Bondar-Clegg, Inc.
12980 West Cedar Dr.
Lakewood, Colorado 80228
(303) 989-1404

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 098-1385

PROJECT: NONE LISTED

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT
D2 R88-487-0-5		0.007	D2 R88-487-200-205		0.046
D2 R88-487-5-10		0.004	D2 R88-487-205-210		0.024
D2 R88-487-10-15		0.010	D2 R88-487-210-215		0.020
D2 R88-487-15-20		0.005	D2 R88-487-215-220		0.016
D2 R88-487-20-25		0.079	D2 R88-487-220-225		<0.002
D2 R88-487-25-30		0.055	D2 R88-487-225-230		0.003
D2 R88-487-30-35		0.038	D2 R88-487-230-235		<0.002
D2 R88-487-35-40		0.088	D2 R88-487-235-240		<0.002
D2 R88-487-40-45		0.048	D2 R88-487-240-245		<0.002
D2 R88-487-45-50		0.032	D2 R88-487-245-250		<0.002
D2 R88-487-50-55		0.024	D2 R88-487-250-255		<0.002
D2 R88-487-55-60		0.016	D2 R88-487-255-260		<0.002
D2 R88-487-60-65		0.007	D2 R88-487-260-265		0.003
D2 R88-487-65-70		0.019	D2 R88-487-265-270		<0.002
D2 R88-487-70-75		0.009	D2 R88-487-270-275		<0.002
D2 R88-487-75-80		0.004	D2 R88-487-275-280		<0.002
D2 R88-487-80-85		0.008	D2 R88-487-280-285		<0.002
D2 R88-487-85-90		0.029	D2 R88-487-285-290		<0.002
D2 R88-487-90-95		0.008	D2 R88-487-290-295		0.003
D2 R88-487-95-100		0.005	D2 R88-487-295-300		0.005
D2 R88-487-100-105		0.008			
D2 R88-487-105-110		0.018			
D2 R88-487-110-115		0.019			
D2 R88-487-115-120		0.014			
D2 R88-487-120-125		<0.002			
D2 R88-487-125-130		0.010			
D2 R88-487-130-135		0.014			
D2 R88-487-135-140		0.013			
D2 R88-487-140-145		<0.002			
D2 R88-487-145-150		0.005			
D2 R88-487-150-155		0.011			
D2 R88-487-155-160		0.055			
D2 R88-487-160-165		0.010			
D2 R88-487-165-170		0.048			
D2 R88-487-170-175		0.018			
D2 R88-487-175-180		0.010			
D2 R88-487-180-185		0.009			
D2 R88-487-185-190		0.029			
D2 R88-487-190-195		0.010			
D2 R88-487-195-200		0.016			

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BONDAR-CLEGG

Geochemical Lab Report

BROHM MINING CORP.
MR. JIM BARRON
P.O. BOX 485
DEADWOOD, SD
57732

Bondar-Clegg, Inc.
12980 West Cedar Dr.
Lakewood, Colorado 80228
(303) 989-1404

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 098-1386 (COMPLETE)

REFERENCE INFO: NONE LISTED

CLIENT: BROHM MINING CORP.
PROJECT: NONE LISTED

SUBMITTED BY: J. BARRON
DATE PRINTED: 4-NOV-88

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	21	0.002 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
D DRILL CORE	21	2 -150	21	Assay Prep	21
				Sample Pickup	1

REMARKS: FINAL RESULTS ARE REPORTED.

REPORT COPIES TO: MR. JIM BARRON
MR. JIM BARRON

INVOICE TO: MR. JIM BARRON

Bondar-Clegg, Inc.
12980 West Cedar Dr.
Lakewood, Colorado 80228
(303) 989-1404

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 098-1386

PROJECT: NONE LISTED

SAMPLE NUMBER	ELEMENT UNITS	Au OPT
D2 R88-487-300-305		0.008
D2 R88-487-305-310		0.006
D2 R88-487-310-315		0.009
D2 R88-487-315-320		0.005
D2 R88-487-320-325		0.006
D2 R88-487-325-330		0.003
D2 R88-487-330-335		0.003
D2 R88-487-335-340		0.004
D2 R88-487-340-345		0.009
D2 R88-487-345-350		0.017
D2 R88-487-350-355		0.009
D2 R88-487-355-360		0.005
D2 R88-487-360-365		0.007
D2 R88-487-365-370		0.020
D2 R88-487-370-375		0.032
D2 R88-487-375-380		0.076
D2 R88-487-380-385		0.078
D2 R88-487-385-390		0.024
D2 R88-487-390-395		0.010
D2 R88-487-395-400		0.016
D2 R88-487-400-405		0.010

