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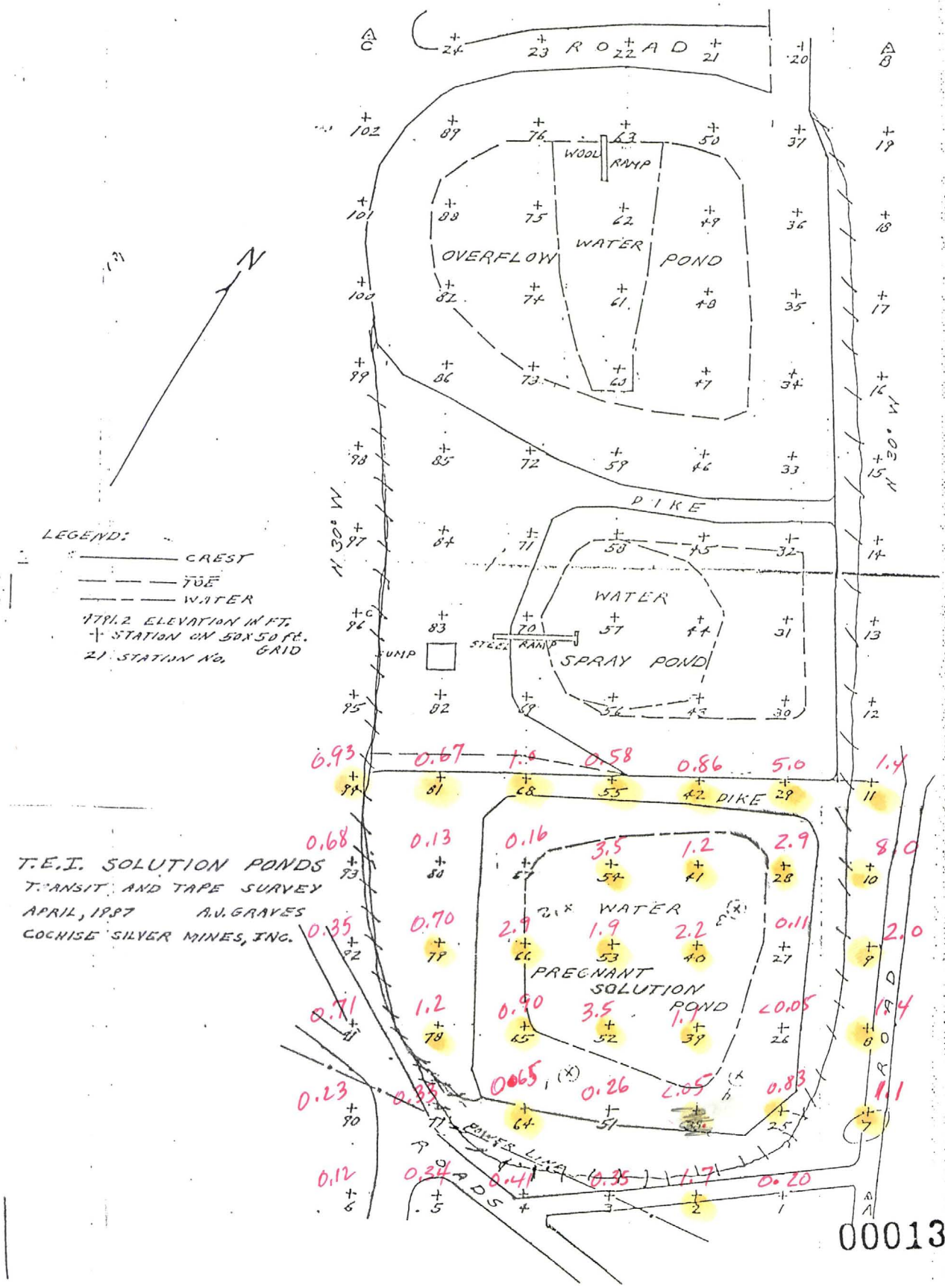
Volume 8, Book 18

TOMBSTONE
Mining District
Cochise County
Arizona

CSM / PBR Environmental Clean-up & Monitoring Additional Data

SOIL SAMPLE REPORT FROM ARIZONA TESTING LABORATORIES
TOTAL CYANIDE
6/18/1987



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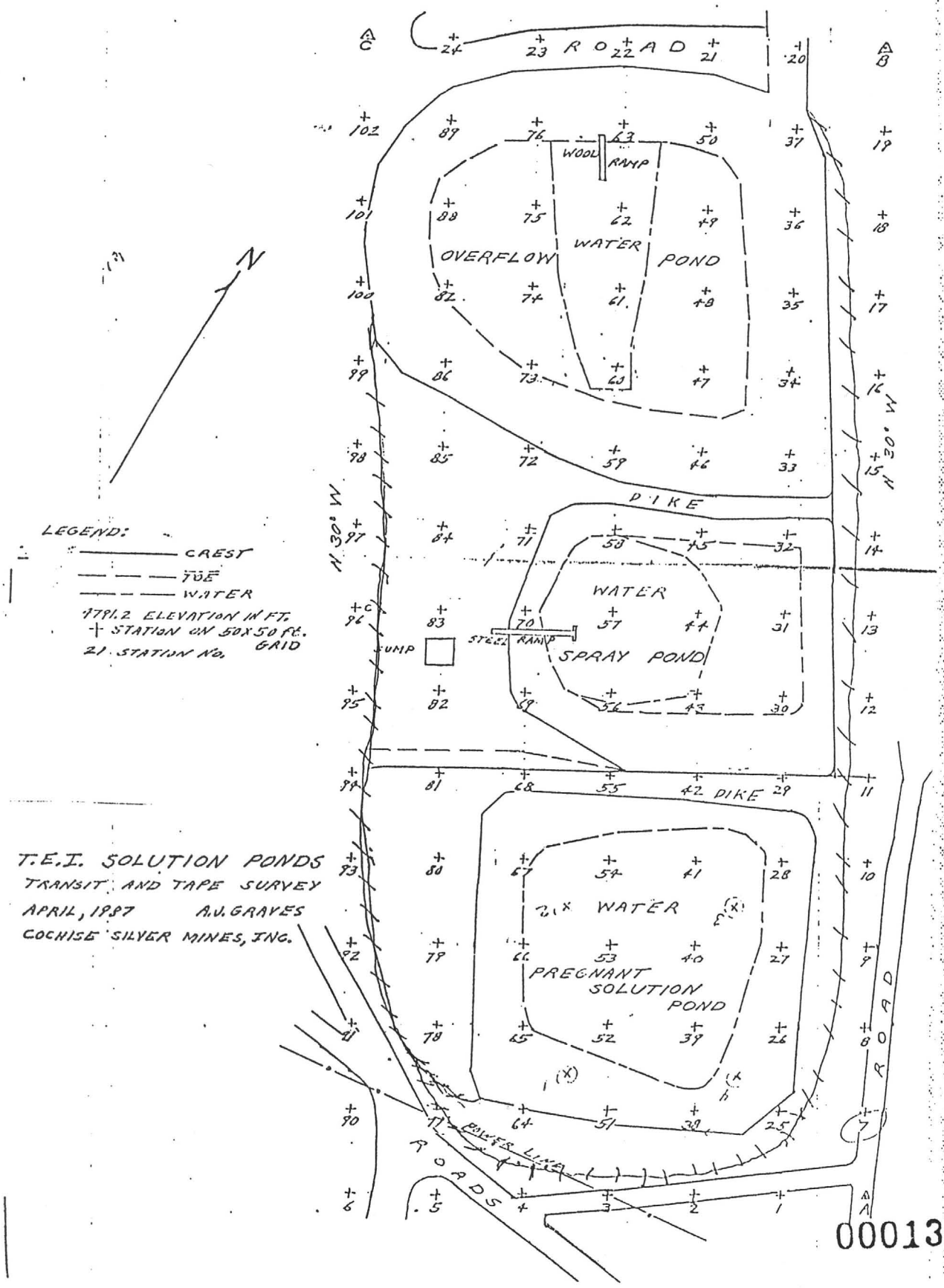
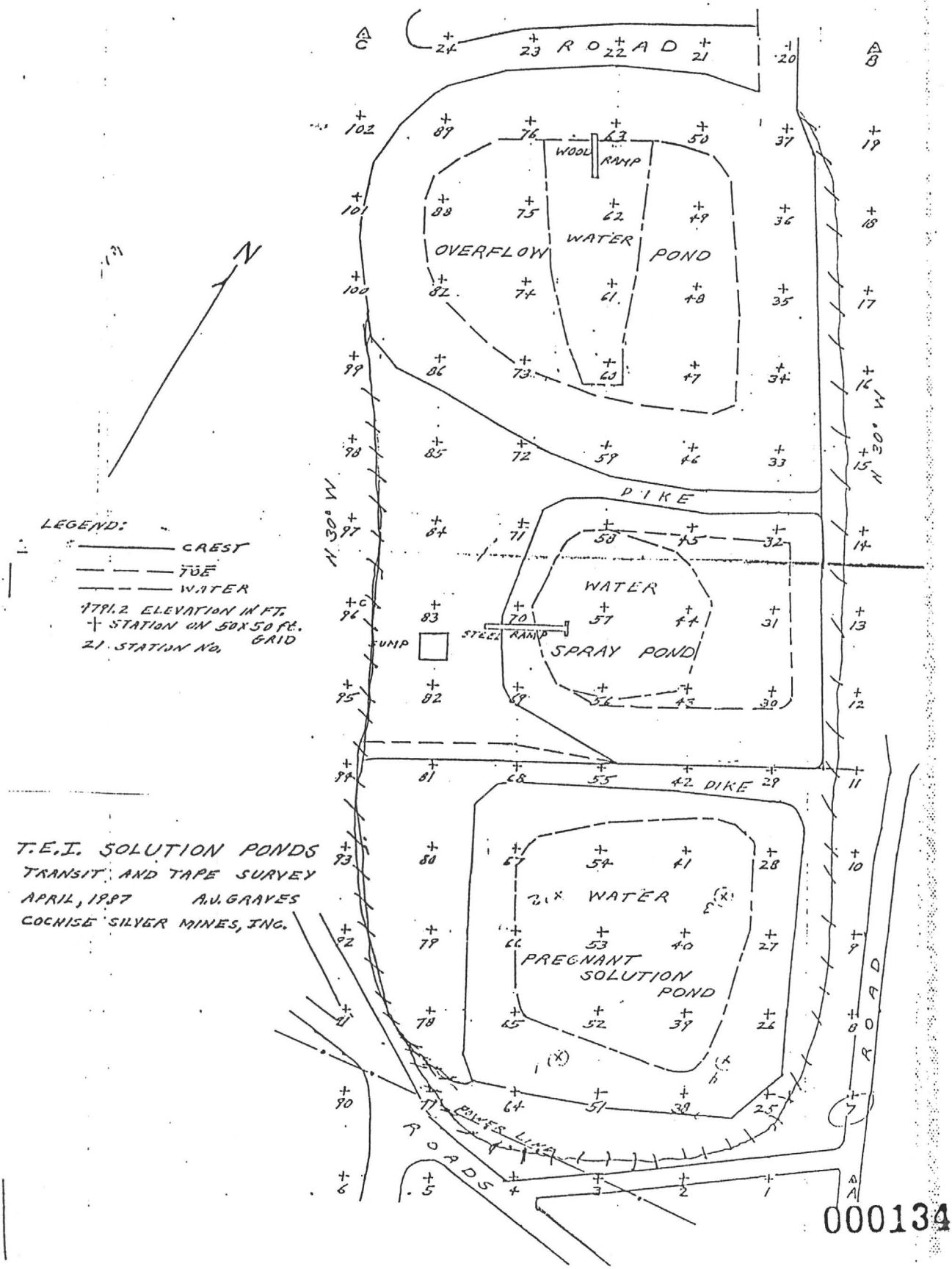

ROAD
WOOD RAMP
OVERFLOW
WATER
POND
N
LEGEND:
CREST
TOE
WATER
4791.2 ELEVATION IN FT.
+ STATION ON 50X50 FT. GRID
21 STATION No.
N 30° W
DIKE
WATER
SPRAY POND
PUMP
STEEL RAMP
DIKE
WATER
PREGNANT
SOLUTION
POND
ROADS
POWER LINE
ROAD
T.E.I. SOLUTION PONDS
TRANSIT AND TAPE SURVEY
APRIL, 1987 A.J. GRAVES
COCHISE SILVER MINES, INC.

000134


ROAD
WOOD RAMP
OVERFLOW
WATER
POND
DIKE
WATER
SPRAY POND
STEEL RAMP
SUMP
DIKE
WATER
PREGNANT
SOLUTION
POND
ROAD
ROADS
N 30° W
N 30° W
N
LEGEND:
CREST
TOE
WATER
1791.2 ELEVATION IN FT.
+ STATION ON 50X50 FT. GRID
21 STATION No.
T.E.I. SOLUTION PONDS
TRANSIT AND TAPE SURVEY
APRIL, 1987 A.J. GRAVES
COCHISE SILVER MINES, INC.

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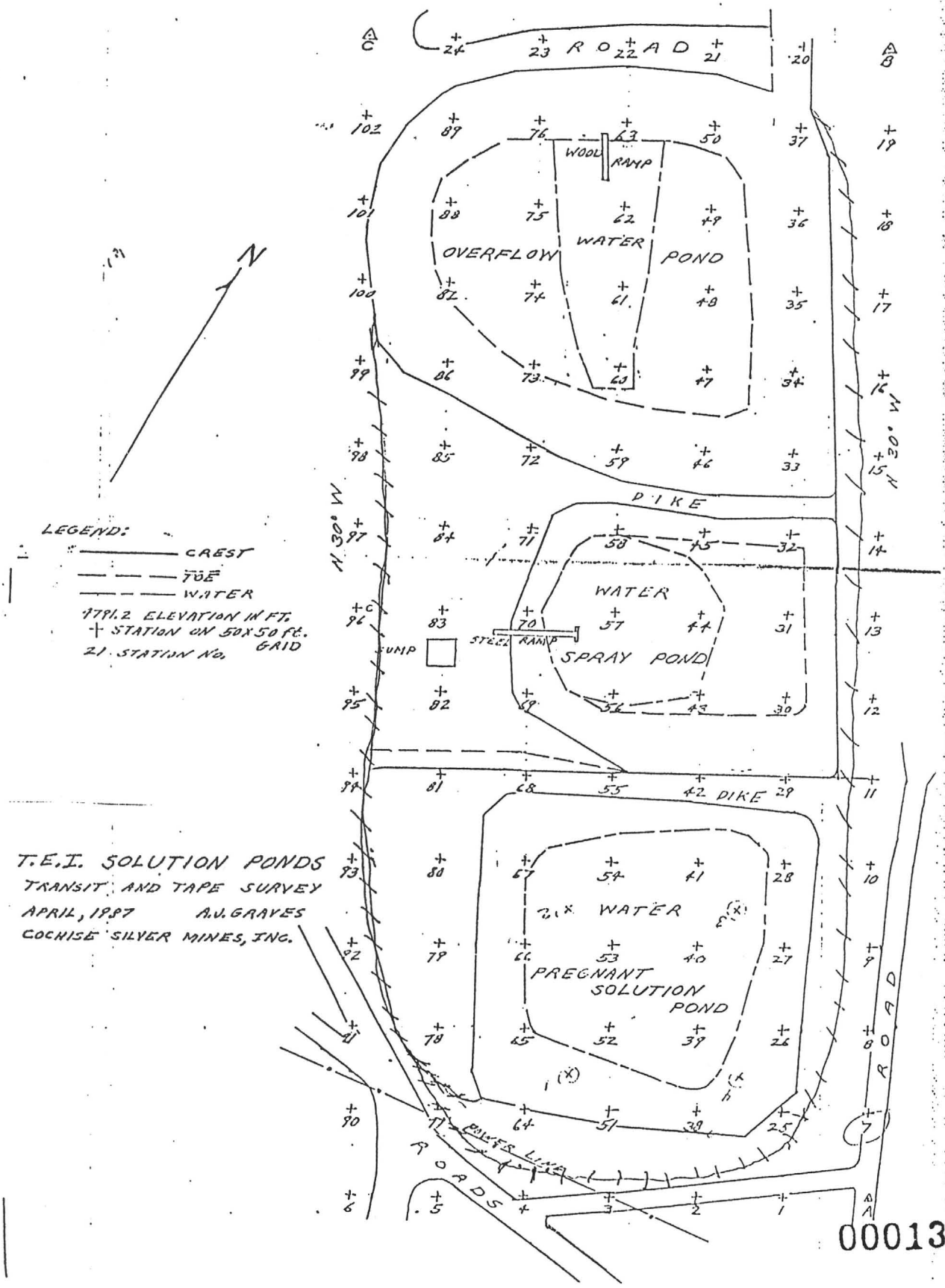
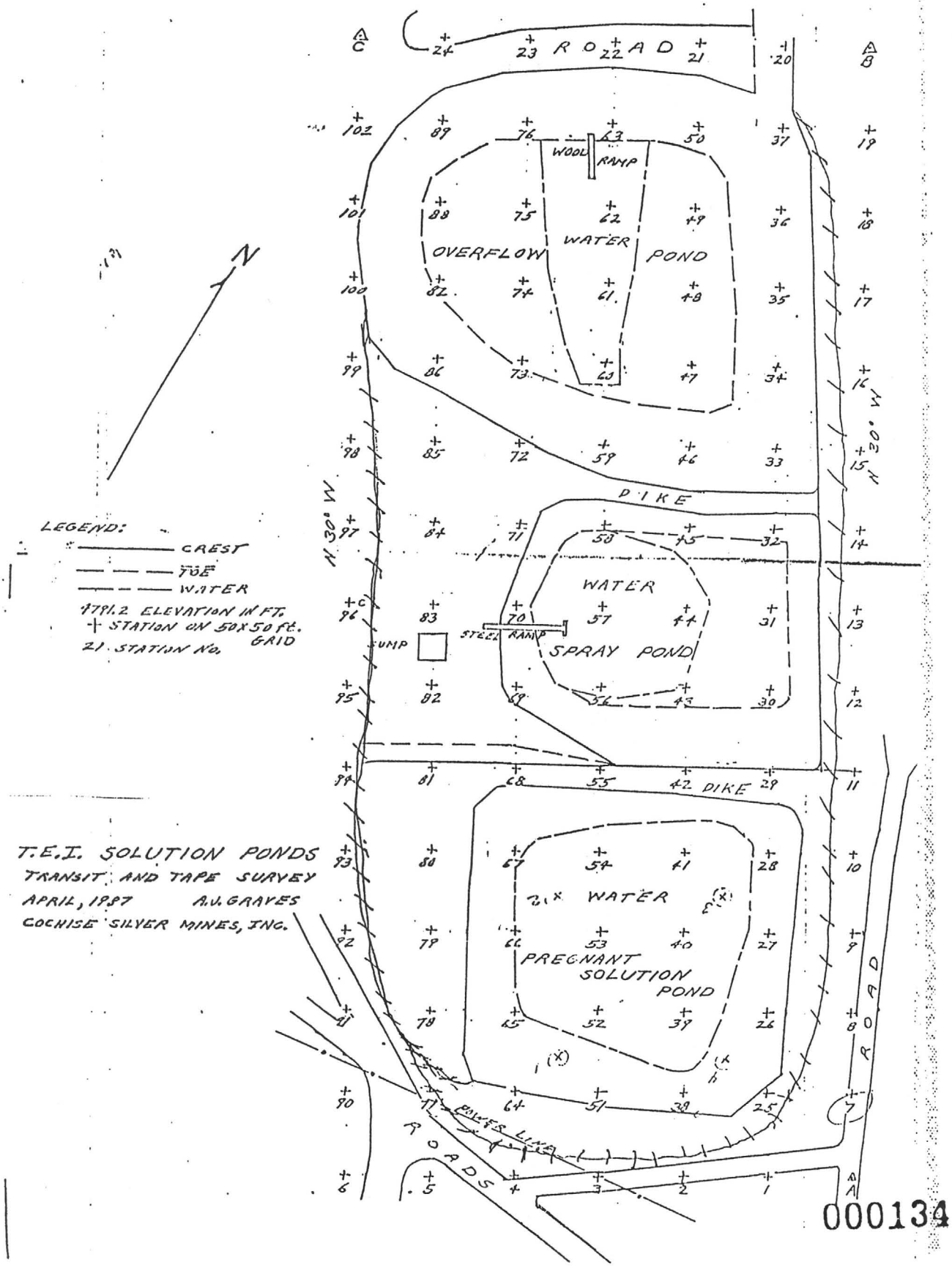

ROAD
WOOD RAMP
OVERFLOW WATER POND
N
N 30° W
DIKE
LEGEND:
CREST
TOE
WATER
9791.2 ELEVATION IN FT.
+ STATION ON 50X50 ft. GRID
21 STATION No.
WATER
SUMP
STEEL RAMP
SPRAY POND
DIKE
T.E.I. SOLUTION PONDS
TRANSIT AND TAPE SURVEY
APRIL, 1987 A.J. GRAVES
COCHISE SILVER MINES, INC.
WATER
PREGNANT SOLUTION POND
ROAD
ROADS
POWER LINE


ROAD
WOOL RAMP
OVERFLOW
WATER
POND
DIKE
WATER
SPRAY POND
STEEL RAMP
SUMP
DIKE
WATER
PREGNANT
SOLUTION
POND
PAYNES LINE
ROADS
ROAD
N 30° W
N 30° W
N
LEGEND:
CREST
TOE
WATER
4781.2 ELEVATION IN FT.
+ STATION ON 50X50 ft. GRID
21. STATION No.
T.E.I. SOLUTION PONDS
TRANSIT AND TAPE SURVEY
APRIL, 1987 A.V. GRAVES
COCHISE SILVER MINES, INC.

000134

INDEX

Record #73 [8:18:1-39] <well sampling log>
Lindroos, Gary A. (01/19/87)
Well Sampling Log Book - 1/19/87 thru 6/15/89.
PBR Minerals, Inc., Tombstone, AZ.

Record #103 [8:18:134-136,331] <pond maps>
Graves, A. J. (04/01/87)
Maps of cyanide solution ponds showing sampling stations.
Cochise Silver Mines, Inc., Tombstone, AZ.

Record #86 [8:18:54-56] <tailings analysis>
Lindroos, Gary A. (05/01/87)
Assay of Sandscreen Discharge - by Bottle Roll.
Cochise Silver Mines, Inc., Tombstone, AZ.

Record #74 [8:18:40] <tailings sample analysis>
Drake, Robert J. (05/11/87)
Report of Laboratory Tests - Impoundment Tailings.
Arizona Testing Laboratories, Phoenix, AZ.

Record #75 [8:18:41] <letter>
Lindroos, Gary A. (05/26/87) Letter To: AZ Testing Lab.
Enclosure of 41 soil samples for total cyanide analysis.
Cochise Silver Mines, Inc., Tombstone, AZ.

Record #87 [8:18:57] <slimes assays>
Lindroos, Gary A. (06/04/87)
Slimes Assays.
Cochise Silver Mines, Inc., Tombstone, AZ.

Record #76 [8:18:42] <letter>
Lindroos, Gary A. (06/09/87) Letter To: AZ Testing Lab.
Enclosure of 14 soil samples for mercury analysis.
Cochise Silver Mines, Inc., Tombstone, AZ.

Record #77 [8:18:43] <letter>
Lindroos, Gary A. (06/09/87) Letter To: AZ Testing Lab.
Enclosure of 4 soil samples for total cyanide analysis.
Cochise Silver Mines, Inc., Tombstone, AZ.

Record #78 [8:18:44] <tailings sample analysis>
Drake, Robert J. (06/12/87)
Report of Laboratory Tests - Impoundment Tailings.
Arizona Testing Laboratories, Phoenix, AZ.

Record #79 [8:18:45] <letter>
Lindroos, Gary A. (06/18/87) Letter To: AZ Testing Lab.
Enclosure of 4 impound tailings samples for total cyanide analysis.
Cochise Silver Mines, Inc., Tombstone, AZ.

Record #80 [8:18:46-48] <tailings sample analysis>
Drake, Robert J. (06/18/87)
Report of Laboratory Tests - Impoundment Tailings.
Arizona Testing Laboratories, Phoenix, AZ.

Record #104 [8:18:137] <tailings sample analysis>
Drake, Robert J. (06/18/87)
Report of Laboratory Tests - Pregnant Solution Pond.
Arizona Testing Laboratories, Phoenix, AZ.

Record #81 [8:18:49] <tailings sample analysis>
Drake, Robert J. (06/23/87)
Report of Laboratory Tests - Impoundment Tailings.
Arizona Testing Laboratories, Phoenix, AZ.

Record #82 [8:18:50] <carbon analysis>
Smith, Kathryn W. (07/02/87)
Laboratory analysis of carbon for mercury content.
Smith & Smith Environmental Consultants, Sierra Vista, AZ.

Record #109 [8:18:283-284] <letter>
Kennett, Roger. (07/10/87) Letter To: Moyes, Jay I.
Cochise Silver Mines, Inc., Renewal of Permit No. G-0011-02.
Arizona Department of Environmental Quality, Phoenix, AZ.

Record #88 [8:18:58-62,65-68] <lab analyses>
Lindroos, Gary A. (07/13/87)
Various analyses for cyanide of ore, slimes, tailings, and solution.
Cochise Silver Mines, Inc., Tombstone, AZ.

Record #83 [8:18:51] <letter>
Lindroos, Gary A. (07/13/87) Letter To: AZ Testing Lab.
Enclosure of 4 ore samples for mercury analysis.
Cochise Silver Mines, Inc., Tombstone, AZ.

Record #85 [8:18:53] <ore analysis>
Smith, Kathryn W. (07/14/87)
Laboratory analysis of ore samples for mercury content.
Smith & Smith Environmental Consultants, Sierra Vista, AZ.

Record #84 [8:18:52] <ore assay>
McLean, Claude E. (07/17/87)
Assay Certificate for mercury - ore samples.
Arizona Testing Laboratories, Phoenix, AZ.

Record #89 [8:18:63] <self-monitoring report>
Smith & Smith. (11/03/87)
Groundwater Quality Protection Permit Self-Monitoring Report Form - CSM Old Preg Pond.
Smith & Smith Environmental Consultants, Sierra Vista, AZ.

Record #90 [8:18:64-65] <self-monitoring report>
Smith & Smith. (11/05/87)
Groundwater Quality Protection Permit Self-Monitoring Report Form - CSM Impound West.
Smith & Smith Environmental Consultants, Sierra Vista, AZ.

