRAVELS (Tufa-like)

" of limonitized tufa from so. side of island

Sample - Tufa - Lincoln Pt - east side

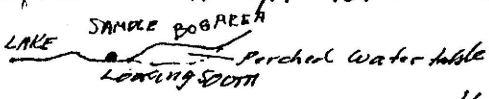
Sample I - (Qpc.) SE ¼ Sec. 12 (Lincoln Pt QUAD)

2 - (Qps) NW ¼ (Lincoln Pt QUAD)

3 (Qpc) NC-18 (Lincoln Pt QUAD)

SAMPLE LARSON Water well (early mine) (Temp. ~104°F (~40°C) (corrosive to metal pipes)

SAMPLE UC-544



SAMPLE O-2 - Ogurch foss. blow lo. NE ¼ WMTN

O-3 Gray R-qtzt - Pog NE ¼ WMTN

WM-1-R. Bright Red CLAY ZONE Sec 15 ROAD TURN - WMTN

Sample R-50 Red FeOx (ALT. Ls.) Just SOUTH of QUAD. bdry

R-4 SW ¼ 15 Just off (N) WMTN. RD) - Pit with ALTERATION IN MgLs FeOx

SAMPLE A-1 SHAFT (Covered) FeOx from DUMP WE Sec 27 WMTN

" A-4 Calcite alteration (H_2S bearing, prospects SEC. 23, 9S, 1E

SAMPLE (Brad. fossils near MOUTH of DRIFT WE 23

SAMPLE A-5 - Calcite (H_2S bearing) veins near fault (Sec 23)

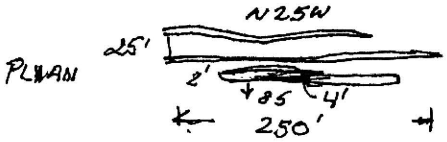
SAMPLE A-6 (DUMP Reddish Clay) WE 23

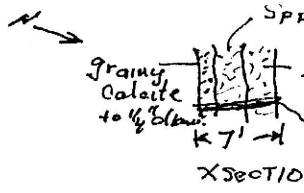
SAMPLE A-7 (White grainy H_2S bearing Calcite (Near WE 23)

Vein (V-1) (Cedarstown) - Chip sample of 8' vein, 150' below surface

V-2a mammilary coating on coarse xls of transparent $CaCO_3$ (150' depth from B_3)

Larson QUARRY (Envirotech) - Upper Level - 3 Calcite veins exposed





2' Calcite spar xls to 4' diameter growth direction right angles to tabular mass

SAMPLE V-1-SL (Larson)

Sample of Bird Island BEACH GRAVELS (Tufa-like)

" of limonitized tufa from so side of island

Sample - Tufa - Lincoln Pt - east side

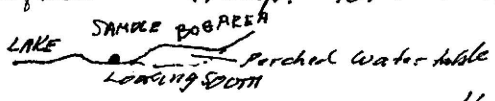
Sample I < (Qpc.) SE ¼ Sec. 12 (Li Pt QUAD)

2 - (Qps) NW ¼ 7 (Li Pt QUAD)

3 (Qpc) NC-18 (Li Pt QUAD)

SAMPLE Larson Water well, early mine (Temp. ~104°F (~40°C) corrosive to metal pipes)

SAMPLE UC-544

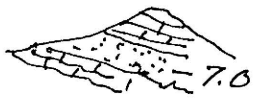


SAMPLE O-2 - Ogurek foss. blue ls. NE ¼ WMTN

O-3 Gray R-qtzt - Pog NE ¼ WMTN

WM-1-R. Bright Red CLAY ZONE Sec 15 ROAD TURN - WMTN

Sample R-50 Red FeOx (ALT. Ls.) Just south of QUAD. bdry



R-4 SW ¼ 15 Just off (N) WMTN. RD) - Pit with ALTERATION IN Mgls FeOx

SAMPLE A-1 SHAFT (Covered) FeOx from DUMP WE sec 27 WMTN

" A-4 Calcite alteration (H_2S bearing, prospects Sec. 23, 9S, 1E

SAMPLE (Brad. fossils near MOUTH OF ADIT WE 23

SAMPLE A-5 - Calcite (H_2S bearing) veins near fault (Sec 23)

SAMPLE A-6 (DUMP Reddish Clay) WE 23

SAMPLE A-7 (White grainy H_2S bearing Calcite (Near WE 23)

Location Index

Fossils No.

WMF-1

2

3

4

5

6

7

8

9

10 (A.B), NE, Section 3

11 SE/4 Sec. 16, 1E, 8S

12 NE, Section 34

13 NE, Section 34

14 NE, Section 34

15 section 16, NE

16 Section 15 (Md Form.)

17 SE corner, Section 9

18, SW corner, Section 10

19 SW corner, Section 10

20, NW, Section 10

21, NW, Section 10

22 ~~23~~ ~~(AB)~~ NE, Section 34

23 NW, Section 22

24 (A.B) Section 21

25 (A.B) Section 21

26, Section 28

27 Section 28

28 Between Sec. 28 & 33

WMF-29, Section 28 & 33

30, Section 28 & 33

31, Section 33

32 (No)

33 (AB) ~~SW.SW, Section 33~~

34 (A.B) SWSW Section 33

35 SE, Section 32

36, SE, Section 32

37 NE, section 8

38 NE, Section 8

39 E, Section 9

40 E, Section 9

41 S, Section 9

42 SE, Section 34

43 ''

44 ''

45 ''

46 S, Section 3

47 ''

48 ''

49 ''

WMF-50 Homestake, EC8, 9S-1E.

51 E, Section 5

52 S, Section 22

53 S, '' 22