APPLICATION FOR A GROUND WATER QUALITY PROTECTION PERMIT

Arizona Department of Environmental Quality
Office of Waste and Water Quality Management, Water Permit Unit
2005 N. Central Avenue
Phoenix, Arizona 85004
(602) 257-2270

A. Facility Name: Grand Central Leaching Facility

B. Name, Title, Address and Telephone Number of Contact Person for Facility:

Name: Gary Lindroos

Title: Facility Manager

Mailing Address: P.O.Box 370, Tombstone, AZ 85638

Telephone Number: 602-457-2282

C. Application signature and certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of these individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibilities of fine and imprisonment."

Gary Lindroos
Type or print name

Facility Manager
Title

Gary Lindroos
Signature

3 August 1988
Date

NOTICE OF DISPOSAL

1. a. Facility Name: Grand Central Leaching Facility

b. Facility Location (List address or describe access by roads):

Old Bisbee Highway, Tombstone, AZ

County Cochise Zip Code 85638

Township 205 Range 22E Section(s) 11,12, 13,14, _____ 1/4 _____ 1/4 _____ 1/4

c. Facility Manager: Gary Lindros

Telephone Number: 602-457-2282
(Area Code)

d. Owner's Name PBR Minerals, Inc.

e. Owner's Address 950 Skyline Drive, P.O.Box 370

Tombstone, AZ Zip Code 85638

f. Landowner of the facility site: Lessor:Tombstone Development Co.

Lessee:PBR Minerals, Inc.

g. Facility's plan engineer/architect:

Name: Curtis Sealy, P.E. and Jim V. Rouse, R.G.

Firm: Geochemical Engineering, Inc.

Address: 274 Union Blvd., Suite 460

Denver, CO. 80228

Telephone number: 303-988-8902
(Area Code)

h. Type of Permit you are applying for:

area permit _____ individual facility permit x

i. Type of facility requesting permit:

new x existing _____

2. a. Attach a topographic map (preferably a 7.5 minute quadrangle base), showing the geographic location of the facility(s) and all disposal locations. In addition, show the location of any existing groundwater withdrawal wells within the approximate vicinity (¼ mile radius) of the disposal area and identify the use of each well (i.e. industrial wells, drinking water supply wells, etc.). (If applying for an area permit as described in R9-20-211, indicate on the map the location of each facility and disposal location in the proposed permitted area).

b. List Latitude/Longitude of all disposal locations indicated on the attached map

Centered on 31°42'30" N. and 110°3' W.

3. a. Type of Facility(s) Precious - metal heap-leach facility, zero discharge with spent ore left on pad

b. Nature of Activity conducted at facility(s) Crushed ore is loaded on an impervious pad and leached with a dilute solution of sodium cyanide. "Pregnant" solution is treated for recovery of precious metals. Solution is then recycled. Spent ore is neutralized and placed nearby. All process ponds are double lined, with leak detection systems. Area ground water is monitored.

c. List applicable U.S. Department of Commerce Standard Industrial Classification (SIC) Codes for above activities

1041 - Gold Mining

1044 - Silver Mining

Date Initial Operation Began at Site: Sept., 1979
Date Operations Began by Applicant: January, 1988
Date Anticipated Construction Start: November, 1988

4. Date Facility began/will begin operating March, 1989

5. Expected Facility(s) Operational Lifetime 10 years

6. List any other environmental permits issued to the facility(s) (i.e. air quality permit, NPDES permit, hazardous waste permit)

Air Quality Permit to be applied for

7. a. Describe disposal activities at the facility(s)

There is no surface or subsurface disposal. All process streams are recycled. All process-solution ponds are double lined, with a leak detection system, and with the lower liner being a composite membrane/clay liner shown to have ability to attenuate contaminants. Pad liner also underlain by clay. Spent ore is neutralized to destroy residual cyanide, prior to unloading of pad.

b. Describe any control measures and treatment processes designed and operated to protect groundwater quality from effects of the disposal

As noted in 7a, all process pads and ponds are lined with membrane liner and with clay liner capable of attenuating contaminants. Spent ore will be neutralized after leaching, to destroy residual cyanide. Pumped monitor well assures that should any leaks occur and reach ground water (highly unlikely) they would be detected, and could be treated.