Record #105 [8:18:138-250] <self-monitoring report>
Smith & Smith. (11/10/87)
Groundwater Quality Protection Permit Self-Monitoring Report Forms -
Old Preg Pond from 11/10/87 thru 1/29/88.
Smith & Smith Environmental Consultants, Sierra Vista, AZ.

Record #102 [8:18:129-133] <pond analyses>
Lindroos, Gary A. (01/08/88)
Pond Clean-up log Book, 1/8/88 thru 7/25/88.
PBR Minerals, Inc., Tombstone, AZ.

Record #91 [8:18:69] <tailings pond analyses>
Lindroos, Gary A. (02/01/88)
Cyanide analysis of various tailings pond station samples.
Cochise Silver Mines, Inc., Tombstone, AZ.

Record #108 [8:18:280-281] <letter report>
Lindroos, Gary A. (02/08/88) Letter To: Nixon, Perry.
Results of well assays and pond clean-up.
PBR Minerals, Inc., Tombstone, AZ.

Record #92 [8:18:70-71,285] <letter>
Kennett, Roger. (02/16/88) Letter To: Moyes, Jay I.
Cochise Silver Mines, Inc., Groundwater Quality Protection Permit No. G-0011-02.
Arizona Department of Environmental Quality, Phoenix, AZ.

Record #93 [8:18:72,282] <letter>
Moyes, Jay I. (02/19/88) Letter To: Harper, Raymond.
Enclosure of letter dated February 16, 1988 from Roger Kennett.
Meyer, Hendricks, Victor, Osborn & Maledon, Phoenix, AZ.

Record #94 [8:18:73-76,286-291] <letter>
Escapule, Dustin. (03/02/88) Letter To: Moyes, Jay.
Removal of contaminated materials form Old Preg Pond and Lined Pond.
PBR Minerals, Inc., Tombstone, AZ.

Record #107 [8:18:261-279] <self-monitoring report>
Smith & Smith. (03/04/88)
Groundwater Quality Protection Permit Self-Monitoring Report Forms -
Pad Expansion East & West, 3/4/88 thru 4/20/88.
Smith & Smith Environmental Consultants, Sierra Vista, AZ.

Record #110 [8:18:292-293] <letter report>
Escapule, Dustin. (03/07/88) Letter To: Moyes, Jay I.
Cleanup Progress Report.
PBR Minerals, Inc., Tombstone, AZ.

Record #111 [8:18:294-299] <letter report>
Lindroos, Gary A. (03/31/88) Letter To: Nixon, Perry.
Assay results for TEI Wells, City of Tombstone Well, and Tap Water.
PBR Minerals, Inc., Tombstone, AZ.

Record #95 [8:18:77] <letter>
Thatcher, Bruce K. (07/14/88) Letter To: Lindroos, Gary A.
ADEQ site visit.
Arizona Department of Environmental Quality, Phoenix, AZ.

Record #96 [8:18:78-106,302-325] <memo>
Thatcher, Bruce K. (09/21/88) Letter To: Kennett, Roger.
PBR Minerals, Inc. Temporary Groundwater Quality Protection Permit.
Arizona Department of Environmental Quality, Phoenix, AZ.

Record #97 [8:18:107-108,300-301] <letter>
Kennett, Roger. (09/29/88) Letter To: Moyes, Jay I.
PBR Minerals, Incorporated, Groundwater Quality Protection Permit No. G-0019-02T - Site Closure Plan.
Arizona Department of Environmental Quality, Phoenix, AZ.

Record #112 [8:18:326-327] <letter>
Ashworth, J. Michael. (10/03/88) Letter To: Rouse, Jim.
Neutralization of complex cyanide in clean-up area and site closure.
PBR Minerals, Inc., Tombstone, AZ.

Record #98 [8:18:109-115] <pond sample analyses>
Lindroos, Gary A. (10/07/88)
Pond Clean-up cyanide analyses, 10/7/88 thru 10/27/88.
PBR Minerals, Inc., Tombstone, AZ.

Record #99 [8:18:116-126] <memo>
Lindroos, Gary A. (11/01/88) Letter To: Ashworth, Mike.
Pond Clean-up (CN Testing).
PBR Minerals, Inc., Tombstone, AZ.

Record #115 [8:18:332-335] <letter>
Moyes, Jay I. (11/06/88) Letter To: Gessner, Richard A.
Revised Notice of Intention to Drill: PBR Minerals, Inc.
Meyer, Hendricks, Victor, Osborn & Maledon, Phoenix, AZ.

Record #113 [8:18:328-329] <letter>
Kennett, Roger. (11/18/88) Letter To: Rouse, Jim V.
Addendum to Closure Plan for PBR Minerals Temporary Groundwater Quality Protection Permit No. G-0019-02T.
Arizona Department of Environmental Quality, Phoenix, AZ.

Record #114 [8:18:330] <memo>
Rouse, Jim V. (11/23/88) Letter To: Ashworth, Mike.
Letter November 18, 1988 from Kennett, response to my October 13, 1988 letter.
Geochemical Engineering Inc., Lakewood, CO.

Record #100 [8:18:127] <cyanide analyses>
Lindroos, Gary A. (12/02/88)
Cyanide analyses of wells, pond, and tailings.
PBR Minerals, Inc., Tombstone, AZ.

Record #101 [8:18:128] <pond analyses>
Lindroos, Gary A. (12/09/88)
Pond Clean-up cyanide analyses.
PBR Minerals, Inc., Tombstone, AZ.

Record #116 [8:18:336-344] <well driller report>
Titan Drilling. (01/29/89)
Well Driller Report.
Titan Drilling, Benson, AZ.

Record #106 [8:18:251-260] <leach pad analyses>
Lindroos, Gary A. (02/20/89)
Pad Neutralization Clean-up log Book, 2/20/89 thru 4/20/89.
PBR Minerals, Inc., Tombstone, AZ.

Well Sampling Log

[redacted]

P&R Minerals, Inc.

Well Sampling Log Book

1987 1988 1989

NOTEBOOK

40 SHEETS

8 1/16 IN. X 10 11/32 IN. WIDE RULED

Distributed by B and E Sales Company Inc;
Bloomfield Hills, MI 48013

MADE IN BRAZIL

000001

Well Sampling Log

Testing Method
Hach Model CYN 3
Test Kit

Date	Location	Mg/L Free CN	Remarks
1-19-87	Well 1	Nil	
"	Well 2	Nil	
1-20-87	Well 2	Nil	
1-21-87	Well 2	Nil	
1-22-87	Well 2	Nil	
1-23-87	Well 2	Nil	
1-26-87	Well 1	Nil	
"	Well 2	Nil	
1-27-87	Well 2	Nil	
1-28-87	Well 2	Nil	
1-29-87	Well 2	Nil	
1-30-87	Well 2	Nil	
2-2-87	Well 2	Nil	
2-3-87	Well 2	Nil	
2-4-87	Well 2	Nil	
2-5-87	Well 2	Nil	
2-6-87	Well 1	Nil	Samples sent to Arizona Testing Labs for Analysis
"	Well 2	Nil	
"	Tombstone City Well #1	Nil	
"	Tap Water (Lab)	Nil	
"	Pond Leak Detection System	No moisture collected or Detectable	
2-9-87	Well 2	Nil	
2-10-87	Well 2	Nil	
2-11-87	Well 2	Nil	
2-12-87	Well 2	Nil	
2-13-87	Well 2	Nil	

Well Sampling Log

Date	Location	Free CN Mg/L	Remarks
2-16-87	Well 1	Nil	
"	Well 2	Nil	
"	Pond Leak Detection Monitoring System	No Moisture collected or detected	
2-17-87	Well 2	Nil	
2-18-87	Well 2	Nil	
2-19-87	Well 2	Nil	
2-20-87	Well 2	Nil	
"	Pond Leak Detection System	None Detected - No Moisture Collected	
"	Well 1	Nil	
2-23-87	Well 2	Nil	
2-~~23~~ 24-87	Well 2	Nil	
2-~~24~~ 25-87	Well 2	Nil	
2-26-87	Well 2	Nil	
2-27-87	Well 1	Nil	
"	Well 2	Nil	
3-2-87	Well 2	Nil	
3-3-87	Well 2	Nil	
3-4-87	Well 2	Nil	
3-5-87	Well 2	Nil	
3-6-87	Well 1	Nil	
"	Well 2	Nil	
"	Leak Detection System (Pond)	None Detected - No Moisture Collected	
3-7-87	Well 2	Nil	
3-9-87	Well 2	Nil	
3-10-87	Well 2	Nil	
3-11-87	Well 2	Nil	
3-12-87	Well 2	Nil	

Well Sampling Log

Date	Location	Mg/L Free CN	Remarks
3-13-87	Well 1	Nil	Samples to Arizona Testing Labs
"	Well 2	Nil	
"	Tombstone City Well No. 1	Nil	
"	Tombstone Tap Water (Lab)	Nil	
"	Pond Leak Detection System	No Moisture Detected	
3-14-87	Well 2	Nil	
3-16-87	Well 2	Nil	
3-17-87	Well 2	Nil	
3-18-87	Well 2	Nil	
3-19-87	Well 2	Nil	
3-20-87	Well 1	Nil	
"	Well 2	Nil	
"	Leak Detection System (Pond)	No Moisture Detected	
3-21-87	Well 2	Nil	
3-23-87	Well 2	Nil	
3-24-87	Well 2	Nil	
3-25-87	Well 2	Nil	
3-26-87	Well 2	Nil	
3-27-87	Well 1	Nil	
"	Well 2	Nil	
"	Leak Detection System (Pond)	No Moisture Detected	
3-28-87	Well 2	Nil	
3-30-87	Well 2	Nil	
3-31-87	Well 2	Nil	
4-1-87	Well 2	Nil	
4-2-87	Well 2	Nil	
4-3-87	Well 1	Nil	
"	Well 2	Nil	
"	Leak Detection System (Pond)	Nil	

Well Sampling Log

Date	Location	Mg/L Free CN	Remarks
4-4-87	Well 2	Nil	
4-6-87	Well 2	Nil	
4-7-87	Well 2	Nil	
4-8-87	Well 2	Nil	
4-9-87	Well 2	Nil	
4-10-87	Well 1	Nil	
"	Well 2	Nil	
"	Pond Leak Detection System	No Moisture Detected	
4-11-87	Well 2	Nil	
4-13-87	Well 2	Nil	
4-14-87	Well 2	Nil	
4-15-87	Well 2	Nil	
4-16-87	Well 2	Nil	
4-17-87	Well 2	Nil	
4-18-87	Well 1	Nil	
"	Well 2	Nil	
"	Pond Leak Detection System	No Moisture Detected	
4-20-87	Well 1	Nil	
	Well 2	Nil	
4-21-87	Well 2	Nil	
4-22-87	Well 2	Nil	
4-23-87	Well 2	Nil	
4-24-87	Well 1	Nil	
"	Well 2	Nil	
"	Pond Leak Detection System	No Moisture Detected	
4-25-87	Well 2	Nil	
4-27-87	Well 2	Nil	

Well Sampling Log

Date	Sample Location	Mg/L Free CN	Remarks
4-28-87	Well 2	Nil	
4-29-87	Well 2	Nil	
4-30-87	Well 2	Nil	
	Well 1	Nil	
	Leak Detection Systems	No Moisture Detected	
5-4-87	Well 1	Nil	
5-5-87	Well 2	Nil	
5-6-87	Well 2	Nil	
5-7-87	Well 2	Nil	
5-8-87	Well 1	Nil	
✓	Well 2	Nil	
✓	Leak Detection Systems	No Moisture Detected	
5-9-87	Well 2	Nil	
5-11-87	Well 2	Nil	
5-12-87	Well 2	Nil	
5-13-87	Well 2	Nil	
5-14-87	Well 2	Nil	
5-15-87	Well 1	Nil	Samples to AZ Testing Labs
✓	Well 2	Nil	
✓	Leak Detection Systems	No Moisture Detected	
5-19-87	Well 2	Nil	
5-21-87	Well 2	Nil	
✓	Well 1	Nil	
5-22-87	Well 2	Nil	
5-26-87	Well 2	Nil	
5-27-87	Well 2	Nil	
5-28-87	Well 2	Nil	
5-28-87	Well 1	Nil	
5-29-87	Well 2	Nil	

Well Sample Log

Date	Sample Location	Mg/L -CN	Remarks
5-31-87	Well 1	Nil	
✓	Well 2	Nil	
✓	Leak Detection Systems	No Moisture Detected	
6-1-87	Well 2	N.L	
6-2-87	Well 2	N.L	
6-3-87	Well 2	Nil	
6-4-87	Well 2	Nil	
6-5-87	Well 1	Nil	
✓	Well 2	Nil	
✓	Leak Detection Systems	No Moisture Detected	
6-6-87	Well 2	<.01	Instrumentation HACH DR 1A
6-8-87	Well 2	<.01	
6-9-87	Well 2	<.01	
6-10-87	Well 2	<.01	
6-11-87	Well 2	<.01	
6-12-87	Well 1	<.01	
✓	Well 2	<.01	
✓	Leak Detection Systems	No Moisture Detected	
6-15-87	Well 2	<.01	Nitrates as N 2.2 mg/L / Hg <.3 µg/L
✓	Well 3	<.01	
6-16-87	Well 1	<.01	
✓	Well 2	<.01	Smith & Smith Sampled for State Reporting
✓	Well 3	<.01	
✓	City Tap Water	<.01	
✓	City well #1	<.01	
6-17-87	Well 2	<.01	
6-18-87	Well 2	<.01	

Well Sample Log

Date	Sample I.D.	Mg/L Free CN	Nitrate As N	Hg	Remarks
6-19-87	Well 1	<.01	2.5	<.003	
"	Well 2	<.01	10.5	<.003	
"	Well 3	<.01	12.8	<.003	
"	Leak Detection Systems	—	—	—	No Moisture Detected
6-20-87	Well 2	<.01			
6-22-87	Well 2	<.01			
6-23-87	Well 2	<.01			
6-24-87	Well 2	<.01			
6-25-87	Well 2	<.01			
6-26-87	Well 1	<.01	2.6	<.003	
"	Well 2	<.01	9.5	<.003	
"	Well 3	<.01	12.8	<.003	
6-27-87	Well 2	<.01			
6-29-87	Well 2	<.01			
6-30-87	Well 2	<.01			
7-1-87	Well 1	<.01	2.7	<.003	
	Well 2	<.01	9.5	<.003	
	Well 3	<.01	12.7	<.003	
	Leak Detection Systems	No Moisture Detected			
7-2-87	Well 2	<.01			
7-3-87	Well 2	<.01			
7-6-87	Well 2	<.01			
7-7-87	Well 2	<.01			
7-8-87	Well 2	<.01			
7-9-87	Well 2	<.01			
7-10-87	Well 1	<.01			
	Well 2	<.01			
	Well 3	<.01			
	Leak Detection Sytems	No Moisture Detected			

Well Sample Log

Date	Sample I.D.	Mg/L CN	Nitrates (As N) Mg/L	Mg/L Hg	
7-11-87	Well 2	<.01	6.4	<.003	
7-13-87	Well 2	<.01			
7-14-87	Well 2	<.01			
7-15-87	Well 2	<.01			
7-16-87	Well 1	<.01			
	Well 2	<.01			
	Well 3	<.01			
7-17-87	Well 2	<.01			
7-20-87	Well 2	<.01			
7-21-87	Well 2	<.01			
7-22-87	Well 2	<.01			
7-23-87	Well 1	<.01			sampled with Keith
	Well 2	<.01			
7-24-87	Well 1	<.01			
"	Well 2	<.01			
"	Well 3	<.01			
7-27-87	Well 2	<.01			
7-28-87	Well 2	<.01			
7-29-87	Well 2	<.01			
7-30-87	Well 2	<.01			
7-31-87	Well 1	<.01	2.8	<.005	
"	Well 2	<.01	3.4	<.003	
"	Well 3	<.01	2.7	<.005	
8-3-87	Well 2	<.01			
8-4-87	Well 2	<.01			
8-5-87	Well 2	<.01			
8-6-87	Well 1	<.01	2.7	<.003	
	Well 2	<.01	18.5	<.003	
	Well 3	<.01	10.5	<.003	
	Tap Water	<.01	1.8	<.003	

Well Sample Log

Date	Sample I.D.	Mg/L CN	Nitrate(N)	Hg	Remarks
8-7-87	well 1	<.01			
"	well 2	<.01			
"	well 3	<.01			
8-10-87	Well 2	<.01			
8-11-87	Well 2	<.01			
8-12-87	Well 2	<.01			
8-13-87	Well 1	<.01			
8-14-87	Well 2	<.01			
"	Well 3	<.01			
"	well 1	<.01			
8-15-87	Well 2	<.01			
8-17-87	Well 2	<.01			
"	Pond Leak Detection	<.01			
8-18-87	Well 2	<.01			Smith & Smith Labs will sample Leak Detection ON 8-19-87
"	Pond Leak Detection	<.01			
"	Impound Leak Det.	No Moisture Detected			
8-19-87	well 2	<0.01			Smith & Smith Sampled L.D.S.
"	Pond Leak Detection	<0.01			
8-20-87	Well 2	<0.01			
"	Pond Leak Detection	<0.01			
8-21-87	Well 1	<0.01			
"	Well 2	<0.01			
"	Well 3	<0.01			
"	Pond Leak Det	<0.01			
"	Leak Det Impound	No Moisture Detected			
8-22-87	Well 2	<0.01			
8-24-87	Well 2	<0.01			

Well Sample Log

Date	Sample ID	Mg/L Free CN	Mg/L Nitrates (as N)	Mg/L Hg	Remarks
8-25-87	Well 2	< 0.01			
8-26-87	Well 2	< 0.01			
"	Pond Leak Detection	< 0.01			
8-27-87	Well 1	< 0.01	2.6	< 0.003	
"	Well 2	< 0.01	10.9	< 0.003	
"	Pond Leak Detection	< 0.01			
"	Impound Leak Detection	No Moisture			
"	Well 3	< 0.01	2.8	< 0.003	
8-28-87	Well 1	< 0.01			
"	Well 2	< 0.01			
"	Well 3	< 0.01			
8-31-87	Well 2	< 0.01			
9-1-87	Well 1	< 0.01			
"	Well 2	< 0.01			
"	Well 3	< 0.01			Ruth sampled well 3 (resample)
9-2-87	Well 2	< 0.01			
9-3-87	Well 2	< 0.01			
9-4-87	Well 2	< 0.01			
9-8-87	Well 2	< 0.01			
9-9-87	Well 1	< 0.01	2.6	< 0.003	Ruth Sampled well 1, 2 & 3 Lab Tap & Tombstone City well 1
"	Well 2	< 0.01	10.4	< 0.003	
"	Well 3	< 0.01	2.6	< 0.003	
9-10-87	Well 2	< 0.01			
9-11-87	Well 2	< 0.01			
"	Leak Detection Systems	No Moisture		Detected	
9-14-87	Well 2	< 0.01			
9-15-87	Well 2				

Well Sample Log

Date	Sample I.D.	Mg/L free CN	Mg/L Nitrate (N)	Mg/L Hg	Remarks
9-16-87	Well 2	< 0.01			
9-17-87	Well 2	< 0.01			
9-18-87	Well 1	< 0.01			
"	Well 2	< 0.01			
"	Well 3	< 0.01			
9-21-87	Well 2	< 0.01			
9-22-87	Well 2	< 0.01			
"	Leak Detection Systems	No Moisture Detected			
9-23-87	Well 2	< 0.01			
9-24-87	Well 2	< 0.01			
9-25-87	Well 1	< 0.01			
"	Well 2	< 0.01			
"	Well 3	< 0.01			
"	Leak Detection Systems	No Moisture Detected			
9-26-87	Well 2	< 0.01			
9-27-87	Well 2	< 0.01			
9-28-87	Well 2	< 0.01			
9-29-87	Well 2	< 0.01			
9-30-87	Well 2	< 0.01			
10-1-87	Well 1	< 0.01			
"	Well 2	< 0.01			
"	Well 3	< 0.01			
"	Leak Detection Systems	No Moisture Detected			
10-2-87	Well 2	< 0.01			
10-3-87	Well 2	< 0.01			
10-5-87	Well 2	< 0.01			
10-6-87	Well 2	< 0.01			

Date	Sample I.D.	Mg/L Free CN	Mg/L Nitrates (As N)	Mg/L Hg	Remarks
10-7-87	Well 1	< 0.01	2.4	< 0.003	
	Well 2	< 0.01	9.8	< 0.003	
	Well 3	< 0.01	2.6	< 0.003	
	Leak Detection Systems	No Moisture Detected			
10-8-87	Well 2	< 0.01			
10-9-87	Well 2	< 0.01			
10-10-87	Well 2	< 0.01			
10-12-87	Well 2	< 0.01			
10-13-87	Well 1	< 0.01			
✓	Well 2	< 0.01			
✓	Well 3	< 0.01			
✓	Leak Detection Systems	No Moisture Detected			
10-14-87	Well 2	< 0.01			
10-15-87	Well 2	< 0.01			
10-16-87	Well 2	< 0.01			
10-17-87	Well 2	< 0.01			
10-19-87	Well 2	< 0.01			
10-20-87	Well 1	< 0.01			
✓	Well 2	< 0.01			
✓	Well 3	< 0.01			
10-21-87	Well 2	< 0.01			
10-22-87	Well 2	< 0.01			
10-23-87	Well 1	< 0.01			
✓	Well 2	< 0.01			
✓	Well 3	< 0.01			
✓	Leak Detection Systems	No Moisture Detected			
10-26-87	Well 2	< 0.01			
10-27-87	Well 2	< 0.01			

Well Sampling Log

Date	Sample Location	Free CN Mg/L
10-28-87	Well 2	<0.01
10-29-87	Well 1	<0.01
✓	Well 2	<0.01
✓	Well 3	<0.01
✓	Leak Detection Systems	No Moisture Detected
10-30-87	Well 2	<0.01
10-31-87	Well 2	<0.01
11-2-87	Well 2	<0.01
11-3-87	Well 2	<0.01
11-4-87	Well 2	<0.01
11-5-87	Well 1	<0.01
✓	Well 2	<0.01
✓	Well 3	<0.01
✓	Leak Detection Systems	No Moisture Detected
11-6-87	Well 2	<0.01
11-7-87	Well 2	<0.01
11-9-87	Well 1	<0.01
✓	Well 2	<0.01
✓	Well 3	<0.01
11-10-87	Well 2	<0.01
11-11-87	Well 2	<0.01
	Leak Detection Systems	No Moisture Detected
11-12-87	Well 2	<0.01
11-13-87	Well 2	<0.01
11-14-87	Well 2	<0.01
10-15-87	Well 2	<0.01
10-16-87	Well 1	<0.01
	Well 2	<0.01
	Well 3	<0.01
	Leak Detection Systems	No Moisture Detected

Well Sampling Log

Date	Sample Location	mg/L free CN
11-17-87	Well 2	< 0.01
11-18-87	Well 2	< 0.01
11-19-87	Well 2	< 0.01
11-20-87	Well 1	< 0.01
~	Well 2	< 0.01
~	Well 3	< 0.01
~	Leak Detection Systems	No Moisture Detected
11-21-87	Well 2	< 0.01
11-23-87	well 2	< 0.01
11-24-87	well 2	< 0.01
11-25-87	well 2	< 0.01
11-27-87	well 1	< 0.01
~	Well 2	< 0.01
~	Well 3	< 0.01
~	Leak Detection Systems	No Moisture Detected ~~< 0.0~~
11-30-87	Well 2	< 0.01
12-1-87	Well 2	< 0.01
12-2-87	Well 1	< 0.01
~	Well 2	< 0.01
~	Well 3	< 0.01
~	Leak Detection Systems	No Moisture Detected
12-3-87	Well 2	< 0.01
12-4-87	Well 2	< 0.01
12-7-87	well 2	< 0.01
12-8-87	Well 1	< 0.01
~	Well 2	< 0.01
~	Well 3	< 0.01
~	Leak Detection Systems	No Moisture Detected

Well Sampling Log

Date	Sample Location	Mg/L free CN	Remarks
12-9-87	Well 2	< 0.01	
12-10-87	Well 2	< 0.01	
12-11-87	Well 2	< 0.01	
12-14-87	Well 2	< 0.01	
12-15-87	Well 2	< 0.01	
12-16-87	Well 2	< 0.01	
12-17-87	Well 2	< 0.01	
12-18-87	Well 1	< 0.01	
"	Well 2	< 0.01	
"	Well 3	< 0.01	
"	Leak Detection Systems	No Moisture Detected	
12-21-87	Well 2	< 0.01	
12-22-87	Well 2	< 0.01	
12-23-87	Well 1	< 0.01	
"	Well 2	< 0.01	
"	Well 3	< 0.01	
"	Leak Detection Systems	No Moisture Detected	
12-28-87	Well 2	< 0.01	
12-29-87	Well 1	< 0.01	
	Well 2	< 0.01	
	Well 3	< 0.01	
	Leak Detection Systems	No Moisture Detected	
12-30-87	Well 2	< 0.01	
1-4-88	Well 2	< 0.01	
1-5-88	Well 2	< 0.01	
1-6-88	Well 2	< 0.01	
1-7-88	Well 2	< 0.01	

Well Sampling Log

Date	Sample I.D.	Mg/L free Cl.	
1-8-88	Well 1	< 0.01	
✓	Well 2	< 0.01	
✓	Well 3	< 0.01	
✓	Leak Detection Systems	No Moisture Detected	
1-11-88	Well 2	< 0.01	
1-12-88	Well 2	< 0.01	
1-13-88	Well 2	< 0.01	
1-14-88	Well 1	< 0.01	City Tested 1 & 2 wells
✓	Well 2	< 0.01	
1-15-88	Well 2	< 0.01	
1-18-88	Well 2	< 0.01	
1-19-88	Well 1	< 0.01	
	Well 2	< 0.01	
	Well 3	< 0.01	
	Leak Detection Systems	No Moisture Detected	
1-20-88	Well 2	< 0.01	
1-21-88	Well 1	< 0.01	City Tested 1 & 2
	Well 2	< 0.01	
1-22-88	Well 2	< 0.01	
1-25-88	Well 1	< 0.01	
	Well 2	< 0.01	
	Leak Detection Systems	No Moisture Detected	
1-26-88	Well 2	< 0.01	
1-27-88	Well 2	< 0.01	
1-28-88	Well 2	< 0.01	
1-29-88	Well 1	< 0.01	
✓	Well 2	< 0.01	
✓	Leak Detection Systems	No Moisture Detected	

