60000715

Mining District File Summary Sheet

DISTRICT	Rosebud
DIST_NO	4010
COUNTY If different from written on document	Pershing
TITLE If not obvious	Rosebud Drill Hole File - Hole No. RS-488-99
AUTHOR	K. Allen; L. Mackedon
DATE OF DOC(S)	2000
MULTI_DIST Y / N? Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Mining Co. LLC; Hecla Mining Co.; Mother Lode Project
COMMODITY If not obvious	gold; silver
NOTES	Geochemistry; receipts; assay; total depth 525' 22p.

Keep docs at about 250 pages if no oversized maps attached (for every 1 oversized page (>11x17) with text reduce the amount of pages by ~25)

SS: DD 4/29/08
Initials Date

DB:
Initials Date

SCANNED:
Initials Date

Revised: 1/22/08

RS-488

6000 0715
4010

6000 0715

American Assay Laboratories

INVOICE

Remit To: P.O. Box11530
Reno, Nevada 89510
Phone NO.: 702-356-0606
Fax No.: 702-356-1413

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431-5902

(775) 356-0606

INVOICE NO: SP 0055769-IN
INVOICE DATE: 03/03/00

INVOICE TO:
THE ROSEBUD MINING CO., LLC
HECLA MINING COMPANY, OPERATOR
P.O. BOX 2610
WINNEMUCCA NV 89446

THE ROSEBUD MINING CO., LLC
HECLA MINING COMPANY, OPERATOR
P.O. BOX 2610
WINNEMUCCA NV 89446

CUSTOMER P.O.	PROJECT	TERMS
RS-488	MOTHER LODE	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
106	SAMPLES RECEIVED	.00	.00
1	NO PREPARATION REQUIRED	.00	.00
105	DRY/JAW CRUSH ENTIRE SAMPLE	2.30	241.50
34	EXCESSIVE WETNESS	1.00	34.00
105	SPLITTING CHARGE	2.40	252.00
105	RING/PUCK MILL	2.00	210.00
106	Au (1 A.T. FIRE ASSAY)	8.00	848.00
106	HYDROCHLORIC/NITRIC DIGESTION	2.00	212.00
106	Ag ANALYSES	1.00	106.00
105	COMPOSITE CHARGE	1.25	131.25
26	MULTI-ELEMENT ICP PACKAGE	13.75	357.50

86-2510-477

NET INVOICE:	2,392.25
LESS DISCOUNT:	837.29
FREIGHT:	.00
INVOICE TOTAL:	1,554.96

xAMERICAN ASSAY LABORATORIES
ANALYSIS REPORT SP055769

American Assay Laboratories

PO BOX 11530
RENO NV,USA
Ph.(775) 356-0606, Fax.(775) 356-1413

HECLA MINING COMPANY

COPIES TO : KURT ALLEN

:

:

:

CLIENT REFERENCE No: RS-488 RECEIVED : 28 JAN 2000

No. SAMPLES : 106 REPORTED : 6 MAR 2000

MAIN SAMPLE TYPE : DRILL CUTTINGS

NEVADA LEGISLATIVE DISCLAIMER :-
The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him and based on an evaluation of all engineering data which is available concerning any proposed project.

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055769

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-488

REPORTED : 6 MAR 2000

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-488 000-005	18		<0.001		<0.5	<0.02
RS-488 005-010	11		<0.001		<0.5	<0.02
RS-488 010-015	8		<0.001		<0.5	<0.02
RS-488 015-020	11	10	<0.001	<0.001	<0.5	<0.02
RS-488 020-025	12		<0.001		<0.5	<0.02
RS-488 025-030	8		<0.001		<0.5	<0.02
RS-488 030-035	10		<0.001		<0.5	<0.02
RS-488 035-040	9		<0.001		<0.5	<0.02
RS-488 040-045	6		<0.001		<0.5	<0.02
RS-488 045-050	<5		<0.001		<0.5	<0.02
RS-488 050-055	9		<0.001		<0.5	<0.02
RS-488 055-060	10		<0.001		<0.5	<0.02
RS-488 060-065	13		<0.001		<0.5	<0.02
RS-488 065-070	9	8	<0.001	<0.001	<0.5	<0.02
RS-488 070-075	9		<0.001		<0.5	<0.02
RS-488 075-080	10		<0.001		<0.5	<0.02
RS-488 080-085	8		<0.001		<0.5	<0.02
RS-488 085-090	8		<0.001		<0.5	<0.02
RS-488 090-095	6		<0.001		<0.5	<0.02
RS-488 095-100	9		<0.001		<0.5	<0.02
RS-488 100-105	13		<0.001		<0.5	<0.02
RS-488 105-110	11		<0.001		<0.5	<0.02
RS-488 110-115	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-488 115-120	8		<0.001		<0.5	<0.02
RS-488 120-125	11		<0.001		<0.5	<0.02

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ANALYSIS REPORT SP055769

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-488

REPORTED : 6 MAR 2000

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-488 125-130	10		<0.001		<0.5	<0.02
RS-488 130-135	<5		<0.001		<0.5	<0.02
RS-488 135-140	10		<0.001		<0.5	<0.02
RS-488 140-145	14		<0.001		<0.5	<0.02
RS-488 145-150	9		<0.001		<0.5	<0.02
RS-488 150-155	9		<0.001		<0.5	<0.02
RS-488 155-160	5		<0.001		<0.5	<0.02
RS-488 160-165	8		<0.001		<0.5	<0.02
RS-488 165-170	5		<0.001		<0.5	<0.02
RS-488 170-175	<5		<0.001		<0.5	<0.02
RS-488 175-180	8		<0.001		<0.5	<0.02
RS-488 180-185	12		<0.001		<0.5	<0.02
RS-488 185-190	<5		<0.001		<0.5	<0.02
RS-488 190-195	8		<0.001		<0.5	<0.02
RS-488 195-200	10		<0.001		<0.5	<0.02
RS-488 200-205	9		<0.001		<0.5	<0.02
RS-488 205-210	12		<0.001		<0.5	<0.02
RS-488 210-215	5	<5	<0.001	<0.001	<0.5	<0.02
RS-488 215-220	6		<0.001		<0.5	<0.02
RS-488 220-225	10		<0.001		<0.5	<0.02
RS-488 225-230	15		<0.001		<0.5	<0.02
RS-488 230-235	12		<0.001		<0.5	<0.02
RS-488 235-240	5		<0.001		<0.5	<0.02
RS-488 240-245	6		<0.001		<0.5	<0.02
RS-488 245-250	7		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055769