c. Describe existing groundwater use(s) of the receiving aquifer(s)

Process water for existing wash plant and proposed leach plant taken from one of three existing wells downgradient of site. Town of Tombstone uses same aquifer as a supplemental source of supply, with a well located approximately one mile from area of proposed activity.

d. Note depth to groundwater The water table elevation is approximately 4100', which is 500' below land surface, depending on the elevation of the point of measurement

Source of data M.S.Thesis by Hollyday, continued observation in Co. wells

Date of measurement 1963 and subsequent

e. If available, attach analytical reports for the ambient groundwater concentrations of the receiving aquifer(s) for those constituents listed that are contained in the disposal. Indicate source of data and date of sampling for all values listed.

8a. Identify the type(s) of waste(s) generated by each process within the facility. Be as descriptive as possible without listing specific constituents.

Wastes contain spent ore, neutralized to degrade free cyanide. Residual pore water contains traces of heavy metals, cyanide complexes, and nitrate from cyanide degradation.

b. If available, attach analytical reports for the specific pollutants disposed by the facility. See attached report on attenuation of leach solution pollutants by clay subliner.

c. Estimate the disposal schedule including the annual average in hours per day, days per year, and the disposal periods if the disposal is seasonal.

Hours/day 24 hours/day

Days/year 365 days/year

Seasonal Distribution of Disposal N/A

d. Estimate the flow rate(s) of the disposal i.e. minimum, average, and maximum daily flow; mean annual flow; or mean, minimum, and maximum flow by season if disposal is periodic; or by whatever other units appropriate to the type of disposal.

Mined tonnage, per year: 350,000

Solution circulation rate : 600 G.P.M.

9. Describe any existing groundwater quality monitoring program(s) (attach supporting technical reports if available)

Three existing company water-supply wells are monitored on a routine basis, as is the Tombstone water-supply well. A new monitor well will be drilled immediately downgradient of the facility, and will will be continuously pumped to assure formation of a cone of depression and capture of any potential leakage.

10. Include any other data or information which, in the judgement of the owner/operator, demonstrates that the facility qualifies for a groundwater quality protection permit based on compliance with the criteria listed in R9-20-208.A. Use attachments if applicable (i.e. depth to groundwater, geology at the site).

Qualifying factors include: (1) lined ponds and pads, with contaminant-attenuation capacity in clay subliner, (2) neutralization of cyanide in spent ore, (3) depth to water table of approximately 500', (4) berming and lining of reagent storage and mix facilities, (5) pumped monitor well which can detect and contain any contaminant migration, and (6) high surface evaporation rates.