Date	Sample I.D.	Mg/L free CN	
2-1-88	Well 2	< 0.01	
2-2-88	Well 1	< 0.01	
"	Well 2	< 0.01	
"	Well 3	< 0.01	
"	Leak Detection Systems	No Moisture Detected	
2-3-88	Well 2	< 0.01	
2-4-88	Well 2	< 0.01	
2-5-88	Well 2	< 0.01	
2-8-88	Well 1	< 0.01	
"	Well 2	< 0.01	
2-9-88	Well 1	< 0.01	
"	Well 2	< 0.01	
"	Leak Detection Systems	No Moisture Detected	
2-10-88	Well 2	< 0.01	22 Mg/L Nitrates (as N)
2-11-88	Well 1	< 0.01	only tested wells
"	Well 2	< 0.01	
2-12-88	Well 1	< 0.01	
"	Well 2	< 0.01	
2-15-88	Well 1	< 0.01	
"	Well 2	< 0.01	
"	Well 3	< 0.01	
"	Leak Detection Systems	No Moisture Detected	
2-16-88	Well 2	< 0.01	
2-17-88	Well 2	< 0.01	
2-18-88	Well 2	< 0.01	
2-19-88	Well 2	< 0.01	
2-22-88	Well 1	< 0.01	
"	Well 2	< 0.01	
"	Leak Detection Systems	No Moisture Detected	

Well Sampling Log

Date	Sample ID	mg/L Free Cl	Remarks
2-23-88	Well 1	< 0.01	
✓	Well 2	< 0.01	
2-24-88	Well 1	< 0.01	
✓	Well 2	< 0.01	
2-25-88	Well 1	< 0.01	
✓	Well 2	< 0.01	
2-26-88	Well 1	< 0.01	
✓	Well 2	< 0.01	
2-29-88	Well 1	< 0.01	
✓	Well 2	< 0.01	
3-1-88	Well 2	< 0.01	
3-2-88	Well 1	< 0.01	
✓	Well 2	< 0.01	
✓	Leak Detection Systems	No Moisture Detected	
3-3-88	Well 2	< 0.01	
3-4-88	Well 2	< 0.01	
3-7-88	Well 1	< 0.01	
✓	Well 2	< 0.01	
3-8-88	Well 2	< 0.01	
3-9-88	Well 2	< 0.01	
3-10-88	Well 2	< 0.01	
3-11-88	Well 1	< 0.01	
✓	Well 2	< 0.01	
✓	Well 3	< 0.01	
✓	Leak Detection Systems	No Moisture Detected	
3-12-88	Well 2	< 0.01	
3-14-88	Well 2	< 0.01	
3-15-88	Well 2	< 0.01	

Date	Sample I.D.	Mg/L free CN	Remarks
3-16-88	Well 1	< 0.01	
✓	Well 2	< 0.01	
✓	Leak Detection Systems	No Moisture	Detected
3-17-88	Well 2	< 0.01	
3-18-88	Well 2	< 0.01	
3-21-88	Well 1	< 0.01	
✓	Well 2	< 0.01	
✓	Leak Detection Systems	< 0.01	
3-22-88	Well 2	< 0.01	
3-23-88	Well 2	< 0.01	
3-24-88	Well 2	< 0.01	
3-25-88	Well 2	< 0.01	
3-28-88	Well 1	< 0.01	
✓	Well 2	< 0.01	
✓	Leak Detection Systems	No Moisture Detected	
3-29-88	Well 2	Well Pump Motor being Repaired	
3-30-88	Well 2	" " " " "	
✓	Well 1	< 0.01	
3-31-88	Well 2	< 0.01	
4-1-88	Well 2	< 0.01	
4-2-88	Well 2	< 0.01	
4-4-88	Well 1	< 0.01	
✓	Well 2	< 0.01	
✓	Well 3	< 0.01	
✓	Tombstone City Well 1	< 0.01	
✓	Leak Detection Systems	No Moisture Detected	
4-5-88	Well 2	< 0.01	

Date	Location	Mg/L free CN	Remarks
4-6-88	Well 2	< 0.01	
4-7-88	Well 2	< 0.01	
4-8-88	Well 2	< 0.01	
4-11-88	Well 1	< 0.01	
✓	Well 2	< 0.01	
✓	Leak Detection Systems	No Moisture Detected	
4-12-88	Well 2	< 0.01	
4-13-88	Well 2	< 0.01	
4-14-88	Well 1	< 0.01	City of Tombstone sampled Wells 1 & 2
✓	Well 2	< 0.01	
4-15-88	Well 2	< 0.01	
4-18-88	Well 1	< 0.01	
✓	Well 2	< 0.01	
✓	Leak Detection Systems	No Moisture Detected	
4-19-88	Well 2	< 0.01	
4-20-88	Well 2	< 0.01	
4-21-88	Well 1	< 0.01	
✓	Well 2	< 0.01	
4-22-88	Well 2	< 0.01	
4-25-88	Well 1	< 0.01	
✓	Well 2	< 0.01	
✓	Leak Detection Systems	~~< 0.01~~ No Moisture Detected	
4-26-88	Well 2	< 0.01	
4-27-88	Well 2	< 0.01	
4-28-88	Well 2	< 0.01	
4-29-88	Well 2	< 0.01	
5-2-88	Well 2	< 0.01	
✓	Well 3	< 0.01	

Date	Sample I.D.	mg/L free CN
5-3-88	Well 1	< 0.01
~	Well 2	< 0.01
5-4-88	Well 2	< 0.01
5-5-88	Well 1	< 0.01
~	Well 2	< 0.01
~	Leak Detection Systems	No Moisture Detected
5-6-88	Well 2	< 0.01
5-9-88	Well 1	< 0.01
~	Well 2	< 0.01
~	Leak Detection Systems	No Moisture Detected
5-10-88	Well 2	< 0.01
5-11-88	Well 2	< 0.01
5-12-88	Well 2	< 0.01
5-13-88	Well 2	< 0.01
5-16-88	Well 1	< 0.01
~	Well 2	< 0.01
~	Leak Detection Systems	No Moisture Detected
5-17-88	Well 1	< 0.01
~	Well 2	< 0.01
5-18-88	Well 2	< 0.01
5-19-88	Well 2	< 0.01
5-20-88 - 6-1-88	Wells Shut down - No Power	
6-2-88	Well 1	< 0.01
~	Well 2	< 0.01
~	Leak Detection Systems	No Moisture Detected
6-3-88	Well 2	< 0.01
6-6-88	Well 2	< 0.01
6-7-88	Well 2	< 0.01
6-8-88	Well 2	< 0.01

Well Sampling Log

Date	Sample I.D.	Mg/L free CN	
6-9-88	Well 1	<0.01	City Tested 1 & 2
"	Well 2	<0.01	
"	Leak Detection Systems	No Moisture Detected	
6-10-88	Well 2	<0.01	
6-13-88	Well 1	<0.01	
"	Well 2	<0.01	
"	Leak Detection Systems	No Moisture Detected	
6-14-88	Well 2	<0.01	
6-15-88	Well 2	<0.01	
6-16-88	Well 2	<0.01	
6-17-88	Well 2	<0.01	City Tested 1 & 2
"	Well 1	<0.01	
6-20-88	Well 1	<0.01	
"	Well 2	<0.01	
"	Leak Detection Systems	No Moisture Detected	
6-21-88	Well 2	<0.01	
6-22-88	Well 2	<0.01	
6-23-88	Well 2	<0.01	
6-24-88	Well 1	<0.01	
"	Well 2	<0.01	
6-27-88	Well 1	<0.01	5.8 mg/L Nitrates As(N)
"	Well 2	<0.01	24.5 mg/L Nitrates As(N)
"	Leak Detection Systems	No Moisture Detected	
6-28-88	Well 2	<0.01	
6-29-88	Well 2	<0.01	
6-30-88	Well 2	<0.01	
7-1-88	Well 2	<0.01	

Well Sampling Log

		Mg/L free CN
7-5-88	Well 1	< 0.01
✓	Well 2	<0.01
✓	Leak Detection Systems	No Moisture Detected
7-6-88	Well 2	<0.01
7-7-88	Well 2	< 0.01
7-8-88	Well 2	<0.01
7-11-88	Well 1	< 0.01
✓	Well 2	< 0.01
✓	Leak Detection Systems	No Moisture Detected
7-12-88	Well 2	< 0.01
7-13-88	Well 2	<0.01
7-14-88	Well 2	< 0.01
7-18-88	Well 1	< 0.01
✓	Well 2	<0.01
✓	Leak Detection Systems	No Moisture Detected
7-19-88	Well 2	< 0.01
7-20-88	Well 2	< 0.01
7-21-88	Well 2	<0.01
7-22-88	Well 2	<0.01
7-25-88	Well 1	< 0.01
✓	Well 2	<0.01
✓	Leak Detection Systems	No Moisture Detected
7-26-88	Well 2	< 0.01
7-27-88	Well 2	< 0.01
7-28-88	Well 2	< 0.01
7-29-88	Well 2	< 0.01
8-1-88	Well 1	< 0.01
	Well 2	<0.01
	Well 3	<0.01
	Leak Detection Systems	No Moisture Detected

Date	Sample I.D.	Mg/L free Cl2
8-2-88	Well 2	< 0.01
8-3-88	Well 2	< 0.01
8-4-88	Well 2	< 0.01
8-5-88	Well 2	< 0.01
8-6-88	Well 2	< 0.01
8-8-88	Well 1	< 0.01
✓	Well 2	< 0.01
✓	Well 3	< 0.01
✓	Leak Detection Systems	No moisture detected
8-9-88	Well 2	< 0.01
8-10-88	Well 2	< 0.01
8-11-88	Well 2	< 0.01
8-12-88	Well 2	< 0.01
8-15-88	Well 1	< 0.01
✓	Well 2	< 0.01
✓	Leak Detection Systems	No moisture Detected
8-16-88	Well 2	< 0.01
8-17-88	Well 2	< 0.01
8-18 Thru 8-19-88	Well 1 & 2 Down	No Power
8-19-88	Well 2	< 0.01
8-22-88	Well 1	< 0.01
✓	Well 2	< 0.01
✓	Well 3	< 0.01
✓	Leak Detection Systems	No moisture Detected
8-23-88	Well 2	< 0.01
8-24-88	Well 2	< 0.01
8-25-88	Well 2	< 0.01
8-26-88	Well 2	< 0.01

Well Sampling Log

Date	Sample I.D.	Mg/L free CN
8-29-88	Well 1	< 0.01
✓	Well 2	< 0.01
✓	Leak Detection Systems	No Moisture Detected
8-30-88	Well 2	< 0.01
8-31-88	Well 2	< 0.01
9-1-88	Well 2	< 0.01
9-2-88	Well 2	< 0.01
9-6-88	Well 1	< 0.01
✓	Well 2	< 0.01
✓	Well 3	< 0.01
✓	Leak Detection Systems	No Moisture Detected
9-7-88	Well 2	< 0.01
9-8-88	Well 2	< 0.01
9-9-88	Well 2	< 0.01
9-12-88	Well 1	< 0.01
✓	Well 2	< 0.01
✓	Leak Detection Systems	No Moisture Detected
9-13-88	Well 2	< 0.01
9-14-88	Well 2	< 0.01
9-15-88	Well 2	< 0.01
9-16-88	Well 2	< 0.01
9-19-88	Well 1	< 0.01
✓	Well 2	< 0.01
✓	Leak Detection Systems	No Moisture Detected
9-20-88	Well 2	< 0.01
9-21-88	Well 2	< 0.01
9-22-88	Well 2	< 0.01

Date	Sample I.D.	Mg/L free CN
9-23-88	Well 2	< 0.01
9-26-88	Well 1	< 0.01
"	Well 2	< 0.01
"	Leak Detection Systems	No Moisture Detected
9-27-88	Well 2	< 0.01
9-28-88	Well 2	< 0.01
9-29-88	Well 2	< 0.01
9-30-88	Well 2	< 0.01
10-3-88	Well 1	< 0.01
"	Well 2	< 0.01
"	Well 3	< 0.01
"	Tombstone City Well No. 1	< 0.01
"	Leak Detection Systems	No Moisture Detected
10-4-88	Well 2	< 0.01
10-5-88	Well 2	< 0.01
10-6-88	Well 2	< 0.01
10-7-88	Well 2	< 0.01
10-10-88	Well 1	< 0.01
"	Well 2	< 0.01
"	Tombstone City Well No. 1	< 0.01
"	Leak Detection Systems	No Moisture Detected
10-11-88	Well 2	< 0.01
10-12-88	Well 2	< 0.01
10-13-88	Well 2	< 0.01
10-14-88	Well 2	< 0.01
10-17-88	Well 1	< 0.01
"	Well 2	< 0.01
"	Tombstone Well 1	< 0.01
"	Leak Detection Systems	No Moisture Detected

Well Sampling Log Book

Date	Sample I.D	Mg/L free CN	Hg	Nitrates as N
10-18-88	Well 2	<0.01		
10-19-88	Well 1	<0.01	<0.01	2.4
✓	Well 2	<0.01	<0.01	21.6
✓	Tombstone City Well 1	<0.01	<0.01	9.5
—	Leak Detection Systems	No Moisture Detected	—	—
10-20-88	Well 2	<0.01		
10-21-88	Well 1	<0.01		
✓	Well 2	<0.01		
10-24-88	Well 1	<0.01		
✓	Well 2	<0.01		
✓	Leak Detection Systems	No Moisture Collected		
10-25-88	Well 2	<0.01		
10-26-88	Well 2	<0.01		
10-27-88	Well 2	<0.01		
10-28-88	Well 2	<0.01		
10-31-88	Well 1	<0.01		
✓	Well 2	<0.01		
✓	Tomostone City Well	<0.01		
✓	Leak Detection Systems	No Moisture Collected		
11-1-88	Well 2	<0.01		
11-2-88	Well 2	<0.01		
11-3-88	Well 1	<0.01		1.8
✓	Well 2	<0.01		26.0
✓	Well 3	<0.01		2.1
11-4-88	Well 2	<0.01		
11-7-88	Well 1	<0.01		
✓	Well 2	<0.01		
✓	Tombstone City Well No. 1	<0.01		
✓	Leak Detection Systems	No Moisture Collected		

store

Date	Sample I. D.	Mg/L free CN	
11-8-88	Well 2	<0.01	
11-9-88	Well 2	<0.01	
11-10-88	Well 1	<0.01	Keith & Charles City of Tombstone Checked Wells 1 & 2
~	Well 2	<0.01	
11-11-88	Well 2	<0.01	Nitrates (N) 22.5 mg/L
11-14-88	Well 1	<0.01	
~	Well 2	<0.01	
~	Tombstone City Well #1	<0.01	
~	Leak Detection Systems	No Moisture Collected	
11-15-88	Well 2	<0.01	
11-16-88	Well 2	<0.01	
11-17-88	Well 2	<0.01	
11-18-88	Well 2	<0.01	
11-21-88	Well 1	<0.01	
~	Well 2	<0.01	
~	Tombstone City Well 1	<0.01	
~	Leak Detection Systems	No Moisture Collected	
11-22-88	Well 2	<0.01	
11-23-88	Well 2	<0.01	
11-25-88	Well 2	<0.01	
11-28-88	Well 1	<0.01	
~	Well 2	<0.01	
~	Tombstone City Well 1	<0.01	
~	Leak Detection Systems	No Moisture Collected	
11-29-88	Well 2	<0.01	
11-30-88	Well 2	<0.01	
12-1-88	Well 2	<0.01	

Date	Sample I.D.	Mg/L free Cl2
12-2-88	Well 1	<0.01
✓	Well 2	<0.01
12-3-88	Well 1	<0.01
✓	Well 2	<0.01
✓	Reservoir	<0.01
12-5-88	Well 1	<0.01
✓	Well 2	<0.01
✓	Reservoir	<0.01
✓	Leak Detection Systems	No Moisture Collected
12-6-88	Well 1	<0.01
✓	Well 2	<0.01
✓	Reservoir	<0.01
12-7-88	Well 1	<0.01
✓	Well 2	<0.01
✓	Reservoir	<0.01
12-8-88	Well 1	<0.01
✓	Well 2	<0.01
12-9-88	Well 1	<0.01
✓	Well 2	<0.01
✓	Reservoir	<0.01
12-12-88	Well 1	<0.01
✓	Well 2	<0.01
✓	Reservoir	<0.01
✓	Leak Detection System	No Moisture Collected
✓	Tombstone City Well 1	Not operable
12-13-88	Well 2	<0.01
✓	Reservoir	<0.01
✓	Well 1	<0.01

Well Sample Log

Page 30

Date	Sample Location	Mg/L free CN
12-14-88	Well 1	<0.01
✓	Well 2	<0.01
✓	~~Reservoir~~ Reservoir	<0.01
12-15-88	Well 1	<0.01
✓	Well 2	<0.01
✓	Reservoir	<0.01
12-16-88	Well 1	<0.01
✓	Well 2	<0.01
✓	Reservoir	<0.01
	Leak Detection Systems	No Moisture Collected
12-19-88	Well 1	<0.01
✓	Well 2	<0.01
✓	Reservoir	<0.01
12-20-88	Well 1	<0.01
✓	Well 2	<0.01
✓	Reservoir	<0.01
12-21-88	Well 1	<0.01
✓	Well 2	<0.01
✓	Reservoir	<0.01
✓	Leak Detection Systems	No Moisture Detected
12-22-88	Well 2	<0.01
12-23-88	Well 2	<0.01
12-27-88	Well 1	<0.01
✓	Well 2	<0.01
✓	Reservoir	<0.01
12-28-88	Well 1	<0.01
✓	Well 2	<0.01
✓	Reservoir	<0.01

Date	Sample I. D.	Mg/L free CN
12-29-88	Well 1	<0.01
~	Well 2	<0.01
~	Leak Detection Systems	No Moisture Collected
12-30-88	Well 2	<0.01
1-2-89	Well 1	<0.01
~	Well 2	<0.01
~	Tombstone City Well No. 1	<0.01
1-3-89	Well 2	<0.01
1-4-89	Well 2	<0.01
1-5-89	Well 1	<0.01
~	Well 2	<0.01
~	Reservoir	<0.01
~	Leak Detection Systems	No Moisture Collected
1-6-89	Well 2	<0.01
1-9-89	Well 1	<0.01
~	Well 2	<0.01
1-10-89	Well 1	<0.01
~	Well 2	<0.01
~	Tombstone City Well No. 1	<0.01
1-11-89	Well 2	<0.01
~	Leak Detection Systems	<0.01
1-12-89	Well 2	<0.01
1-13-89	Well 1	<0.01
~	Well 2	<0.01
~	Reservoir	<0.01
1-16-89	Well 2	<0.01
1-17-89	Well 1	<0.01
	Well 2	<0.01
	Leak Detection Systems	No Moisture Collected

Date	Sample I.D.	Mg/L Fare dN
1-18-89	Well 2	< 0.01
✓	Tombstone City Well No. 1	< 0.01
1-19-89	Well 2	< 0.01
✓	Reservoir	< 0.01
1-20-89	Well 2	< 0.01
1-23-89	Well 1	< 0.01
✓	Well 2	< 0.01
✓	Tombstone City Well No. 1	< 0.01
✓	Leak Detection Systems	No Moisture Collected
1-24-89	Well 2	< 0.01
1-25-89	Well 1	< 0.01
✓	Well 2	< 0.01
✓	Reservoir	< 0.01
1-26-89	Well 2	< 0.01
1-27-89	Well 2	< 0.01
1-28-89	Well 2	< 0.01
1-30-89	Well 1	< 0.01
✓	Well 2	< 0.01
1-31-89	Well 1	< 0.01
✓	Well 2	< 0.01
✓	Tombstone City Well No. 1	< 0.01
✓	Leak Detection Systems	No Moisture Collected
2-1-89	Well 2	< 0.01
2-2-89	Well 2	< 0.01
2-3-89	Well 2	< 0.01
2-6-89	Well 1	< 0.01
	Well 2	< 0.01
2-7-89	Well 2	< 0.01
2-8-89	Well 2	< 0.01

Date	Sample I.D.	Mg/L free Cl	
2-9-89	Well 1	<0.01	
–	Well 2	<0.01	
–	Tombstone Well 1	<0.01	
–	Leak Detection Monitors	No Moisture Collected	
2-10-89	Well 2	<0.01	
2-13-89	Well 1	<0.01	
✓	Well 2	<0.01	
2-14-89	Well 2	<0.01	
2-15-89	Well 1	<0.01	
✓	Well 2	<0.01	
–	Tombstone well 1	<0.01	
–	Leak Detection Monitors	No Moisture Collected	
2-16-89	Well 2	<0.01	
2-17-89	Well 2	<0.01	
2-18-89	Well 1	<0.01	
✓	Well 2	<0.01	
2-20-89	Well 1	<0.01	
✓	Well 2	<0.01	
2-21-89	Well 2	<0.01	
2-22-89	Well 2	<0.01	
2-23-89	Well 1	<0.01	Carlos & Mark Tombstone Water Dept. sampled our wells & witnessed my sampling of Tomb. City well #1
✓	Well 2	<0.01	
–	Tombstone City Well #1	<0.01	
–	Leak Detection Monitors	No Moisture Collected	
2-24-89	Well 2	<0.01	
2-27-89	Well 2	<0.01	
2-28-89	Well 1	<0.01	
✓	Well 2	<0.01	

Date	Sample I.D.	Mg/L face dN	
3-1-89	Well 2	<0.01	
3-2-89	Well 1	<0.01	Sampled wells here & Tombstone with Carlos V. & Mark E. Tombstone Water Dept.
~	Well 2	<0.01	
~	Tombstone City Well #1	<0.01	
~	Monitor Lines	No Moisture Collected	
3-3-89	Well 2	<0.01	
3-4-89	Well 1	<0.01	
~	Well 2	<0.01	
3-6-89	Well 2	<0.01	
3-7-89	Well 1	<0.01	
~	Well 2	<0.01	
~	Reservoir	<0.01	
3-8-89	Well 2	<0.01	
~	Well 1	<0.01	
~	Well 2	<0.01	Carlos & Mark City Sampled wells 0915
~	Tombstone City Well No. 1	<0.01	Smith & Smith sampled wells 1430
3-9-89	Well 2	<0.01	
	Monitor Lines	No Moisture Collected	
3-10-89	Well 2	<0.01	
3-13-89	Well 1	<0.01	
	Well 2	<0.01	
3-14-89	Well 2	<0.01	
3-15-89	Well 2	<0.01	
3-16-89	Well 1	<0.01	
~	Well 2	<0.01	City Sampled Wells I sampled city well
~	Monitor Lines	No Moisture Collected	
3-17-89	Well 2	<0.01	
	Tombstone Well 1	<0.01	

Date	Sample I.D.	Mg/L free CN	
3-20-89	Well 1	<0.01	
✓	Well 2	<0.01	
✓	Monitor Lines	No Moisture Collected	
3-21-89	Well 2	<0.01	
3-22-89	Well 2	<0.01	
3-23-89	Well 1	<0.01	
✓	Well 2	<0.01	
3-24-89	Well 1	<0.01	City sampled wells
✓	Well 2	<0.01	1315 Hrs
✓	Tombstone City Well 1	<0.01	
3-27-89	Well 1	<0.01	
✓	Well 2	<0.01	
✓	Monitor Lines	No Moisture Collected	
3-28-89	Well 2	<0.01	
3-29-89	Well 2	<0.01	
3-30-89	Well 2	<0.01	
3-31-89	Well 1	<0.01	
✓	Well 2	<0.01	
✓	Well 4	<0.01	Nitrates as N 7.5 / Hg <0.03
4-1-89	Well 2	<0.01	
✓	Well 4	<0.01	
4-3-89	Well 1	<0.01	
✓	Well 2	<0.01	
✓	Monitor Lines	No Moisture Collected	
4-4-89	Well 2	<0.01	
4-5-89	Well 2	<0.01	Smith & Smith Labs sampled all wells 1400 Hours
✓	Well 4	<0.01	
✓	Prey Pond Monitor 1300 Hrs	CN 0.7 lbs/TON PH 9.2	Au .006 Ag .33

Well Sample Log

Date	Sample I.D.	Mg/L free CN	Other
4-6-89	Well 2	<0.01	
~	Prog Monitor Line	CN 0.6 lbs/ton PH 9.2	
4-7-89	Well 2	<0.01	
~	Prog Monitor Line	CN 0.6 lbs/ton PH 9.1	
4-8-89	Well 2	<0.01	
	Prog Monitor Line	CN 0.6 lbs/ton PH 9.1	
4-10-89	Well 2	<0.01	
4-11-89	Well 1	<0.01	
~	Well 2	<0.01	
~	Monitor Lines	No Moisture Collected	
4-12-89	Well 2	<0.01	
4-13-89	Well 1	<0.01	
~	Well 2	<0.01	
~	Tombstone City Well 1	<0.01	
4-14-89	Well 2	<0.01	
4-15-89	Well 2	<0.01	
4-16-89	Well 2	<0.01	
4-17-89	Well 1	<0.01	
~	Well 2	<0.01	
~	Monitor Lines	<0.01	
4-18-89	Well 2	<0.01	
4-19-89	Well 2	<0.01	
4-20-89	Well 1	<0.01	
	Well 2	<0.01	
4-21-89	Well 2	<0.01	
4-22-89	Well 2	<0.01	
4-24-89	Well 1	<0.01	
	Well 2	<0.01	
	Monitor Lines	No Moisture Collected	

Well Sample Log

Date	Sample ID	Mg/L free Cl
4-25-89	Well 2	<0.01
"	Tombstone City Well No. 1	<0.01
4-26-89	Well 2	<0.01
4-27-89	Well 2	<0.01
4-28-89	Well 2	<0.01
5-1-89	Well 1	<0.01
"	Well 2	<0.01
5-2-89	Well 2	<0.01
5-3-89	Well 2	<0.01
5-4-89	Well 1	<0.01
"	Well 2	<0.01
"	Tombstone City Well #1	<0.01
5-5-89	Well 2	<0.01
5-8-89	Well 2	<0.01
5-9-89	Well 1	<0.01
"	Well 2	<0.01
"	Tombstone City Well No. 1	<0.01
5-10-89	Well 2	<0.01
5-11-89	Well 2	<0.01
5-12-89	Well 2	<0.01
5-15-89	Well 2	<0.01
5-16-89	Well 1	<0.01
"	Well 2	<0.01
5-17-89	Well 1	<0.01
"	Well 2	<0.01
5-18-89	Well 2	<0.01
"	Tombstone City Well #1	<0.01
5-21-89	Well 2	<0.01

Date	Sample ID	Mg/L Free Cl
5-22-89	Well 2	<0.01
5-23-89	Well 1	<0.01
"	Well 2	<0.01
"	Tombstone City Well #1	<0.01
5-24-89	Well 2	<0.01
5-25-89	Well 2	<0.01
5-26-89	Well 2	<0.01
5-30-89	Well 1	<0.01
	Well 2	<0.01
5-31-89	Well 2	<0.01
6-1-89	Well 2	<0.01
6-2-89	Well 1	<0.01
"	Well 2	<0.01
"	Tombstone Well 1	<0.01
6-3-89	Well 2	<0.01
6-5-89	Well 2	<0.01
6-6-89	Well 1	<0.01
"	Well 2	<0.01
"	Well 4	<0.01
"	Tombstone Well 1	<0.01
6-7-89	Well 2	<0.01
6-8-89	Well 2	<0.01
6-9-89	Well 2	<0.01
6-12-89	Well 2	<0.01
6-13-89	Well 1	<0.01
"	Well 2	<0.01
6-14-89	Well 2	<0.01
6-15-89	Well 2	<0.01

Tailings Assays

Arizona Testing Laboratories
817 West Madison Street □ Phoenix, Arizona 85007 □ 602/254-6181

For: Cochise Silver Mines, Inc.
Attn: Mr. Gary A. Lindroos
Post Office Box 158
Tombstone, Arizona 85638

Date: May 11, 1987

Lab. No.: 3136

Sample: Soil

Marked: Impoundment Tailings, 5-7-87

Received: 5/8/87

Submitted by: Same

REPORT OF LABORATORY TESTS

Samples Marked	Total Cyanide
#1, East Quarter	< 0.50 ppm
#2, North Quarter	< 0.50
#3, West Quarter	< 0.50
#4, South Quarter	< 0.50

< = less than

3ccs: Arizona Dept. of Health Services

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Robert J. Drake

Robert J. Drake

COCHISE SILVER MINES
P. O. Box 158

Tombstone, AZ 85638

28 May 1987

Arizona Testing Laboratories
817 West Madison Street
Phoenix, Arizona 85007

Dear Sirs:

Please run the enclosed 41 soils samples for Total Cyanide. Copies of results should be sent to: Arizona Department of Health Services and to Cochise Silver Mines, Inc.