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-488

REPORTED : 6 MAR 2000

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-488 250-255	8		<0.001		<0.5	<0.02
RS-488 255-260	10		<0.001		<0.5	<0.02
RS-488 260-265	<5		<0.001		<0.5	<0.02
RS-488 265-270	<5		<0.001		<0.5	<0.02
RS-488 270-275	5		<0.001		<0.5	<0.02
RS-488 275-280	6		<0.001		<0.5	<0.02
RS-488 280-285	6		<0.001		<0.5	<0.02
RS-488 285-290	<5		<0.001		<0.5	<0.02
RS-488 290-295	5		<0.001		<0.5	<0.02
RS-488 295-300	118	104	0.003	0.003	<0.5	<0.02
RS-488 300-305	7		<0.001		<0.5	<0.02
RS-488 305-310	6		<0.001		<0.5	<0.02
RS-488 310-315	5	<5	<0.001	<0.001	<0.5	<0.02
RS-488 315-320	8		<0.001		<0.5	<0.02
RS-488 320-325	13		<0.001		<0.5	<0.02
RS-488 325-330	5		<0.001		<0.5	<0.02
RS-488 330-335	6		<0.001		<0.5	<0.02
RS-488 335-340	7		<0.001		<0.5	<0.02
RS-488 340-345	8		<0.001		<0.5	<0.02
RS-488 345-350	<5		<0.001		<0.5	<0.02
RS-488 350-355	<5		<0.001		<0.5	<0.02
RS-488 355-360	<5		<0.001		<0.5	<0.02
RS-488 360-365	7		<0.001		<0.5	<0.02
RS-488 365-370	<5		<0.001		<0.5	<0.02
RS-488 370-375	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055769

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-488

REPORTED : 6 MAR 2000

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-488 375-380	<5		<0.001		<0.5	<0.02
RS-488 380-385	10		<0.001		<0.5	<0.02
RS-488 385-390	<5		<0.001		<0.5	<0.02
RS-488 390-395	<5		<0.001		<0.5	<0.02
RS-488 395-400	<5		<0.001		<0.5	<0.02
RS-488 400-405	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-488 405-410	<5		<0.001		<0.5	<0.02
RS-488 410-415	<5		<0.001		<0.5	<0.02
RS-488 415-420	<5		<0.001		<0.5	<0.02
RS-488 420-425	<5		<0.001		<0.5	<0.02
RS-488 425-430	<5		<0.001		<0.5	<0.02
RS-488 430-435	<5		<0.001		<0.5	<0.02
RS-488 435-440	<5		<0.001		<0.5	<0.02
RS-488 440-445	<5		<0.001		<0.5	<0.02
RS-488 445-450	7		<0.001		<0.5	<0.02
RS-488 450-455	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-488 455-460	<5		<0.001		<0.5	<0.02
RS-488 460-465	<5		<0.001		<0.5	<0.02
RS-488 465-470	<5		<0.001		<0.5	<0.02
RS-488 470-475	<5		<0.001		<0.5	<0.02
RS-488 475-480	7		<0.001		<0.5	<0.02
RS-488 480-485	6		<0.001		<0.5	<0.02
RS-488 485-490	<5		<0.001		<0.5	<0.02
RS-488 490-495	<5		<0.001		<0.5	<0.02
RS-488 495-500	<5	<5	<0.001	<0.001	<0.5	<0.02

AMERICAN ASSAY LABORATORIES

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PROJECT : MOTHER LODE
REFERENCE : RS-488

REPORTED : 6 MAR 2000

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-488 500-505	<5		<0.001		<0.5	<0.02
RS-488 505-510	<5		<0.001		<0.5	<0.02
RS-488 510-515	<5		<0.001		<0.5	<0.02
RS-488 515-520	<5		<0.001		<0.5	<0.02
RS-488 520-525	<5		<0.001		<0.5	<0.02
75365	13930		0.406		117.3	3.42

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ANALYSIS REPORT SP055769

American Assay Laboratories

PO BOX 11530
RENO NV,USA
Ph.(775) 356-0606, Fax.(775) 356-1413

HECLA MINING COMPANY

COPIES TO : KURT ALLEN
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CLIENT REFERENCE No: RS-488 RECEIVED : 28 JAN 2000

No. SAMPLES : 106 REPORTED : 6 MAR 2000

MAIN SAMPLE TYPE : DRILL CUTTINGS

NEVADA LEGISLATIVE DISCLAIMER :-
The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him and based on an evaluation of all engineering data which is available concerning any proposed project.

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055769

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-488

REPORTED : 6 MAR 2000

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-488 000-005	18		<0.001		<0.5	<0.02
RS-488 005-010	11		<0.001		<0.5	<0.02
RS-488 010-015	8		<0.001		<0.5	<0.02
RS-488 015-020	11	10	<0.001	<0.001	<0.5	<0.02
RS-488 020-025	12		<0.001		<0.5	<0.02
RS-488 025-030	8		<0.001		<0.5	<0.02
RS-488 030-035	10		<0.001		<0.5	<0.02
RS-488 035-040	9		<0.001		<0.5	<0.02
RS-488 040-045	6		<0.001		<0.5	<0.02
RS-488 045-050	<5		<0.001		<0.5	<0.02
RS-488 050-055	9		<0.001		<0.5	<0.02
RS-488 055-060	10		<0.001		<0.5	<0.02
RS-488 060-065	13		<0.001		<0.5	<0.02
RS-488 065-070	9	8	<0.001	<0.001	<0.5	<0.02
RS-488 070-075	9		<0.001		<0.5	<0.02
RS-488 075-080	10		<0.001		<0.5	<0.02
RS-488 080-085	8		<0.001		<0.5	<0.02
RS-488 085-090	8		<0.001		<0.5	<0.02
RS-488 090-095	6		<0.001		<0.5	<0.02
RS-488 095-100	9		<0.001		<0.5	<0.02
RS-488 100-105	13		<0.001		<0.5	<0.02
RS-488 105-110	11		<0.001		<0.5	<0.02
RS-488 110-115	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-488 115-120	8		<0.001		<0.5	<0.02
RS-488 120-125	11		<0.001		<0.5	<0.02

