60001315

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. RL-82
AUTHOR	K. Kenner; R. Grondin; N. Brewer
DATE OF DOC(S)	1990-1991
MULTI_DIST Y / (N?) Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Project; Coates Drilling; Lac Minerals (USA) Inc; Bondar-Clegg, Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 1065'; handwritten notes 45p. NOTB: Scan notes on inside of folder

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 5/19/08
Initials Date

DB: mdh
Initials Date

SCANNED:
Initials Date

Revised: 1/22/08

DRILL LOGS RL-82

Rosebud

6000 1315 4010

60001315

LAC MINERALS (U.S.A.) INC.

DRILL LOG SUMMARY SHEET

729

PROJECT ROSEBUD

DAM RC

HOLE NUMBER RL-82C TOTAL DEPTH 1065' LOGGED BY KLK Core

Date started April 30, 1990

Date completed 5-6-90

Initial bearing S54E

Initial inclination -65°

Elevation 5229.0

S.W. SIDE POZER HILL

Collar coordinates:

N 2,204,046.0

E 481,602.5

Contractor: COATES DRILLING

Drill Type: UNIVERSAL - ROTARY / CORE

Hole Size: hammer - 4¼" CORE: HQ

Drilling Conditions: good

Footage: Wet / Dry

Comments:

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLINATION	BEARING	X (Northing)	Y (Easting)	Z (Elevation)
0	50		-65°	S54E			
50	200		-68	S56E			
200	400		-72	S46E			
400	600		-76	S53E			
600	801		-76	S54E			
801	984		-77	S54E			
984	1065		-77	S56E			

LAC MINERALS (U.S.A.) INC.
ROSEBUD PROJECT

CHOCOLATE TUFF
BUD BRECCIA
BUD TUFF
BUD EPICLASTIC
BUD TUFF BRECCIA
DT DOZER WELDED TUFF

ARGILLIC
XX SILICIFICATION
OX OXIDIZED
DRUZY QUARTZ
XC CHALCEDONIC QUARTZ
XK STOCKWORK QUARTZ
P P P PROPYLITIZATION
Ca CALCITE

DRILL HOLE RL-82

Bedded Bud
LLT 0-~300'
KLK 1-92

LOGGED BY DMM

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	
									BROWN					0-5' OVERBURDEN	.001	<		
05									GREEN					5-70' GREEN LITHIC LAPILLI TUFF - BUD BX	<	<		
10														LOCALLY CLAY ALTERED	.001	<		
15															<	.11		
20									GREEN						<	<		
25															<	<		
30															<	0.10		
35															<	<		
40															.001	<		
45															<	<		
50															<	<		
55															<	<		
60															<	<		
65															<	<		
70									PURPLE BROWN					70-85' DK RED BR FN GR DIKE	<	<		
75														DARK RED BROWN FN GR DIKE	<	<		
80															<	<		
85									LT GREEN					90-445 GREEN LITHIC LAPILLI TUFF (INCL 5' RED)	<	<		
90									LT GREEN						<	<		
95															<	<		
00																		

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DRILL HOLE RL-82

LOGGED BY DAM

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	
									LT GREEN				n/a	(BUD Bx)	<	<		
105															<	<		
110															<	<		
115															<	<		
120															<	<		
125															<	<		
130															<	<		
135															.001	<		
140															.003	<		
145															.0006	<		
150															.004	0.11		
155															.003	<		
160									GREEN						.001	<		
165															<	<		
170															.010	0.10		
175															<	<		
180															<	<		
185															.003	<		
190															.002	<		
195															.003	0.15		
200																		

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DRILL HOLE RL-82

LOGGED BY DAM

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	
00									GREEN				±1%	(BUD Bx)	.002	<		
05															.001	<		
10															<	<		
15															.001	<		
20															.005	0.14		
25															<	<		
30															<	<		
35															<	<		
40															<	<		
45															.001	<		
50															.005	<		
55															.001	<		
60															<	<		
65															<	<		
70															.001	<		
75															<	<		
80															<	<		
85															<	<		
90															<	<		
95															.002	<		
00																		

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DRILL HOLE RL-82

LOGGED BY Dan

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	
									LT GREEN					(BUD FM)	.001	<		
305																		
310									LT GREEN PINK					310 – 445 FM GR LITHIC LBT LAPILLI TUFF to SRF LOCAL FINE GR. WELDED TUFF KLK 1-92 BUDS	<	<		
315															.001	<		
320															.001	<		
325															<	<		
330															<	<		
335															.001	<		
340															.009	<		
345															.006	<		
350									GRAY PINK						.019	<		
355									GREEN GREEN						.006	<		
360									GREEN						.006	<		
365															.009	<		
370	FAULT	XX Ba							WHITE						.005	<		
375									GREEN PINK						.021	<		
380															.003	<		
385									GRAY GREEN					380–385 VGRY FM GR TUFF?	.002	<		
390									LT GRAY GREEN						<	<		
395															<	<		
400															.001	<		

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DRILL HOLE RL-82

Page 5 of 5

LOGGED BY _____

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	
00									LT GREEN				1-2%		.001	<		
05															.002	<		
10									LT GREEN PINK						<	<		
15															<	<		
20															<	<		
25															<	<		
30															.005	<		
35															.013	<		
40									PINK						.025	<		
45														FINE GRAIN TUFF @ 1-2% SULFIDES 445-	0.025	<		
50														463.7	0.014	<		
55															.008	<		
60															.003	<		
65														END RC 463.7 START HQ CORE				
70																		
75																		
80																		
85																		
90																		
95																		
00																		

463.7

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
460						CORE BEGAN AT 463'						
						463 - 483.7 SPECKLED TUFF w/ local flow banding to fine grained, speckle: comprised of vesicle fill of chlorite, poss sericite to soft lt green to locally white waxy clay, weakly to mod pervasively bleached weak pervasive smectite alt, weakly fractured w/ chlorite (nontronite?) pyrite ± sericite and local amber chalcedony (MOD WELDED (SRM))					
465	100%	52°		1-2% disseminated PY			463-468				-.001	L
470	99						468-473				-.001	L
475							473-478				.003	L
480	97	52°				GRADATIONAL CONTACT (GRM)	478-483				-.001	L
485		56°				WELDED TUFF 483.7 - 501.5 Flow banded to fine grained tuff mottled lt green to lt peach weakly perv. bleached, weakly fractured ± filled by pyrite, sericite poss. nontronite, local druzy qtz, local calcite wk local bladed pyrite, fractures are perpendicular to flow banding	483-488				-.001	L
490												

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
		/34		±2% diss + VN + py		500 - 501.2 Flowbanded to FGT (cont.) fracturing varies from parelle or perpendicular to flow banding	488-493				<.001	L
495	100	/35°					493-498				<.001	L
500		/40°	75° / 40°			501.5 - 502 Breccia vein - mod well silicified w/ 3-4 stages of brecciation, locally vuggy w/ drusy qtz + blebby pyrite ; ↑ temp SiO2	498-501.5				<.001	L
	100			2+% diss + VN + cluster py			501.5-502				.002	L
505		/38				502 - 523.2 Flow banded fine grained tuff w/ predom peach coloration w/ very weak smectite alt. flow texture w/ fine bleaching enveloping (to green) weak to mod bleaching pervasively fractured parelle to and perpendicular to flow banding ; fracture fill = pyrite, sericite, poss chalcedony ± montronite (chlorite?)	502-507				.006	L
510		/45°	fract / 35°			511 - 523.2 mod strong fracturing ↑ w/ sample density in 6" ~ 20 VNs	507-512				.042	L
515	98						512-517				<.001	L
520		/60	fract / 45				517-522				.036	L
525	100		/30			523.2 - 532 — Fine grained tuff weakly flow banded, brecciated in place w/ milled frags weak perv. lt to medium green smectite alt	522-527				.005	L