Contractor: LANG | Coordinates: 45318.95 / 27471.10 SITE 148 | Project: GILT EDGE | Hole No. R88-487

Drill Type: | Casing Depth: | State: SD | Sheet 1 of 7

Hole Size: | Bearing: – | Inclination: 90 | Date Started: | Property: GILT EDGE

Collar Elev.: 5537.90' | Final Depth: 1175' | Date Completed: | Hole Surveyed: YES

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK CODE	ORE CODE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	ROCK TYPE	GEOLOGIC NOTES: DESCRIPTION (MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE)	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlill, Replacement)	TYPE	ASSAY Au	ASSAY Ag
			80	3	0-5		Ttp	0-170 QUARTZ TRACHYTE PORPHYRY – quartz embayed phenos.	0-135	OXIDE	.007	
											.004	
											.010	
											.005	
					20-25						.079	
											.055	
											.038	
											.088	
											.048	
					45-50						.032	
											.024	
											.016	
											.007	
											.019	
					70-75						.009	
											.004	
											.008	
											.029	
											.008	
					95-100						.005	
											.008	
											.018	
											.019	
											.014	
					120-125						tr	
											.010	
											.014	
					2				135-210	MIXED tr-1% FeS_2, 50-70% OXIDE.	.013	
											tr	
					145-150						.005	
											.011	
											.055	
											.010	
											.048	
				60	170-175		Ttp	170-380 TRACHYTE PORPHYRY			.018	

DRILL CUTTING LOG

Logged by:

Contractor _____ Coordinates _____ Project _____ Hole No. R88-Y87

Drill Type _____ Casing Depth _____ State _____ Sheet 2 of 7

Hole Size _____ Bearing _____ Inclination _____ Date Started _____ Property _____

Collar Elev. _____ Final Depth _____ Date Completed _____ Hole Surveyed _____

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK CODE	ORE CODE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	ROCK TYPE	GEOLOGIC NOTES: DESCRIPTION (MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE)	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlill, Replacement)	TYPE	ASSAY Au	ASSAY Ag
			600	2	175-180		Ttp				.010	
											.009	
											.029	
											.010	
					195-200						.016	
											.046	
											.024	
				1					210 - 1175	SULFIDE 1-3% FeS	.020	
											.016	
					220-225						tr	
								(225 - 375) 3-4% matrix alteration			.003	
								to yellow-white clay.			tr	
											tr	
											tr	
					245-250						tr	
											tr	
											tr	
											.002	
											tr	
					270-275						tr	
											tr	
											tr	
									285 - 365	FRACTURED	tr	
								(290 - 300) 3-4% FC schist			.003	
					295-300						.005	
											.008	
											.006	
											.009	
											.005	
					320-325						.006	
											.003	
											.003	
											.004	
											.009	
					345-350						.017	

DRILL CUTTING LOG

Logged by:

Contractor _____ Coordinates _____ Project _____ Hole No. R88-487

Drill Type _____ Casing Depth _____ State _____ Sheet 3 of 7

Hole Size _____ Bearing _____ Inclination _____ Date Started _____ Property _____

Collar Elev. _____ Final Depth _____ Date Completed _____ Hole Surveyed _____

DRILL CUTTING LOG

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (Weak, Moderate, Strong)	TOTAL SULFIDES (vol %)	ROCK CODE	ORE CODE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	ROCK TYPE	GEOLOGIC NOTES: DESCRIPTION (MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE)	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlill, Replacement)	TYPE	ASSAY Au	ASSAY Ag
			60	1	350-355		Ttp				.009	
											.005	
											.007	
											.070	
					370-375						.032	
								(375-380) dk. gray matrix			.076	
			10				PC	380-415 PRECAMBRIAN SCHIST	(380 - 415) tr-1% FeS_2		.078	
											.024	
											.010	
					395-400						.016	
											.010	
											.008	
											.014	
			60				Ttp	415-470 TRACHYTE PORPHYRY	(415 - 455) 1-2% FeS_2		.004	
					420-425						.006	
											.005	
											.007	
											.005	
											.007	
					445-450						.008	
								(450 - 470) 5-7% PC schist			.008	
									(455 - 485) tr-1% FeS_2		.007	
											.014	
											.008	
			10		470-475		PC	470 - 575 PRECAMBRIAN SCHIST			.007	
								(470 - 515) 30-40% Ttp			.006	
											.006	
									(485 - 500) 2-3% FeS_2		.005	
											.007	
					495-500						.010	
									(500 - 575) 1-2% FeS_2		.009	
											.010	
											.070	
								(515 - 575) 5-15% Ttp			.009	
					520-525						tr	