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ANALYSIS REPORT SP055769

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REFERENCE : RS-488

REPORTED : 6 MAR 2000

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-488 125-130	10		<0.001		<0.5	<0.02
RS-488 130-135	<5		<0.001		<0.5	<0.02
RS-488 135-140	10		<0.001		<0.5	<0.02
RS-488 140-145	14		<0.001		<0.5	<0.02
RS-488 145-150	9		<0.001		<0.5	<0.02
RS-488 150-155	9		<0.001		<0.5	<0.02
RS-488 155-160	5		<0.001		<0.5	<0.02
RS-488 160-165	8		<0.001		<0.5	<0.02
RS-488 165-170	5		<0.001		<0.5	<0.02
RS-488 170-175	<5		<0.001		<0.5	<0.02
RS-488 175-180	8		<0.001		<0.5	<0.02
RS-488 180-185	12		<0.001		<0.5	<0.02
RS-488 185-190	<5		<0.001		<0.5	<0.02
RS-488 190-195	8		<0.001		<0.5	<0.02
RS-488 195-200	10		<0.001		<0.5	<0.02
RS-488 200-205	9		<0.001		<0.5	<0.02
RS-488 205-210	12		<0.001		<0.5	<0.02
RS-488 210-215	5	<5	<0.001	<0.001	<0.5	<0.02
RS-488 215-220	6		<0.001		<0.5	<0.02
RS-488 220-225	10		<0.001		<0.5	<0.02
RS-488 225-230	15		<0.001		<0.5	<0.02
RS-488 230-235	12		<0.001		<0.5	<0.02
RS-488 235-240	5		<0.001		<0.5	<0.02
RS-488 240-245	6		<0.001		<0.5	<0.02
RS-488 245-250	7		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055769

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CLIENT : HECLA MINING COMPANY
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REFERENCE : RS-488

REPORTED : 6 MAR 2000

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-488 250-255	8		<0.001		<0.5	<0.02
RS-488 255-260	10		<0.001		<0.5	<0.02
RS-488 260-265	<5		<0.001		<0.5	<0.02
RS-488 265-270	<5		<0.001		<0.5	<0.02
RS-488 270-275	5		<0.001		<0.5	<0.02
RS-488 275-280	6		<0.001		<0.5	<0.02
RS-488 280-285	6		<0.001		<0.5	<0.02
RS-488 285-290	<5		<0.001		<0.5	<0.02
RS-488 290-295	5		<0.001		<0.5	<0.02
RS-488 295-300	118	104	0.003	0.003	<0.5	<0.02
RS-488 300-305	7		<0.001		<0.5	<0.02
RS-488 305-310	6		<0.001		<0.5	<0.02
RS-488 310-315	5	<5	<0.001	<0.001	<0.5	<0.02
RS-488 315-320	8		<0.001		<0.5	<0.02
RS-488 320-325	13		<0.001		<0.5	<0.02
RS-488 325-330	5		<0.001		<0.5	<0.02
RS-488 330-335	6		<0.001		<0.5	<0.02
RS-488 335-340	7		<0.001		<0.5	<0.02
RS-488 340-345	8		<0.001		<0.5	<0.02
RS-488 345-350	<5		<0.001		<0.5	<0.02
RS-488 350-355	<5		<0.001		<0.5	<0.02
RS-488 355-360	<5		<0.001		<0.5	<0.02
RS-488 360-365	7		<0.001		<0.5	<0.02
RS-488 365-370	<5		<0.001		<0.5	<0.02
RS-488 370-375	<5		<0.001		<0.5	<0.02

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-488 375-380	<5		<0.001		<0.5	<0.02
RS-488 380-385	10		<0.001		<0.5	<0.02
RS-488 385-390	<5		<0.001		<0.5	<0.02
RS-488 390-395	<5		<0.001		<0.5	<0.02
RS-488 395-400	<5		<0.001		<0.5	<0.02
RS-488 400-405	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-488 405-410	<5		<0.001		<0.5	<0.02
RS-488 410-415	<5		<0.001		<0.5	<0.02
RS-488 415-420	<5		<0.001		<0.5	<0.02
RS-488 420-425	<5		<0.001		<0.5	<0.02
RS-488 425-430	<5		<0.001		<0.5	<0.02
RS-488 430-435	<5		<0.001		<0.5	<0.02
RS-488 435-440	<5		<0.001		<0.5	<0.02
RS-488 440-445	<5		<0.001		<0.5	<0.02
RS-488 445-450	7		<0.001		<0.5	<0.02
RS-488 450-455	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-488 455-460	<5		<0.001		<0.5	<0.02
RS-488 460-465	<5		<0.001		<0.5	<0.02
RS-488 465-470	<5		<0.001		<0.5	<0.02
RS-488 470-475	<5		<0.001		<0.5	<0.02
RS-488 475-480	7		<0.001		<0.5	<0.02
RS-488 480-485	6		<0.001		<0.5	<0.02
RS-488 485-490	<5		<0.001		<0.5	<0.02
RS-488 490-495	<5		<0.001		<0.5	<0.02
RS-488 495-500	<5	<5	<0.001	<0.001	<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055769

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-488

REPORTED : 6 MAR 2000

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-488 500-505	<5		<0.001		<0.5	<0.02
RS-488 505-510	<5		<0.001		<0.5	<0.02
RS-488 510-515	<5		<0.001		<0.5	<0.02
RS-488 515-520	<5		<0.001		<0.5	<0.02
RS-488 520-525	<5		<0.001		<0.5	<0.02
75365	13930		0.406		117.3	3.42

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CLIENT:	*HECLA MINING CO.*
CLIENT REF:	KURT ALLEN
AAL REF:	Sp55769
METHOD:	AAL03-0