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG	DESCRIPTION
530	100		fract/50°	~1% clust + VN ± diss py		525-532 FGT - Δiated; milled continued very weakly fractured w/ nontronite? + calcite ± pyrite fill w/ local wk white clays approaching contact w/ Laharic Δia - get weak micro Δiation VNS
535			80° micro Δ VN	±2% diss + VN py		532-579 LAHARIC BRECCIA mixed peach and weak green alteration clasts vary from 6" to microbrecciation size, predom clast supported w/ 4-5 stages of brecciation, heterolithic matrix is predom fine clasted micro breccia. weak peru. fracture veinlets w/ green waxy clay (±lap swirls) poss (nontronite) + pyrite; local calcite fract VNS are later stage; cross cut Δia, local fract w/in Δ clasts peru. clay alt
540	100		fract/50°			* 559.5-579 w/ ↑ peach coloration ↓ in nontronite in microbreccia matrix ↓ peru. smectite alt, w/ ↓ stages of Δiation ↓ 2ndary micro Δiation VNS
545			VN/42°			543.5-544.5 w/ $CaCO_3$ matrix Δia fill w/ fine bladed pyrite ± chalcedony
550	99					557-559.6 w/ strong fine grained tuff to flow banded tuff component w/ FGT (green) clasts matrix supported 559-559.6 w/ burgundy brown fine grained coloration similar to dike (sill) material in previous holes ↳ ie. relatively fresh
555	100+		fract/48°	+2% diss + VN py		
560						

ASSAYS					
Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
527-531				.013	L
531-534				.001	.14
534-539				.003	.13
539-544				.003	.24
544-549				.002	.14
549-554				-.001	-.10
554-559				.001	.11

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG
565	100		CaCO3 VN	± 2% clust + VN + diss py	
570	100		CaCO3 VN/38		
575			VN/57		
580	100		VN/78	3-4% diss + VN py	
585			VN/25		
590	98		VN/52		GOUGE
595			60° 23'		Gouge

DESCRIPTION

560 - 579 LAHARIC BRECCIA continued

564 - 579 ↑ perv. peach coloration ↓ perv. smectite alt ↓ stages of Δiation ; micro brecciation ; ↑ matrix support

565 - 568
weak to mod $CaCO_3$ VNS w/ poss sericite alt ; local weak pyrite diss + clusters

LBT

579 - 628.6 LITHIC TUFF – to volc. bxa

BUD TUFF BRECCIA, pervasive peach color ALTER. weak to mod perv. bleaching, poss WEAK pervasive silicification. Heterolithic, predom matrix rich ; locally lithic rich, mod fractured w/ pyrite, kaolinite, sericite, local $CaCO_3$, local translucent SiO_2 ; poss local marcasite ; fracture veins are predom later stage thus cross cutting primary Δiation, clasts vary from angular to rounded

NOT GREEN BUD
correct!
KLK

579 - 584.6 Poss hydrothermal Δia locally 4-5 stages brecciation, perv. peach w/ very weak local smectite alt of Δia clasts matrix comprised of SiO_2, local $CaCO_3$, Kaolinite sericite, pyrite ; local poss marcasite mod perv. silicified

588.7 - 588.9 intense white + gray clay gouge zone

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
559 564				-.001	-.10
564 569				-.001	-.10
569 574				-.001	-.10
574 579				-.001	-.10
579 584				.007	-.10
584 589				.007	.11
589 594				.005	-.10

7 LBT KLK

595- 628.6 (BVD) TUFF BRECCIA (CONT.
as described above w/ increase prominent mineralized vein fract up to 1/4" wide w/ Kaolinite chalcedony, sericite, pyrite ± marcasite ± local nontronite alt.

594.8 - 595.3 clay gouge + rubble contact @ ~60° to core axis w/ strong sericite alt + druzy qtz sulfide (py) VNS - locally vuggy

612 - 628.6 ↓ overall brecciation w/ ↑ flow banded to tuffaceous component

611.4 - 611.6 clay gouge + rubble contact ~ 80-85° to core axis strong sericite, Kaolinite ± pyrite in druzy vuggy qtz VNS

612.5 - 613.1 is a 6"-7" tuff frag - anomalous

618 - 625 more of a flow banded component w/ only intermittent Δiation

622 - 625 w/ well developed stockwork veins running virtually parelle to core axis

624.8 - 625.2 intense clay gouge sericite alt w/ pyrite ± local druzy qtz in rubble zone

628.6 - 645.5 Predom flow banded tuff described on following page

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
594-599				.012	-.10
599-604				.007	.18
604-609				.010	-.10
609-614				.008	-.10
614-619				.004	-.10
619-624				.005	-.10
624-629				.001	-.10

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
635	10	62	43 VN	3-4% diss + VN py local buck shot		628.6 - 645.5 Flow banded tuff, intermittently brecciated & verigated pervasively peach matrix rich w/ buff to locally slightly green clasts (+/- smectite alt) wk-mod perv. silic 634 - 643 mod strongly brecciated w/ 2-3 stages of brecciation, CLAST supported w/ local chalcedonic fill w/ fine disseminated sulfides w/ prominent fine bladed pyrite throughout & locally in buckshot cubic form local microbrecciation w/ translucent hint green waxy clay or altered sericite	629-634				.002	-.10
640	97		34 VN				634-639				.002	.14
645	99		36 VN	3-4% diss + VN py + marcasite		645.5 - 651 Fine grained tuff intermittently brecciated w/ 2+ stages Δ wk to mod perv. silicification, wk bl predom peach coloration w/ pronounced secondary stockwork veining up to 1/4" wide vugs w/ druzy qtz, white alt sericite ± Kaolinite, marcasite +/- pyrite fill	639-644				.004	-.10
650	100		30 VN				644-649				.302 .337 .32	.55
655			52 VN 50 VN	+/- 3% diss + VN py		651 - 666 FGT to FLOW banded tuff w/ 660 - 666 grading into verigated zoned bleached flow banded tuff predom peach coloration w/ green smectite alt intermittently from 651 to 659 perv. veining w/ pyrite + green waxy clay over sericite 658 - 660 predom FGT w/ finely diss short bladed sulfide 660 - 666 verigated semi vitrophric texture predom peach w/ bl to hint green smectite alt semi zebra strip mod fine stockworks w/ 1% pyrite translucent waxy clay and/or alt sericite	649-654				~~.001~~ .014	L
660	94		45 VN				654-659				.059	L
665			55/20°	+/- 4% diss + VN pyrite + gravasite		664.9 - 665 1" wide vein sitting @ 45° to core axis w/ druzy qtz - vuggy w/ sericite, SiO_2 ± Kaolinite, marcasite ± pyrite	659-664				.133 .202 .195	.26

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
670	100		30° VN	±3% diss +VN +buck shot py local blebs		666-677 Fine grained tuff weakly peru bleached lt buff to very weak marbling of lt green smectite? alt poss wk mottling - speckles of montronite or chlorite, mod strong pervasive veining w/ pyrite sericite poss lt green translucent waxy talc-like clay or is alt sericite + local marcasite	664-669				.236 .335 .236	.47
			VN 85° VN 35°				669-674				.400 .490 .445	.64
675			80° VN				674-677				.018	L
			22° VN	2-3% diss +VN py + marcasite		677-688 Poss. Hydrothermal breccia - predom composed of a speckled fine grained tuff - preferentially clay alt pervasively weakly to moderately silicified w/ ±3 stages of brecciation, matrix supported w/ ↑ temp SiO_2 w/ fine disem sulfides - translucent 677-682 w/ only pronounced veining containing translucent SiO_2, local druzy vuggy qtz + ±kaolinite ± white alt sericite, local touch o' montronite pyrite ± local montronite	677-682				2.19 2.65 2.42	3.07
680	100		45° VN									
	100						682-685				.024	L
685			VN 38°									
			56° VN				685-688				.012	L
690	100	65° Flo	22° VN	1-2% bleb + cube py diss +VN		688-788 FINE GRAINED TUFF local relict flow banding intermittently speckled due to preferential clay alt of feldspar phenos w/ in tuff weak to mod pervasive bleaching, intermittently variegated w/ smectite? alt w/ buff to weak local peach peru. alt weak to mod pervasive fracture veinlets filled with pyrite, kaolinite ± sericite weak peru. silicification, weak to mod peru argillic clay alt	686-693				.001	L
695			43° VN 68°				693-698				.002	L
700		SS Flo	1 to 2 VNS			698.2-700 w/ prominent peach alt - speckled 699-699.7 hydrothermal breccia zone matrix rich w/ ↑ temp SiO_2, druzy qtz VNS kaolinite + sericite + pyrite ± marcasite ~3 stgs Δiation, 2-3 stages stkwk qtz						