11. Certification:

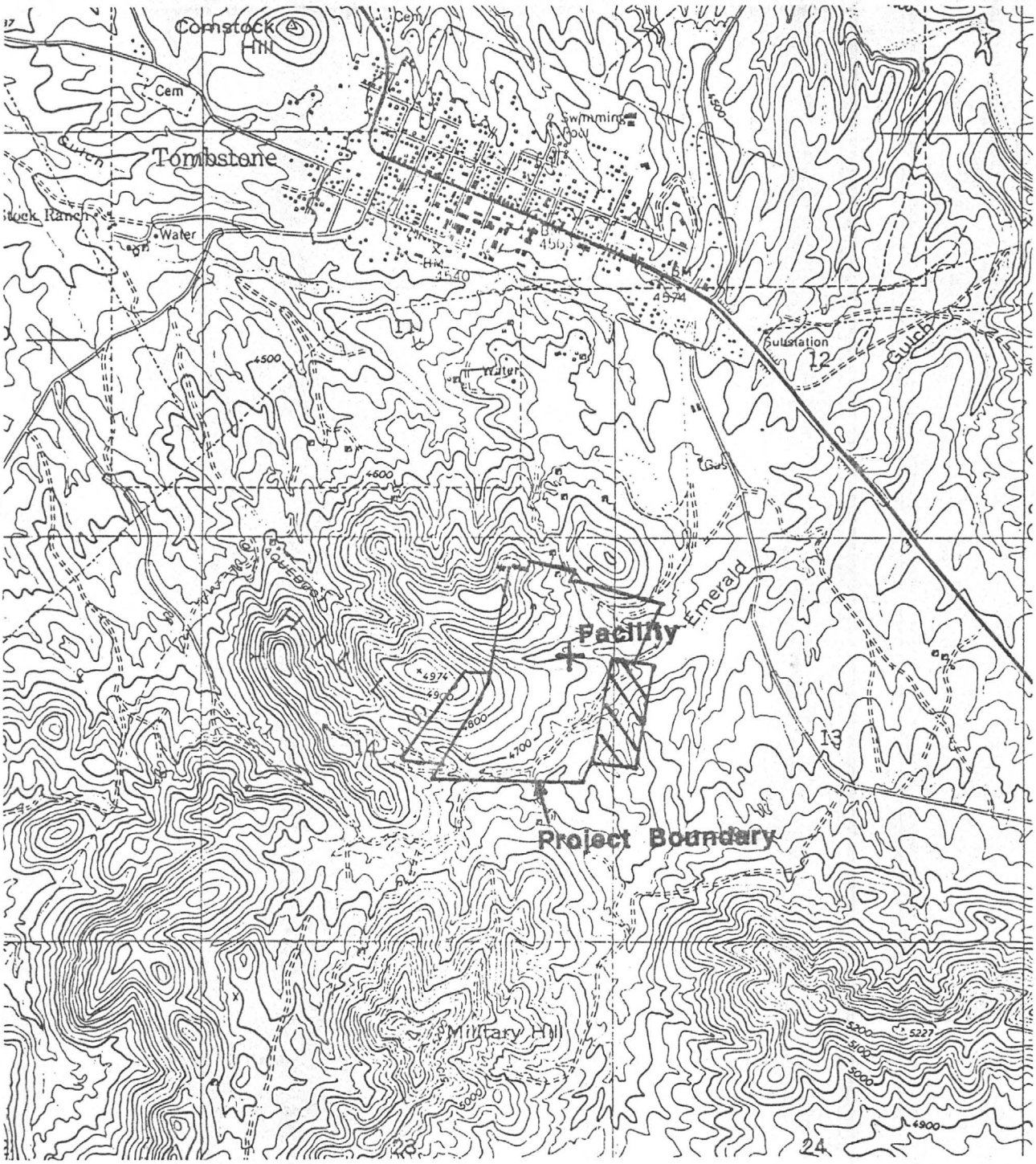
"I certify that under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalities for submitting false information, including the possibility of fine and imprisonment."

PBR MINERALS, INC.
Gary A. Lindroos
Printed Name of Applicant

Facility Manager
Title

July 13, 1988
Date Application Signed

Gary A. Lindroos
Signature of Applicant



Lessor:
Tombstone Development, Co.
P.O. Box 1445
Grand Island, Nebraska 68801

Morning Star
Owner: Bob Crist
Tucon, Arizona

PROJECT:	REVISIONS	Grand Central Leaching Facility
DATE: 6/30/88		Property Ownership
GEOCHEMICAL ENGINEERING INCORPORATED Golden, Colorado		