ELEMENT	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Se	Sr	Te	Th	Ti	Tl	U	V	W	Zn
SAMPLES	ppb	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
RS-488 000-020	41	0.78	4.3	1.8	5	58	0.19	0.3	0.07	1.7	4	7.33	1.6	4.5	10	0.15	50.6	0.1	439	2.11	0.028	2.7	0.02	20.21	< .01	1.08	0.2	26.4	< .02	15.6	0.027	0.1	2.4	17	0.9	73.9
RS-488 020-040	57	0.66	2.5	1.1	3	35.8	0.11	0.32	0.16	0.9	5.5	5.94	1.41	4.3	11	0.15	54.9	0.07	858	2.38	0.036	2.1	0.012	21.19	< .01	0.76	0.2	29.8	< .02	16.9	0.016	0.05	2.3	10	0.7	80.4
RS-488 040-060	46	0.66	2.4	1.2	4	23.9	0.07	1.07	0.13	0.9	3.8	5.77	1.48	4.3	10	0.15	57.4	0.06	920	2.49	0.041	2.3	0.012	26.18	< .01	1.2	0.2	41.1	< .02	17.1	0.018	0.06	1.6	7	0.8	78
RS-488 060-080	36	0.79	4.5	1.3	3	32.6	0.12	0.43	0.06	1.1	4	4.44	1.54	4.9	22	0.17	47.1	0.07	463	1.77	0.034	1.9	0.011	18.72	< .01	3.28	0.2	32.9	< .02	16	0.018	0.07	1	8	0.9	77.1
RS-488 080-100	47	0.88	2.8	0.9	2	49.5	0.22	0.19	0.06	1	2.9	3.95	1.52	5	21	0.18	38.3	0.07	273	1.87	0.029	1.6	0.01	17.69	< .01	4.03	0.1	27.5	< .02	14.6	0.019	0.08	1	12	0.8	74.4
RS-488 100-120	41	0.86	5.1	1.1	2	46.1	0.15	0.67	0.11	1.2	5.1	4.22	1.54	5.2	19	0.18	49.7	0.08	728	1.83	0.042	1.9	0.012	15.14	< .01	6.95	0.2	41.9	< .02	15.9	0.015	0.07	1.1	11	0.9	76.1
RS-488 120-140	39	1.03	9.5	1.6	2	43.3	0.14	0.56	0.14	1.1	4.8	5.27	1.62	5.8	28	0.22	51.4	0.08	612	2.31	0.067	2.1	0.01	13.9	< .01	2.13	0.1	45.2	0.02	16.2	0.02	0.09	1	6	0.8	79.5
RS-488 140-160	24	0.67	7.8	1.1	1	37.3	0.12	0.42	0.11	1.1	4.1	4.72	1.44	4.3	24	0.13	45.7	0.08	723	2.15	0.04	1.6	0.012	14.14	< .01	0.66	0.2	53.6	< .02	15.7	0.016	0.07	1.1	5	0.8	73.3
RS-488 160-180	18	0.66	5.6	0.9	2	117.3	0.09	0.23	0.11	1.7	4.7	6.12	1.57	3.8	52	0.12	39.1	0.09	671	1.69	0.032	2	0.016	9.45	< .01	0.63	0.1	47.2	< .02	14.6	0.014	0.07	1.3	12	0.7	75.9
RS-488 180-200	25	0.8	4.7	0.8	1	63.5	0.22	0.4	0.12	2	3.5	5.26	1.72	4.4	45	0.12	35.8	0.11	444	1.38	0.034	2	0.015	16.71	< .01	0.6	0.1	70.6	< .02	14	0.009	0.07	1.7	11	0.6	74.2
RS-488 200-220	28	0.78	5.8	1.3	1	57.5	0.25	0.45	0.05	2.1	4.5	5.29	1.77	4.4	35	0.13	26.5	0.11	407	1.44	0.041	2.3	0.021	11.78	< .01	0.62	< .1	68.6	< .02	12.3	0.01	0.09	1.7	11	0.7	68.7
RS-488 220-240	25	0.97	6.1	1.7	1	87.9	0.42	0.6	0.15	2.6	3.6	4.01	1.83	5.3	25	0.14	19.6	0.14	477	1.02	0.043	1.8	0.014	14.06	< .01	0.61	< .1	94.8	0.02	11.8	0.007	0.13	1.6	11	0.6	77.8
RS-488 240-260	38	1.09	3.2	1.6	2	57.8	0.27	0.62	0.33	4.8	4.7	6.4	2.74	5.4	23	0.18	36.4	0.18	661	1.15	0.071	2.5	0.053	13.04	< .01	0.54	0.2	120.6	< .02	10.8	0.014	0.21	2.6	20	0.3	73.1
RS-488 260-280	110	1.17	2.5	2.1	1	146.9	0.15	0.71	0.24	6.8	5.6	10.95	3.42	5.7	28	0.2	42.6	0.24	329	1.05	0.087	3	0.117	17.85	< .01	0.47	< .1	167.3	< .02	10	0.025	0.32	2.4	25	0.3	74.7
RS-488 280-300	68	0.59	4.5	28.4	2	52.2	0.03	0.9	0.78	6.6	6.7	12.45	3.22	4	13	0.16	24.6	0.16	1498	1.98	0.078	3.4	0.09	11.93	< .01	0.87	0.1	66.3	< .02	8.6	0.054	0.17	2.6	23	0.9	72.6
RS-488 300-320	57	0.5	6.2	1.7	3	58.4	0.02	1.17	0.2	8.1	8.2	12.28	3.65	4	20	0.16	25.3	0.17	1418	2.08	0.074	3.8	0.098	15.14	< .01	0.83	0.1	53.2	< .02	8.8	0.065	0.16	2.7	27	0.8	83.2
RS-488 320-340	108	1.1	4	1.1	< 1	89.9	0.1	1.16	0.32	9	9.2	13.14	3.55	5.6	18	0.2	29.8	0.43	948	0.98	0.148	3.9	0.122	15.92	< .01	0.59	0.1	147.3	< .02	7.6	0.034	0.14	5.5	28	0.2	96.5
RS-488 340-360	141	1.44	5.9	1.7	< 1	105.7	0.09	0.9	0.51	9.1	8.8	13.97	3.43	7.3	27	0.21	33.4	0.69	624	0.81	0.163	3.9	0.117	42.06	< .01	0.56	0.1	167.5	< .02	7.7	0.03	0.15	4.6	29	< .2	117.8
RS-488 360-380	102	1.11	6.4	5	6	106.2	0.06	0.98	0.17	9.2	8.9	13.5	4.43	6.8	28	0.27	28.1	0.46	787	1.6	0.162	4.5	0.122	26.6	< .01	1.03	0.1	102.3	< .02	7.1	0.057	0.16	5.7	35	0.4	95.9
RS-488 380-400	86	1.04	6.8	3.5	8	127.3	0.04	1.24	0.26	8.7	13.6	18.22	4.7	5.7	22	0.38	27.8	0.33	1239	2.97	0.229	6.5	0.107	21.91	< .01	0.91	0.2	81.5	< .02	8.5	0.083	0.18	2.8	34	0.7	91.8
RS-488 400-420	87	0.88	7.3	2.1	4	117.2	0.03	1.02	0.52	8.7	7.7	11.99	3.93	5.1	21	0.31	27.7	0.22	828	2.02	0.177	3.9	0.112	11.63	< .01	0.68	0.1	80.8	< .02	8.4	0.077	0.18	3.4	30	0.6	101.9
RS-488 420-440	57	0.57	9.5	2.5	4	90	< .02	0.9	0.19	9.1	8	11.04	3.97	4.1	14	0.22	27	0.14	922	2.42	0.115	4.1	0.117	11.94	< .01	0.92	0.2	60.8	< .02	8.9	0.083	0.15	3.1	30	0.8	102.3
RS-488 440-460	66	0.55	9.6	1.4	4	93.4	< .02	0.73	0.13	9.1	7.6	9.92	3.79	3.9	16	0.21	24.8	0.14	680	2.22	0.116	3.9	0.114	9.38	< .01	0.84	0.2	57	< .02	8.8	0.088	0.14	3.2	31	1	106.5
RS-488 460-480	64	0.55	7.7	1.4	5	102	< .02	0.79	0.12	8.8	9.5	14.4	3.82	3.9	18	0.23	24.8	0.17	750	2.3	0.116	4.1	0.114	9.33	< .01	0.82	0.2	56.6	< .02	8.7	0.091	0.15	3	29	1.2	107.7
RS-488 480-500	112	0.74	6.8	1.7	2	109.1	0.08	1.09	0.18	9.5	8.5	14.95	3.99	4.6	17	0.21	26.4	0.35	1186	2.3	0.148	4.4	0.115	10.16	< .01	0.75	0.2	83	< .02	8.3	0.123	0.13	2.7	29	1.2	105.8
RS-488 500-525	120	1.44	3.7	1.7	1	81.2	0.05	1.05	0.24	9.1	4.7	9.9	3.53	6.8	17	0.26	29.7	0.78	918	0.68	0.246	3	0.117	17.36	< .01	0.39	0.1	186.2	0.02	7	0.075	0.18	2.4	24	0.2	109.6
STANDARD DS2	240	1.69	56.8	217.2	2	146.4	11.23	0.52	10.67	11.4	156.3	124.03	2.97	6.1	250	0.16	16.4	0.59	810	14.89	0.034	34.4	0.087	33.33	0.03	9.52	2.2	27.5	1.99	3.8	0.092	1.86	19.1	72	6.6	157