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
705	94	F10/35	60/VN	2-3% diss +VN +buck py	VOID	700-735 FINE GR TO SPECKLED TUFF CONTINUED 700-700.8 VOID 700.8-703 predom peach + green w/ intermittent hyarotherm. Δia VNS w/ str. silicif. +3 stgo Δiation w/ vuggy pockets of druzy qtz VNS w/ sericite pyrite ± wk kaolinite	698-703				.017	L
							703-708				.008	L
710	100	63/F10	30/VN				708-713				.005	L
715	95		VN/10	3% + buckshot diss +VN py		714-717 zone of ↑ fracturing and local micro breccia veins w/ local orange alt. enveloping VNS locally, ↑ buckshot pyrite	713-718				.002	.16
	100	F10/20	78	2-3% diss +VN +buck shot py								
720			/10 VN 75			717-735 predom. fine grained tuff w/ virtually nil to trace relict flow banding	718-723				.014	.72
725	93	F10/60					723-728				.008	L
730	98		/10 VN 55			733-735 ↑ fracturing, ↑ lessening texture green smectite? alt. ↑ buckshot pyrite	728-733				.008	.10
735			50/25 VN	30% buck + VN + diss py								

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
740	100		2½/VN 85	3-4% diss+ VN+ buck shot py		735-770 Speckled Fine Grained Tuff continued 735-740.5 with predom weak to mod peach alteration w/ weak pervasive silicification well fractured w/ SiO_2 duck butter alt sericite, pyrite local vuggy drusy qtz; local white kaolinite?	735-738				.01	-.10
				2%+ diss + VN + buck shot py			738-743				.015	.18
745	97		47/VN				743-748				.024	-.10
750						750-751.6 weak ↑ bleaching, weak pervasive silicification ↑ fracturing w/ local silicified microbrecciation VNS; ↑ buckshot py.	748-753				.01	.11
755	100		SS/VN 65				753-758				.011	.11
760	98	75/SS				760-767 ↑ pervasive bleaching, weak ↑ fracturing w/ pyritic stringers ± SiO_2 GIL 767 weak rubble fustication	758-763				.025	-.10
			10/SS VN									
765			VN/28				763-768				.02	.21
770	100											

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG	DESCRIPTION	Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
							ASSAYS					
770				2% ot diss +VN +buck shot py		770 - 788 FINE GRAINED SPECKLED TUFF CONTINUED w/ more prominent speckling due to preferential alt of feldspar phenos	768-773				.022	-.10
775	90		35° VII / 30°				773-778				.017	.28
			15			778-779 w/ ↑ fracturing w/ SiO2 fill w/ pyrite duck butter sericite alt & local microbrecciation						
780	87		75 VII				778-783				.118	-.10
785			40° VII			KRK	783-788				.014	-.10
790	56		35° VII	2-3% diss +VN +buck shot py + marcasite		788 - 801.6 SPECKLED TUFF BRECCIA - PEACH pervasively peach-orange to buff weakly to mod perv. silicified predom clast supported, locally 2-3 stages of brecciation w/ weak perv. clay alt + weakly fractured w/ local druzy qtz pyrite, sericite, local marcasite fill upper 5' w/ ~100% recovery lower 5' w/ <40-30% recovery - lots of "duck butter" (ie. alt sericite) what return there was - is rubble (793-798) 800.5-801 peach tuff breccia - very favorable peach alt silicified SiO2 rich matrix Δ's w/ vuggy druzy qtz w/ marcasite + duck butter	788-793				.013	-.10
795							793-798				.028	.18
800	68		75				798-801.6				.570	.83
	98		75	± 2% diss +VN +buck shot py		801.6 - 822.3 DUCK BUTTER FAULT GOUGE ZONE w/ local pyroclastic texture, however predom clay and sericite altered fault gouge w/ local weak to mod calcite vns + matrix fill	801.6-807				.172	.28
805	95											

805 - 822.3 DUCK BUTTER FAULT GOUGE CONT.

817 - 820 w/ strong sericite - (white shimmering) pervasive alteration

poor recovery throughout due to incompetense of gouge zone thus assay values remain in question - however favorable.

822 - 842

WELL BLEACHED FINE GRAINED TUFF BRECCIA Locally ↓ in brecciation, predom clast supported w/ local black SiO_2 rich matrix support w/ microbreccia fill, weakly to moderately fractured w/ pyrite, sericite ± kaolinite, local druzy qtz VNS, SiO_2 ± marcasite, microbrecciation fill, weak to mod pervasive silicification local rubble zones, recovery fair to good local perv. sericite ± kaolinite alt

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
807-812				.024	.11
812-817				.012	.11
817-822				.005	-.10
822-827				.005	-.10
827-832				.007	.23
832-837				.009	-.10
837-842				.010	-.10

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
			70° VN									
	20			+2% diss +VN py local bleach		842-855 FAULT GOUGE & BRECCIA ZONE Predominantly rubble, identifiable breccia composed of fine grained tuff possibly w/ welded Dozer tuff frags, breccia is predom clast supported w/ micro breccia fill, weakly to mod intermittently silicified, weak fracture veinlets w/ predom intense clay alt ± sericite alt gouge + rubble	842-847			.005	.10
845			43° VN									
	50						847-852				.005	.10
850												
	72		63° VN									
855			Shear/ Fracture 50° VN	2-3% diss +VN		855-861 Silicified breccia into Fine grained Dozer tuff w/ predominant 1" to 3" chalcedony veins w/ local micro brecciation, locally vuggy w/ duck butter alt sericite ± kaolinite + pyrite ± bladed sulfide, local orange fractures	852-857				.004	.32
	100		10°									
860							857-862				.005	.10
	100		40° VN	±2% diss +VN py		861-867.5 DOZER TUFF pervasively bleached weakly to mod perv. silicified - w/ local strong chalcedonic silicification, mod strong perv fracturing w/ pyrite, sericite ± kaolinite fill, local orange alt fractures						
865			VN/23°				862-867				.003	.10
			50° VN	1-2% diss +VN py		867.5-890 DOZER TUFF - densely welded intermittently bleached, weakly fractured w/ $CaCO_3$, local chalcedony, local sericite alt ± pyrite 867.5-867.8 breccia						
870			VN/20°				867-872				-.001	.10
	100											
875							872-877				-.001	.10

875-890 DOZER TUFF CONTINUED
w typical lt green coloration densely welded; weakly fractured

890-912 Pervasively bleached densely welded Dozer tuff locally brecciated moderatly to mod well fractured w/ pyrite ± lt green sericite or clay, locally fractures w/ orange alteration rim, wk local chalcedony vns ± local $CaCO_3$ vns

897-898 brecciated w/ local clay gouge assoc w/ fault Δia contact @ ~50° to core axis

905-915 zone of strong fracturing w/ intermittent breccia vns up to 1¼" wide clast supported w/ micro breccia matrix and local strong concentrations of pyrite w/in ½" veins/as matrix fill locally

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
877-882				<.001	<.10
882-887				.001	.13
887-892				.002	<.10
892-897				.001	.16
897-902				.001	.11
902-907				.001	<.10
907-912				<.001	<.10

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
915	100		12/VN 40/fract	±3% diss py ~1% diss py		910-912 Bleached fractured & brecciated Dozer continued 912-946.4 Light to medium sage green Dozer tuff "classic" densely welded, weakly to moderately fractured w/ local orange alteration fracture rims	912-917				<.001	<.10
920			78/VN 38 calc VN			920-921 weakly bleached w/ local Δia uno w/ $CaCO_3$ fill + local pyrite w/ local microbreccia uno	917-922				<.001	<.10
925	100		5+/10° calc VN				922-927				<.001	<.10
930			75				927-932				<.001	<.10
935	100		30/fract uns				932-937				<.001	<.10
940			20 60/fract uns		(Δ/Δ)	940-943 w/ local breccia uno w/ local microbreccia matrix fill wk $CaCO_3$ & pervasive orange rim fracture alteration	937-942				<.001	<.10
945	97						942-947				<.001	<.10

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG	DESCRIPTION
950	100		50 VN 35/55 fracts 15/ calc VN 45/ Anh VN 10° calcite VN 60 fract VN 50 fract VN	2% diss + VN py 1-2% diss + VN py ≤1% diss + VN py	A S A	946.4 - 964 Bleached Dozer Tuff well fractured w/ orange rim fracture alteration w/ green clay + pyrite ± $CaCO_3$ ± sericite fill 945-950 well fractured w/ orange rim alt w/ ↑ un ± diss pyrite 952 - 954 mod fracturing; local breccia unc w/ micro Δ in matrix w/ mod stv orange rim alteration 961-962 ↑ bleaching, fracturing; buckshot pyrite 964 - 1065 DOZER classic lt to medium green welded dozer tuff, weakly to moderately pervasively fractured w/ orange alt rims, poss local chlorite wt to tr pyrite, trace micro breccia unc
955						
960	100				S A	
965						
970	100				S A	
975						
980						