Table 5.3 PBR MINERALS TOMBSTONE, ARIZONA

WATER QUALITY DATA
Smith & Smith Lab

		Well #1				Well # 2				Well #3				Tombstone #1			
				Cyanide				Cyanide				Cyanide				Cyanide	
Day of Sample	Date Sampled	Mercury mg/l	Nitrate mg/l	Total mg/l	Free mg/l	Mercury mg/l	Nitrate mg/l	Total mg/l	Free mg/l	Mercury mg/l	Nitrate mg/l	Total mg/l	Free mg/l	Mercury mg/l	Nitrate mg/l	Total mg/l	Free mg/l
1	6/16/87	0.001	2.6	<.01	<.01	0.026	8.9	0.05	<.01					0.0011	5.8	<.01	<.01
38	7/24/87	<0.001	1.5	<.01	<.01	0.026	7.0	0.13	0.02					<.001	8.6	<.01	<.01
51	8/6/87	<0.001	2.0	<.01	<.01	0.024	6.7	0.13	0.03	<0.001	2.5	<0.01	<0.01	<.001	7.5	<.01	<.01
64	8/19/87					0.024	10.9	0.07	NS								
85	9/9/87	<0.001	2.3	<.01	<.01	0.026	9.0	0.08	0.01	<0.001	6.2	<0.01	<0.01	<.001	6.0	<.01	<.01
100	9/24/87					0.0264	12.4	0.13	<0.01								
113	10/7/87	<0.001	3.0	<.01	<.01	0.020	22.3	0.12	0.01					<.001	2.5	<.01	<.01
119	10/13/87									<0.001	8.7	<0.01	<0.01				
127	10/21/87					0.0235	22.3	0.08	0.01								
141	11/4/87	<0.001	2.6	<.01	<.01	0.028	24.9	0.13	0.02	<0.001	10.1	<0.01	<0.01	<.001	9.4	<.01	<.01
155	11/18/87					0.0297	16.3	0.09	0.02								
170	12/3/87	<0.001	3.3	<.01	<.01	0.026	28.8	0.04	0.01	0.0166*	17.4*	0.02*	<0.01	<.001	8.6	<.01	<.01
180	12/21/87					0.034	24.2	0.13	0.01								
204	1/6/88	<0.001	4.0	<.01	<.01	0.0386	23.5	0.14	<.01					<.001	9.1	<.01	<.01
216	1/18/88					0.029	22.6	0.09	0.01	<0.001	10.2	<0.01	<0.01				
232	2/3/88	<0.001	2.2	<.01	<.01	0.020	23.4	0.14	0.01					<.001	8.6	<.01	<.01
247	2/18/88					0.020	31.5	0.12	<.01								
261	3/3/88	<0.001	3.9	<.01	<.01	0.020	18.5	0.11	<.01					<.001	7.1	<.01	<.01
289	3/31/88					0.024	23.4	0.20	0.03								
295	4/6/88	<0.001	2.8	<.01	<.01	0.027	23.0	0.18	0.02					<.001	8.2	<.01	<.01
309	4/20/88					0.030	22.9	0.08	<.01								
323	5/4/88					0.034	17.8	0.18	0.02					<0.001	8.1	<0.01	<0.01
324	5/5/88	<0.001	2.4	<.01	<.01	0.025	-	0.15	0.01					<0.001		<0.01	<0.01
						0.028**		0.16**	0.01**								
338	5/18/88					0.034	21.2	0.12	<0.01								
	Mean:		2.717			0.027	19.159	0.117	0.015		9.18				7.46		
	Std. Dev.:		0.741			0.005	7.101	0.041	0.008		4.96				1.93		

* Contaminated Sample Container, data invalid ** Duplicate Sample

Draft - (Graphics not complete)

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Gary Lindros
Type or print name

Facility Manager
Title

Signature

Date

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APPENDIX I - Geochemical Evolution of Clay-Subliner Material

3.0 SUMMARY OF DISPOSAL ACTIVITY

At present, there are no waste-disposal activities at the proposed PBR Minerals heap-leach site. Present PBR Minerals activities center on the clean up of soil contamination from the actions of the former site occupant, together with washing of cyanide-bearing tailings from a past leaching facility in an area north of the proposed PBR heap leach.

3.1 Waste Characteristics

No data exists on actual waste characteristics, since operations are not yet in effect. In an effort to provide data on potential trace-element mobilization associated with the proposed leaching, a synthetic leach solution and leached tailings were created in the laboratory from a sample of the PBR ore and water from the existing PBR Well #2, treated with lime and cyanide in the anticipated reagent dosage. This material was then assayed, and used in the conduct of geochemical attenuation tests. The results of those tests are summarized in Section 3.3, and detailed in Appendix 1. Waste material will consist of spent crushed ore which has been treated by chemical or biological means to degrade remaining cyanide residue. The spent ore will be disposed onto a clay-lined spent-ore disposal area, with runoff from the area contained and used in the process plant. In addition barren or pregnant solution containing low levels of cyanide and trace metals in an alkaline solution will be generated, but will be recycled with no disposal. All solutions will be retained in double-lined ponds with an additional earthern subliner capable of attenuating contaminant migration, as is described in Section 3.3.