Thank you.

Sincerely yours,

GARY A. LINDROOS

Cochise Silver Mines, Inc.
P.O. Box 158
Tombstone, Arizona 85638

Arizona Testing Laboratories
817 West Madison St.
Phoenix, Arizona 85254

June 9, 1987

Dear Sirs:

Enclosed you will find fourteen (14) soil samples. Please perform Mercury analysis using EPA method 245.5. Also please find one (1) water sample for Mercury analysis using EPA method 245.1.

Please forward three (3) copies of completed analysis to:

Arizona Department of Health Services
Water Pollution Compliance Unit
2005 N. Central, Room 413
Phoenix, Arizona 85004

Also please forward one (1) copy to:

Cochise Silver Mines, Inc.
P.O. Box 158
Tombstone, Arizona 85638

If you have any questions, please contact me at 457-2282. Thank You.

Sincerely,

Gary A. Lindroos

GAL/pdd

Cochise Silver Mines, Inc.
P.O. Box 158
Tombstone, Arizona 85638

Arizona Testing Laboratories
817 East Madison
Phoenix, Arizona 85254

June 9, 1987

Dear Sirs:

Please find four (4) soild samples enclosed for total cyanide analysis using EPA method 9010.

Please forward one (1) copy of completed analysis to :

Cochise Silver Mines, Inc.
P.O. Box 158
Tombstone, Arizona 85638

Please forward three (3) copies to :

Arizona Department of Health Services
Office of Waste and Water Quality Management
Compliance Section
2005 North Central Avenue
Phoenix, Arizona 85004

If you have any questions, please contact me at 457-2282. Thank You.

Sincerely,

Gary A. Lindroos

GAL/pdd

Arizona Testing Laboratories
817 West Madison Street □ Phoenix, Arizona 85007 □ 602/254-6181

For: Cochise Silver Mines, Inc.
Mr. Gary Lindroos
Post Office Box 158
Tombstone, Arizona 85638

Date: June 12, 1987

Lab. No.: 3615

Sample: Soil

Marked: Impound Tailing, 6-8-87

Received: 6-10-87

Submitted by: same

REPORT OF LABORATORY TESTS

Samples Marked	Total Cyanide, per EPA 9010
North	1.4 mg/kg
South	2.9
East	0.97
West	1.3

3 cc:
Arizona Dept. of Health Services
Office of Waste & Water quality Mgmt.
Compliance Section
2005 North Central Avenue
Phoenix, AZ. 85004

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Robert J. Drake

Robert J. Drake

COCHISE SILVER MINES, INC.

P.O. BOX 158

TOMBSTONE, ARIZONA 85638

Arizona Testing Laboratories
817 West Madison St.
Phoenix, Arizona 85007-3193

June 18, 1987

Dear Mr. McNeal,

Enclosed, please find four Impound Tailing samples which are retests after a treatment. I have included your original lab number on the sample containers so that they may be matched with the proper retest sample.

Please use the EPA method 9010 and report total cyanide. Also please handle this as a rush order. Thank You.

Sincerely,

Gary A. Lindroos

GAL/pdd

Arizona Testing Laboratories

817 West Madison Street □ Phoenix, Arizona 85007 □ 602/254-6181

For: Cochise Silver Mines, Inc.
Attn: Mr. Gary Lindroos
Post Office Box 158
Tombstone, Arizona 85638

Date: June 18, 1987

Lab. No.: 3613

Sample: Soil

Marked: See Below

Received: 6/10/87

Submitted by: Same

REPORT OF LABORATORY TESTS

EPA Method 245.5

Samples Marked	Total Mercury
Old Pond, 1' Depth, Sta. 39	0.16 ppm
" " " " , Sta. 53	0.096
" " " " , Sta. 88	0.074
Old Pond, 3' Depth, Sta. 39	0.12
" " " " , Sta. 53	0.12
" " " " , Sta. 88	0.12
Old Pond, 5' Depth, Sta. 39	0.055
" " " " , Sta. 53	0.063
" " " " , Sta. 88	0.16
Processed Tailings East, 6-8-87	0.035
Processed Tailings West, 6-8-87	0.034
Mine Tailings No. 1	0.034
" " " 2	0.063
" " " 3	0.096

3ccs:
Arizona Dept. of Health Services
Water Pollution Compliance Unit
2005 N. Central, Room 413
Phoenix, AZ 85004

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Robert J. Drake

Robert J. Drake

Arizona Testing Laboratories
817 West Madison Street □ Phoenix, Arizona 85007 □ 602/254-6181

For: Cochise Silver Mines, Inc.
Attn: Mr. Gary Lindroos
Post Office Box 158
Tombstone, Arizona 85638

Date: June 18, 1987

Lab. No.: 3616

Sample: Water

Marked: 6-8-87
Process Water after Carbon Filtration

Received: 6/10/87

Submitted by: Same

REPORT OF LABORATORY TESTS

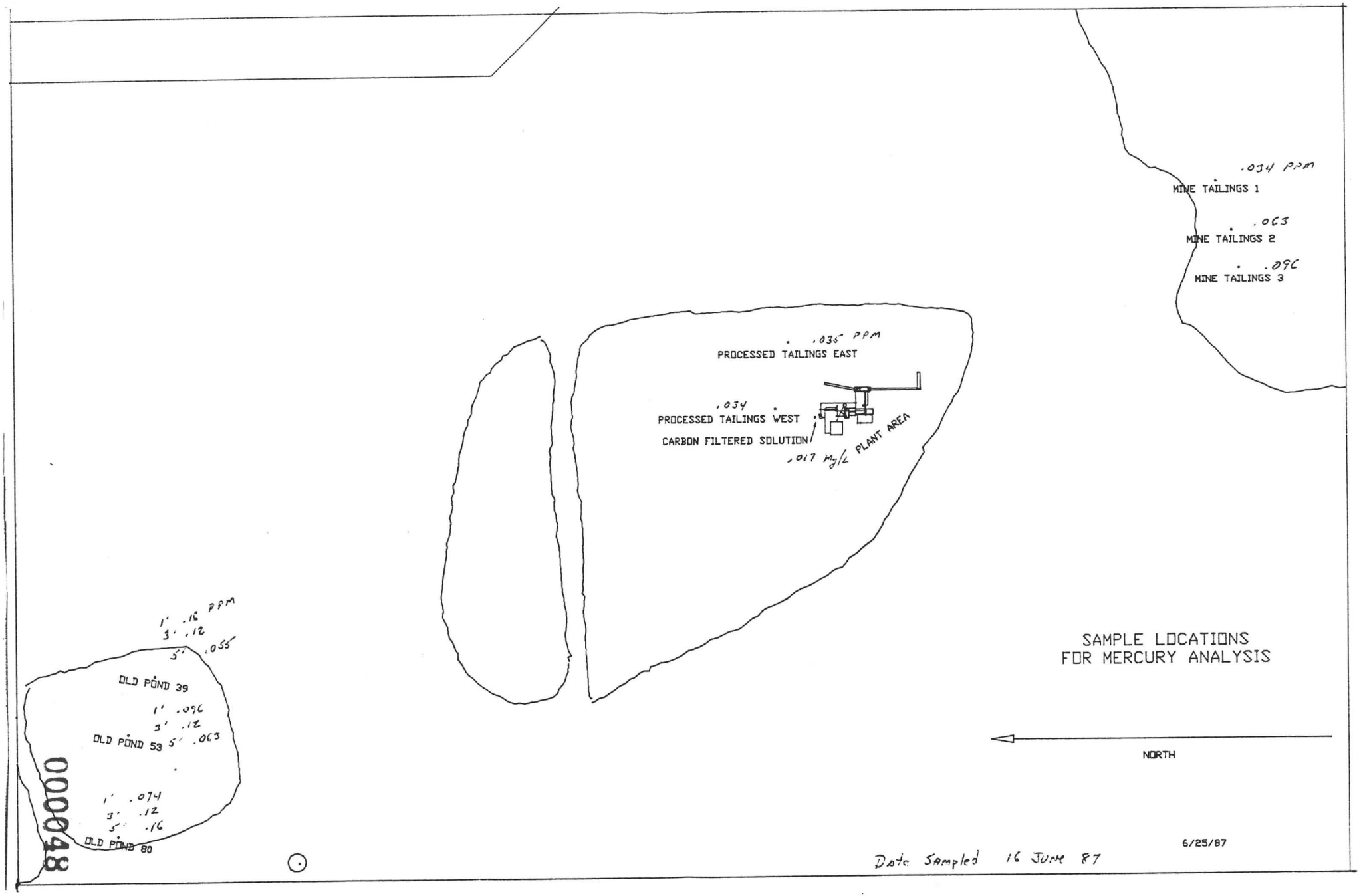
EPA Method 245.1

Total Mercury: 0.017 mg/L

3ccs:
Arizona Dept. of Health Services
Water Pollution Compliance Unit
2005 N. Central, Room 413
Phoenix, AZ 85004

Respectfully submitted,
ARIZONA TESTING LABORATORIES

Robert J. Drake



SAMPLE LOCATIONS
FOR MERCURY ANALYSIS

0000098

Arizona Testing Laboratories

817 West Madison Street □ Phoenix, Arizona 85007 □ 602/254-6181

For: Cochise Silver Mines, Inc.
Attn: Mr. Gary Lindroos
Post Office Box 158
Tombstone, Arizona 85638

Date: June 23, 1987

Lab. No.: 3785

Sample: Soil

Marked: Impound Tailings - retests after pre treatment, 6-17-87

Received: 6/19/87

Submitted by: Same

REPORT OF LABORATORY TESTS

Samples Marked	Total Cyanide, per EPA 9010
North	0.18 mg/kg
South	0.24
East	0.25
West	0.22

3cc:
Arizona Dept. of Health Services
Office of Waste & Water Quality Mgmt.
Compliance Section
2005 North Central Avenue
Phoenix, AZ 85004

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Robert J. Drake

Robert J. Drake

Mercury Assays

Smith & Smith Environmental Consultants
4201 INLAND RD. PH. 458-4789
P.O. BOX 1146, SIERRA VISTA, ARIZONA 85636

Cochise Silver Mines
P O Box 158
Tombstone AZ 85638
Attn: Mr Gary Lindroos

Sample type: granular
Collected by: Cochise Silver Mines
Lab received date: 07/02/87
Method: Cochise Silver Mines

Specimen no.	Name	Sample date	Total Hg conc.
IS 282	CARBON	7/02/87	0.061 mg/L

date reported: 07/02/87
analyst: RVB

Respectfully submitted,
Kathryn W. Smith
Kathryn W. Smith
Laboratory Director

COCHISE SILVER MINES, INC.
P. O. Box 158
Tombstone, Arizona 85638

July 13, 1987

Arizona Testing Laboratories
817 West Madison Street
Phoenix, Arizona 85007

Dear Sirs:

Enclosed please find two (2) samples of ore from our pit which we would like to have analyzed for Mercury.

If you have any questions please contact me at 457-2282.
Thank you.

Sincerely yours,

Gary A. Lindroos

Arizona Testing Laboratories

817 West Madison Street □ Phoenix, Arizona 85007 □ 602/254-6181

For Cochise Silver Mines, Inc.
Attn: Mr. Gary Lindroos
P.O. Box 158
Tombstone, Arizona 85638

Date July 17, 1987

ASSAY CERTIFICATE

LAB NO.	IDENTIFICATION	OZ. PER TON		PERCENTAGES			
		GOLD	SILVER	COPPER	MERCURY		
4147	Composite #1				lt*0.01		
	Contention #2				lt*0.01		

*lt = less than

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.

Registered Assayer
CERTIFICATE NO. 6258
CLAUDE EUGENE McLEAN, JR.
Date Signed 7/17/87
ARIZONA, U. S. A.

000052

Smith & Smith Environmental Consultants
4201 INLAND RD. PH. 458-4789
P.O. BOX 1146, SIERRA VISTA, ARIZONA 85636

Cochise Silver Mines
P O Box 158
Tombstone AZ 85638
Attn: Mr Gary Lindroos

Sample type: soil
Collected by: Cochise Silver Mines
Lab received date: 07/14/87
Method: EPA 13102

Specimen no.	Name	Sample date	Total Hg conc.
IS 288	CONTENTION #1	7/13/87	< 0.001 mg/L
IS 289	CONRENTION #2	7/13/87	< 0.001 mg/L
IS 290	CONTENTION #3	7/13/87	< 0.001 mg/L
IS 291	GRAND CENTRAL #1	7/13/87	< 0.001 mg/L
IS 292	GRAND CENTRAL #2	7/13/87	< 0.001 mg/L
IS 293	GRAND CENTRAL #3	7/13/87	< 0.001 mg/L

date reported: 07/30/87
analyst: RVB

Respectfully submitted,
Kathryn W. Smith
Kathryn W. Smith
Laboratory Director

Pond Clean-up.

1 May 1987

Assay of Sandscrew Discharge - by Bottle Roll

Sample No	Au	Ag	Mg/L CN (free)
1	Tr	.02	.02
2	Nil	.02	.03
3	Nil	Nil	.16
4	Nil	Nil	.04

		Au	Ag	mg/L CN
Slimes Below Impoundment		TN	.02	.15
~~Rock~~ Sandscrew Tails	1	Nil	.02	.02
	2	Nil	Nil	.03
	3	Nil	Nil	.16
	4	Nil	Nil	.04

Bottle Roll - Slurry Sample

#1 200 grams Tails
400 grams H_2O
5 ~~ppm~~ ml Calcium Hypochlorite
5 ~~5~~ grams Activated Carbon
Agitate 30 minutes

5 ml NaOH 3.0 Bring PH to 9.0 with NaOH

Solution	
Au	Ag
.004	.10

Ph 8.6

#2 200 grams Slurry Tails
400 grams H_2O
9.0 PH with NaOH
5 PPM Calcium Hypochlorite — 5 ~~25~~ grams Activated Carbon
Agitate 5 minutes
1.13 ~~1.36~~ 1.36 grams Sodium Hyposulfite
Agitate 30 minutes

Solution	
Au	Ag
.004	.16

Ph 8.6

Read for Au, Ag, Free CN, PH, Chlorine

Figure Pulp Density & Calculate water for 2:1 Ratio (Water to Ore) — 600 gram Total

Kathy
4/5/8 4/7/89

4 June 87

Slimes Assays

	Au	Ag	CN	Chlorine Treating CN
Before Pump	.006	.13	1.68 ~~.50~~ mg/L	
After Pump	.006	.14	1.50 ~~.50~~ mg/L	
Thiosulfate (9lb/Ton)	.008	.21	1.68 mg/L	Nil

Thiosulfate sample Treated with 2.4 ppm NaOH &
2.4 PPM Calcium Hypochlorite

COCHISE SILVER MINES, INC.

Laboratory Analysis

Date: 13 July 87

Sample Identification	Mg/L free CN								
Barren 3 1000	.05								
Barren 3 1200	.07								
Barren 3 1600	.04								
Raw Ore 1600	.15								
Barren 3 2400	.018								
" 0200	.017								
" 0400	.018								
" 0600	.017								
Slimes C 7-13-87	.018								
" W/Hypo Added	<.01								

REMARKS:

COCHISE SILVER MINES, INC.

Laboratory Analysis

Date: 7-17-87

Sample Identification	mg/l CN
Slimes Decant 7-14-87	.018
" " 7-15-87	.026
" " 7-16-87	<.01
" " 7-17-87	<.01

REMARKS:

COCHISE SILVER MINES, INC.

Laboratory Analysis

Date: 9-11-87

Sample Identification	mg/L free CN								
Houghton Pond	0.065								
Roadway N. of Office	0.01								

REMARKS:

COCHISE SILVER MINES, INC.

Laboratory Analysis

Date: 15 September 1987

Sample Identification	Au	Ag	Mg/L free CN	% Cu					
Well No. 2	—	—	< 0.01	—					
Preg Solution 0730	.003	.02	0.032	.00002					
Slurry Solution 0730	.004	.06	0.028	.00004					
CIP Tank 1 0730	Tr	.04	—	.00003					

REMARKS:

COCHISE SILVER MINES, INC.

Laboratory Analysis

Bottle Roll Testing

Date: 5 Oct 87

Sample Identification	Au	Ag	Mg/L free CN						
Old Preg Pond North Comp, North	TN	TN	<0.010						
" " " " East	TN	TN	0.012						
" " " " West	TN	TN	<0.010						
" " " " South	TN	TN	0.016						
Old Preg Pond South Comp North	TN	TN	0.015						
" " " " East	TN	TN	<0.01						
" " " " West	TN	TN	0.014						
" " " " South	TN	TN	<0.010						
Old Preg Pond North Comp	.007	TN		with	1 lb/ton	sodium	Thiosulfate		
Old Preg Pond South Comp	.009	.02							

REMARKS:

Composite Samples sent to Smith & Smith for testing of Total CN.

000062

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 440
SPECIMEN NO.

11-3-87
DATE REC'D AT LAB

Lab Name & Address LAB ID NO. 00048

Smith & Smith Environmental Consultants
999 East Fry Blvd. Suite 202
Sierra Vista AZ 85635

ADHS Permit No. _____

Sample Location CSM Old Preg Pond

Facility Name & Mailing Address

Cochise Silver Mines
PO Box 158
Tombstone AZ 85638

ATTN: MR. GARY LINDROOS

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other _____

Sample Date 11-2-87 Sample Time _____

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: GL, RVB

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	Total Cyanide	mg/L ,	0.07 ,
	,	. ,	Free Cyanide	mg/L ,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 11-5-87

Analyst DHO, RVB

000063

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 439
SPECIMEN NO.

11-5-87
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

Smith & Smith Environmental Consultants
999 East Fry Blvd. Suite 202
Sierra Vista AZ 85635

ADHS Permit No. _____

Sample Location CSM Impound West

Facility Name & Mailing Address

Cochise Silver Mines
PO Box 158
Tombstone AZ 85638

ATTN: MR. GARY LINDROOS

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☑ Other _____

Sample Date 11-2-87 Sample Time 1800

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: GL, RVB

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
[illegible]omium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	Total Cyanide	mg/L ,	<0.01 ,
	,	. ,	Free Cyanide	mg/L ,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 11-5-87

Analyst DHO, RVB

000064

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 448
SPECIMEN NO.

11-5-87
DATE REC'D AT LAB

Lab Name & Address LAB ID NO. 00048

Smith & Smith Environmental Consultants
999 East Fry Blvd. Suite 202
Sierra Vista AZ 85635

ADHS Permit No. _____

Sample Location CSM Impound East

Facility Name & Mailing Address

Cochise Silver Mines
PO Box 158
Tombstone AZ 85638

ATTN: MR. GARY LINDROOS

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other _____

Sample Date 11-4-87 Sample Time 1600

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: GL, RVB

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	Total Cyanide	mg/L ,	<0.01 ,
	,	. ,	Free Cyanide	mg/L ,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 11-5-87

Analyst DHO, RVB

000065

COCHISE SILVER MINES, INC.

Laboratory Analysis

Date: 11-6-87

Sample Identification	Mg/L free CN								
Old Pacy Pond Sta 40	<0.01								
✓ 53	<0.01								
✓ 66	<0.01								
✓ 79 ~~70~~	<0.01								
✓ 27	<0.01								
✓ 93	<0.01								
✓ 26	<0.01								
✓ 39	<0.01								
✓ 52	<0.01								
✓ 65	<0.01								
✓ 78	<0.01								
✓ 92	<0.01								
✓ 7	<0.01								
✓ 8	<0.01								
✓ 9	<0.01								
✓ 25	<0.01								
✓ 38	<0.01								
✓ 51	<0.01								
✓ 64	<0.01								
✓ 77	<0.01								

REMARKS:

COCHISE SILVER MINES, INC.

Laboratory Analysis

Old Preg Pond Clean-up

Date: 11-12-87

Sample Identification	As	Ag	mg/L Free CN						
#1 2½' Depth Bottom	TN	TN	<0.01						
#2 6' Depth	TN	TN	<0.01						
#2 7' Bottom	.004	.06	0.14						
#3 1'	TN	TN	<0.01						
#3 3' Bottom	TN	TN	<0.01						
#4 3' Bottom	TN	TN	<0.01						
#4 1'	TN	TN	<0.01						

REMARKS:

COCHISE SILVER MINES, INC.

Laboratory Analysis

Pacy Pond Clean-up

Date: 11-18-87

Sample Identification	mg/L Total CN								
Backhoe Hole #1 2½'	0.37								
Backhoe Hole #2 6'	0.71								
" " #2 7'	8.08								
" " #3 1'	0.05								

REMARKS:

Verbal Confirmation of Smith & Smith Labs analysis for Total Cyanide

000068

2-1-88

Stn	Total CN
67	0.64
68	2.33
69	4.70
81	0.11
82	0.23
94	0.91
95	0.24
104	0.01
96	0.24
13	0.24
14	0.25
15	0.06
16	0.25
17	0.24
18	0.24
19	0.24
20	0.26
21	0.04
22	0.10
23	0.03
24	0.19

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

EVAN MECHAM, GOVERNOR
GERALD H. TELETZKE, PH.D., DIRECTOR

February 16, 1988

Jay I. Moyes
Meyer, Hendricks, Victor, Osborn & Maledon
Suite 400 C
2700 North Third Street
Phoenix, Arizona 85004

COPY

Dear Mr. Moyes:

RE: Cochise Silver Mines, Inc.
Groundwater Quality Protection Permit No. G-0011-02

After having visited the site on January 27, 1988, I have a better understanding of the extent of soils removal from the old ponds area. However, I have yet to receive an assessment from the owner/operator of the clean up work performed as I requested in my letter of July 10, 1987.

The assessment should include the total amount of material removed, the depth from original grade the excavation has proceeded, and the related analysis results. Also include a proposed schedule for completion of the clean up of the old ponds area. This information is necessary in developing permit conditions.

If you have any questions, please feel free to call me at 257-6806.

Sincerely,

Roger Kennett

Roger Kennett
Water Permits Unit
Office of Water Quality

RK:mm

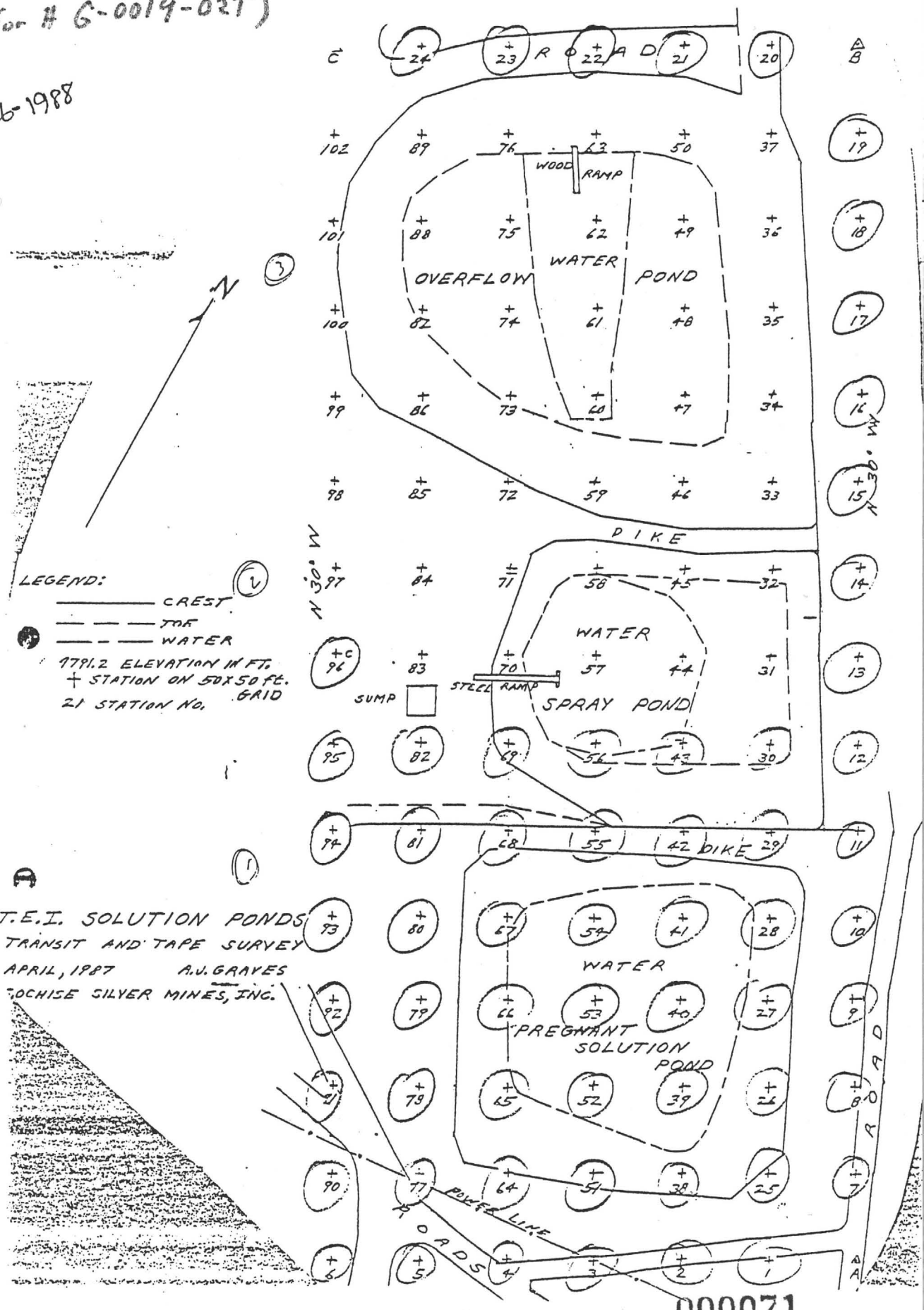
cc: Perry Nixon
James Maston
Ray Harper
Nancy Jamison

000070

The Department of Environmental Quality is An Equal Opportunity Affirmative Action Employer

G-0020-02
(Originally for # G-0019-02T)

Samples
1-25 & 26-1988



T.E.I. SOLUTION PONDS
TRANSIT AND TAPE SURVEY
APRIL, 1987 A.J. GRAVES
COCHISE SILVER MINES, INC.