ASSAYS					
Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
947-952				.001	.10
952-957				.001	.10
957-962				.001	.10
962-967				.001	.10
967-972				.001	.10
972-977				.001	.10
977-982				.001	.10

DDLE # RL-82

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
980	100		85° VN	<1% diss +VN py		980-995.5 classic sage green Dozer Tuff weakly fractured						
985							982-987				<.001	<.10
990	100		12° VN; 40° CaCO3 VN			990-993 weak CaCO3 veining	987-992				<.001	<.10
995				1-2% diss +VN py		995.5-1000.5 Pervasively bleached Dozer poss. weakly silicified mod well fractured w/ mod strong associated CaCO3 + local pyrite	992-995.5				<.001	<.10
1000	100		30° CaCO3 VN	±1% diss +VN py			995.5-1000.5				<.001	.12
1005			10° sheeted VN			1005-1007 ↑ fracturing w/ orange reaction rims w/ chlorite? + pyrite fracture fill	1000.5-1006				<.001	<.10
1010	100		60° fracture				1006-1011				<.001	<.10
1015			fracture 12° 80°				1011-1016				<.001	<.10

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
1020	100		55/90 Stock; 48/VN	±1% diss +VN PY		1015-1065 DOZER TUFF continued very weakly bleached pervasively weakly to moderately fractured w/ chlorite, orange to burgundy alt + local $CaCO_3$ ± local chalcedony local breccia dks w/ microbreccia matrix fill	1016-1021				<.001	<.10
1025			63/70 VN				1021-1026				<.001	<.10
1030	100		70 VN				1026-1031				<.001	<.10
1035			90 Stock				1031-1036				<.001	<.10
1040	100		40 Stock VN				1036-1041				<.001	<.10
1045	70+		12/ Calcite VN			1045-1050 wk ↑ pervasive bleaching	1041-1046				<.001	<.10
1050							1046-1051				<.001	<.10

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION
1055	100		A/12 VN	1-2% diss + VN py		1050-1065 DOZER TUFF CONTINUED "classic" lt sage green welded tuff fractures w/ red burn alt + pyrite + local $CaCO_3$ + chlorite
			15/ fract VN			
1060	99					1060-1062 ↑ perv. fracturing w/ assoc. $CaCO_3$
			12/ fract VN			
1065						T.D.

ASSAYS					
Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
1051-1056				.001	.10
1056-1061				.001	.10
1061-1065				.001	.10

NEVADA GSI

MAY 29 1990

GEOCHEMICAL ANALYSIS REPORT

May 21, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 7219

GEOLOGIST: NATE BREWER
COPIES TO: SAME
COMPANY: LAC MINERALS
ANALYSIS: FIRE ASSAY FOR GOLD AND SILVER, WITH AN A.A. FINISH.

	Sample I.D.			Au o/t	Ag o/t
1.	RL-82C	531	534	0.001	0.14
2.	RL-82C	534	539	0.003	0.13
3.	RL-82C	539	544	0.003	0.24
4.	RL-82C	544	549	0.002	0.14
5.	RL-82C	549	554	-0.001	-0.10
6.	RL-82C	544	559	0.001	0.11
7.	RL-82C	559	564	-0.001	-0.10
8.	RL-82C	564	569	-0.001	-0.10
9.	RL-82C	569	574	-0.001	-0.10
10.	RL-82C	574	579	-0.001	-0.10
11.	RL-82C	579	584	0.007	-0.10
12.	RL-82C	584	589	0.007	0.11
13.	RL-82C	589	594	0.005	-0.10
14.	RL-82C	594	599	0.012	-0.10
15.	RL-82C	599	604	0.007	0.18
16.	RL-82C	604	609	0.010	-0.10
17.	RL-82C	609	614	0.008	-0.10
18.	RL-82C	614	619	0.004	-0.10
19.	RL-82C	619	624	0.005	-0.10
20.	RL-82C	624	629	0.001	-0.10
21.	RL-82C	629	634	0.002	-0.10
22.	RL-82C	634	639	0.002	0.14
23.	RL-82C	639	644	0.004	-0.10
24.	RL-82C	644	649	0.337	0.55

THIS REPORT REVIEWED AND APPROVED BY:

Richard A. Grondin

RICHARD GRONDIN, LABORATORY MANAGER

1498 Kleppe Lane • Sparks, Nevada 89431 • FAX: 702/359-6605 • 702/359-6600

NEVADA GSI

GEOCHEMICAL ANALYSIS REPORT

May 31, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 7244

GEOLOGIST: NATE BREWER
COPIES TO: XXXX
COMPANY: LAC MINERALS
ANALYSIS: FIRE ASSAY FOR GOLD AND SILVER, WITH AN A.A. FINISH.

	SAMPLE I.D.			Au o/t	Ag o/t	Au o/t
1.	RL-82C	463	468	-0.001	-0.10	-
2.	RL-82C	468	473	-0.001	-0.10	-
3.	RL-82C	473	478	0.003	-0.10	-
4.	RL-82C	478	483	-0.001	-0.10	-
5.	RL-82C	483	488	-0.001	-0.10	-
6.	RL-82C	488	493	-0.001	-0.10	-
7.	RL-82C	493	498	-0.001	-0.10	-
8.	RL-82C	498,	501.5	-0.001	-0.10	-
9.	RL-82C	501.5	502	0.002	-0.10	-
10.	RL-82C	502	507	0.006	-0.10	-
11.	RL-82C	507	512	0.042	-0.10	-
12.	RL-82C	512	517	-0.001	-0.10	-
13.	RL-82C	517	522	0.036	-0.10	-
14.	RL-82C	522	527	0.005	-0.10	-
15.	RL-82C	527	531	0.013	-0.10	-
16.	RL-82C	649	654	0.014	-0.10	-
17.	RL-82C	654	659	0.059	-0.10	-
18.	RL-82C	659	664	0.202	0.26	0.188
19.	RL-82C	664	669	0.236	0.47	0.335
20.	RL-82C	669	674	0.400	0.64	0.490
21.	RL-82C	674	677	0.018	-0.10	-
22.	RL-82C	677	682	2.190	3.07	2.657
23.	RL-82C	682	685	0.024	-0.10	-
24.	RL-82C	685	688	0.012	-0.10	-
25.	RL-82C	688	693	0.001	-0.10	-
26.	RL-82C	693	698	0.002	-0.10	-
27.	RL-82C	698	703	0.017	-0.10	-
28.	RL-82C	703	708	0.008	-0.10	-
29.	RL-82C	708	713	0.005	-0.10	-
30.	RL-82C	713	718	0.002	0.16	-

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	SAMPLE I.D.			Au o/t	Ag o/t	Au o/t
31.	RL-82C	718	723	0.014	0.72	-
32.	RL-82C	723	728	0.008	-0.10	-

THIS REPORT REVIEWED AND APPROVED BY:

Richard A. Grondin

RICHARD GRONDIN, OPERATIONS MANAGER

Bondar-Clegg, Inc.
625 Spice Island Dr.
Building 1, Unit A
Sparks, Nevada 89431
702 (359-9330)

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-10373.4 (PARTIAL)

REFERENCE INFO: 75351

CLIENT: LAC MINERALS (USA) INC.
PROJECT: 75351

SUBMITTED BY: KENNER
DATE PRINTED: 7-MAR-91

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	210	0.002 OPT		Fire Assay
2	Au DUP Gold Duplicate	8	0.002 OPT		Fire Assay
3	AU Dup Gold Duplicate	4	0.001 OPT		Fire Assay

RESULTS TO FOLLOW FOR: Au Dup

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
P PREPARED PULP	210	4 AS REC'D	210	AS RECEIVED, NO SP	210

NOTES: # Indicates ERRATIC RESULTS

REMARKS: SUBMITTAL LISTED HOLES "RE" 35,58,65 & 67.
WE RECEIVED HOLES "RL" 35,58,65 & 67.
SUBMITTAL LISTED HOLES RL 82,70 & 75. WE
RECEIVED HOLES RL 82,70 & 75 "C".
SAMPLES RL82C 753-756, RL82C 753-763, AND
RL82C 847-842 WERE LISTED AS SHOWN ON PULP BAG.