Logged by:

Contractor _____ Coordinates _____ Project _____ Hole No. RBB-487

Drill Type _____ Casing Depth _____ State _____ Sheet 4 of 7

Hole Size _____ Bearing _____ Inclination _____ Date Started _____ Property _____

Collar Elev. _____ Final Depth _____ Date Completed _____ Hole Surveyed _____

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES % (vol %)	ROCK CODE	ORE CODE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	ROCK TYPE	GEOLOGIC NOTES: DESCRIPTION (MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE)	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlill, Replacement)	TYPE	ASSAY Au	ASSAY As
			10	1	525-530		PC				tr	
											.007	
											.018	
											.124	
					545-550				545-575 FRACTURED.		.074	
											.085	
											tr	
											.020	
											.010	
					570-575						tr	
			60				TKD	575-655 TRACHYTE PORPHYRY. w/ 10-15% PC schist.	(575-600) 2-4% FeS2		.023	
											.084	
											.021	
											tr	
					595-600				595-600 FRACTURED.		.035	
									(600-685) 1-2% FeS2		.016	
											.022	
											.011	
											.008	
					620-625						.011	
											.012	
											.007	
											.012	
											.013	
					645-650						.013	
											.007	
			10				PC	655-748 PRECAMBRIAN SCHIST w/ 30-35% TKD			.014	
											.017	
											.027	
					670-675						.014	
											.013	
											.018	
									(685-690) 3-4% FeS2		.030	
									(690-710) 1-2% FeS2		.010	
					695-700						.014	

DRILL CUTTING LOG

Logged by:

Contractor _____ Coordinates _____ Project _____ Hole No. R88-487

Drill Type _____ Casing Depth _____ State _____ Sheet 5 of 7

Hole Size _____ Bearing _____ Inclination _____ Date Started _____ Property _____

Collar Elev. _____ Final Depth _____ Date Completed _____ Hole Surveyed _____

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES % (vol %)	ROCK CODE	ORE CODE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	GEOLOGIC NOTES: ROCK TYPE	DESCRIPTION: MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlill, Replacement) / TYPE	ASSAY Au	ASSAY Ag
			10	/	700-705		PC			tr	
										.021	
									(710 – 720) 2-4% FeS_2	.015	
										.019	
					720-725				(720 – 745) 1-2% FeS_2	tr	
									725 – 740 FRACTURED	.016	
										.014	
										.015	
										.014	
					745-750			748 – 930 TRACHYTE PORPHYRY.	(745 – 755) 2-4% FeS_2	.015	
			40				Tkr	<fluorite 750 – 785 >		.010	
									755-765 FRACTURED	.007	
									(755 – 805) 1-2% FeS_2	.004	
										.009	
					770-775					.003	
										tr	
									780 – 785 FRACTURED	tr	
										.009	
										.004	
					795-800					.013	
								<fluorite 805 – 820 >		.174	
									(805 – 820) 2-4% FeS_2	.075	
										.039	
										.036	
					820-825				(820 – 850) 1-3% FeS_2	.019	
								(825 – 875) 3-5% PC schist.	825 – 875 FRACTURED	.008	
										.004	
										.008	
										.003	
					845-850					.017	
									(850 – 875) 3-5% FeS_2	.018	
										.008	
										.015	
										.014	
					870-875					.017	

DRILL CUTTING LOG

Logged by:

Contractor _____ Coordinates _____ Project _____ Hole No. RSS-487

Drill Type _____ Casing Depth _____ State _____ Sheet 6 of 7

Hole Size _____ Bearing _____ Inclination _____ Date Started _____ Property _____