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CLIENT REF:	KURT ALLEN
AAL REF:	Sp55769
METHOD:	AAL03-0

ELEMENT	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Se	Sr	Te	Th	Ti	Tl	U	V	W	Zn
SAMPLES	ppb	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
RS-488 000-020	41	0.78	4.3	1.8	5	58	0.19	0.3	0.07	1.7	4	7.33	1.6	4.5	10	0.15	50.6	0.1	439	2.11	0.028	2.7	0.02	20.21	< .01	1.08	0.2	26.4	< .02	15.6	0.027	0.1	2.4	17	0.9	73.9
RS-488 020-040	57	0.66	2.5	1.1	3	35.8	0.11	0.32	0.16	0.9	5.5	5.94	1.41	4.3	11	0.15	54.9	0.07	858	2.38	0.036	2.1	0.012	21.19	< .01	0.76	0.2	29.8	< .02	16.9	0.016	0.05	2.3	10	0.7	80.4
RS-488 040-060	46	0.66	2.4	1.2	4	23.9	0.07	1.07	0.13	0.9	3.8	5.77	1.48	4.3	10	0.15	57.4	0.06	920	2.49	0.041	2.3	0.012	26.18	< .01	1.2	0.2	41.1	< .02	17.1	0.018	0.06	1.6	7	0.8	78
RS-488 060-080	36	0.79	4.5	1.3	3	32.6	0.12	0.43	0.06	1.1	4	4.44	1.54	4.9	22	0.17	47.1	0.07	463	1.77	0.034	1.9	0.011	18.72	< .01	3.28	0.2	32.9	< .02	16	0.018	0.07	1	8	0.9	77.1
RS-488 080-100	47	0.88	2.8	0.9	2	49.5	0.22	0.19	0.06	1	2.9	3.95	1.52	5	21	0.18	38.3	0.07	273	1.87	0.029	1.6	0.01	17.69	< .01	4.03	0.1	27.5	< .02	14.6	0.019	0.08	1	12	0.8	74.4
RS-488 100-120	41	0.86	5.1	1.1	2	46.1	0.15	0.67	0.11	1.2	5.1	4.22	1.54	5.2	19	0.18	49.7	0.08	728	1.83	0.042	1.9	0.012	15.14	< .01	6.95	0.2	41.9	< .02	15.9	0.015	0.07	1.1	11	0.9	76.1
RS-488 120-140	39	1.03	9.5	1.6	2	43.3	0.14	0.56	0.14	1.1	4.8	5.27	1.62	5.8	28	0.22	51.4	0.08	612	2.31	0.067	2.1	0.01	13.9	< .01	2.13	0.1	45.2	0.02	16.2	0.02	0.09	1	6	0.8	79.5
RS-488 140-160	24	0.67	7.8	1.1	1	37.3	0.12	0.42	0.11	1.1	4.1	4.72	1.44	4.3	24	0.13	45.7	0.08	723	2.15	0.04	1.6	0.012	14.14	< .01	0.66	0.2	53.6	< .02	15.7	0.016	0.07	1.1	5	0.8	73.3
RS-488 160-180	18	0.66	5.6	0.9	2	117.3	0.09	0.23	0.11	1.7	4.7	6.12	1.57	3.8	52	0.12	39.1	0.09	671	1.69	0.032	2	0.016	9.45	< .01	0.63	0.1	47.2	< .02	14.6	0.014	0.07	1.3	12	0.7	75.9
RS-488 180-200	25	0.8	4.7	0.8	1	63.5	0.22	0.4	0.12	2	3.5	5.26	1.72	4.4	45	0.12	35.8	0.11	444	1.38	0.034	2	0.015	16.71	< .01	0.6	0.1	70.6	< .02	14	0.009	0.07	1.7	11	0.6	74.2
RS-488 200-220	28	0.78	5.8	1.3	1	57.5	0.25	0.45	0.05	2.1	4.5	5.29	1.77	4.4	35	0.13	26.5	0.11	407	1.44	0.041	2.3	0.021	11.78	< .01	0.62	< .1	68.6	< .02	12.3	0.01	0.09	1.7	11	0.7	68.7
RS-488 220-240	25	0.97	6.1	1.7	1	87.9	0.42	0.6	0.15	2.6	3.6	4.01	1.83	5.3	25	0.14	19.6	0.14	477	1.02	0.043	1.8	0.014	14.06	< .01	0.61	< .1	94.8	0.02	11.8	0.007	0.13	1.6	11	0.6	77.8
RS-488 240-260	38	1.09	3.2	1.6	2	57.8	0.27	0.62	0.33	4.8	4.7	6.4	2.74	5.4	23	0.18	36.4	0.18	661	1.15	0.071	2.5	0.053	13.04	< .01	0.54	0.2	120.6	< .02	10.8	0.014	0.21	2.6	20	0.3	73.1
RS-488 260-280	110	1.17	2.5	2.1	1	146.9	0.15	0.71	0.24	6.8	5.6	10.95	3.42	5.7	28	0.2	42.6	0.24	329	1.05	0.087	3	0.117	17.85	< .01	0.47	< .1	167.3	< .02	10	0.025	0.32	2.4	25	0.3	74.7
RS-488 280-300	68	0.59	4.5	28.4	2	52.2	0.03	0.9	0.78	6.6	6.7	12.45	3.22	4	13	0.16	24.6	0.16	1498	1.98	0.078	3.4	0.09	11.93	< .01	0.87	0.1	66.3	< .02	8.6	0.054	0.17	2.6	23	0.9	72.6
RS-488 300-320	57	0.5	6.2	1.7	3	58.4	0.02	1.17	0.2	8.1	8.2	12.28	3.65	4	20	0.16	25.3	0.17	1418	2.08	0.074	3.8	0.098	15.14	< .01	0.83	0.1	53.2	< .02	8.8	0.065	0.16	2.7	27	0.8	83.2
RS-488 320-340	108	1.1	4	1.1	< 1	89.9	0.1	1.16	0.32	9	9.2	13.14	3.55	5.6	18	0.2	29.8	0.43	948	0.98	0.148	3.9	0.122	15.92	< .01	0.59	0.1	147.3	< .02	7.6	0.034	0.14	5.5	28	0.2	96.5
RS-488 340-360	141	1.44	5.9	1.7	< 1	105.7	0.09	0.9	0.51	9.1	8.8	13.97	3.43	7.3	27	0.21	33.4	0.69	624	0.81	0.163	3.9	0.117	42.06	< .01	0.56	0.1	167.5	< .02	7.7	0.03	0.15	4.6	29	< .2	117.8
RS-488 360-380	102	1.11	6.4	5	6	106.2	0.06	0.98	0.17	9.2	8.9	13.5	4.43	6.8	28	0.27	28.1	0.46	787	1.6	0.162	4.5	0.122	26.6	< .01	1.03	0.1	102.3	< .02	7.1	0.057	0.16	5.7	35	0.4	95.9
RS-488 380-400	86	1.04	6.8	3.5	8	127.3	0.04	1.24	0.26	8.7	13.6	18.22	4.7	5.7	22	0.38	27.8	0.33	1239	2.97	0.229	6.5	0.107	21.91	< .01	0.91	0.2	81.5	< .02	8.5	0.083	0.18	2.8	34	0.7	91.8
RS-488 400-420	87	0.88	7.3	2.1	4	117.2	0.03	1.02	0.52	8.7	7.7	11.99	3.93	5.1	21	0.31	27.7	0.22	828	2.02	0.177	3.9	0.112	11.63	< .01	0.68	0.1	80.8	< .02	8.4	0.077	0.18	3.4	30	0.6	101.9
RS-488 420-440	57	0.57	9.5	2.5	4	90	< .02	0.9	0.19	9.1	8	11.04	3.97	4.1	14	0.22	27	0.14	922	2.42	0.115	4.1	0.117	11.94	< .01	0.92	0.2	60.8	< .02	8.9	0.083	0.15	3.1	30	0.8	102.3
RS-488 440-460	66	0.55	9.6	1.4	4	93.4	< .02	0.73	0.13	9.1	7.6	9.92	3.79	3.9	16	0.21	24.8	0.14	680	2.22	0.116	3.9	0.114	9.38	< .01	0.84	0.2	57	< .02	8.8	0.088	0.14	3.2	31	1	106.5
RS-488 460-480	64	0.55	7.7	1.4	5	102	< .02	0.79	0.12	8.8	9.5	14.4	3.82	3.9	18	0.23	24.8	0.17	750	2.3	0.116	4.1	0.114	9.33	< .01	0.82	0.2	56.6	< .02	8.7	0.091	0.15	3	29	1.2	107.7
RS-488 480-500	112	0.74	6.8	1.7	2	109.1	0.08	1.09	0.18	9.5	8.5	14.95	3.99	4.6	17	0.21	26.4	0.35	1186	2.3	0.148	4.4	0.115	10.16	< .01	0.75	0.2	83	< .02	8.3	0.123	0.13	2.7	29	1.2	105.8
RS-488 500-525	120	1.44	3.7	1.7	1	81.2	0.05	1.05	0.24	9.1	4.7	9.9	3.53	6.8	17	0.26	29.7	0.78	918	0.68	0.246	3	0.117	17.36	< .01	0.39	0.1	186.2	0.02	7	0.075	0.18	2.4	24	0.2	109.6
STANDARD DS2	240	1.69	56.8	217.2	2	146.4	11.23	0.52	10.67	11.4	156.3	124.03	2.97	6.1	250	0.16	16.4	0.59	810	14.89	0.034	34.4	0.087	33.33	0.03	9.52	2.2	27.5	1.99	3.8	0.092	1.86	19.1	72	6.6	157