#ERRATIC RESULTS OBSERVED ON THE FOLLOWING:
RL75C 780-785 ONE MORE VALUE AT .266 OPT.
RL75C 897-902 ONE MORE VALUE AT <.002 OPT.

REPORT COPIES TO: MR. NATE BREWER

INVOICE TO: MR. NATE BREWER

Bondar-Clegg, Inc.
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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-10373.4

DATE PRINTED: 7-MAR-91

PROJECT: 75351 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT
P4 RE35 475-480		0.012		
P4 RE35 480-485		0.018		
P4 RE35 485-490		0.023		
P4 RE35 490-495		0.044		
P4 RE35 495-500		0.023		
P4 RE35 500-505		0.024		
P4 RE35 505-510		0.003		
P4 RE35 510-515		0.080		
P4 RE35 515-520		0.009		
P4 RE35 520-525		0.003		
P4 RE35 525-530		0.009		
P4 RE35 530-535		0.020		
P4 RE35 535-540		0.005		
P4 RE35 540-545		0.021		
P4 RE58 555-560		0.015		
P4 RE58 560-565		0.018		
P4 RE58 565-570		0.076		
P4 RE58 570-575		0.117	0.132	
P4 RE58 575-580		0.029		
P4 RE58 580-585		0.031		
P4 RE58 585-590		0.019		
P4 RE58 590-595		0.012		
P4 RE58 595-600		0.016		
P4 RE65 330-335		0.004		
P4 RE65 335-340		0.008		
P4 RE65 340-345		0.005		
P4 RE65 345-350		0.011		
P4 RE65 350-355		0.035		
P4 RE65 355-360		0.192		
P4 RE65 360-365		0.039		
P4 RE65 365-370		0.026		
P4 RE65 370-375		0.053		
P4 RE65 375-380		0.025		
P4 RE65 380-385		0.022		
P4 RE65 385-390		0.014		
P4 RE65 390-395		0.031		
P4 RE65 395-400		0.025		
P4 RE65 400-405		0.059		
P4 RE65 405-410		0.035		
P4 RE65 410-415		0.007		
P4 RE65 415-420		0.010		
P4 RE65 420-425		0.008		
P4 RE65 425-430		0.008		
P4 RE65 430-435		0.008		
P4 RE65 435-440		0.005		
P4 RE67 560-565		0.008		
P4 RE67 565-570		0.003		
P4 RE67 570-575		0.048		
P4 RE67 575-580		0.041		
P4 RE67 580-585		0.007		
P4 RE67 585-590		0.007		
P4 RE67 590-595		0.021		
P4 RE67 595-600		0.003		
P4 RE67 600-605		0.005		
P4 RE67 605-610		0.005		
P4 RE67 610-615		0.003		
P4 RE67 615-620		0.012		
P4 RE67 620-625		0.015		
P4 RE67 625-630		0.008		
P4 RE67 630-635		0.008		
P4 RE67 635-640		0.063		
P4 RE67 750-755		0.026		
P4 RE67 755-760		0.024		
P4 RE67 760-765		0.009		
P4 RE67 765-770		0.004		
P4 RE67 770-775		0.003		
P4 RE67 775-780		0.010		
P4 RE67 780-785		0.013		
P4 RE67 785-790		0.012		
P4 RE67 790-795		0.006		
P4 RE67 795-800		0.009		
P4 RE67 800-805		0.008		
P4 RL70C 635-640		0.017		
P4 RL70C 640-645		0.038		
P4 RL70C 645-650		0.051		
P4 RL70C 650-655		0.006		
P4 RL70C 655-660		0.017		
P4 RL70C 660-665		0.004		
P4 RL70C 665-670		0.075		
P4 RL70C 670-675		0.006		

Bondar-Clegg, Inc.
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Geochemical Lab Report

DATE PRINTED: 7-MAR-91

REPORT: R91-10373.4 | PROJECT: 75351 |

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT
P4 RL70C 675-680		0.005		
P4 RL70C 680-685		0.007		
P4 RL70C 685-690		0.030		
P4 RL70C 690-695		0.005		
P4 RL70C 695-700		0.018		
P4 RL70C 700-705		0.015		
P4 RL70C 705-710		0.024		
P4 RL70C 710-715		0.029		
P4 RL70C 715-720		0.038		
P4 RL70C 720-725		0.018		
P4 RL70C 725-730		0.023		
P4 RL70C 730-732		0.014		
P4 RL70C 732-736		0.009		
P4 RL70C 736-741		0.006		
P4 RL70C 741-746		0.004		
P4 RL70C 746-751		0.011		
P4 RL70C 751-756		<0.002		
P4 RL70C 756-761		0.005		
P4 RL70C 761-766		0.006		
P4 RL70C 766-771		0.007		
P4 RL70C 771-776		0.017		
P4 RL70C 776-781		<0.002		
P4 RL70C 781-786		<0.002		
P4 RL70C 786-790		<0.002		
P4 RL70C 790-795		<0.002		
P4 RL70C 795-800		0.003		
P4 RL70C 800-805		0.070		
P4 RL70C 805-810		0.006		
P4 RL70C 810-815		0.011		
P4 RL70C 815-820		0.005		
P4 RL70C 820-825		0.004		
P4 RL70C 825-830		0.005		
P4 RL70C 830-835		0.003		
P4 RL70C 835-840		0.005		
P4 RL70C 840-845		0.003		
P4 RL70C 845-850		<0.002		
P4 RL70C 850-855		0.006		
P4 RL70C 855-860		0.174	0.130	0.130
P4 RL70C 860-865		0.020		
P4 RL75C 700-705		<0.002		
P4 RL75C 705-710		0.014		
P4 RL75C 710-715		0.030		
P4 RL75C 720-725		<0.002		
P4 RL75C 725-730		<0.002	<0.002	
P4 RL75C 730-735		<0.002		
P4 RL75C 735-740		0.057		
P4 RL75C 740-745		0.076		
P4 RL75C 745-750		0.007		
P4 RL75C 750-755		<0.002		
P4 RL75C 755-760		<0.002		
P4 RL75C 760-765		<0.002		
P4 RL75C 765-770		<0.002		
P4 RL75C 770-775		0.008		
P4 RL75C 775-780		0.385		
P4 RL75C 780-785		0.460#	0.549	1.091
P4 RL75C 785-790		0.005		
P4 RL75C 790-795		<0.002		
P4 RL75C 795-800		0.004		
P4 RL75C 800-805		0.012		
P4 RL75C 805-810		0.062		
P4 RL75C 810-815		0.071		
P4 RL75C 815-820		0.230		
P4 RL75C 820-825		<0.002		
P4 RL75C 825-830		<0.002		
P4 RL75C 830-835		<0.002		
P4 RL75C 835-840		<0.002		
P4 RL75C 840-845		<0.002		
P4 RL75C 845-850		0.035		
P4 RL75C 850-855		<0.002		
P4 RL75C 855-860		0.080		
P4 RL75C 860-865		0.004		
P4 RL75C 865-870		0.090		
P4 RL75C 870-875		0.008		
P4 RL75C 875-880		0.008		
P4 RL75C 880.5-887		0.093		
P4 RL75C 887-892		0.248		
P4 RL75C 892-897		0.012		
P4 RL75C 897-902		0.015#	0.019	0.040
P4 RL75C 902-907		0.006		
P4 RL75C 907-912		0.005		

Bondar-Clegg, Inc.
625 Spice Island Dr.
Building 1, Unit A
Sparks, Nevada 89431
702 (359-9330)

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-10373.4

DATE PRINTED: 7-MAR-91

PROJECT: 75351 PAGE 4

STANDARD NAME	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT	STANDARD NAME	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT
ANALYTICAL BLANK		<0.002	-	-					
ANALYTICAL BLANK		<0.002	-	-					
ANALYTICAL BLANK		<0.002	-	-					
ANALYTICAL BLANK		<0.002	-	-					
ANALYTICAL BLANK		<0.002	-	-					
Number of Analyses		5	-	-					
Mean Value		0.0010	-	-					
Standard Deviation		0.000000	-	-					
Accepted Value		0.002	-	-					
AU ASSAY STD		0.014	-	-					
AU ASSAY STD		0.014	-	-					
Number of Analyses		2	-	-					
Mean Value		0.0140	-	-					
Standard Deviation		0.000000	-	-					
Accepted Value		0.015	-	-					
AU PULP STD		0.194	-	-					
Number of Analyses		1	-	-					
Mean Value		0.1937	-	-					
Standard Deviation		-	-	-					
Accepted Value		0.184	-	-					
AU ASSAY STD		0.143	-	-					
AU ASSAY STD		0.144	-	-					
Number of Analyses		2	-	-					
Mean Value		0.1435	-	-					
Standard Deviation		0.000071	-	-					
Accepted Value		0.150	-	-					

NEVADA GSI

JUN 0 1 1990

GEOCHEMICAL ANALYSIS REPORT

May 28, 1990

CUST. CODE: LOA
PROJECT: URBD-79014
P.O. #: XXXX
LOT ID: 7172

GEOLOGIST: NATE BREWER
COPIES TO: KRISTEN KENNER
COMPANY: LAC MINERALS
ANALYSIS: FIRE ASSAY FOR GOLD AND SILVER, WITH AN A.A. FINISH.