000071

cc D.E.
J.S

MEYER, HENDRICKS, VICTOR, OSBORN & MALEDON
A PROFESSIONAL ASSOCIATION

PAUL J. MEYER
DAVID VICTOR
WILLIAM J. MALEDON
ANDREW D. HURWITZ
RANDALL C. NELSON
R. DOUGLAS DALTON
VINCENT F. CHIAPPETTA *
COLIN F. CAMPBELL
JAY I. MOYES
THOMAS H. CURZON
JOHN A. LASOTA, JR.
HOWARD N. SINGER
HELEN PERRY GRIMWOOD
THOMAS D. PROFFITT
BRETT L. DUNKELMAN
JEAN K. FITZSIMON
DAVID B. ROSENBAUM
W. SCOTT BALES
JOHN R. HANNAH
WILLIAM J. SIMS III
MARK D. SAMSON
JUDITH M. DWORKIN
THAYNE G. LOWE
* ON LEAVE

EDWIN F. HENDRICKS
JONES OSBORN II
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C. TAYLOR ASHWORTH
JAMES G. DEROUIN
GARY A. GOTTO
WILLIAM M. HARDIN
ANNA L. DURAND
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DIANE M. JOHNSON
JON M. SANDS
TANNIS L. FOX
HELEN M. SANDALLS
SHANE R. SWINDLE
DAWN LEE DAUPHINE
CLARK M. PORTER

SUITE 4000
2700 NORTH THIRD STREET
PHOENIX, ARIZONA 85004
602-263-8700

TELEX TWX 910-950-1101
TELECOPY (24 HOURS)
602-266-6751

RECEIVED FEB 22 1988

FILE NO.

3622.4

February 19, 1988

Mr. Raymond Harper
PBR Minerals, Inc.
3104 E. Camelback Road
Suite 603
Phoenix, Arizona 85016

Dear Ray:

I am enclosing a copy of a letter from Roger Kennett dated February 16, 1988. You will recall having shown me draft report assessing the cleanup operation, and that we opted against turning that in to the Department in that form, prior to our recent visit to the site.

It is important that PBR now prepare a revised version of that assessment, specifically addressing the points Roger makes in his enclosed letter. It would probably be well to have Dusty prepare a current cleanup assessment report and then forward it to me for review.

I assume that the analysis reports of the soils that were taken from the grids, which we were expecting at the time of our visit to the site, have now been received and forwarded on to the Department, although that is not clear from Roger's letter.

Feel free to call if you have any questions.

Very truly yours,

Jay I. Moyes

JIM:kla
enclosure

cc: Mike Ashworth
Brian Zemp

PBR MINERALS,
INCORPORATED

March 2, 1988

Mr. Jay Moyes
Meyer, Hendricks, Victor, Osborn & Maledon
Suite 4000
2700 North Third Street
Phoenix, Arizona 85004

Dear Jay:

Please find the enclosed cross-sections indicating the volume of materials that have been removed from the old TEI ponds. Exhibit A, is a cross section of the Old Line Pond and Exhibit B, is a cross section of the Old Spray Pond. These exhibits will correlate with Exhibit C which is a Grid Map of the Clean-up area. The numbers (or Stations) establish the fifty foot grid which is required by Part 2, Section A1 para c of the Groundwater Protection Permit G-001-02. The circled numbers on Exhibit C indicate the total cyanide as reported by Smith and Smith Laboratories.

As of today we have removed approximately 30,000 tons of contaminated material from the Old Preg Pond and Lined Pond. Unfortunately we have been unable to remove a significant amount of material from the Overflow Pond due to the fact the material was saturated to the point where it has been virtually impossible to put any equipment in that area. Due to the fact that it has been dry for the past two months we are going to once again attempt to put the dozer into the pond area to push the mud out and transport it to the process facility.

We have conducted numerous in house analysis for free cyanide on the materials from all three areas and approximately 95 per cent of these samples have shown virtually no free cyanide. As you can see on Exhibit C all of the total cyanides are way above our allowable limits. This is of great concern to us due to the fact that we have removed virtually all of the material down to the natural soils and still are indicating high total cyanides. ADEQ has recently issued a permit for a cyanide leaching operation located about a mile west of our facility and has no mention of total cyanide and has allowable limits 100 times the limit stated in our permit. If the State would ammend our permit to read as this new cyanide leaching permit does, 95 per cent of our clean-up would be completed.

If the State does not ammend our current permit we are looking at a considerable amount of material which still has to be removed from three areas. To remove the next five foot increment from the entire area would represent approximately 51,000 tons. At our current rate of excavation it would require approximately two months to complete this phase of the clean-up. This does not necessarily mean that the clean-up would be completed, it would only mean that we would be at a point to re-sample and re-assay the fifty foot grid. At this point it is impossible to predict a completion date of the clean-up with our current limits of total cyanide.

3104 EAST CAMELBACK RD.
SUITE 603
PHOENIX, ARIZONA 85016
PHONE 602/457-2282

If you have any questions about the contents of this letter please feel free to call me.

Sincerely yours,

Dustin Escapule

DE:gl

cc - Ray Harper
Jack Schissler
Mike Ashworth

TEI PREGNANT SOLUTION POND

Cross Section Facing South

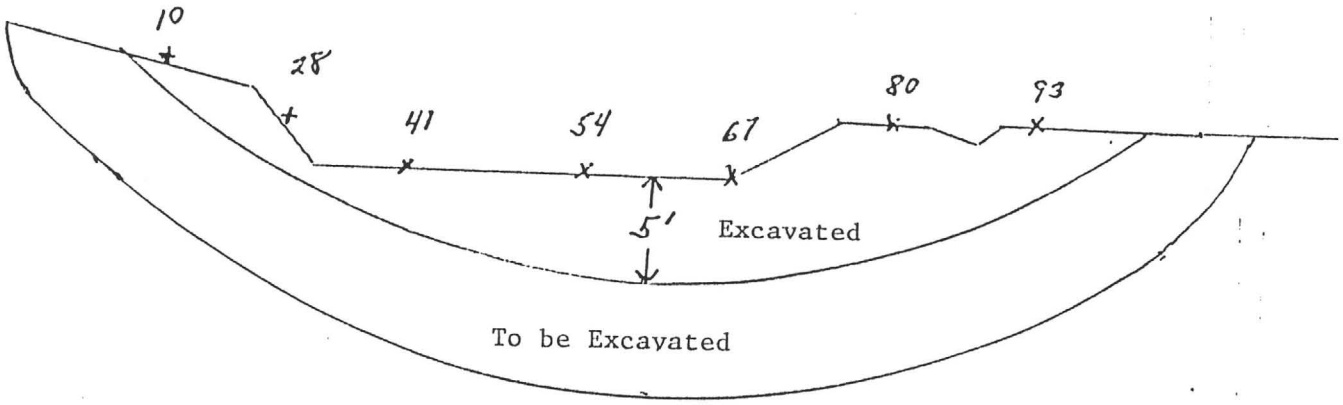

Exhibit A

TEI WATER SPRAY POND

Cross Section Facing South

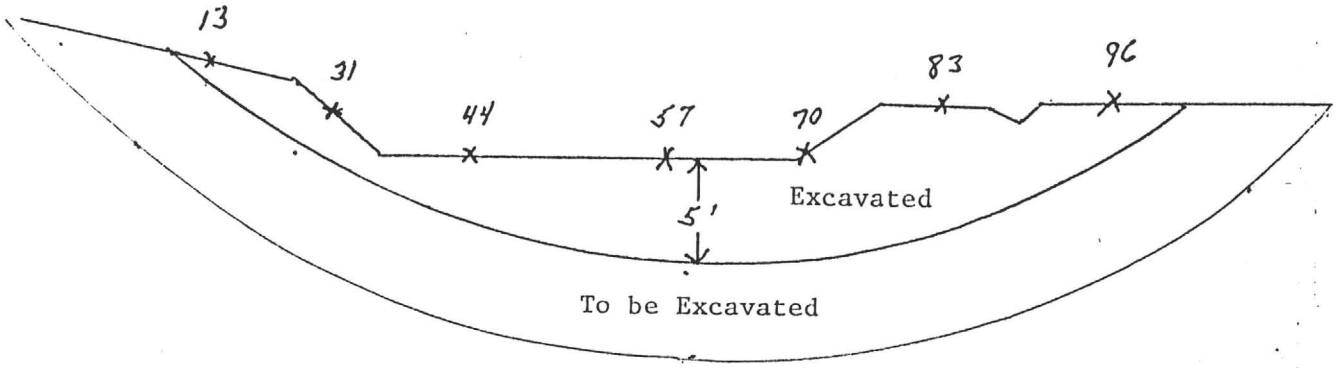

Exhibit B

H-4515.052

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Rose Mofford, Governor
Ronald L. Miller, Ph.D, Acting Director

July 14, 1988

Mr. Gary Lindroos
PBR Minerals, Inc.
950 Skyline Drive
Tombstone, AZ 85638

Dear Mr. Lindroos:

As we discussed in our phone conversation on Thursday, July 14, 1988, the Arizona Department of Environmental Quality (ADEQ) is planning a site visit on Monday, July 25, 1988. The purpose of our visit will be to conduct verification soil sampling at the cyanide soil cleanup area where the former pregnant solution, spray and overflow water ponds were located. It is possible that soil sampling will extend into Tuesday, July 26th. However, we expect the sampling to be completed by Tuesday evening.

The ADEQ representatives will include Dave Quinn (Safety Officer), Cindy Cohagan (Hydrologist) and Bruce K. Thatcher, Jr. (Hydrologist).

Should you have any questions or concerns regarding our planned site visit, please call Bruce K. Thatcher, Jr., Hydrologist, at (602)257-2361.

Sincerely,

Bruce K. Thatcher Jr.

Bruce K. Thatcher, Jr.
Hydrologist

BT.dl

Sampling completed
7-25-88
7-26-88

000077 file

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Inter-Office Memorandum

DATE: September 21, 1988

TO: Roger Kennett
Water Permits Unit (Existing Facilities)

THRU: Debra Daniel, Manager DND
State Permits Hydrology Unit

FROM: Bruce K. Thatcher, Jr., Hydrologist BKT
State Permits Hydrology Unit

RE: PBR Minerals, Inc. Temporary Groundwater Quality Protection Permit

The following tasks are recommended prior to closure of the PBR Minerals, Inc. (formerly Cochise Silver) facility in Tombstone, Arizona.

1) Additional soil removal and treatment
2) Pump test of well #2
3) Construction of a water table elevation map
4) Collection of a water sample from the open mine shaft (if possible)

In addition, I recommend post-closure monitoring of wells immediately downgradient of the old ponds.

Soil samples were collected by ADEQ personnel at the site of the old ponds on July 26, 1988. These soil samples were analyzed by the ADHS State Lab for total cyanide, free cyanide, nitrate, mercury and pH. Total cyanide in excess of the soil cleanup level of 2 mg/kg was detected in two samples from the overflow water pond, three samples from the water spray pond, and one sample from the pregnant solution pond (see figure attached). The high total cyanide levels in both the overflow water and water spray ponds indicate that additional soil removal and treatment is necessary in these areas. Additional soil sampling and analysis should follow the excavation. The single elevated level in the pregnant solution pond exceeded the soil cleanup level by 0.65 mg/kg. This sample is being reanalyzed by the State Lab for verification. In addition, the analysis of sample 02 in the overflow water pond is being rechecked by the State Lab due to nearly identical total and free cyanide measurements.

It has been suggested by PBR Minerals, Inc., but not substantiated, that all contaminated groundwater has been recovered by pumping Tombstone Exploration well #2. Although, the levels of free cyanide in well #2 has decreased from a level of 93.9 mg/l in July, 1984 to a level of approximately 0.01 mg/l in May, 1988, this in itself is not evidence that the entirely of the contaminants were recovered. At the present time, there is no hydraulic conductivity data which can be used to estimate the limits of the capture zone created by well #2 during remediation. A pump test would allow a judgement to be made on this issue.

My suggestion is to pump Tombstone Exploration well #2, and measure both drawdown and recovery in wells #1, #2 and possibly the exposed mine shaft near the old pregnant solution pond. Data collected in wells #1 and #2 could be used to calculate aquifer parameters. With this information, the water table elevation map, and an average pumping rate for well #2 during its operation, an estimate can be made of the capture zone. Note that with only one observation

well, we will be forced to assume that the aquifer is homogeneous and isotropic. These assumptions are likely in error as the nature of the aquifer porosity has been described as fractures and solution cavities.

An attempt should also be made to collect a water sample from the exposed mine shaft. If a water sample can be obtained, it should be analyzed for total cyanide, free cyanide, trace metals (including mercury), major cations, major anions and nitrate.

Quarterly post-closure monitoring should be conducted for five years with water samples collected from Tombstone Development Wells #1 and #2 and the City of Tombstone Well #1. Constituents monitored should include total cyanide, free cyanide, nitrate and mercury.

If the groundwater elevation map indicates that wells #1 and #2 are not adequate for post-closure monitoring, an additional downgradient monitoring well may need to be installed. This may also be the case if the calculated capture zone of well #2 is small. If necessary, I would recommend it be placed downgradient of wells #1 and #2 based on groundwater velocity considerations which include the hydraulic conductivity derived from the pump test, the hydraulic gradient derived from the water table elevation map, regional fracture trends and the time since the start of Cochise Silver's operation. It should be kept in mind that an indicated large capture zone for well #2 may negate the need for an additional downgradient monitoring well.

BT:dl

GBOQPP G 0019 -02 Temp.

ARIZONA DEPARTMENT OF HEALTH SERVICES

PWS [illegible]r:

August 22, 1988

State Laboratory

Jon M. Counts, Dr. P. H., Assistant Director

1520 West Adams, Phoenix, Arizona 85007
(602) 255-1188

THATCHER, BRUCE K.
DEQ
DEPT. ENVIRON. QUALITY
HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: SOIL SLUDGE
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 01
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: X

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Com[illegible]ts:

-- ANALYTICAL RESULTS --

LAB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS		METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS	
11409	08/22/88	Cyanide, Total	0.595	ug/g	720	EPA 335.2	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Cyanide, Direct	ND < 0.05	ug/g	722	EPA 335.1	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Extractable Nitrate	5.54	ug/g	630	EPA 353.2	0.01	mg-N/l	N/A		
	08/22/88	pH	8.5		403	EPA 150.1	0.1	SU	EPA 9040	0.1	SU
	08/22/88	Mercury	< 0.25	ug/g	71900/71890	EPA 245.1	0.0005	mg/l	EPA 7470	0.05	mg/kg

[illegible]iewed and Approved: Thomas Davis
[illegible]mas S. Davis, Manager
[illegible]ice of Environmental and Analytical Chemistry

000080

ARIZONA DEPARTMENT OF HEALTH SERVICES

PWS[illegible]er:

State Laboratory

August 22, 1988

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THATCHER, BRUCE K.
DEQ
DEPT. ENVIRON. QUALITY
HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: SOIL SLUDGE
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 02
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: X

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Com[illegible]ts:

-- ANALYTICAL RESULTS --

LAB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS		METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS	
11410	08/22/88	Cyanide, Total	8.02	ug/g	720	EPA 335.2	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Cyanide, Direct	8.0	ug/g	722	EPA 335.1	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Extractable Nitrate	51.5	ug/g	630	EPA 353.2	0.01	mg-N/l	N/A		
	08/22/88	pH	7.55		403	EPA 150.1	0.1	SU	EPA 9040	0.1	SU
	08/22/88	Mercury	< 0.25	ug/g	71900/71890	EPA 245.1	0.0005	mg/l	EPA 7470	0.05	mg/kg

[illegible]viewed and Approved: Thomas Davis
[illegible]omas S. Davis, Manager
[illegible]fice of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

PWS [illegible]er:

August 22, 1988

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HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: SOIL SLUDGE
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 03
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: X

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Com[illegible]ts:

-- ANALYTICAL RESULTS --

LAB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS		METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS	
11411	08/22/88	Cyanide, Total	23.0	ug/g	720	EPA 335.2	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Cyanide, Direct	4.0	ug/g	722	EPA 335.1	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Extractable Nitrate	53.5	ug/g	630	EPA 353.2	0.01	mg-N/l	N/A		
	08/22/88	pH	8.1		403	EPA 150.1	0.1	SU	EPA 9040	0.1	SU
	08/22/88	Mercury	< 0.25	ug/g	71900/71890	EPA 245.1	0.0005	mg/l	EPA 7470	0.05	mg/kg

[illegible]viewed and Approved: Thomas S. Davis
[illegible]omas S. Davis, Manager
[illegible]fice of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

PWS [illegible]er:

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August 22, 1988

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THATCHER, BRUCE K.
DEQ
DEPT. ENVIRON. QUALITY
HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: SOIL SLUDGE
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 04
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: X

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Com[illegible]ts:

-- ANALYTICAL RESULTS --

LAB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS		METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS	
11412	08/22/88	Cyanide, Total	1.63	ug/g	720	EPA 335.2	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Cyanide, Direct	ND < 0.05	ug/g	722	EPA 335.1	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Extractable Nitrate	34.0	ug/g	630	EPA 353.2	0.01	mg-N/l	N/A		
	08/22/88	pH	8.33		403	EPA 150.1	0.1	SU	EPA 9040	0.1	SU
	08/22/88	Mercury	< 0.25	ug/g	71900/71890	EPA 245.1	0.0005	mg/l	EPA 7470	0.05	mg/kg

[illegible]viewed and Approved: Thomas Davis
[illegible]omas S. Davis, Manager
[illegible]fice of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

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August 22, 1988

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THATCHER, BRUCE K.
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HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: SOIL SLUDGE
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 05
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: X

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Com[illegible]ts:

-- ANALYTICAL RESULTS --

LAB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS		METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS	
11413	08/22/88	Cyanide, Total	0.235	ug/g	720	EPA 335.2	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Cyanide, Direct	ND < 0.05	ug/g	722	EPA 335.1	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Extractable Nitrate	3.79	ug/g	630	EPA 353.2	0.01	mg-N/l	N/A		
	08/22/88	pH	8.53		403	EPA 150.1	0.1	SU	EPA 9040	0.1	SU
	08/22/88	Mercury	< 0.25	ug/g	71900/71890	EPA 245.1	0.0005	mg/l	EPA 7470	0.05	mg/kg

[illegible]iewed and Approved: Thomas Davis
[illegible]mas S. Davis, Manager
[illegible]fice of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

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August 22, 1988

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HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: SOIL SLUDGE
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 06
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: X

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Com[illegible]ts:

-- ANALYTICAL RESULTS --

LAB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS		METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS	
11414	08/22/88	Cyanide, Total	0.688	ug/g	720	EPA 335.2	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Cyanide, Direct	ND < 0.05	ug/g	722	EPA 335.1	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Extractable Nitrate	19.7	ug/g	630	EPA 353.2	0.01	mg-N/l	N/A		
	08/22/88	pH	8.2		403	EPA 150.1	0.1	SU	EPA 9040	0.1	SU
	08/22/88	Mercury	< 0.25	ug/g	71900/71890	EPA 245.1	0.0005	mg/l	EPA 7470	0.05	mg/kg

[illegible]viewed and Approved: Thomas Davis
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ARIZONA DEPARTMENT OF HEALTH SERVICES

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August 22, 1988

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HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: SOIL SLUDGE
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 07
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: X

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Com[illegible]s:

-- ANALYTICAL RESULTS --

AB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS		METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS	
1415	08/22/88	Cyanide, Total	18.8	ug/g	720	EPA 335.2	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Cyanide, Direct	0.45	ug/g	722	EPA 335.1	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Extractable Nitrate	22.6	ug/g	630	EPA 353.2	0.01	mg-N/l	N/A		
	08/22/88	pH	8.5		403	EPA 150.1	0.1	SU	EPA 9040	0.1	SU
	08/22/88	Mercury	0.37	ug/g	71900/71890	EPA 245.1	0.0005	mg/l	EPA 7470	0.05	mg/kg

iewed and Approved: Thomas Davis
mas S. Davis, Manager
ice of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

PWS [illegible]r:

August 22, 1988

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THATCHER, BRUCE K.
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HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: SOIL SLUDGE
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 08
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: X

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Com[illegible]s:

-- ANALYTICAL RESULTS --

LAB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS		METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS	
1416	08/22/88	Cyanide, Total	2.96	ug/g	720	EPA 335.2	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Cyanide, Direct	ND < 0.05	ug/g	722	EPA 335.1	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Extractable Nitrate	8.69	ug/g	630	EPA 353.2	0.01	mg-N/l	N/A		
	08/22/88	pH	8.6		403	EPA 150.1	0.1	SU	EPA 9040	0.1	SU
	08/22/88	Mercury	< 0.25	ug/g	71900/71890	EPA 245.1	0.0005	mg/l	EPA 7470	0.05	mg/kg

[illegible]iewed and Approved: Thomas Davis
[illegible]mas S. Davis, Manager
[illegible]ice of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

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PWS Number:

September 22, 1988

THATCHER, BRUCE K.
DEQ
DEPT. ENVIRON. QUALITY
HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: SOIL SLUDGE
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 09
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: Y

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Comments:

-- ANALYTICAL RESULTS --

LAB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS		METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS	
1417	08/22/88	Cyanide, Total	94.3	ug/g	720	EPA 335.2	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Cyanide, Direct	ND < 0.05	ug/g	722	EPA 335.1	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Extractable Nitrate	5.93	ug/g	630	EPA 353.2	0.01	mg-N/l	N/A		
	[illegible]2/88	pH	8.5		403	EPA 150.1	0.1	SU	EPA 9040	0.1	SU
	08/22/88	Mercury	< 0.25	ug/g	71900/71890	EPA 245.1	0.0005	mg/l	EPA 7470	0.05	mg/kg

Reviewed and Approved: Thomas Davis
Thomas S. Davis, Manager
Office of Environmental and Analytical Chemistry

000088

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

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1520 West Adams, Phoenix, Arizona 85007
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PWS Number:

August 26, 1988

THATCHER, BRUCE K.
DEQ
DEPT. ENVIRON. QUALITY
HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: SOIL SLUDGE
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 10
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: X

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Comments:

-- ANALYTICAL RESULTS --

LAB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS		METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS	
1418	08/22/88	Cyanide, Total	2.65	ug/g	720	EPA 335.2	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Cyanide, Direct	ND < 0.05	ug/g	722	EPA 335.1	1.0	mg/l	EPA 9010	1.0	mg/kg
	[illegible]2/88	Extractable Nitrate	30.8	ug/g	630	EPA 353.2	0.01	mg-N/l	N/A		
	08/22/88	pH	8.46		403	EPA 150.1	0.1	SU	EPA 9040	0.1	SU
	08/22/88	Mercury	0.26	ug/g	71900/71890	EPA 245.1	0.0005	mg/l	EPA 7470	0.05	mg/kg

000089

iewed and Approved: Thomas Davis
mas S. Davis, Manager

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

Jon M. Counts, Dr. P. H., Assistant Director
1520 West Adams, Phoenix, Arizona 85007
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PWS Number:

August 26, 1988

THATCHER, BRUCE K.
DEQ
DEPT. ENVIRON. QUALITY
HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: SOIL SLUDGE
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 11
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: X

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Comments:

-- ANALYTICAL RESULTS --

AB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS		METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS	
1419	08/22/88	Cyanide, Total	0.754	ug/g	720	EPA 335.2	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Cyanide, Direct	ND < 0.05	ug/g	722	EPA 335.1	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Extractable Nitrate	27.1	ug/g	630	EPA 353.2	0.01	mg-N/l	N/A		
	08/22/88	pH	8.5		403	EPA 150.1	0.1	SU	EPA 9040	0.1	SU
	08/22/88	Mercury	< 0.25	ug/g	71900/71890	EPA 245.1	0.0005	mg/l	EPA 7470	0.05	mg/kg

000090

iewed and Approved: Thomas Davis
mas S. Davis, Manager

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

Jon M. Counts, Dr. P. H., Assistant Director
1520 West Adams, Phoenix, Arizona 85007
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PWS Number:

August 26, 1988

THATCHER, BRUCE K.
DEQ
DEPT. ENVIRON. QUALITY
HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: SOIL SLUDGE
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 12
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: X

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Comments:

-- ANALYTICAL RESULTS --

LAB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS		METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS	
11420	08/22/88	Cyanide, Total	0.855	ug/g	720	EPA 335.2	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Cyanide, Direct	ND < 0.05	ug/g	722	EPA 335.1	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Extractable Nitrate	25.0	ug/g	630	EPA 353.2	0.01	mg-N/l	N/A		
	08/22/88	pH	8.5		403	EPA 150.1	0.1	SU	EPA 9040	0.1	SU
	08/22/88	Mercury	< 0.25	ug/g	71900/71890	EPA 245.1	0.0005	mg/l	EPA 7470	0.05	mg/kg

000091

Reviewed and Approved: Thomas Davis
Thomas S. Davis, Manager

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

Jon M. Counts, Dr. P. H., Assistant Director
1520 West Adams, Phoenix, Arizona 85007
(602) 255-1188

PWS Number:

August 26, 1988

THATCHER, BRUCE K.
DEQ
DEPT. ENVIRON. QUALITY
HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: SOIL SLUDGE
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 13
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: X

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Comments:

-- ANALYTICAL RESULTS --

LAB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS		METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS	
11421	08/22/88	Cyanide, Total	0.522	ug/g	720	EPA 335.2	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Cyanide, Direct	ND < 0.05	ug/g	722	EPA 335.1	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Extractable Nitrate	32.8	ug/g	630	EPA 353.2	0.01	mg-N/l	N/A		
	08/22/88	pH	8.3		403	EPA 150.1	0.1	SU	EPA 9040	0.1	SU
	08/22/88	Mercury	< 0.25	ug/g	71900/71890	EPA 245.1	0.0005	mg/l	EPA 7470	0.05	mg/kg

000092

Reviewed and Approved: Thomas Davis
Thomas S. Davis, Manager

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

Jon M. Counts, Dr. P. H., Assistant Director
1520 West Adams, Phoenix, Arizona 85007
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PWS Number:

August 26, 1988

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DEQ
DEPT. ENVIRON. QUALITY
HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: SOIL SLUDGE
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 14
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: X

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Comments:

-- ANALYTICAL RESULTS --

LAB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS	METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS
11422	08/22/88	Cyanide, Total	1.92	ug/g	720	EPA 335.2	1.0 mg/l	EPA 9010	1.0 mg/kg
	08/22/88	Cyanide, Direct	ND < 0.05	ug/g	722	EPA 335.1	1.0 mg/l	EPA 9010	1.0 mg/kg
	[illegible]2/88	Extractable Nitrate	7.04	ug/g	630	EPA 353.2	0.01 mg-N/l	N/A	
	08/22/88	pH	8.7		403	EPA 150.1	0.1 SU	EPA 9040	0.1 SU
	08/22/88	Mercury	0.25	ug/g	71900/71890	EPA 245.1	0.0005mg/l	EPA 7470	0.05 mg/kg

000093

Reviewed and Approved: Thomas Davis
Thomas S. Davis, Manager

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

Jon M. Counts, Dr. P. H., Assistant Director
1520 West Adams, Phoenix, Arizona 85007
(602) 255-1188

PWS Number:

August 26, 1988

THATCHER, BRUCE K.
DEQ
DEPT. ENVIRON. QUALITY
HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: SOIL SLUDGE
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 15
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: X

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Comments:

-- ANALYTICAL RESULTS --

LAB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS		METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS	
11423	08/22/88	Cyanide, Total	1.31	ug/g	720	EPA 335.2	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Cyanide, Direct	ND < 0.05	ug/g	722	EPA 335.1	1.0	mg/l	EPA 9010	1.0	mg/kg
	[illegible]2/88	Extractable Nitrate	20.8	ug/g	630	EPA 353.2	0.01	mg-N/l	N/A		
	08/22/88	pH	8.4		403	EPA 150.1	0.1	SU	EPA 9040	0.1	SU
	08/22/88	Mercury	0.52	ug/g	71900/71890	EPA 245.1	0.0005	mg/l	EPA 7470	0.05	mg/kg

000094

Reviewed and Approved: Thomas Davis
Thomas S. Davis, Manager

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

Jon M. Counts, Dr. P. H., Assistant Director
1520 West Adams, Phoenix, Arizona 85007
(602) 255-1188

PWS Number:

August 26, 1988

THATCHER, BRUCE K.
DEQ
DEPT. ENVIRON. QUALITY
HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: SOIL SLUDGE
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 16
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: X

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Comments:

-- ANALYTICAL RESULTS --

LAB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS		METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS	
11424	08/22/88	Cyanide, Total	0.238	ug/g	720	EPA 335.2	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Cyanide, Direct	ND < 0.05	ug/g	722	EPA 335.1	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Extractable Nitrate	25.0	ug/g	630	EPA 353.2	0.01	mg-N/l	N/A		
	08/22/88	pH	8.5		403	EPA 150.1	0.1	SU	EPA 9040	0.1	SU
	08/22/88	Mercury	< 0.25	ug/g	71900/71890	EPA 245.1	0.0005	mg/l	EPA 7470	0.05	mg/kg

000095

Reviewed and Approved: Thomas Davis
Thomas S. Davis, Manager

ARIZONA DEPARTMENT OF HEALTH SERVICES

State Laboratory

Jon M. Counts, Dr. P. H., Assistant Director
1520 West Adams, Phoenix, Arizona 85007
(602) 255-1188

PWS Number:

August 26, 1988

THATCHER, BRUCE K.
DEQ
DEPT. ENVIRON. QUALITY
HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: SOIL SLUDGE
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 17
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: X

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Comments:

-- ANALYTICAL RESULTS --

LAB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS		METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS	
11425	08/22/88	Cyanide, Total	1.16	ug/g	720	EPA 335.2	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Cyanide, Direct	ND < 0.05	ug/g	722	EPA 335.1	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Extractable Nitrate	35.6	ug/g	630	EPA 353.2	0.01	mg-N/l	N/A		
	08/22/88	pH	8.4		403	EPA 150.1	0.1	SU	EPA 9040	0.1	SU
	08/22/88	Mercury	0.31	ug/g	71900/71890	EPA 245.1	0.0005	mg/l	EPA 7470	0.05	mg/kg

000096

viewed and Approved: Thomas Davis
omas S. Davis, Manager

ARIZONA DEPARTMENT OF HEALTH SERVICES

PWS N[illegible]r:

State Laboratory

August 22, 1988

Jon M. Counts, Dr. P. H., Assistant Director
1520 West Adams, Phoenix, Arizona 85007
(602) 255-1188

THATCHER, BRUCE K.
DEQ
DEPT. ENVIRON. QUALITY
HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: WATER
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 18
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: X

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Com[illegible]s:

-- ANALYTICAL RESULTS --

LAB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS	METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS
1426	08/22/88	Cyanide, Total	0.082	ug/ml	720	EPA 335.2	1.0 mg/l	EPA 9010	1.0 mg/kg
	08/22/88	Cyanide, Direct	ND < 0.05	ug/ml	722	EPA 335.1	1.0 mg/l	EPA 9010	1.0 mg/kg
	08/22/88	Nitrite/Nitrate Total	< 0.10	ug/ml	630	EPA 353.2	0.01 mg-N/l	N/A	
	08/22/88	Mercury	0.0008	ug/ml	71900/71890	EPA 245.1	0.0005mg/l	EPA 7470	0.05 mg/kg

[illegible]iewed and Approved: Thomas Davis
[illegible]mas S. Davis, Manager
[illegible]ice of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

PWS N[illegible]:

August 22, 1988

State Laboratory

Jon M. Counts, Dr. P. H., Assistant Director

1520 West Adams, Phoenix, Arizona 85007
(602) 255-1188

THATCHER, BRUCE K.
DEQ
DEPT. ENVIRON. QUALITY
HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: WATER
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 19
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: X

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Comm[illegible]s:

-- ANALYTICAL RESULTS --

AB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS		METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS	
1427	08/22/88	Cyanide, Total	0.118	ug/ml	720	EPA 335.2	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Cyanide, Direct	ND < 0.05	ug/ml	722	EPA 335.1	1.0	mg/l	EPA 9010	1.0	mg/kg
	08/22/88	Nitrite/Nitrate Total	< 0.10	ug/ml	630	EPA 353.2	0.01	mg-N/l	N/A		
	08/22/88	Mercury	0.0012	ug/ml	71900/71890	EPA 245.1	0.0005	mg/l	EPA 7470	0.05	mg/kg

[illegible]ewed and Approved: Thomas Davis
[illegible]as S. Davis, Manager
[illegible]ce of Environmental and Analytical Chemistry

ARIZONA DEPARTMENT OF HEALTH SERVICES

PWS N[illegible]:

State Laboratory

August 22, 1988

Jon M. Counts, Dr. P. H., Assistant Director
1520 West Adams, Phoenix, Arizona 85007
(602) 255-1188

THATCHER, BRUCE K.
DEQ
DEPT. ENVIRON. QUALITY
HYDROLOGY SECTION
2005 N CENTRAL
PHOENIX, AZ 85004

TYPE OF SAMPLE: WATER
Custody: Y
Priority: 3

Sample Name: COCHISE
Station: 20
Date Sampled: 07/26/88
Time Sampled:

PROCESSING:
X Total Recoverable
Dissolved (Filtered)
Leachate/EP Tox
Other: X

Note: All samples, including chain-of-custody, will be disposed of within 60 days unless a "Save Sample" form is received by the Chemistry Laboratory.

Comm[illegible]s:

-- ANALYTICAL RESULTS --

AB #	DATE REPORTED	COMPOUND	RESULT		STORET NUMBER	METHOD FOR WATERS	DET. LIMITS FOR WATERS	METHOD FOR SOLIDS	DET. LIMITS FOR SOLIDS
1428	08/22/88	Cyanide, Total	< 0.05	ug/g	720	EPA 335.2	1.0 mg/l	EPA 9010	1.0 mg/kg
	08/22/88	Cyanide, Direct	ND < 0.05	ug/ml	722	EPA 335.1	1.0 mg/l	EPA 9010	1.0 mg/kg
	08/22/88	Nitrite/Nitrate Total	< 0.10	ug/g	630	EPA 353.2	0.01 mg-N/l	N/A	
	08/22/88	Mercury	< 0.0005	ug/ml	71900/71890	EPA 245.1	0.0005mg/l	EPA 7470	0.05 mg/kg

[illegible]ewed and Approved: Thomas Davis
[illegible]as S. Davis, Manager
[illegible]ce of Environmental and Analytical Chemistry

STATE LABORATORY

SAVE SAMPLE(S) REQUEST FORM

If the Laboratory does not receive this completed "SAVE SAMPLE(S) REQUEST", the sample(s) will be disposed 60 days from the date of the final analytical report. Please call one week after returning form to verify that this form has been received by the laboratory, (602) 255-1188.

Sample Numbers: Cochise 02 (Lab# 11410), Cochise 03 (Lab# 11411), Cochise 07 (Lab# 11415), Cochise 08 (Lab# 11416), Cochise 09 (Lab# 11417), Cochise 10 (Lab# 11418)

Save Samples Until (DATE): November 13, 1999

Reason For Saving Sample(s)/COMMENTS: High total cyanide values were measured. If PBR Minerals, Inc. chooses to challenge the data, we can reanalyzed the remaining soil.

Bruce K. Thatcher Jr. — Signature of Requestor

9/13/99 — Date

257-2102 — Phone #

Bruce K. Thatcher, Jr. — Name of Requestor (PLEASE PRINT)

Return Completed Form To: Arizona Department of Health Services
Division of State Laboratory Services
Chemistry Section
1520 West Adams Street
Phoenix, Arizona 85007
C/O Custody Officer

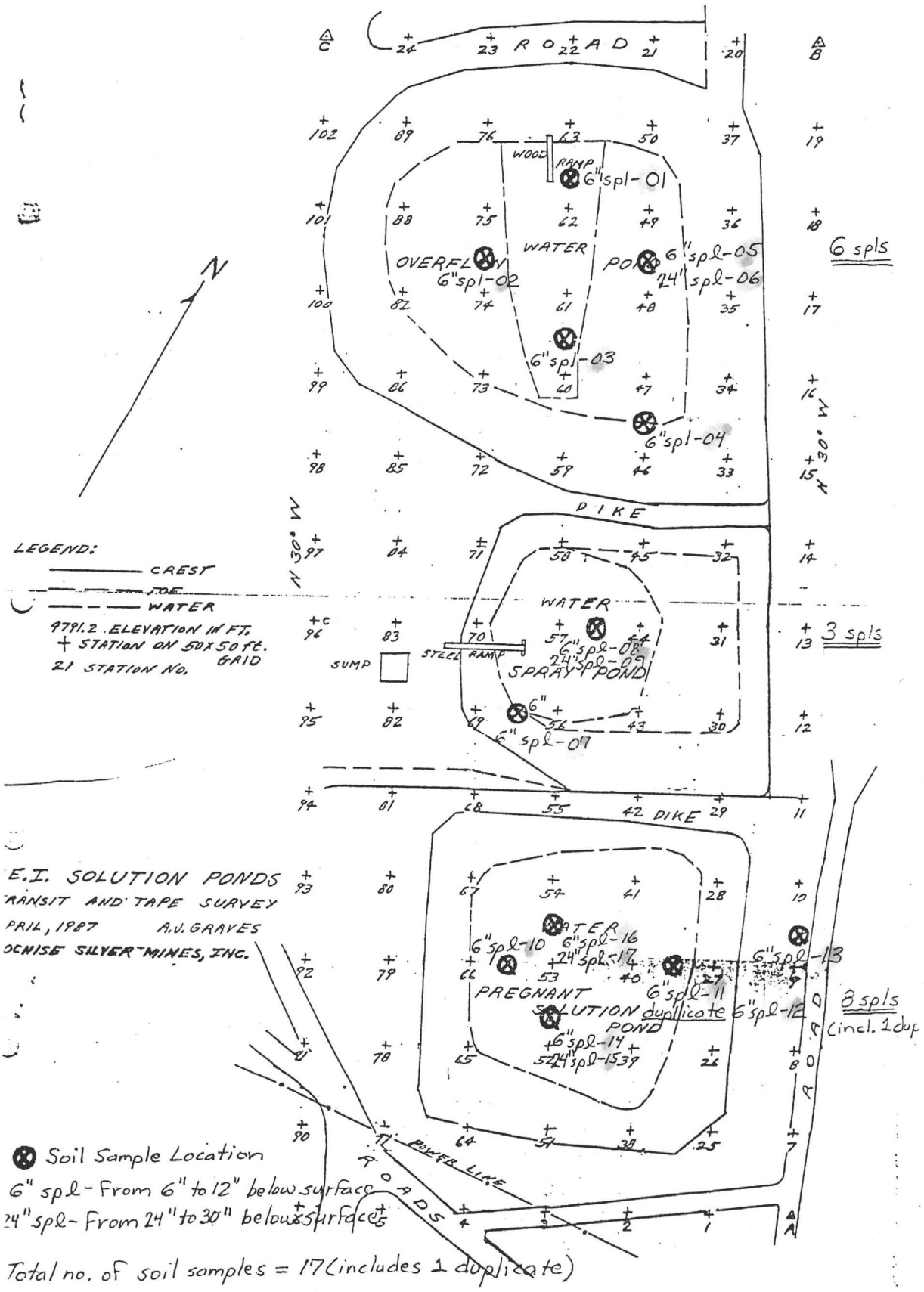


FIGURE 4 SITE SAMPLING LOCATION PLAN

000101

Hg, mg/kg
7/26/88
ADEQ sptg
(1) <0.25

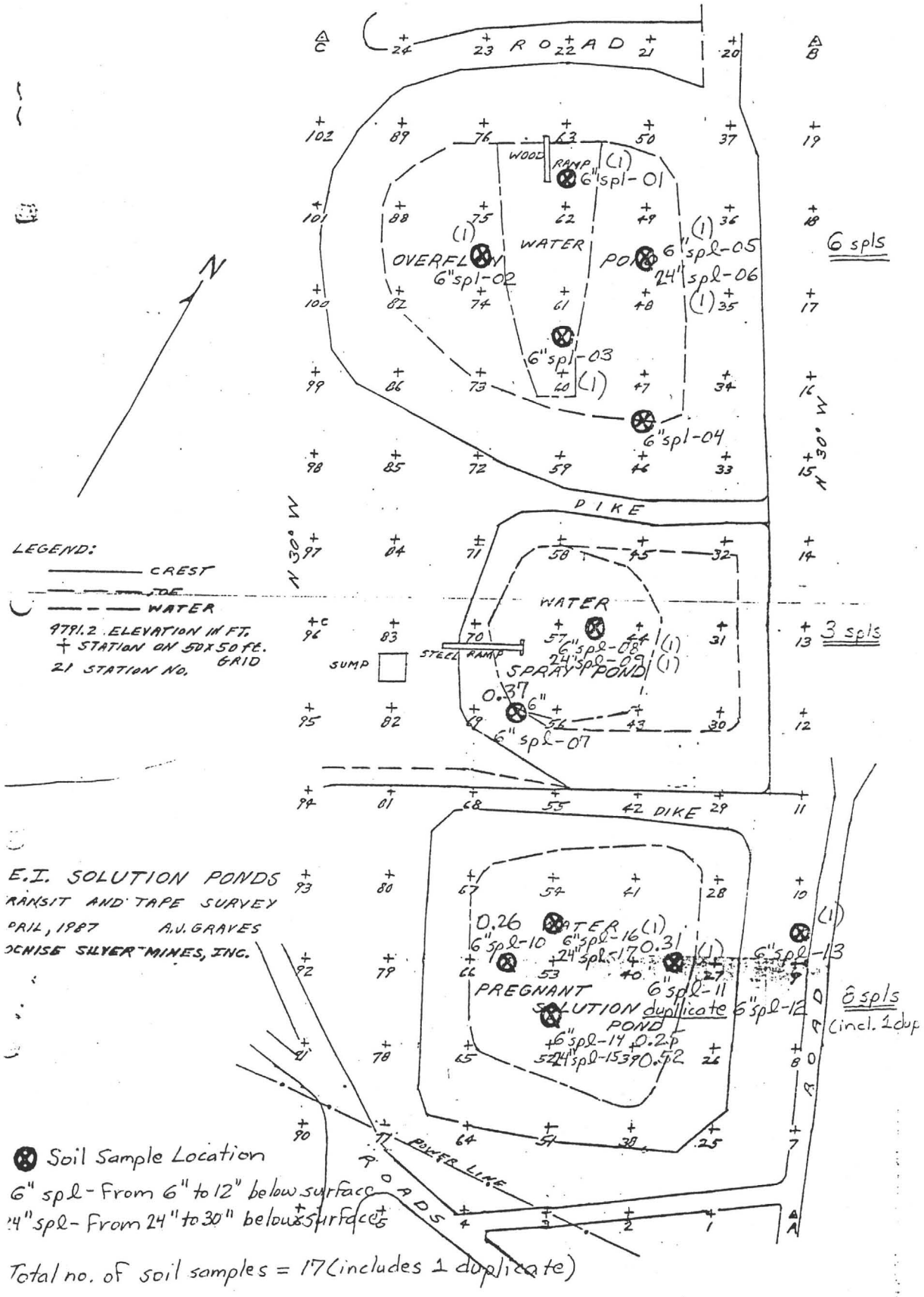
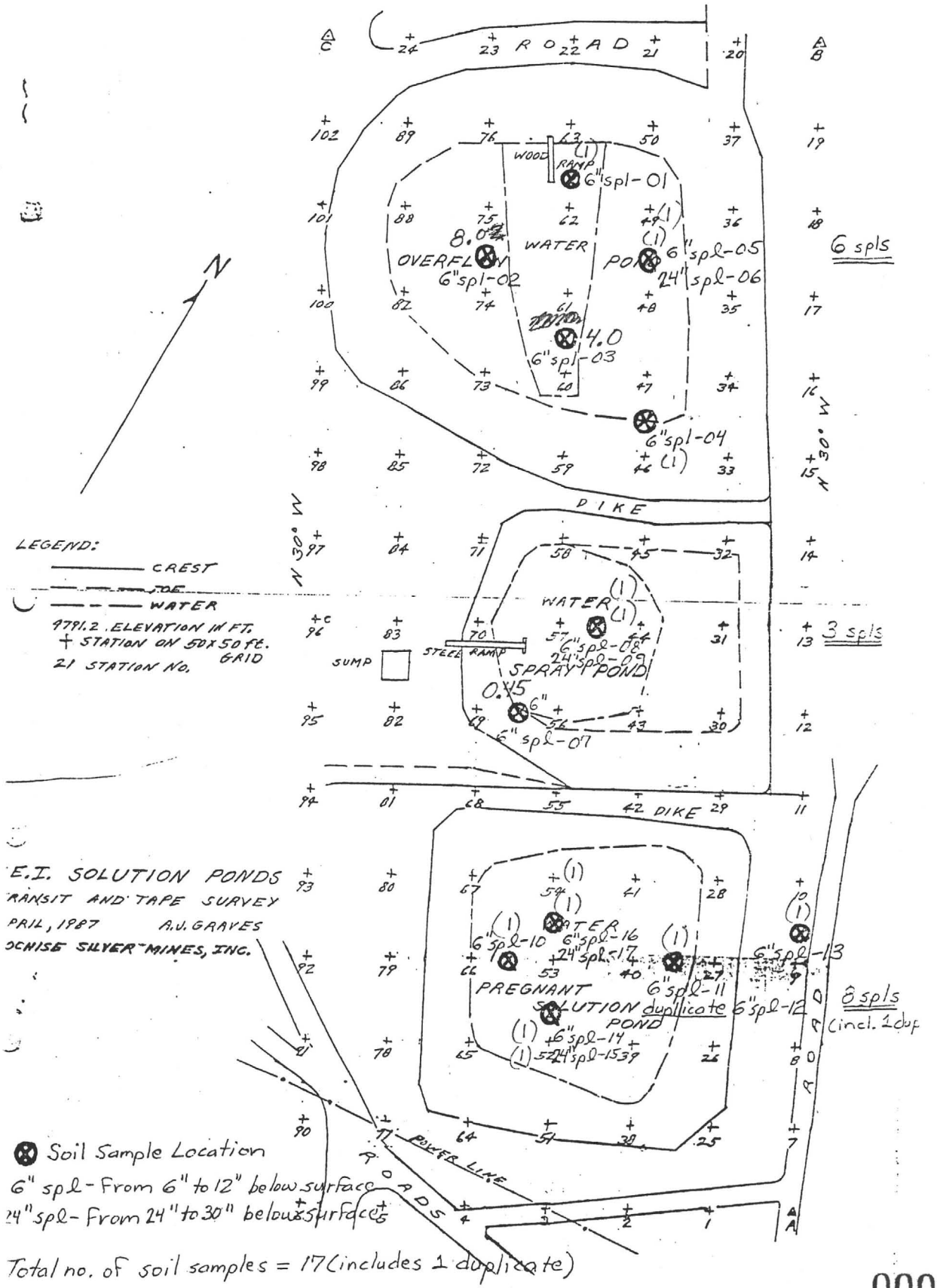


FIGURE 4 SITE SAMPLING LOCATION PLAN

Direct CN, mg/kg
7/26/88
ADEQ Sptg -

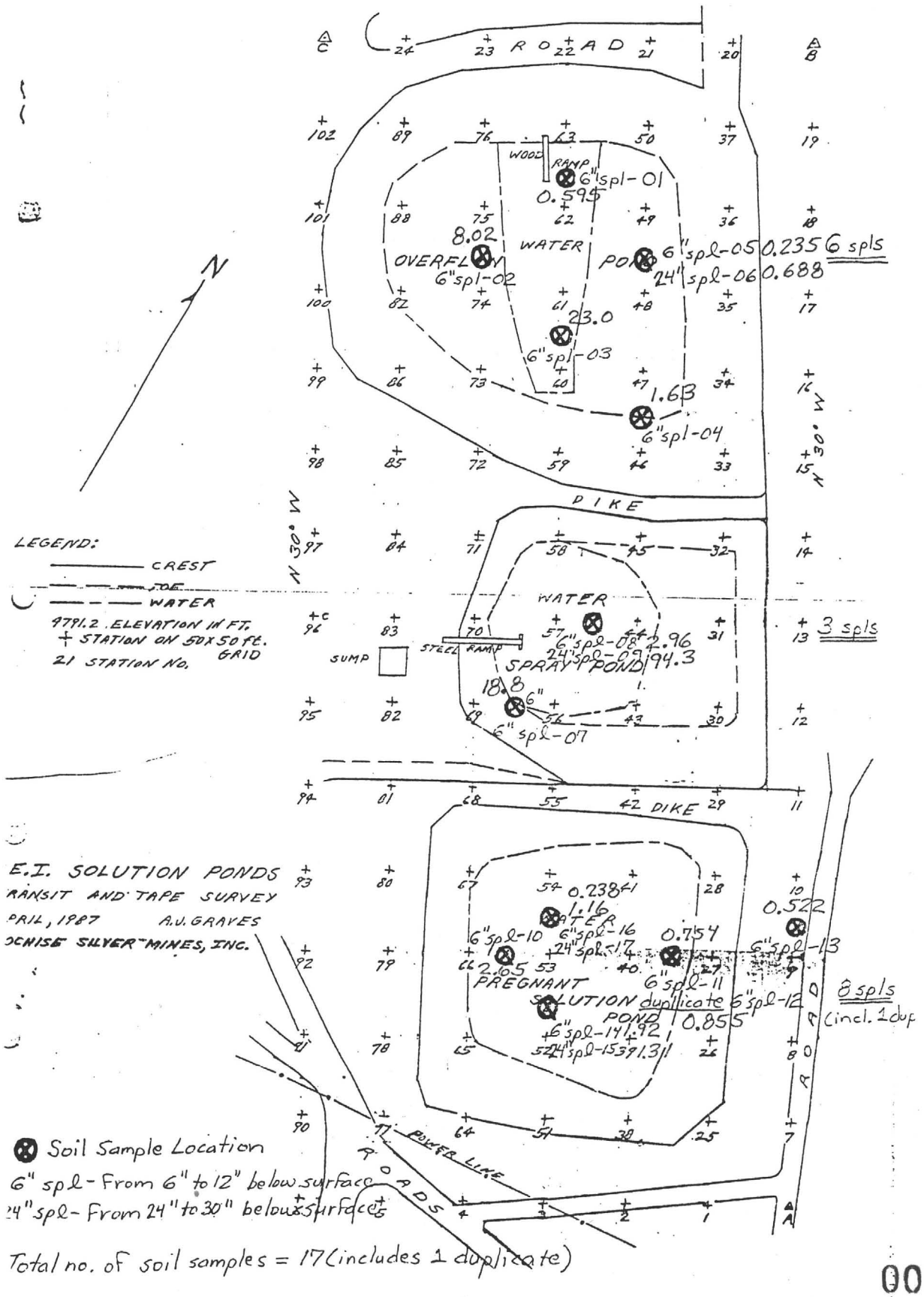
(1) < 0.05



000103

FIGURE 4 SITE SAMPLING LOCATION PLAN

Total CN mg/kg
7/26/88
ADEQ Splg



000104

FIGURE 4 SITE SAMPLING LOCATION PLAN

Cochise	Cyanide, mg/kg Total	Cyanide, mg/kg Direct	Extractable NO_3 mg N/l	Hg mg/kg	pH, SU
01	0.595	<0.05	5.54	<0.25	8.5
02	8.02	8.0	51.5	<0.25	7.55
03	23.0	4.0	53.5	<0.25	8.1
04	1.63	<0.05	34.0	<0.25	8.33
05	0.235	<0.05	3.79	<0.25	8.53
06	0.688	<0.05	19.7	<0.25	8.2
07	18.8	0.45	22.6	0.37	8.5
08	2.96	<0.05	8.69	<0.25	8.6
? → 09	94.3	<0.05	5.93	<0.25	8.5
10	2.65	<0.05	30.8	0.26	8.46
11	0.754	<0.05	27.1	<0.25	8.5
12	0.855	<0.05	25.0	<0.25	8.5
13	0.522	<0.05	32.8	<0.25	8.3
14	1.92	<0.05	7.04	0.25	8.7
15	1.31	<0.05	20.8	0.52	8.4
16	0.238	<0.05	25.0	<0.25	8.5
17	1.16	<0.05	35.6	0.31	8.4
	mg/l	ug/ml			
Field Blank 18	0.082	<0.05	<0.10	0.0008	
Field Blank 19	0.118	<0.05	<0.10	0.0012	
Trip Blank 20	<0.05	<0.05	<0.10	<0.005	

Soil Cleanup Levels: 2 mg/kg Total CN

W

Cochise	Cyanide, mg/kg Total	Cyanide, mg/kg Direct	Extractable NO_3 mg N/l	Hg mg/kg	pH, SU
01	0.595	<0.05	5.54	<0.25	8.5
02	8.02	8.0	51.5	<0.25	7.55
03	23.0	4.0	53.5	<0.25	8.1
04	1.63	<0.05	34.0	<0.25	8.33
05	0.235	<0.05	3.79	<0.25	8.53
06	0.688	<0.05	19.7	<0.25	8.2
07	18.8	0.45	22.6	0.37	8.5
08	2.96	<0.05	8.69	<0.25	8.6
09	94.3	<0.05	5.93	<0.25	8.5
10	2.65	<0.05	30.8	0.26	8.46
11	0.754	<0.05	27.1	<0.25	8.5
12 (dup. 11)	0.855	<0.05	25.0	<0.25	8.5
13	0.522	<0.05	32.8	<0.25	8.3
14	1.92	<0.05	7.04	0.25	8.7
15	1.31	<0.05	20.8	0.52	8.4
16	0.238	<0.05	25.0	<0.25	8.5
17	1.16	<0.05	35.6	0.31	8.4
	mg/l	ug/ml			
Field Blank 18	0.082	<0.05	<0.10	0.0008	
Field Blank 19	0.118	<0.05	<0.10	0.0012	
Trip Blank 20	<0.05	<0.05	<0.10	<0.005	

taken from
PBR Minerals, Inc.
Temporary Permit
file
6-0019-02T

ARIZONA DEPARTMENT OF

JAY I. MOYES
ATTORNEY AT LAW

MEYER, HENDRICKS, VICTOR
OSBORN & MALEDON
A PROFESSIONAL ASSOCIATION

2700 NORTH THIRD STREET
SUITE 4000
PHOENIX, ARIZONA 8500

Rose Mofford, Governor
Ronald Miller, Acting Director

September 29, 1988

Mr. Jay I. Moyes
Meyer, Hendricks, Victor, Osborn & Maledon
Suite 4000
2700 North Third Street
Phoenix, Arizona 85004

REC'D MEYER, HENDRICKS
VICTOR, OSBORN & MALEDON
SEP 29 1988

COPY

Dear Mr. Moyes:

Re: PBR Minerals, Incorporated
Groundwater Quality Protection
Permit No. G-0019-02T - Site Closure Plan

The closure plan for the above referenced facility has been received and reviewed by the Water Permits Unit and the State Permits Hydrology, and we offer the following comments. Although overall we feel the area has been adequately excavated, results of soil sampling performed by the Department reveals several areas of elevated total cyanide levels remain. Copies of the laboratory results and the map showing sample locations are enclosed. We are having the lab reanalyze samples from locations 02 and 10. Sample 10 is from the pregnant solution pond. The result from that location indicated a level of total cyanide of 2.65 mg/kg, just over the cleanup limit, which is why we are proceeding with reanalysis. It appears that additional excavation and treatment of the other "hot spot" areas must occur.