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
PHONE: (775) 356-0606
FAX: (775) 356-1413

CLIENT: *HECLA MINING CO.*
CLIENT REF: KURT ALLEN
AAL REF: Sp65769
METHOD: AAL03-0

ELEMENT SAMPLES	Ag ppb	Al %	As ppm	Au ppb	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sr ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
RS-488 000-020	41	0.78	4.3	1.8	5	58	0.19	0.3	0.07	1.7	4	7.33	1.6	4.5	10	0.15	60.6	0.1	439	2.11	0.028	2.7	0.02	20.21	<.01	1.08	0.2	26.4	<.02	15.6	0.027	0.1	2.4	17	0.9	73.9
RS-488 020-040	57	0.66	2.5	1.1	3	35.8	0.11	0.32	0.16	0.9	5.5	5.94	1.41	4.3	11	0.15	54.9	0.07	858	2.38	0.036	2.1	0.012	21.19	<.01	0.76	0.2	29.8	<.02	16.9	0.016	0.05	2.3	10	0.7	80.4
RS-488 040-060	46	0.66	2.4	1.2	4	23.9	0.07	1.07	0.13	0.9	3.8	5.77	1.48	4.3	10	0.16	67.4	0.06	920	2.49	0.041	2.3	0.012	26.18	<.01	1.2	0.2	41.1	<.02	17.1	0.018	0.06	1.6	7	0.8	76
RS-488 060-080	36	0.79	4.6	1.3	3	32.6	0.12	0.43	0.06	1.1	4	4.44	1.54	4.9	22	0.17	47.1	0.07	463	1.77	0.034	1.9	0.011	18.72	<.01	3.28	0.2	32.9	<.02	16	0.018	0.07	1	8	0.9	77.1
RS-488 080-100	47	0.88	2.8	0.9	2	49.5	0.22	0.19	0.06	1	2.9	3.95	1.52	5	21	0.18	38.3	0.07	273	1.87	0.029	1.6	0.01	17.69	<.01	4.03	0.1	27.5	<.02	14.6	0.019	0.08	1	12	0.8	74.4
RS-488 100-120	41	0.86	5.1	1.1	2	46.1	0.15	0.67	0.11	1.2	5.1	4.22	1.64	5.2	19	0.18	49.7	0.08	728	1.83	0.042	1.9	0.012	16.14	<.01	6.95	0.2	41.9	<.02	15.9	0.015	0.07	1.1	11	0.9	76.1
RS-488 120-140	39	1.03	9.5	1.6	2	43.3	0.14	0.66	0.14	1.1	4.8	5.27	1.62	5.8	28	0.22	51.4	0.08	612	2.31	0.067	2.1	0.01	13.9	<.01	2.13	0.1	45.2	0.02	16.2	0.02	0.08	1	6	0.8	79.5
RS-488 140-160	24	0.67	7.8	1.1	1	37.3	0.12	0.42	0.11	1.1	4.1	4.72	1.44	4.3	24	0.13	45.7	0.08	723	2.16	0.04	1.6	0.012	14.14	<.01	0.66	0.2	53.6	<.02	15.7	0.016	0.07	1.1	6	0.8	73.3
RS-488 160-180	18	0.66	5.6	0.9	2	117.3	0.09	0.23	0.11	1.7	4.7	6.12	1.67	3.8	52	0.12	39.1	0.09	671	1.69	0.032	2	0.016	9.45	<.01	0.63	0.1	47.2	<.02	14.6	0.014	0.07	1.3	12	0.7	75.9
RS-488 180-200	26	0.8	4.7	0.8	1	63.5	0.22	0.4	0.12	2	3.5	5.26	1.72	4.4	45	0.12	36.8	0.11	444	1.38	0.034	2	0.015	16.71	<.01	0.6	0.1	70.6	<.02	14	0.009	0.07	1.7	11	0.6	74.2
RS-488 200-220	28	0.78	5.8	1.3	1	67.5	0.26	0.46	0.05	2.1	4.5	5.29	1.77	4.4	36	0.13	26.5	0.11	487	1.44	0.041	2.3	0.021	11.78	<.01	0.62	<.1	68.6	<.02	12.3	0.01	0.09	1.7	11	0.7	68.7
RS-488 220-240	25	0.97	6.1	1.7	1	87.9	0.42	0.6	0.15	2.6	3.6	4.01	1.83	5.3	25	0.14	19.6	0.14	477	1.02	0.043	1.8	0.014	14.06	<.01	0.81	<.1	94.8	0.02	11.8	0.007	0.13	1.6	11	0.6	77.8
RS-488 240-260	38	1.06	3.2	1.6	2	57.8	0.27	0.62	0.33	4.8	4.7	6.4	2.74	5.4	23	0.18	36.4	0.18	661	1.15	0.071	2.5	0.053	13.04	<.01	0.54	0.2	120.6	<.02	10.8	0.014	0.21	2.6	20	0.3	73.1