	SAMPLE I.D.			Au o/t	Ag o/t
1.	RL-82	0	5	0.001	-0.10
2.	RL-82	5	10	-0.001	-0.10
3.	RL-82	10	15	0.001	-0.10
4.	RL-82	15	20	-0.001	0.11
5.	RL-82	20	25	-0.001	-0.10
6.	RL-82	25	30	-0.001	-0.10
7.	RL-82	30	35	-0.001	0.10
8.	RL-82	35	40	-0.001	-0.10
9.	RL-82	40	45	0.001	-0.10
10.	RL-82	45	50	-0.001	-0.10
11.	RL-82	50	55	-0.001	-0.10
12.	RL-82	55	60	-0.001	-0.10
13.	RL-82	60	65	-0.001	-0.10
14.	RL-82	65	70	-0.001	-0.10
15.	RL-82	70	75	-0.001	-0.10
16.	RL-82	75	80	-0.001	-0.10
17.	RL-82	80	85	-0.001	-0.10
18.	RL-82	85	90	-0.001	-0.10
19.	RL-82	90	95	-0.001	-0.10
20.	RL-82	95	100	-0.001	-0.10
21.	RL-82	100	105	0.001	-0.10
22.	RL-82	105	110	-0.001	-0.10
23.	RL-82	110	115	-0.001	-0.10
24.	RL-82	115	120	-0.001	-0.10
25.	RL-82	120	125	-0.001	-0.10
26.	RL-82	125	130	-0.001	-0.10
27.	RL-82	130	135	-0.001	-0.10
28.	RL-82	135	140	0.001	-0.10
29.	RL-82	140	145	0.003	-0.10
30.	RL-82	145	150	0.006	-0.10

1498 Kleppe Lane • Sparks, Nevada 89431 • FAX: 702/359-6605 • 702/359-6600

	SAMPLE I.D.			Au o/t	Ag o/t
31.	RL-82	150	155	0.004	0.11
32.	RL-82	155	160	0.003	-0.10
33.	RL-82	160	165	0.001	-0.10
34.	RL-82	165	170	-0.001	-0.10
35.	RL-82	170	175	0.010	0.10
36.	RL-82	175	180	-0.001	-0.10
37.	RL-82	180	185	-0.001	-0.10
38.	RL-82	185	190	0.003	-0.10
39.	RL-82	190	195	0.002	-0.10
40.	RL-82	195	200	0.003	0.15
41.	RL-82	200	205	0.002	-0.10
42.	RL-82	205	210	0.001	-0.10
43.	RL-82	210	215	-0.001	-0.10
44.	RL-82	215	220	0.001	-0.10
45.	RL-82	220	225	0.005	0.14
46.	RL-82	225	230	-0.001	-0.10
47.	RL-82	230	235	-0.001	-0.10
48.	RL-82	235	240	-0.001	-0.10
49.	RL-82	240	245	-0.001	-0.10
50.	RL-82	245	250	0.001	-0.10
51.	RL-82	250	255	0.005	-0.10
52.	RL-82	255	260	0.001	-0.10
53.	RL-82	260	265	-0.001	-0.10
54.	RL-82	265	270	-0.001	-0.10
55.	RL-82	270	275	0.001	-0.10
56.	RL-82	275	280	-0.001	-0.10
57.	RL-82	280	285	-0.001	-0.10
58.	RL-82	285	290	-0.001	-0.10
59.	RL-82	290	295	-0.001	-0.10
60.	RL-82	295	300	0.002	-0.10
61.	RL-82	300	305	0.001	-0.10
62.	RL-82	305	310	-0.001	-0.10
63.	RL-82	310	315	0.001	-0.10
64.	RL-82	315	320	0.001	-0.10
65.	RL-82	320	325	-0.001	-0.10
66.	RL-82	325	330	-0.001	-0.10
67.	RL-82	330	335	0.001	-0.10
68.	RL-82	335	340	0.009	-0.10
69.	RL-82	340	345	0.006	-0.10
70.	RL-82	345	350	0.019	-0.10
71.	RL-82	350	355	0.006	-0.10
72.	RL-82	355	360	0.006	-0.10
73.	RL-82	360	365	0.007	-0.10
74.	RL-82	365	370	0.005	-0.10
75.	RL-82	370	375	0.021	-0.10

	SAMPLE I.D.			Au o/t	Ag o/t
76.	RL-82	375	380	0.003	-0.10
77.	RL-82	380	385	0.002	-0.10
78.	RL-82	385	390	-0.001	-0.10
79.	RL-82	390	395	-0.001	-0.10
80.	RL-82	395	400	0.001	-0.10
81.	RL-82	400	405	0.001	-0.10
82.	RL-82	405	410	0.002	-0.10
83.	RL-82	410	415	-0.001	-0.10
84.	RL-82	415	420	-0.001	-0.10
85.	RL-82	420	425	-0.001	-0.10
86.	RL-82	425	430	-0.001	-0.10
87.	RL-82	430	435	0.005	-0.10
88.	RL-82	435	440	0.013	-0.10
89.	RL-82	440	445	0.025	-0.10
90.	RL-82	445	450	0.028	-0.10
91.	RL-82	450	455	0.014	-0.10
92.	RL-82	455	460	0.008	-0.10
93.	RL-82	460	465	0.003	-0.10

THIS REPORT REVIEWED AND APPROVED BY:

Richard A. Grondin

RICHARD GRONDIN, LABORATORY MANAGER

NEVADA GSI

GEOCHEMICAL ANALYSIS REPORT

May 31, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 7244

GEOLOGIST: NATE BREWER
COPIES TO: XXXX
COMPANY: LAC MINERALS
ANALYSIS: FIRE ASSAY FOR GOLD AND SILVER, WITH AN A.A. FINISH.

	SAMPLE I.D.			Au o/t	Ag o/t	Au o/t	
1.	RL-82C	463	468	-0.001	-0.10	-	
2.	RL-82C	468	473	-0.001	-0.10	-	
3.	RL-82C	473	478	0.003	-0.10	-	
4.	RL-82C	478	483	-0.001	-0.10	-	
5.	RL-82C	483	488	-0.001	-0.10	-	
6.	RL-82C	488	493	-0.001	-0.10	-	
7.	RL-82C	493	498	-0.001	-0.10	-	
8.	RL-82C	498	501.5	-0.001	-0.10	-	
9.	RL-82C	501.5	502	0.002	-0.10	-	
10.	RL-82C	502	507	0.006	-0.10	-	
11.	RL-82C	507	512	0.042	-0.10	-	
12.	RL-82C	512	517	-0.001	-0.10	-	
13.	RL-82C	517	522	0.036	-0.10	-	
14.	RL-82C	522	527	0.005	-0.10	-	
15.	RL-82C	527	531	0.013	-0.10	-	
16.	RL-82C	649	654 5	0.014	-0.10	-	$\bar{x}$
17.	RL-82C	654	659 5	0.059	-0.10	-	
18.	RL-82C	659	664 5	0.202	0.26	0.188	.195
19.	RL-82C	664	669 5	0.236	0.47	0.335	.286
20.	RL-82C	669	674 5	0.400	0.64	0.490	.445
21.	RL-82C	674	677 3	0.018	-0.10	-	44'
22.	RL-82C	677	682 5	2.190	3.07	2.657	2.424
23.	RL-82C	682	685 3	0.024	-0.10	-	0.431
24.	RL-82C	685	688 3	0.012	-0.10	-	
25.	RL-82C	688	693	0.001	-0.10	-	
26.	RL-82C	693	698	0.002	-0.10	-	
27.	RL-82C	698	703	0.017	-0.10	-	
28.	RL-82C	703	708	0.008	-0.10	-	
29.	RL-82C	708	713	0.005	-0.10	-	
30.	RL-82C	713	718	0.002	0.16	-	

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NEVADA GSI

MAY 29 1990

GEOCHEMICAL ANALYSIS REPORT

May 21, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 7219

GEOLOGIST: NATE BREWER
COPIES TO: SAME
COMPANY: LAC MINERALS
ANALYSIS: FIRE ASSAY FOR GOLD AND SILVER, WITH AN A.A. FINISH.