In order to substantiate the contention that the contamination in TEI well #2 has been contained through pumping, we feel the following tasks must be performed:

- Pump test of well #2.
- Collect and tabulate pumping records of well #2 during the period of known contamination including pumping rate(s) and periods of down time.
- Construction of a water table elevation map.
- Collection of a water sample from the open mine shaft underlying the pregnant solution pond, if possible.

The Hydrology Unit recommends pumping TEI #2, measuring drawdown and recovery in wells #1, #2 and possibly the exposed mine shaft. Data collected in wells #1 and #2 could be used to calculate aquifer parameters. With this information, the water table elevation map, and an average pumping rate for well #2 during its operation, an estimate can be made of the capture zone. They note that with only one observation well, we will be forced to assume that the aquifer is homogeneous and isotropic even though these assumptions are likely in error as the nature of the aquifer porosity has been described as fractures and solution cavities.

If a water sample can be obtained from the exposed mine shaft, it should be analyzed for total cyanide, free cyanide, trace metals (including mercury), major cations, major anions and nitrate-nitrogen.

It is also recommended that quarterly post-closure monitoring should be conducted for five years in TEI wells #1 and #2 and the City of Tombstone well #1. Constituents to be analyzed should include total cyanide, free cyanide, nitrate-nitrogen and mercury.

Hydrology cautions if the groundwater elevation map indicates that wells #1 and #2 are not adequate for post-closure monitoring, an additional downgradient monitoring well may need to be installed. This may also be the case if the calculated capture zone of well #2 is small. It is further recommended that if necessary, it be placed downgradient of wells #1 and #2 based on groundwater velocity considerations which include the hydraulic conductivity dreived from the pump test, the hydraulic gradient derived from the water table elevation map, regional fracture trends and the time since the start of Cohise Silver's operation. However an indicated large capture zone for well #2 may negate the need for an additional downgradient monitor well.

Please develop and provide a time schedule for performing these tasks within 30 days of the date of this letter. If you have any questions concerning this matter, feel free to call me at 257-2270 or Bruce Thatcher in the Hydrology Section at 257-2142.

Sincerely,

Roger Kennett

Roger Kennett
Water Permits Unit

RK:mls

cc: Perry Nixon
Nancy Jamison
James Maston
Bruce Thatcher

Pond Clean-up

10-7-88

Got 5 samples from Areas which DEQ considers To be "Hot Spots". Assayed each sample @ -4 M for free CN with following Results:

		mg/L free CN⁻
Sta	8-9	7.60
Sta	46	< 0.01
Sta	62	< 0.01
Sta	68	< 0.01
Sta	84	< 0.01

Note: 200 gram sample
200 Ml DI H_2O
.1 gr CaO (for filtration clarity)
Agitate (Bottle Roll) 2 Hours
Filter ~~[illegible]~~
Reagent addition for DR IA Hach Colorimetric Test
Read in mg/L

All sample were taken at 6" depth

000109

Laboratory Analysis
Pond Clean-up

Date: 10-12-88

Sample Identification	mg/L free CN							
Sta 8-9	0.85							
Sta 46	<0.01							
Sta 62	<0.01							
Sta 68	<0.01							
Sta 84	<0.01							

REMARKS:

Laboratory Analysis
Pond Clean-up

Date: 10-17-88
10-18-88

Sample Identification	mg/L free CN							
10-17-88 Between Sta 8 & 9	<0.01							
Sta 62	<0.01							
Sta 82	<0.01							
10-18-88								
Sta 8&9	<0.01							
Sta 61	<0.01							
Sta 68	<0.01							
Sta 84	<0.01							
Sta 46	<0.01							

REMARKS:

Laboratory Analysis

Date: 10-20-88 thru 10-21-88 Pond Clean-up

	Sample Identification	Mg/L Free CN	Mg/L Nitrates As N						
10-20	Sta 8-9	<0.01							
	Sta 64	<0.01							
	Sta 84	<0.01							
10-21	Overflow Pond Rainwater	<0.01	1.90						
	Preg Pond Rainwater	<0.01	1.85						
	Soils Sta 8-9	<0.01							
	Sta 61-62	<0.01							
	Sta 46	<0.01							
	Sta 68	<0.01							

REMARKS:

Laboratory Analysis
Pond Clean-up

Date: 10-20-88

Sample Identification	mg/L free CN							
Stn 48-49 6" D	<0.01							
Stn 48-49 24" D	0.07							
Stn 46 6" D	<0.01							
Stn 61-62 6" D	<0.01							
Stn 62 surface slime	<0.01							
Stn 68 6" D	<0.01							
Stn 84 6" D	0.03							

REMARKS:

Laboratory Analysis
Pond Clean-Up

Date: 10-26-88

Sample Identification	mg/L Free CN							
Stp 48-49 24"D	<0.01							
Stp 84 6"D	<0.01							

REMARKS:

Laboratory Analysis
Pond Clean-up

Date: 10-27-88

Sample Identification	mg/L free CN							
Sta 48-49 6"	0.01							
Sta 48-49 24"	<0.01							
Sta 62 6"	<0.01							
Sta 46 6"	<0.01							
Sta 68 6"	<0.01							
Sta 84 6"	<0.01							

REMARKS:

PBR MINERALS, INC.

MEMORANDUM

TO: Mike Ashworth

FR: Gary Lindroos

RE: Pond Clean-up (CN Testing)

DT: November 1, 1988

During the period 1 June 1986 to present, 288 soils samples were collected from the three pond areas designated for clean-up re: Groundwater Quality Protection Permit G-0011-02. These samples were sent to independant laboratories for analysis of total cyanide.

Duplicate of these samples were analyzed in-house using the HACH DR/1A colorimetric method for free cyanide.

SEE FOLLOWING THIS SECTION & SEE NEXT SECTION

First round testing indicated six (6) samples to be above the 2.0 mg/K total cyanide as recommended by ADEQ. An additional 2 - 3 foot depth of material was removed from the pond areas and a second round of testing was accomplished. All samples analyzed in-house showed far below the 2.0 mg/K recommended by ADEQ. Free cyanide on 94.6 percent of the samples analyzed were below our detection limit of 0.01 mg/L.

It would appear, from our in-house testing of free cyanide and the results from independant labortories for total cyanide, that the clean-up has been accomplished very effectively.

Respectfully submitted,

Gary A. Lindroos

Gary A. Lindroos

Great Western Chemical Co.

Common chemicals with uncommon service

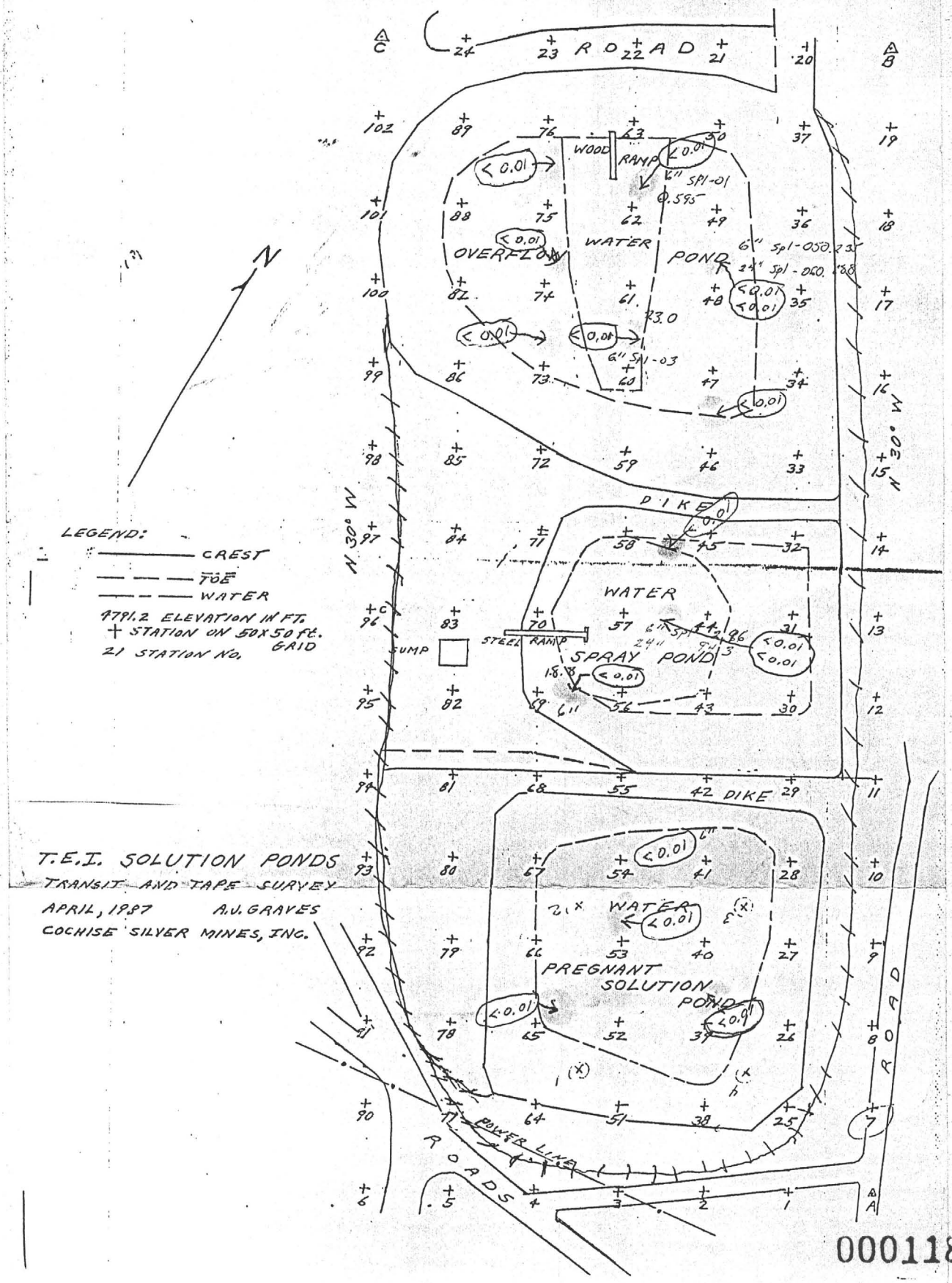
<0.01	Sta	46	6" depth	
<0.01		48-49	6" "	
<0.01		48-49	24" "	
<0.01		62	6" "	
0.87		68	6" "	
<0.01		84	6" "	

Sample Locations by Smith & Smith

CHEMAX	(503) 227-1616	PASCO	(509) 545-4296	BAKERSFIELD	(805) 392-1101
CORPORATE	(503) 228-2600	SEATTLE	(206) 763-2350	CORONA	(714) 272-1480
EUGENE	(503) 343-7744	SPOKANE	(509) 928-0195	FRESNO	(209) 485-4150
PORTLAND	(503) 242-0200	COLORADO SPRINGS	(719) 590-1631	MILPITAS	(408) 262-2830
IDAHO FALLS	(208) 523-5816	DENVER	(303) 373-9706	NORTH HOLLYWOOD	(818) 982-3114
NAMPA	(208) 466-8437	HELENA	(406) 442-8900	RICHMOND	(415) 235-4810
WINNEMUCCA	(702) 623-1466	PHOENIX	(602) 276-2800	SANTA ROSA	(707) 526-2324
NEW WESTMINSTER, B.C.	(604) 525-2603	SALT LAKE CITY	(801) 972-8800	STOCKTON	(209) 982-5781
				SPARKS	(702) 356-8381

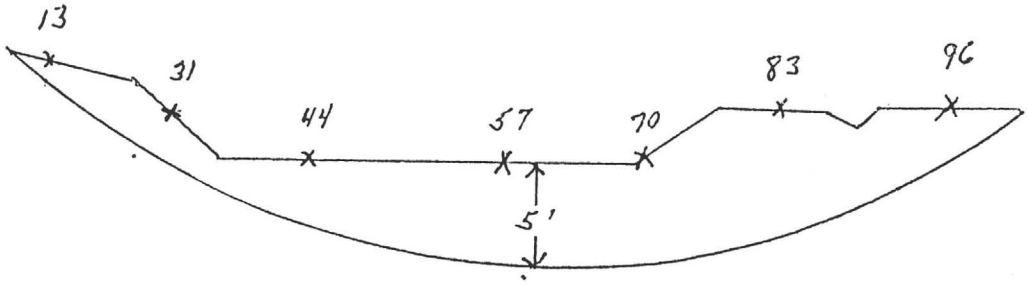
"Testing for free cyanide"

December 1988

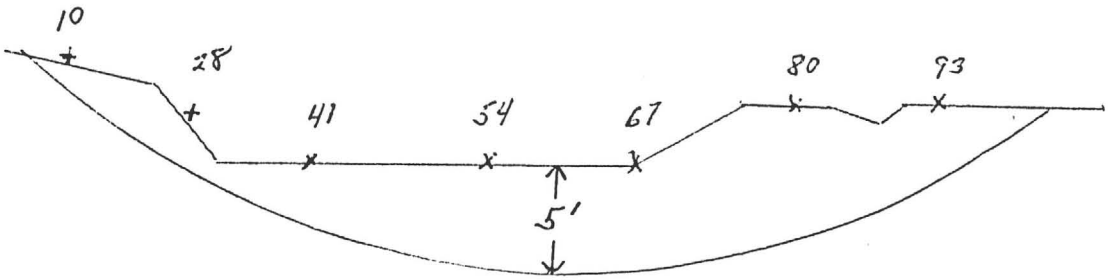


000118

TEI WATER SPRAY POND



TEI PREGNANT SOLUTION POND



Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 517
SPECIMEN NO.

10-27-88
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

Smith & Smith Environmental Cons.
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location STA 46 6"

Facility Name & Mailing Address

P.R.B. Minerals
Attn: Gary Lindroos
950 Skyline Drive. P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other _____

Sample Date 10-27-88 Sample Time 0835

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)
Parameter Code: P72019

Collected By: RVB, GL

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	TOTAL CYANIDE	,	<0.01 ,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 10/28/88

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 516
SPECIMEN NO.

10-27-88
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

Smith & Smith Environmental Cons.
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location STA 48-49, 6"

Facility Name & Mailing Address

P.B.R. MINERALS
Attn: Gary Lindroos
950 Skyline Drive. P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other _____

Sample Date 10-27-88 Sample Time 0830

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)
Parameter Code: P72019

Collected By: RVB, GL

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,	TOTAL CYANIDE	mg/L,	< 0.01 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L,	. ,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are μg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 11-09-88

Analyst DHO, RVB

000122

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 515
SPECIMEN NO.

10-27-88
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

Smith & Smith Environmental Cons.
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location STA 48-49, 24"

Facility Name & Mailing Address

P.B.R. MINERALS
Attn: Gary Lindroos
950 Skyline Drive. P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other _____

Sample Date 10-27-88 Sample Time 0826

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: RVB, GL

ADHS Use Only

SC.

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,	TOTAL CYANIDE	mg/L,	< 0.01 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L,	. ,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 11-09-88

Analyst DHO, RVB

000123

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 514
SPECIMEN NO.

10-27-88
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

Smith & Smith Environmental Cons.
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location STA 62, 6"

Facility Name & Mailing Address

P.B.R. MINERALS
Attn: Gary Lindroos
950 Skyline Drive. P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other _____

Sample Date 10-27-88 Sample Time 0822

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: RVB, GL

ADHS Use Only

S C .

Parameter Name*	*Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,	TOTAL CYANIDE	mg/L,	< 0.01 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L,	.. ,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 11-09-88

Analyst DHO, RVB

000124

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 518
SPECIMEN NO.

10-27-88
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

Smith & Smith Environmental Cons.
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location STA 68, 6"

Facility Name & Mailing Address

P.B.R. MINERALS
Attn: Gary Lindroos
950 Skyline Drive. P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other _____

Sample Date 10-27-88 Sample Time 0839

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: RVB, GL

ADHS Use Only

S C .

Parameter Name*	*Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,	TOTAL CYANIDE	mg/L,	0.87 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L,	. ,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 11-09-88

Analyst DHO, RVB

000125

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 519
SPECIMEN NO.

10-27-88
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

Smith & Smith Environmental Cons.
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location STA 84, 6"

Facility Name & Mailing Address

P.B.R. MINERALS
Attn: Gary Lindroos
950 Skyline Drive. P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other _____

Sample Date 10-27-88 Sample Time 0845

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)
Parameter Code: P72019

Collected By: RVB, GL

ADHS Use Only

S C .

Parameter Name*	*Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,	TOTAL CYANIDE	mg/L,	< 0.01 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L,	. ,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 11-09-88

Analyst DHO, RVB

000126

Laboratory Analysis

Date: 12-2-88

Sample Identification	Mg/L Free CN							
Well 1	<0.01							
Well 2	<0.01							
Reservoir Surface	<0.01							
Reservoir Underflow	<0.01							
North Tailings Seepage on Road	<0.01							
PBR Tailings West side	<0.01							

REMARKS:

Laboratory Analysis

Pond clean-up

Date: ~~X~~ 12-9-88

Sample Identification	mg/L free CN							
Sta 45-58 6" D	<0.01							
Sta 73-74 6" D	<0.01							
Sta 75-76 6" D	<0.01							
Sta 53-54 6" D	<0.01							

REMARKS:

000128

[redacted]

Pond Glow-up

NOTEBOOK

40 SHEETS

8 1/16 IN. X 10 11/32 IN. WIDE RULED

Distributed by B and E Sales Company Inc;
Bloomfield Hills, MI 48013

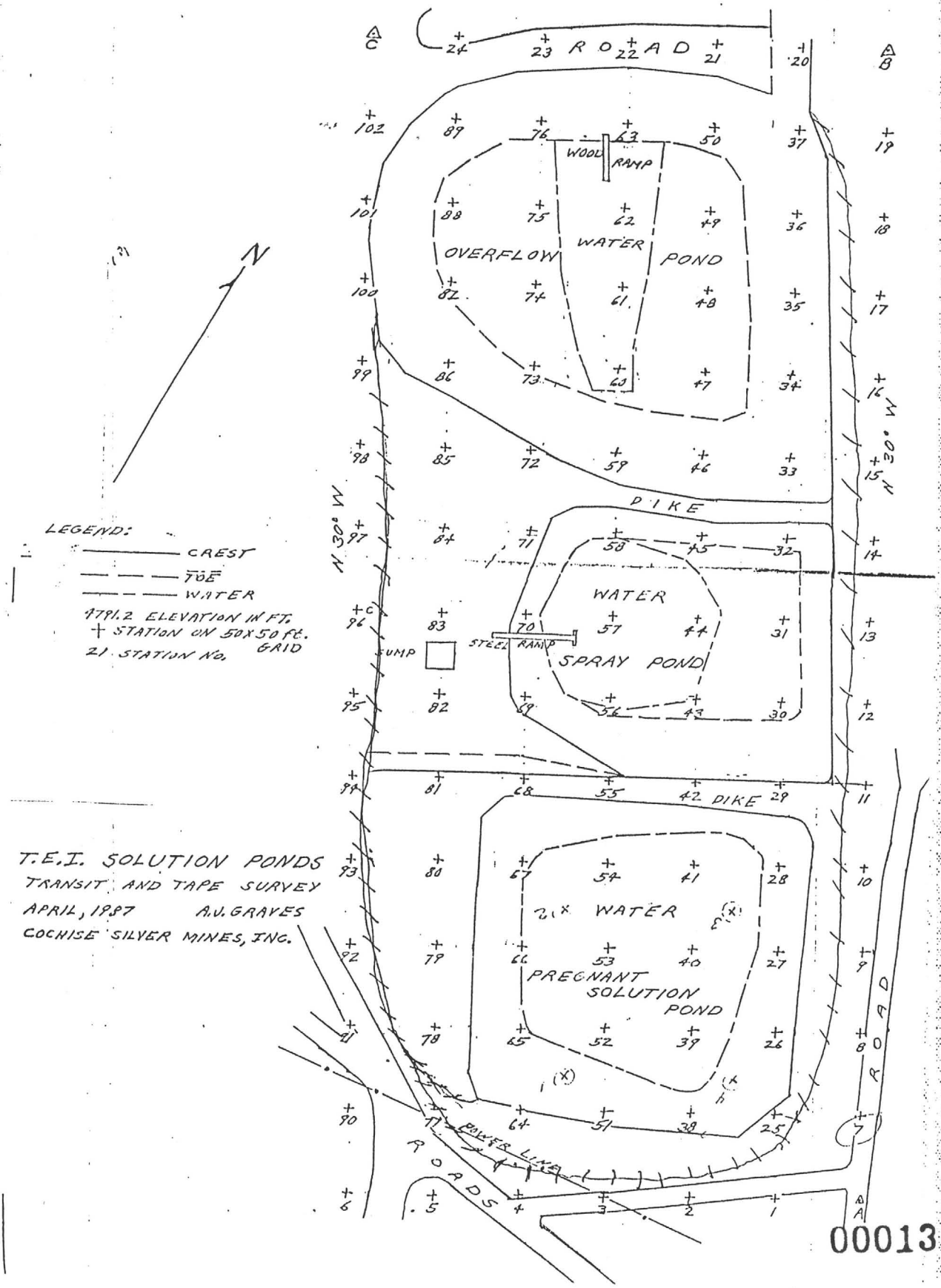
MADE IN BRAZIL

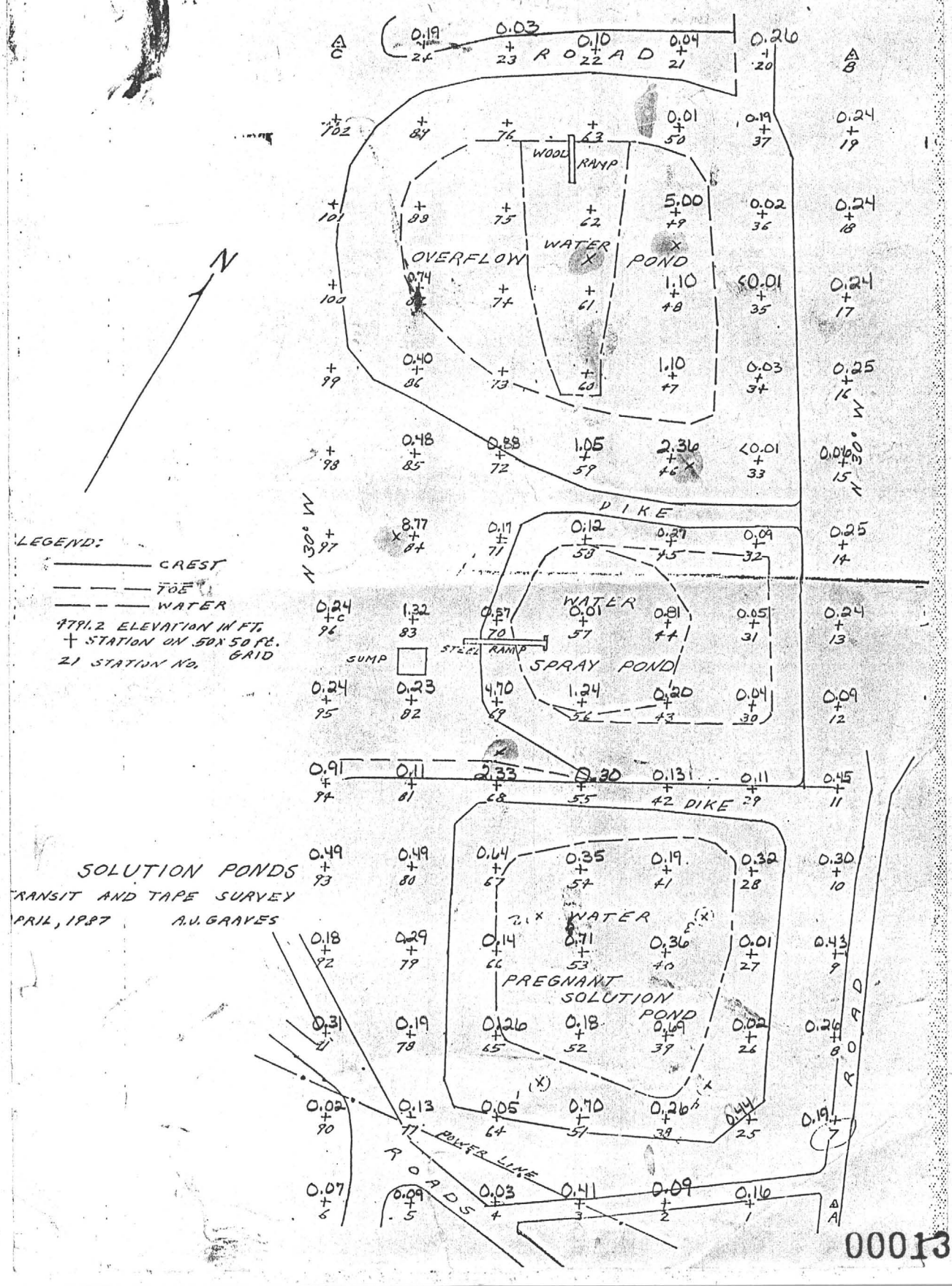
Date	Sample I.D.	Al	Ag	mg/L free CN	mg/L Cl
1-8-88	Old Preg Pond South	Tw	Tw	<0.01	
✓	" " " North	Tw	Tw	<0.01	
✓	" " " Center	Tw	Tw	0.15	
✓	Spray Pond Center	Tw	Tw	0.24	
1-11-88	On site NE	—	—	<0.01	.85
✓	On site SW	—	—	<0.01	.18
1-12-88	Spray Pond N.W.	—	—	<0.01	[redacted]
✓	Spray Pond S.E.	—	—	<0.01	[redacted]
1-13-88	Spray Pond Center	Tw	Tw	<0.01	
✓	Old Preg Pond Center	Tw	Tw	<0.01	~~0.36~~
✓	On-Site S. E. corner	Tw	Tw	<0.01	0.36
✓	On-Site N W Corner	Tw	Tw	<0.01	0.28
1-14-88	Spray Pond East	+	—	<0.01	
✓	Spray Pond - Berm - Preg Pond	—	—	<0.01	
1-15-88	Preg Pond N.	Tw	Tw	<0.01	
✓	Spray Pond N.	Tw	Tw	<0.01	
✓	Spray Pond S	Tw	Tw	<0.01	
✓	Spray Pond 150' E of NW Corner 50' S of	—	—	2.30	~~Colochi~~ Red
✓	100' E of NW Corner 50' S	—	—	0.09	Colochi
✓	75' E of NW Corner 50' S	—	—	<0.01	Colochi
	50' Grid Samples				
1-22-88	Sta 1			<0.01	
✓	2			<0.01	
✓	3			<0.01	
✓	4			<0.01	
✓	5			<0.01	
✓	6			<0.01	