RS-488 260-280	110	1.17	2.5	2.1	1	146.9	0.15	0.71	0.24	6.8	5.6	10.96	3.42	5.7	28	0.2	42.6	0.24	329	1.05	0.087	3	0.117	17.85	<.01	0.47	<.1	167.3	<.02	16	0.025	0.32	2.4	25	0.3	74.7
RS-488 280-300	68	0.59	4.5	28.4	2	62.2	0.03	0.9	0.78	6.6	6.7	12.45	3.22	4	13	0.16	24.6	0.16	1498	1.98	0.078	3.4	0.09	11.93	<.01	0.87	0.1	66.3	<.02	8.6	0.054	0.17	2.6	23	0.9	72.6
RS-488 300-320	67	0.5	6.2	1.7	3	58.4	0.02	1.17	0.2	8.1	8.2	12.28	3.66	4	20	0.16	25.3	0.17	1418	2.08	0.074	3.8	0.096	15.14	<.01	0.83	0.1	63.2	<.02	8.8	0.065	0.16	2.7	27	0.8	83.2
RS-488 320-340	108	1.1	4	1.1	<1	89.9	0.1	1.16	0.32	9	9.2	13.14	3.56	5.6	18	0.2	29.8	0.43	948	0.98	0.148	3.9	0.122	15.92	<.01	0.59	0.1	147.3	<.02	7.6	0.034	0.14	5.5	28	0.2	96.5
RS-488 340-360	141	1.44	5.9	1.7	<1	105.7	0.09	0.9	0.61	9.1	8.8	13.97	3.43	7.3	27	0.21	33.4	0.69	624	0.81	0.163	3.9	0.117	42.06	<.01	0.56	0.1	167.6	<.02	7.7	0.03	0.15	4.6	29	<.2	117.8
RS-488 360-380	102	1.11	6.4	5	6	106.2	0.06	0.98	0.17	9.2	8.9	13.5	4.43	6.8	28	0.27	28.1	0.46	787	1.6	0.162	4.5	0.122	26.6	<.01	1.03	0.1	102.3	<.02	7.1	0.067	0.16	5.7	36	0.4	95.9
RS-488 380-400	86	1.04	6.8	3.5	8	127.3	0.04	1.24	0.26	8.7	13.6	18.22	4.7	5.7	22	0.38	27.8	0.33	1239	2.97	0.229	6.5	0.167	21.91	<.01	0.91	0.2	81.5	<.02	8.5	0.083	0.18	2.8	34	0.7	91.8
RS-488 400-420	87	0.88	7.3	2.1	4	117.2	0.03	1.02	0.52	8.7	7.7	11.99	3.93	5.1	21	0.31	27.7	0.22	828	2.02	0.177	3.9	0.112	11.63	<.01	0.68	0.1	90.8	<.02	8.4	0.077	0.18	3.4	30	0.6	101.9
RS-488 420-440	57	0.67	9.5	2.5	4	90	<.02	0.9	0.19	9.1	8	11.04	3.97	4.1	14	0.22	27	0.14	922	2.42	0.115	4.1	0.117	11.94	<.01	0.92	0.2	60.8	<.02	8.9	0.083	0.15	3.1	30	0.8	102.3
RS-488 440-460	66	0.55	9.6	1.4	4	93.4	<.02	0.73	0.13	9.1	7.6	9.92	3.79	3.9	16	0.21	24.8	0.14	680	2.22	0.116	3.9	0.114	9.38	<.01	0.84	0.2	57	<.02	8.6	0.088	0.14	3.2	31	1	106.5
RS-488 460-480	64	0.56	7.7	1.4	5	102	<.02	0.79	0.12	8.8	9.5	14.4	3.82	3.9	18	0.23	24.8	0.17	750	2.3	0.116	4.1	0.114	9.33	<.01	0.82	0.2	56.6	<.02	8.7	0.091	0.15	3	28	1.2	107.7
RS-488 480-500	112	0.74	6.8	1.7	2	109.1	0.08	1.09	0.18	9.5	8.5	14.95	3.99	4.6	17	0.21	26.4	0.35	1186	2.3	0.148	4.4	0.115	10.16	<.01	0.76	0.2	83	<.02	8.3	0.123	0.13	2.7	29	1.2	105.8
RS-488 500-525	129	1.44	3.7	1.7	1	81.2	0.06	1.06	0.24	9.1	4.7	9.9	3.53	6.8	17	0.26	29.7	0.76	918	6.68	0.246	3	0.117	17.36	<.01	0.39	0.1	186.2	0.02	7	0.075	0.18	2.4	24	0.2	109.6
STANDARD DS2	240	1.69	56.8	217.2	2	146.4	11.23	0.62	10.67	11.4	156.3	124.03	2.97	6.1	260	0.16	16.4	0.59	810	14.89	0.034	34.4	0.067	33.33	0.03	9.52	2.2	27.5	1.98	3.8	0.092	1.86	19.1	72	6.6	157