	Sample I.D.			Au o/t	Ag o/t
1.	RL-82C	531	534	0.001	0.14
2.	RL-82C	534	539	0.003	0.13
3.	RL-82C	539	544	0.003	0.24
4.	RL-82C	544	549	0.002	0.14
5.	RL-82C	549	554	-0.001	-0.10
6.	RL-82C	544	559	0.001	0.11
7.	RL-82C	559	564	-0.001	-0.10
8.	RL-82C	564	569	-0.001	-0.10
9.	RL-82C	569	574	-0.001	-0.10
10.	RL-82C	574	579	-0.001	-0.10
11.	RL-82C	579	584	0.007	-0.10
12.	RL-82C	584	589	0.007	0.11
13.	RL-82C	589	594	0.005	-0.10
14.	RL-82C	594	599	0.012	-0.10
15.	RL-82C	599	604	0.007	0.18
16.	RL-82C	604	609	0.010	-0.10
17.	RL-82C	609	614	0.008	-0.10
18.	RL-82C	614	619	0.004	-0.10
19.	RL-82C	619	624	0.005	-0.10
20.	RL-82C	624	629	0.001	-0.10
21.	RL-82C	629	634	0.002	-0.10
22.	RL-82C	634	639	0.002	0.14
23.	RL-82C	639	644	0.004	-0.10
24.	RL-82C	644	649	0.337	0.55

THIS REPORT REVIEWED AND APPROVED BY:

Richard A. Grondin

RICHARD GRONDIN, LABORATORY MANAGER

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NEVADA GSI

GEOCHEMICAL ANALYSIS REPORT

June 6, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 7282

GEOLOGIST: NATE BREWER
COPIES TO: SAME
COMPANY: LAC MINERALS
ANALYSIS: FIRE ASSAY FOR GOLD AND SILVER, WITH AN A.A. FINISH.
FIRE ASSAY FOR GOLD, WITH AN A.A. FINISH. (CHECKS)

	SAMPLE I.D.			Au o/t	Ag o/t	Checks Au o/t
1.	RL-82C	728	733	0.008	-0.10	-
2.	RL-82C	733	738	0.010	-0.10	-
3.	RL-82C	738	743	0.015	0.18	-
4.	RL-82C	743	748	0.024	-0.10	-
5.	RL-82C	748	753	0.010	0.11	-
6.	RL-82C	753	758	0.011	0.11	-
7.	RL-82C	753	763	0.025	-0.10	-
8.	RL-82C	763	768	0.020	0.21	-
9.	RL-82C	768	773	0.022	-0.10	-
10.	RL-82C	773	778	0.017	0.28	-
11.	RL-82C	778	783	0.118	-0.10	-
12.	RL-82C	783	788	0.014	-0.10	-
13.	RL-82C	788	793	0.013	-0.10	-
14.	RL-82C	793	798	0.028	0.18	-
15.	RL-82C	798	801.6	0.570	0.83	0.736
16.	RL-82C	801.6	807	0.172	0.28	-
17.	RL-82C	807	812	0.024	0.11	-
18.	RL-82C	812	817	0.012	0.11	-
19.	RL-82C	817	822	0.005	-0.10	-
20.	RL-82C	822	827	0.005	-0.10	-
21.	RL-82C	827	832	0.007	0.23	-
22.	RL-82C	832	837	0.009	-0.10	-
23.	RL-82C	837	842	0.010	-0.10	-
24.	RL-82C	842	847	0.005	-0.10	-
25.	RL-82C	847	842	0.005	-0.10	-
26.	RL-82C	852	857	0.004	0.32	-
27.	RL-82C	857	862	0.005	-0.10	-
28.	RL-82C	862	867	0.003	-0.10	-
29.	RL-82C	867	882	-0.001	-0.10	-
30.	RL-82C	882	887	-0.001	0.13	-

867-882? 812 * 812

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	SAMPLE I.D.			Au o/t	Ag o/t	Au o/t
31.	RL-82C	718	723	0.014	0.72	-
32.	RL-82C	723	728	0.008	-0.10	-

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THIS REPORT REVIEWED AND APPROVED BY:

Richard A Grondin

RICHARD GRONDIN, OPERATIONS MANAGER

	SAMPLE I.D.			Au o/t	Ag o/t	Checks Au o/t
31.	RL-82C	887	892	-0.001	-0.10	-
32.	RL-82C	877	882	0.001	-0.10	-
33.	RL-82C	872	877	0.002	-0.10	-
34.	RL-82C	892	897	0.001	0.16	-
35.	RL-82C	897	902	0.001	0.11	-
36.	RL-82C	902	907	0.001	-0.10	-
37.	RL-82C	907	912	-0.001	-0.10	-
38,	RL-82C	912	917	-0.001	-0.10	-
39.	RL-82C	917	922	-0.001	-0.10	-
40.	RL-82C	922	927	-0.001	-0.10	-
41.	RL-82C	927	932	-0.001	-0.10	-
42.	RL-82C	932	937	-0.001	-0.10	-
43.	RL-82C	937	942	-0.001	-0.10	-
44.	RL-82C	942	947	-0.001	-0.10	-
45.	RL-82C	947	952	-0.001	-0.10	-
46.	RL-82C	952	957	-0.001	-0.10	-
47.	RL-82C	957	962	0.001	-0.10	-
48.	RL-82C	962	967	-0.001	-0.10	-
49.	RL-82C	967	972	-0.001	-0.10	-
50.	RL-82C	972	977	-0.001	-0.10	-
51.	RL-82C	977	982	-0.001	-0.10	-
52.	RL-82C	982	987	-0.001	-0.10	-
53.	RL-82C	987	982	-0.001	-0.10	-
54.	RL-82C	992	995.5	-0.001	-0.10	-
55.	RL-82C	995.5	1000.5	-0.001	0.12	-
56.	RL-82C	1000.5	1006	-0.001	-0.10	-
57.	RL-82C	1006	1011	-0.001	-0.10	-
58.	RL-82C	1011	1016	-0.001	-0.10	-
59.	RL-82C	1016	1021	-0.001	-0.10	-
60.	RL-82C	1021	1026	-0.001	-0.10	-
61.	RL-82C	1026	1031	-0.001	-0.10	-
62.	RL-82C	1031	1036	-0.001	-0.10	-
63.	RL-82C	1036	1041	-0.001	-0.10	-
64.	RL-82C	1041	1046	-0.001	-0.10	-
65.	RL-82C	1046	1051	-0.001	-0.10	-
66.	RL-82C	1051	1056	-0.001	-0.10	-
67.	RL-82C	1056	1061	-0.001	-0.10	-
68.	RL-82C	1061	1065	-0.001	-0.10	-

THIS REPORT REVIEWED AND APPROVED BY:

Richard A. Grondin

RICHARD GRONDIN, LABORATORY MANAGER

Bondar-Clegg, Inc.
625 Spice Island Dr.
Building 1, Unit A
Sparks, Nevada 89431
702 (359-9330)