Collar Elev. _____ Final Depth _____ Date Completed _____ Hole Surveyed _____

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES % (vol %)	ROCK CODE	ORE CODE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	GEOLOGIC NOTES: ROCK TYPE	DESCRIPTION: MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlill, Replacement) / TYPE	ASSAY Au	ASSAY Ag
			60		875-880		Tkp		(875 - 900) 1-3% FeS2	.008	
									880 - 920 FRACTURED	.005	
										.014	
										.006	
					895-900					.012	
									(900 - 920) 3-5% FeS2	.011	
										.010	
										.024	
										.019	
					920-925				(920 - 1005) 1-3% FeS2	.030	
										.020	
			10				PC	930 - 970 PRECAMBRIAN SCHIST		.027	
										.014	
										.017	
					945-950					.016	
										tr	
										.022	
										.013	
										.008	
			60		970-975		Tkp	970 - 1025 TRACHYTE PORPHYRY.		.004	
										.002	
										.006	
									985 - 990 FRACTURED.	.005	
								<fluorite 990 - 1005>		.011	
					995-1000					.013	
										.007	
									(1005 - 1015) 3-5% FeS2	.006	
										.002	
									(1015 - 1120) 1-3% FeS2	.011	
					1020-1025					tr	
			10				PC	1025 - 1047 PRECAMBRIAN SCHIST		.016	
										.004	
										.011	
										.029	
			60		1045-1050		Tkp	1047 - 1055 TRACHYTE PORPHYRY		.008	

DRILL CUTTING LOG

Logged by:

Contractor _____ Coordinates _____ Project _____ Hole No. 288-487

Drill Type _____ Casing Depth _____ State _____ Sheet 7 of 7

Hole Size _____ Bearing _____ Inclination _____ Date Started _____ Property _____

Collar Elev. _____ Final Depth _____ Date Completed _____ Hole Surveyed _____

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK CODE	ORE CODE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	ROCK TYPE	GEOLOGIC NOTES: DESCRIPTION (MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE)	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlill, Replacement)	TYPE	ASSAY Au	ASSAY Ag
			60	1	1050-1055		TRP				.045	
			10				PC	1055 – 1140 PRECAMBRIAN SCHIST	1055 – 1065	FRACTURED	.022	
								(1055 – 1070) 20 - 30% TRP			.023	
											.012	
					1070-1075						.011	
											.009	
											.007	
											tr	
											tr	
					1095-1100						tr	
											.029	
											.035	
											.021	
											.010	
					1120-1125				(1120 – 1135) 4-6% FeS_2		.050	
											.016	
											.006	
									(1135 – 1140) 1 – 3% FeS_2		.010	
			60				TRP	1140 – 1175 TRACHYTE PORPHYRY	(1140 – 1150) 4-6% FeS_2		.022	
					1145-1150						.018	
									(1150 – 1175) 1-3% FeS_2		.013	
											.013	
											.013	
											.008	
					1170-1175						.013	
								HOLE TD @ 1175'				

DRILL CUTTING LOG

Logged by:

4/24/89 SR

R88- 487 Downhole Survey Calculations

45318.95 N
27471.10 E
5537.90'

Interval	CL	Incl.	Azm	CD = CL · cos I	VD = CL · sin I	Northing = CD · cos A	Easting = CD · sin A
0-50	50	-90	-	—	50	—	—
50-150	100	-89	345	1.75	99.98	+1.69	-0.45
150-250	100	-89.5	340	0.87	100	+0.82	-0.30
250-350	100	-89.5	275	0.87	100	+0.08	-0.87
350-450	100	-90	-	—	100	—	—
450-550	100	-89.5	285	0.87	100	+0.23	-0.84
550-650	100	-90	-	—	100	—	-
650-750	100	-89	220	1.75	99.98	-1.34	-1.12
750-850	100	-88.5	200	2.62	99.97	-2.46	-0.90
850-950	100	-89.5	240	0.87	100	-0.44	-0.75
950-1050	100	-88	240	3.49	99.94	-1.75	-3.02
1050-1150	100	-86	235	6.98	99.76	-4.00	-5.72
1150-1175	25	-85	247	2.18	24.90	-0.85	-2.01

	Stat.	Coords.		Elev.
(Collar)	0	45318.95 N	27471.10 E	5537.90
	50	"	"	5487.90
	150	45320.64	27470.65	5387.92
	250	45321.46	27470.35	5287.92
	350	45321.54	27469.48	5187.92
	450	"	"	5087.92
	550	45321.77	27468.64	4987.92
	650	"	"	4887.92
	750	45320.43	27467.52	4787.94
	850	45317.97	27466.62	4687.97
	950	45317.53	27465.87	4587.97
	1050	45315.78	27462.85	4488.03
	1150	45311.78	27457.13	4388.27
	1175TD	45310.93	27455.12	4363.37