The spent ore will consist of existing leached, agglomerated material, and of natural ore, which will be agglomerated. Residual cyanide concentrations will be less than 0.2 mg/kg free cyanide, and will be achieved by a combination of rinsing with clean water, followed by treatment with chemical oxidants, and/or biodegradation. The rock will be slightly alkaline, as a result of the natural presence of limestone and the addition of lime. The acid-neutralizing potential will exceed the acid-forming potential, with the result that the material will be geochemically stable and will not change significantly with time.

The spent ore will be biologically inactive. While it is anticipated that a part of the cyanide degradation will be achieved by means of bioremediation, this will be achieved by means of natural strains of soil bacteria common to the area. No data exist on the radiological characteristics of the spent ore; however, it is not anticipated that the ore contains elevated radiochemical levels. The geochemical conditions, such as pH, oxyhydroxide content, etc., in the spent ore are such as to minimize the potential migration of any radionuclides present in the spent ore.

The barren and pregnant solutions will be composed of a sodium bicarbonate type alkaline aqueous solutions prepared by mixing natural

ground water from present Well #2 and the proposed pumped monitor well with lime and sodium cyanide. As the solutions are recirculated, they will become elevated in major ions, with a significant concentration of calcium sulfate (gypsum) derived from lime addition and the dissolution of sulfide reaction products. Calcium and sulfate concentrations are anticipated to be as high high as 1,500 and 2,000 mg/l, respectively.

Tests which were conducted with the synthetic heap leach solution show that the liquid solutions will contain relatively low concentrations of trace or toxic metals. The synthetic heap leach solution contained arsenic at close to the Primary Drinking Water Standard, with less than 10 times that of the cadmium standard. The mercury and silver concentrations of the leach solution were 24 and 41 times the Primary Drinking Water Standard, respectively. Silver, however, will be recovered during processing. All other metals were within the Primary Drinking Water Standard in the synthetic heap leach liquor.

3.2 Waste Disposal Rates and Volumes

Mining activities and resultant heap leaching will be conducted on a round-the-clock basis, 365 days per year. It is anticipated that the mining will produce 350,000 tons of ore per year which will be placed on low-permeability pads, leached for the time period required to mobilize the precious metals and then rinsed and neutralized prior to decommissioning. Solution will be circulated through the system at a rate of 600 gpm. Solution flow measurement will be by means of flow meters and pump-capacity ratings.

3.3 Waste Discharge Mitigation

The PBR Minerals proposed heap-leach facility consists of multiple lines of defense to assure that contamination of the ground-water resource shall not occur. The entire process operation area shall be guarded by run-on protection capable of handling overland flow produced by a 100-year, 24-hour rainfall event. The process facility building will include a 6-inch curb, with floor drains leading to the process barren pond. Reagent storage areas will be under roof, with reagent mix areas on liners draining to the barren pond. Empty reagent containers will be triple rinsed with well water. Rinse water will drain to the barren pond.

The barren and pregnant ponds shall each consist of double liners of synthetic membrance, separated by a geotextile drain layer. The geotextile drain is sloped to a sump equipped with a HDPE pipe to provide for leak detection, and capable of allowing the removal of collected leakage (Detail A). The heap leach pad is underlain by a synthetic membrance liner, protected by a drainage net and a 5-foot layer of crushed rock.

The barren and pregnant ponds and the heap leach pad are all, in turn, underlain by a 2-foot fill layer of clay which will be mined from an adjacent site, imported, and placed as an engineered fill. This material will serve as further protection against solution leakage. This protection will be afforded not only as a result of the low permeability of the clay, but also as a result of its ability to attenuate and retard the movement of contaminants, through natural geochemical processes.

To quantify the ability of the clay liner material to attenuate such contaminant migration, a sequential batch test was conducted, using a sample of the proposed liner material. This test was conducted in accordance with the sequential batch test procedure outlined by Houle and Long (1980). The liquid used in the test consisted of a synthetic pregnant solution generated by reacting a sodium cyanide solution of Well #2 water with typical ore. The test procedure and results are discussed in detail in Appendix 1. The clay liner material was shown to be rich (46%) in calcite, with most (75%) of the clay a mixed-layer Illite/Smectite. The clay material had a cation-exchange capacity of 14.7 meg/100 g, with almost 40 meg/100 g of exchangeable calcium.