	Date	Sample I.D.		Au	Ag	mg/L free CN	
7	1-22-87	Sta 7	50' grid			<0.01	Samples to Smith & Smith for Total CN
8	"	" 25				<0.01	
9	"	" 38				<0.01	
10	"	" 51				<0.01	
11	"	8				<0.01	
12	"	26				0.015	
13	"	64				0.020	
14	"	65				<0.01	
15	"	77				<0.01	
16	"	78				<0.01	
17	"	39				<0.01	
18	"	52				0.015	
19	"	90				<0.01	
20	"	91				<0.01	
	1-25-88	Standard	Hach DR 1/A			0.10	
	"	"	" "			0.10	
	"	"	" "			0.10	
21	1-25-88	Sta 9	50' grid			<0.01	Samples To Smith & Smith for Total CN
22	"	27				<0.01	
23	"	40				0.02	
24	"	53				0.025	
25	"	66				<0.01	
26	"	79				<0.01	
27	"	92				<0.01	
28	"	93				<0.01	
29	"	80				<0.01	
30	"	103 *				<0.01	

	Date	Sample I.D.	Au	Ag	Mg/L free CN
31	1-26-88	Sta 10 on 50' grid			<0.01
32		11			<0.01
33		12			<0.01
34		28			<0.01
35		29			<0.01
36		30			<0.01
37		41			<0.01
38		42			<0.01
39		43			<0.01
40		54			0.020
41		55			0.150
42		56			<0.01
43		67			<0.01
44		68			0.010
45		69			<0.01
46		81			<0.01
47		82			<0.01
48		94			<0.01
49		95			<0.01
50		96			
		Standard Hach DR 1/A			0.10
51		Sta 104			<0.01
	2-9-88	Midway between Sta 52-64	TW	TW	<0.01
	✓	Midway between Sta 65-66	.004	TW	<0.01
	✓	Midway between Sta 54-42	TW	TW	<0.01
	✓	Midway between Sta 67-81	TW	TW	<0.01
	2-24-88	20' SE of Sta 53	TW	TW	.04
		25' SE of Sta 53	TW	TW	.03
		5' E of Sta 66	TW	TW	<0.01

	Free CN mg/L	Nitrates mg/L	PH
7-25-88 Preg Pond Standing Water	<0.01	21.0	8.75


ROAD
WOOD RAMP
OVERFLOW WATER POND
N
LEGEND:
CREST
TOE
WATER
4791.2 ELEVATION IN FT.
+ STATION ON 50X50 ft. GRID
21 STATION No.
N 30° W
DIKE
WATER
SUMP
STEEL RAMP
SPRAY POND
DIKE
WATER
PREGNANT SOLUTION POND
POWER LINE
ROADS
ROAD
T.E.I. SOLUTION PONDS
TRANSIT AND TAPE SURVEY
APRIL, 1987 A.V. GRAVES
COCHISE SILVER MINES, INC.


ROAD
WOOD RAMP
OVERFLOW
WATER
POND
DIKE
WATER
SUMP
STEEL RAMP
SPRAY POND
DIKE
WATER
PREGNANT
SOLUTION
POND
POWER LINE
ROADS
ROAD
N
N 30° W
LEGEND:
CREST
TOE
WATER
4791.2 ELEVATION IN FT.
+ STATION ON 50X50 ft. GRID
21 STATION No.
SOLUTION PONDS
TRANSIT AND TAPE SURVEY
APRIL, 1987
A.J. GRAVES

000135

Grid Sta Showing Total CN Content

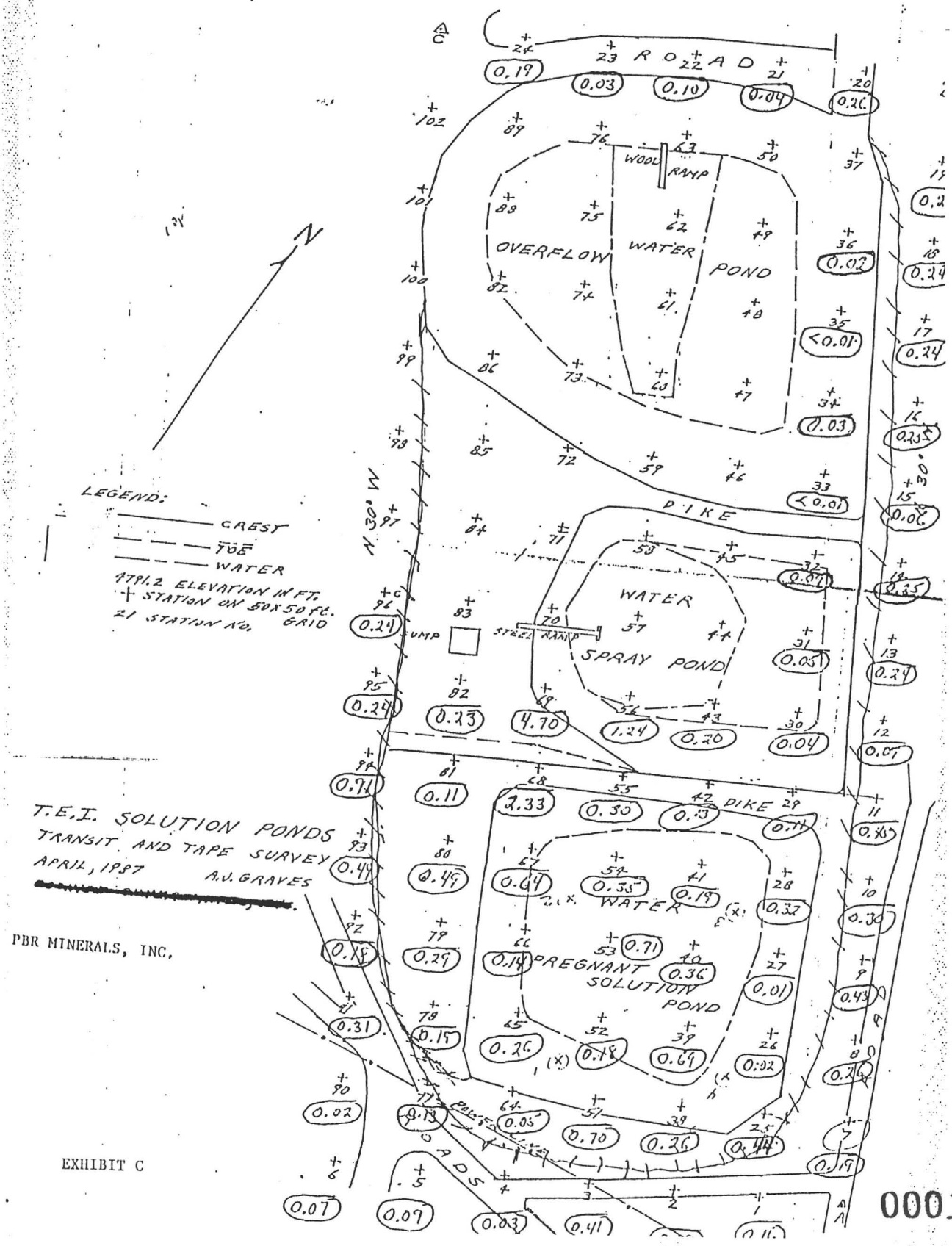


EXHIBIT C

000136

Arizona Testing Laboratories
817 West Madison Street □ Phoenix, Arizona 85007 □ 602/254-6181

For: Cochise Silver Mines, Inc.
Attn: Mr. Gary Lindroos
Post Office Box 158
Tombstone, Arizona 85638

Date: June 18, 1987

Lab. No.: 3466

Sample: Soil

Marked: Preg. Sol. Pond

Received: 6/1/87

Submitted by: Same

REPORT OF LABORATORY TESTS

EPA Method 9010

Samples Marked	Total Cyanide
1	0.20 ppm (mg/kg)
2	1.7
3	0.35
4	0.41
5	0.34
6	0.12
7	1.1
8	1.4
9	2.0
10	8.0
11	1.4
25	0.83
26	< 0.05
27	0.11
28	2.9
29	5.0
38	< 0.05
39	1.1
40	2.2
41	1.2
42	0.86
51	0.26
52	3.5
53	1.9
54	3.5
55	0.58
64	0.65
65	0.90
66	2.9
67	0.16
68	1.0
77	0.33
78	1.2
79	0.70
80	0.13
81	0.67
90	0.23
91	0.71
92	0.35
93	0.68
94	0.93

< = less than

3ccs:
Arizona Dept. of Health Services
Office of Waste & Water Quality Mgmt.
Compliance Section
2005 North Central Avenue
Phoenix, AZ 85004

Respectfully submitted,
ARIZONA TESTING LABORATORIES

Robert J. Drake

Robert J. Drake

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 020
SPECIMEN NO.

1-25-88
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

Smith & Smith
Environmental Consultants
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location Grid Station # 1

Facility Name & Mailing Address

P.B.R. Minerals
Attn; Gary Lindroos
950 Skyline Drive P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☒ Other _____

Sample Date 1-25-88 Sample Time 0900

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: GL

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	Total Cyanide	,	0.16 mg/L
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are μg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 1-27-88

Analyst DHO, RVB

000138

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 021
SPECIMEN NO.

1-25-88
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

Smith & Smith
Environmental Consultants
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location Grid Station # 2

Facility Name & Mailing Address

P.B.R. Minerals
Attn; Gary Lindroos
950 Skyline Drive P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☒ Other _____

Sample Date 1-25-88 Sample Time 0900

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: GL

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,	Total Cyanide	,	0 . 0 9 ,
Fluoride	P00951,	. ,		,	. ,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 1-27-88

Analyst DHO, RVB

000139

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 022
SPECIMEN NO.

1-25-88
DATE REC'D AT LAB

Lab Name & Address LAB ID NO. 00048

Smith & Smith
Environmental Consultants
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location Grid Station #3

Facility Name & Mailing Address

P.B.R. Minerals
Attn; Gary Lindroos
950 Skyline Drive P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☒ Other _____

Sample Date 1-25-88 Sample Time 0900

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: GL

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	Total Cyanide	,	0.41 mg/l
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 1-27-88

Analyst DHO, RVB.

000140

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 023
SPECIMEN NO.

1-25-88
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

Smith & Smith
Environmental Consultants
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location Grid Station #4

Facility Name & Mailing Address

P.B.R. Minerals
Attn; Gary Lindroos
950 Skyline Drive P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☒ Other _____

Sample Date 1-25-88 Sample Time 0900

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: GL

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	Total Cyanide	,	0.03 mg/L
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are μg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 1-27-88

Analyst DHO, RVB

000141

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 024
SPECIMEN NO.

1-25-88
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

Smith & Smith
Environmental Consultants
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location: Grid Station #5

Facility Name & Mailing Address

P.B.R. Minerals
Attn; Gary Lindroos
950 Skyline Drive P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☒ Other _____

Sample Date: 1-25-88 Sample Time: 0900

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: GL

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	Total Cyanide	,	0.09 mg/L
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date: 1-27-88

Analyst: DHO, RVB

000142

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 025
SPECIMEN NO.

1-25-88
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

Smith & Smith
Environmental Consultants
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location Grid Station # 6

Facility Name & Mailing Address

P.B.R. Minerals
Attn; Gary Lindroos
950 Skyline Drive P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☒ Other _____

Sample Date 1-25-88 Sample Time 0900

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: GL

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	Total Cyanide	,	0.07 mg/L
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 1-27-88

Analyst DHO, RVB

000143

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS-452
SPECIMEN NO.

11-10-87
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

Smith & Smith Environmental Consultants
999 East Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location Preg Old Pond STA #7

Facility Name & Mailing Address

Cochise Silver Mines
P.O. Box 158
Tombstone, Arizona 85638

ATTN: MR. GARY LINDROOS

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☒ Pond
☐ Other _____

Sample Date 11-6-87 Sample Time 0700

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: RVB

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	Total Cyanide	mg/L ,	0.18 ,
	,	. ,	Free Cyanide	mg/L ,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are μg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 11-11-87

Analyst DHO, RVB

000144

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 026
SPECIMEN NO.

1-25-88
DATE REC'D AT LAB

Lab Name & Address LAB ID NO. 00048

Smith & Smith Environmental Con.
999 E. Fry Blvd. Suite 202
Sierra Vista, AZ 85635

ADHS Permit No. _____

Sample Location Grid Station # 7

Facility Name & Mailing Address

P.B.R. Minerals
Attn: Gary Lindroos
950 Skyline Drive P.O.Box 370
Tombstone, AZ 85638,

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☒ Other _____

Sample Date 1-25-88 Sample Time 0900

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: GL, RVB

ADHS Use Only

S C ,

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,		,	. ,
	,	. ,	Total Cyanide	,	0.19 mg/L
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are μg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 1-27-88

Analyst DHO, RVB

000145

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS-453
SPECIMEN NO.

11-10-87
DATE REC'D AT LAB

Lab Name & Address LAB ID NO. 00048

Smith & Smith Environmental Consultants
999 East Fry Blvd. Suite 202
Sierra Vista AZ 85635

ADHS Permit No. _____

Sample Location Preg Old Pond STA #8

Facility Name & Mailing Address

Cochise Silver Mines
PO Box 158
Tombstone AZ 85638

ATTN: MR. GARY LINDROOS

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☒ Pond
☐ Other _____

Sample Date 11-6-87 Sample Time 0700

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: RVB

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	Total Cyanide	mg/L ,	0.30 ,
	,	. ,	Free Cyanide	mg/L ,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 11-11-87

Analyst DHO, RVB

000146

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 027
SPECIMEN NO.

1-25-88
DATE REC'D AT LAB

Lab Name & Address LAB ID NO. 00048

Smith & Smith Environmental Con.
999 E. Fry Blvd. Suite 202
Sierra Vista, AZ 85635

ADHS Permit No. _____

Sample Location Grid Station # 8

Facility Name & Mailing Address

P.B.R. Minerals
Attn: Gary Lindroos
950 Skyline Drive P.O.Box 370
Tombstone, AZ 85638.

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☒ Other _____

Sample Date 1-25-88 Sample Time 0900

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: GL, RVB

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	Total Cyanide	,	0.26 mg/L,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are μg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 1-27-88

Analyst DHO, RVB

000147

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS-454
SPECIMEN NO.

11-10-87
DATE REC'D AT LAB

Lab Name & Address LAB ID NO. 00048

Smith & Smith Environmental Consultants
999 East Fry Blvd. Suite 202
Sierra Vista AZ 85635

ADHS Permit No. _____

Sample Location Preg OLd Pond STA # 9

Facility Name & Mailing Address

Cochise Silver Mines
PO Box 158
Tombstone AZ 85638

ATTN: MR. GARY LINDROOS

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☒ Pond
☐ Other _____

Sample Date 11-6-87 Sample Time 0700

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: RVB

ADHS Use Only

S C ,

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	Total Cyanide	mg/L ,	0.30 ,
	,	. ,	Free Cyanide	mg/L ,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 11-11-87

Analyst DHO, RVB

000148

Groundwater Quality Protection Permit

Self-Monitoring Report Form

1S040
SPECIMEN NO.

1-25-88
DATE REC'D AT LAB

Lab Name & Address LAB ID NO. 00048

Smith & Smith Environmental Con.
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location Grid Station # 9

Facility Name & Mailing Address

P.B.R. Minerals
Attn: Gary Lindroos
950 Skyline Drive P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☒ Other _____

Sample Date 1-25-88 Sample Time 0900

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: GL

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	Total Cyanide	,	0.43 mg/L,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 1-27-88

Analyst DHO

000149

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 052
SPECIMEN NO.

1-27-88
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

Smith & Smith Environmental Cons.
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location: Grid Station # 10

Facility Name & Mailing Address

P.R.B. Minerals
Attn: Gary Lindroos
950 Skyline Drive. P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other _____

Sample Date 1-26-88 Sample Time 0530

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: RVB, GL

ADHS Use Only

SC.

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,		,	. ,
	,	. ,	Total Cyanide	,	0.30 mg/L
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 1-29-88

Analyst DHO, RVB

000150

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 053
SPECIMEN NO.

1-27-88
DATE REC'D AT LAB

Lab Name & Address LAB ID NO. 00048

Smith & Smith Environmental Cons.
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location Grid Station # 11

Facility Name & Mailing Address

P.R.B. Minerals
Attn: Gary Lindroos
950 Skyline Drive. P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☒ Other _____

Sample Date 1-26-88 Sample Time 0530

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: RVB, GL

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	Total Cyanide	,	0.45 mg/ ,L
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are μg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 1-29-88

Analyst DHO, RVB

000151

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS054
SPECIMEN NO.

1-27-88
DATE REC'D AT LAB

Lab Name & Address LAB ID NO. 00048

Smith & Smith Environmental Cons.
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location Grid Station # 12

Facility Name & Mailing Address

P.R.B. Minerals
Attn: Gary Lindroos
950 Skyline Drive. P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☒ Other _____

Sample Date 1-26-88 Sample Time 0530

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: RVB, GL

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	Total Cyanide	,	0.09 mg/L
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	. ,	Uranium[b]	P22706,	. ,

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 1-29-88

Analyst DHO, RVB

000152

Groundwater Quality Protection Permit

Self-Monitoring Report Form

LS 082
SPECIMEN NO.

1-29-88
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

Smith & Smith Environmental Cons.
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location Grid Station # 13

Facility Name & Mailing Address

P.R.B. Minerals
Attn: Gary Lindroos
950 Skyline Drive. P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☒ Other _____

Sample Date 1-28-88 Sample Time 0530

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: RVB, GL

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	.
Barium +	P01007,	. ,	Lindane[a]	P39782,	.
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	.
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	.
Lead +	P01051,	. ,	2,4-D[a]	P39730,	.
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	.
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	.
Selenium +	P01147,	. ,		,	.
Silver +	P01077,	. ,		,	.
Fluoride	P00951,	. ,	Total Cyanide	,	0.24 mg/
	,	. ,		,	.
Alkalinity	P00410,	. ,		,	.
Calcium	P00916,	. ,		,	.
Chloride	P00940,	. ,		,	.
Copper +	P01042,	. ,		,	.
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	.
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	.
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	.
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	.
pH	P00403,	. ,	Cesium-134[b]	P28414,	.
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	.
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	.
TDS	P00500,	. ,	Tritium[b]	P82126,	.
Zinc +	P01092,	. ,	Uranium[b]	P22706,	.

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 2-1-88

Analyst DHO, RVB

000153

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 083
SPECIMEN NO.

1-29-88
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

Smith & Smith Environmental Cons.
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location: Grid Station # 14

Facility Name & Mailing Address

P.R.B. Minerals
Attn: Gary Lindroos
950 Skyline Drive. P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☒ Other _____

Sample Date: 1-28-88 Sample Time: 0530

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: RVB, GL

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	.
Barium +	P01007,	. ,	Lindane[a]	P39782,	.
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	.
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	.
Lead +	P01051,	. ,	2,4-D[a]	P39730,	.
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	.
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	.
Selenium +	P01147,	. ,		,	.
Silver +	P01077,	. ,		,	.
Fluoride	P00951,	. ,		,	.
	,	. ,	Total Cyanide	,	0.25 mg/
Alkalinity	P00410,	. ,		,	.
Calcium	P00916,	. ,		,	.
Chloride	P00940,	. ,		,	.
Copper +	P01042,	. ,		,	.
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	.
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	.
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	.
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	.
pH	P00403,	. ,	Cesium-134[b]	P28414,	.
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	.
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	.
TDS	P00500,	. ,	Tritium[b]	P82126,	.
Zinc +	P01092,	. ,	Uranium[b]	P22706,	.

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date: 2-1-88

Analyst: DHO, RVB

000154

Groundwater Quality Protection Permit

Self-Monitoring Report Form

LS 084
SPECIMEN NO.

1-29-88
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

Smith & Smith Environmental Cons.
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location: Grid Station # 15

Facility Name & Mailing Address

P.R.B. Minerals
Attn: Gary Lindroos
950 Skyline Drive. P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☒ Other _____

Sample Date: 1-28-88 Sample Time: 0530

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: RVB, GL

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	.
Barium +	P01007,	. ,	Lindane[a]	P39782,	.
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	.
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	.
Lead +	P01051,	. ,	2,4-D[a]	P39730,	.
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	.
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	.
Selenium +	P01147,	. ,		,	.
Silver +	P01077,	. ,		,	.
Fluoride	P00951,	. ,		,	.
	,	. ,	Total Cyanide	,	0.06 mg/
Alkalinity	P00410,	. ,		,	.
Calcium	P00916,	. ,		,	.
Chloride	P00940,	. ,		,	.
Copper +	P01042,	. ,		,	.
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	.
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	.
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	.
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	.
pH	P00403,	. ,	Cesium-134[b]	P28414,	.
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	.
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	.
TDS	P00500,	. ,	Tritium[b]	P82126,	.
Zinc +	P01092,	. ,	Uranium[b]	P22706,	.

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date: 2-1-88

Analyst: DHO, RVB

000155

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 085
SPECIMEN NO.

1-29-88
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

Smith & Smith Environmental Cons.
999 E. Fry Blvd. Suite 202
Sierra Vista, Arizona 85635

ADHS Permit No. _____

Sample Location Grid Station # 16

Facility Name & Mailing Address

P.R.B. Minerals
Attn: Gary Lindroos
950 Skyline Drive. P.O.Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☒ Other _____

Sample Date 1-28-88 Sample Time 0530

Depth to Water _____ Feet below land surface
(Groundwater Samples Only)

Parameter Code: P72019

Collected By: RVB, GL

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,	Endrin[a]	P39390,	.
Barium +	P01007,	. ,	Lindane[a]	P39782,	.
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	.
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	.
Lead +	P01051,	. ,	2,4-D[a]	P39730,	.
Mercury +	P71900,	. ,	2,4,5-TP Silvex[a]	P39045,	.
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	.
Selenium +	P01147,	. ,		,	.
Silver +	P01077,	. ,		,	.
Fluoride	P00951,	. ,		,	.
	,	. ,	Total Cyanide	,	0.25 mg/
Alkalinity	P00410,	. ,		,	.
Calcium	P00916,	. ,		,	.
Chloride	P00940,	. ,		,	.
Copper +	P01042,	. ,		,	.
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	.
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	.
Magnesium	P00927,	. ,	— Count Error[b]	P01502,	.
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	.
pH	P00403,	. ,	Cesium-134[b]	P28414,	.
Sodium	P00929,	. ,	Iodine-131[b]	P28301,	.
Sulfate	P00945,	. ,	Strontium-90/89[b]	P01082,	.
TDS	P00500,	. ,	Tritium[b]	P82126,	.
Zinc +	P01092,	. ,	Uranium[b]	P22706,	.

*Units are mg/l unless otherwise noted.

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 2-1-88

Analyst DHO, RVB

000156