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP055769

PO BOX 11530
RENO NV,USA
Ph.(775) 356-0606, Fax.(775) 356-1413

HECLA MINING COMPANY

COPIES TO : KURT ALLEN

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NSI

CLIENT REFERENCE No: RS-488 RECEIVED : 28 JAN 2000

No. SAMPLES : 106 REPORTED : 15 FEB 2000

MAIN SAMPLE TYPE : DRILL CUTTINGS

NEVADA LEGISLATIVE DISCLAIMER :-
The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him and based on an evaluation of all engineering data which is available concerning any proposed project.

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP055769

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-488

REPORTED : 15 FEB 2000

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-488 000-005	18		<0.001			
RS-488 005-010	11		<0.001			
RS-488 010-015	8		<0.001			
RS-488 015-020	11	10	<0.001	<0.001		
RS-488 020-025	12		<0.001			
RS-488 025-030	8		<0.001			
RS-488 030-035	10		<0.001			
RS-488 035-040	9		<0.001			
RS-488 040-045	6		<0.001			
RS-488 045-050	<5		<0.001			
RS-488 050-055	9		<0.001			
RS-488 055-060	10		<0.001			
RS-488 060-065	13		<0.001			
RS-488 065-070	9	8	<0.001	<0.001		
RS-488 070-075	9		<0.001			
RS-488 075-080	10		<0.001			
RS-488 080-085	8		<0.001			
RS-488 085-090	8		<0.001			
RS-488 090-095	6		<0.001			
RS-488 095-100	9		<0.001			
RS-488 100-105	13		<0.001			
RS-488 105-110	11		<0.001			
RS-488 110-115	<5	<5	<0.001	<0.001		
RS-488 115-120	8		<0.001			
RS-488 120-125	11		<0.001			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP055769

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-488

REPORTED : 15 FEB 2000

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-488 125-130	10		<0.001			
RS-488 130-135	<5		<0.001			
RS-488 135-140	10		<0.001			
RS-488 140-145	14		<0.001			
RS-488 145-150	9		<0.001			
RS-488 150-155	9		<0.001			
RS-488 155-160	5		<0.001			
RS-488 160-165	8		<0.001			
RS-488 165-170	5		<0.001			
RS-488 170-175	<5		<0.001			
RS-488 175-180	8		<0.001			
RS-488 180-185	12		<0.001			
RS-488 185-190	<5		<0.001			
RS-488 190-195	8		<0.001			
RS-488 195-200	10		<0.001			
RS-488 200-205	8		<0.001			
RS-488 205-210	12		<0.001			
RS-488 210-215	5	<5	<0.001	<0.001		
RS-488 215-220	6		<0.001			
RS-488 220-225	10		<0.001			
RS-488 225-230	15		<0.001			
RS-488 230-235	12		<0.001			
RS-488 235-240	5		<0.001			
RS-488 240-245	6		<0.001			
RS-488 245-250	7		<0.001			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP055769

CLIENT : HECLA MINING COMPANY
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REFERENCE : RS-488

REPORTED : 15 FEB 2000

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-488 250-255	8		<0.001			
RS-488 255-260	10		<0.001			
RS-488 260-265	<5		<0.001			
RS-488 265-270	<5		<0.001			
RS-488 270-275	5		<0.001			
RS-488 275-280	6		<0.001			
RS-488 280-285	6		<0.001			
RS-488 285-290	<5		<0.001			
RS-488 290-295	5		<0.001			
RS-488 295-300	118	104	0.003	0.003		
RS-488 300-305	7		<0.001			
RS-488 305-310	6		<0.001			
RS-488 310-315	5	<5	<0.001	<0.001		
RS-488 315-320	8		<0.001			
RS-488 320-325	13		<0.001			
RS-488 325-330	5		<0.001			
RS-488 330-335	6		<0.001			
RS-488 335-340	7		<0.001			
RS-488 340-345	8		<0.001			
RS-488 345-350	<5		<0.001			
RS-488 350-355	<5		<0.001			
RS-488 355-360	<5		<0.001			
RS-488 360-365	7		<0.001			
RS-488 365-370	<5		<0.001			
RS-488 370-375	<5		<0.001			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP055769

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REFERENCE : RS-488

REPORTED : 15 FEB 2000

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-488 375-380	<5		<0.001			
RS-488 380-385	10		<0.001			
RS-488 385-390	<5		<0.001			
RS-488 390-395	<5		<0.001			
RS-488 395-400	<5		<0.001			
RS-488 400-405	<5	<5	<0.001	<0.001		
RS-488 405-410	<5		<0.001			
RS-488 410-415	<5		<0.001			
RS-488 415-420	<5		<0.001			
RS-488 420-425	<5		<0.001			
RS-488 425-430	<5		<0.001			
RS-488 430-435	<5		<0.001			
RS-488 435-440	<5		<0.001			
RS-488 440-445	<5		<0.001			
RS-488 445-450	7		<0.001			
RS-488 450-455	<5	<5	<0.001	<0.001		
RS-488 455-460	<5		<0.001			
RS-488 460-465	<5		<0.001			
RS-488 465-470	<5		<0.001			
RS-488 470-475	<5		<0.001			
RS-488 475-480	7		<0.001			
RS-488 480-485	6		<0.001			
RS-488 485-490	<5		<0.001			
RS-488 490-495	<5		<0.001			
RS-488 495-500	<5	<5	<0.001	<0.001		

AMERICAN ASSAY LABORATORIES

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SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-488 500-505	<5		<0.001			
RS-488 505-510	<5		<0.001			
RS-488 510-515	<5		<0.001			
RS-488 515-520	<5		<0.001			
RS-488 520-525	<5		<0.001			
75365	13930		0.406			