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-10373.4

DATE PRINTED: 7-MAR-91

PROJECT: 75351

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT
P4 RL75C 912-917		0.008		
P4 RL75C 917-922		0.008		
P4 RL75C 922-927		0.006		
P4 RL75C 927-932		0.011		
P4 RL75C 932-937		0.010		
P4 RL75C 937-942		0.012		
P4 RL75C 942-947		0.003		
P4 RL75C 947-952		0.007		
P4 RL75C 952-957		0.022	0.016	
P4 RL75C 957-962		0.010		
P4 RL75C 962-967		0.003		
P4 RL75C 967-972		0.006		
P4 RL75C 972-977		<0.002		
P4 RL75C 977-982		<0.002		
P4 RL75C 982-987		0.003		
P4 RL75C 987-992		<0.002		
P4 RL75C 992-997		<0.002		
P4 RL75C 997-1002		<0.002		
P4 RL82C 703-708		0.006		
P4 RL82C 708-713		0.006		
P4 RL82C 713-718		0.003		
P4 RL82C 718-723		0.012		
P4 RL82C 723-728		0.006		
P4 RL82C 728-733		<0.002		
P4 RL82C 733-738		0.014		
P4 RL82C 738-743		0.014		
P4 RL82C 743-748		0.014		
P4 RL82C 748-753		0.012		
P4 RL82C 753-758		0.032		
P4 RL82C 753-763		0.033		
P4 RL82C 763-768		0.028		
P4 RL82C 768-773		0.015		
P4 RL82C 773-778		0.011		
P4 RL82C 778-783		0.135		
P4 RL82C 783-788		0.020		
P4 RL82C 788-793		0.015		
P4 RL82C 793-798		0.028		
P4 RL82C 798-801.6		0.636	0.543	
P4 RL82C 801.6-807		0.182		
P4 RL82C 807-812		0.016		
P4 RL82C 812-817		0.011		
P4 RL82C 817-822		0.002	0.039	0.006
P4 RL82C 822-827		0.005		
P4 RL82C 827-832		0.007		
P4 RL82C 832-837		0.009		
P4 RL82C 837-842		0.009		
P4 RL82C 842-847		0.005		
P4 RL82C 847-842		0.005		
P4 RL82C 852-857		0.004		
P4 RL82C 857-862		0.005		

Bondar-Clegg, Inc.
625 Spice Island Dr.
Building 1, Unit A
Sparks, Nevada 89431
702 (359-9330)

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-10373.4

DATE PRINTED: 7-MAR-91

PROJECT: 75351

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT
RE35 490-495		0.044		
Duplicate		0.037		
RE35 540-545		0.021		
Duplicate		0.019		
RE65 340-345		0.005		
Duplicate		0.006		
RE65 390-395		0.031		
Duplicate		0.031		
RE67 570-575		0.048		
Duplicate		0.046		
RE67 620-625		0.015		
Duplicate		0.020		
RE67 790-795		0.006		
Duplicate		0.008		
RL70C 670-675		0.006		
Duplicate		0.007		
RL70C 730-732		0.014		
Duplicate		0.013		
RL70C 776-781		<0.002		
Duplicate		<0.002		
RL70C 835-840		0.005		
Duplicate		0.004		
RL75C 725-730		<0.002	<0.002	
Duplicate		0.003		
RL75C 785-790		0.005		
Duplicate		0.010		
RL75C 835-840		<0.002		
Duplicate		0.003		
RL75C 897-902		0.015#	0.019	0.040
Duplicate		0.040		
RL75C 947-952		0.007		
Duplicate		0.006		

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT
RL75C 952-957		0.022	0.016	
Duplicate		0.034		
RL82C 708-713		0.006		
Duplicate		0.008		
RL82C 763-768		0.028		
Duplicate		0.025		
RL82C 817-822		0.002	0.039	0.006
Duplicate		0.006		

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GEOCHEMICAL ANALYSIS REPORT

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July 27, 1990

CUST. CODE: LOA
PROJECT: XXXX
P.O. #: XXXX
LOT ID: 7428

GEOLOGIST: NATE BREWER
COPIES TO: XXXX
COMPANY: LAC MINERALS
ANALYSIS: COARSE GOLD SCREEN FRACTIONS.

SAMPLE # RL-82C 634-639
A = -150 Fraction Au oz/t = -0.0025 & 0.0100 = 0.0050
B = -150 Fraction wt gm = 521.05
C = 29.167 gm
D = Total Sample wt gm = 531.65
E = +150 Fraction Au mg = 0.0050
Weighted Au average (oz/t) based on Course Gold Screen Analysis = 0.0052

SAMPLE # RL-82C 639-644
A = -150 Fraction Au oz/t = 0.0060 & 0.0070 = 0.0065
B = -150 Fraction wt gm = 574.88
C = 29.167 gm
D = Total Sample wt gm = 593.18
E = +150 Fraction Au mg = 0.0070
Weighted Au average (oz/t) based on Course Gold Screen Analysis = 0.0066

SAMPLE # RL-82C 644-649
A = -150 Fraction Au oz/t = 0.1830 & 0.1400 = 0.1615
B = -150 Fraction wt gm = 561.83
C = 29.167 gm
D = Total Sample wt gm = 577.77
E = +150 Fraction Au mg = 2.5920
Weighted Au average (oz/t) based on Course Gold Screen Analysis = 0.2879

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SAMPLE # RL-82C 654-659
A = -150 Fraction Au oz/t = 0.0430 & 0.0500 = 0.0465
B = -150 Fraction wt gm = 503.80
C = 29.167 gm
D = Total Sample wt gm = 526.22
E = +150 Fraction Au mg = 0.4440
Weighted Au average (oz/t) based on Course Gold Screen Analysis = 0.0691

SAMPLE # RL-82C 659-664
A = -150 Fraction Au oz/t = 0.0700 & 0.0570 = 0.0635
B = -150 Fraction wt gm = 529.29
C = 29.167 gm
D = Total Sample wt gm = 556.87
E = +150 Fraction Au mg = 2.1640
Weighted Au average (oz/t) based on Course Gold Screen Analysis = 0.1737

SAMPLE # RL-82C 664-669
A = -150 Fraction Au oz/t = 0.1930 & 0.1690 = 0.1810
B = -150 Fraction wt gm = 585.79
C = 29.167 gm
D = Total Sample wt gm = 607.15
E = +150 Fraction Au mg = 1.0580
Weighted Au average (oz/t) based on Course Gold Screen Analysis = 0.2255

SAMPLE # RL-82C 669-674
A = -150 Fraction Au oz/t = 0.4160 & 0.3910 = 0.4035
B = -150 Fraction wt gm = 489.27
C = 29.167 gm
D = Total Sample wt gm = 517.79
E = +150 Fraction Au mg = 1.1010
Weighted Au average (oz/t) based on Course Gold Screen Analysis = 0.4433

SAMPLE # RL-82C 674-677
A = -150 Fraction Au oz/t = 0.0070 & 0.0120 = 0.0095
B = -150 Fraction wt gm = 641.50
C = 29.167 gm
D = Total Sample wt gm = 664.23
E = +150 Fraction Au mg = 0.0440
Weighted Au average (oz/t) based on Course Gold Screen Analysis = 0.0111

SAMPLE # RL-82C 677-682
A = -150 Fraction Au oz/t = 0.6770 & 0.6560 = 0.6665
B = -150 Fraction wt gm = 495.62
C = 29.167 gm
D = Total Sample wt gm = 514.67
E = +150 Fraction Au mg = 16.5430
Weighted Au average (oz/t) based on Course Gold Screen Analysis = 1.5793

SAMPLE # RL-82C 682-685
A = -150 Fraction Au oz/t = 0.0250 & 0.0220 = 0.0235
B = -150 Fraction wt gm = 629.44
C = 29.167 gm
D = Total Sample wt gm = 644.04
E = +150 Fraction Au mg = 0.2930
Weighted Au average (oz/t) based on Course Gold Screen Analysis = 0.0362

SAMPLE # RL-82C 685-688
A = -150 Fraction Au oz/t = 0.0130 & 0.0100 = 0.0115
B = -150 Fraction wt gm = 672.79
C = 29.167 gm
D = Total Sample wt gm = 691.28
E = +150 Fraction Au mg = 0.0150
Weighted Au average (oz/t) based on Course Gold Screen Analysis = 0.0118

SAMPLE # RL-82C 688-693
A = -150 Fraction Au oz/t = 0.0100 & 0.0060 = 0.0080
B = -150 Fraction wt gm = 744.73
C = 29.167 gm
D = Total Sample wt gm = 757.22
E = +150 Fraction Au mg = 0.0270
Weighted Au average (oz/t) based on Course Gold Screen Analysis = 0.0089

SAMPLE # RL-82C 693-698
A = -150 Fraction Au oz/t = 0.0090 & 0.0040 = 0.0065
B = -150 Fraction wt gm = 768.71
C = 29.167 gm
D = Total Sample wt gm = 787.57
E = +150 Fraction Au mg = 0.0110
Weighted Au average (oz/t) based on Course Gold Screen Analysis = 0.0068

SAMPLE # RL-82C 698-703
A = -150 Fraction Au oz/t = 0.0250 & 0.0070 = 0.0160
B = -150 Fraction wt gm = 650.52
C = 29.167 gm
D = Total Sample wt gm = 679.60
E = +150 Fraction Au mg = 0.1350
Weighted Au average (oz/t) based on Course Gold Screen Analysis = 0.0211

This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Laboratory Director