Further protection is provided by the extensive thickness of unsaturated rock between the land surfaces and the water table. While no wells exist at the proposed heap-leach facility, hydrogeologic data (see Chapter 5) indicates there should be more than 500 feet of unsaturated bedrock between the leach facility and the water table.

As is described in Section 3.4, there is no monitoring system at the heap-leach site. It is proposed that a pumped monitoring well be utilized to assure detection and capture of any contaminants which may reach the water table. As is described in Chapter 8, such a well could also serve as a remedial facility in the unlikely event that ground-water contamination occur.

3.4 Existing Monitoring Program

At present, no monitoring facilities exist in the immediate vicinity of the proposed heap-leach facility. PBR Minerals does monitor their 3 water-supply wells in the vicinity of the existing facility, as well as the Town of Tombstone Well #1. This monitoring is described and data presented in Chapter 5.

4.0 ENVIRONMENTAL SETTING

The PBR facility is located immediately south of the town of Tombstone, Arizona, in a portion of the Sonorian Desert. The general environmental setting is described in the following portion.

4.1 Land Use

The PBR Minerals facility is located on the south side of the Town of Tombstone, approximately 75 miles southeast of Tucson and 25 northwest of Bisbee, Arizona, in the southwest quarter of Cochise County. The region is semiarid, and is used primarily for stock grazing, mining and recreational and tourism activities. Access is provided by means of Interstate Highway 10 to Benson and U.S. Highway 80 from Benson to Tombstone. The regional area is further accessed by means of various gravel roads, with unimproved ranch and mining roads generally passable, and providing access to nearly all sites. Figure 2-1 provides general information on site location, while Plate II-1 provides land-ownership information adjacent to the PBR Minerals Facility.

Vegetation in the area consists of predominately desert shrubs and scattered clumps of grasses. Within the San Pedro River basin, creosote bush, tarbush, mortonia and whitethorn are common, with several varieties of grama, curly mosquite and tobosa grass near the mountain front. Mesquite and paloverde are common along the dry stream channels, while ocotillo, yucca and agave occasionally occur with the grasses (Hollyday, 1963).

Recreational and tourism activities developed largely due to the historic mining development which has occurred within and adjacent to the town of Tombstone. Tourism is assuming an increasing importance within the town. Mining activities are generally perceived as consistent with such historical tourism activities.

4.2 Climate

Tombstone, situated at an elevation of between 4,500 and 4,600 feet, has a semiarid climate, with moderate winters and hot summers. Average maximum temperature is 76°, while the average minimum is 49° (Hollyday, 1963). Recorded extremes are a high of 110° and a low of 9°. Average annual precipitation at Tombstone over a 65-year period of record is less than 13 inches, with extremes of 7 and 28 inches. Precipitation is bimodal, with approximately 70% of the precipitation coming during intense convective storms during the July, August and September monsoonal season. The remaining precipitation is distributed during the winter months, and is more general and gentle in nature.

Because of the semiarid nature of the area, evaporation and evapotransporation is extreme, greatly exceeding the precipitation during

the year. Table 4-1 provides monthly and annual data on precipitation, lake evaporation and net evaporation. This is illustrated in Figure 4-1, which shows an average net evaporation for all months. Such semiarid conditions, with a net evaporation in all months, allow for the conduct of zero-discharge milling operations, with a bleed stream in the form of the water incorporated into the interstitial voids of waste material.

Table 4-1
TOMBSTONE, ARIZONA
EVAPORATION/PRECIPITATION

Month	Avg. Precip.	Avg. Lake Evap.	Net Evaporation
January	0.84	2.40	1.56
February	0.55	3.00	2.45
March	0.7	4.80	4.10
April	0.25	6.36	6.11
May	0.17	8.16	7.99
June	0.46	8.55	8.09
July	3.51	6.15	2.64
August	3.23	5.40	2.17
September	1.08	5.55	4.47
October	0.85	4.80	3.95
November	0.48	3.12	2.64
December	0.69	2.40	1.71
SUM	12.81	60.69	47.88

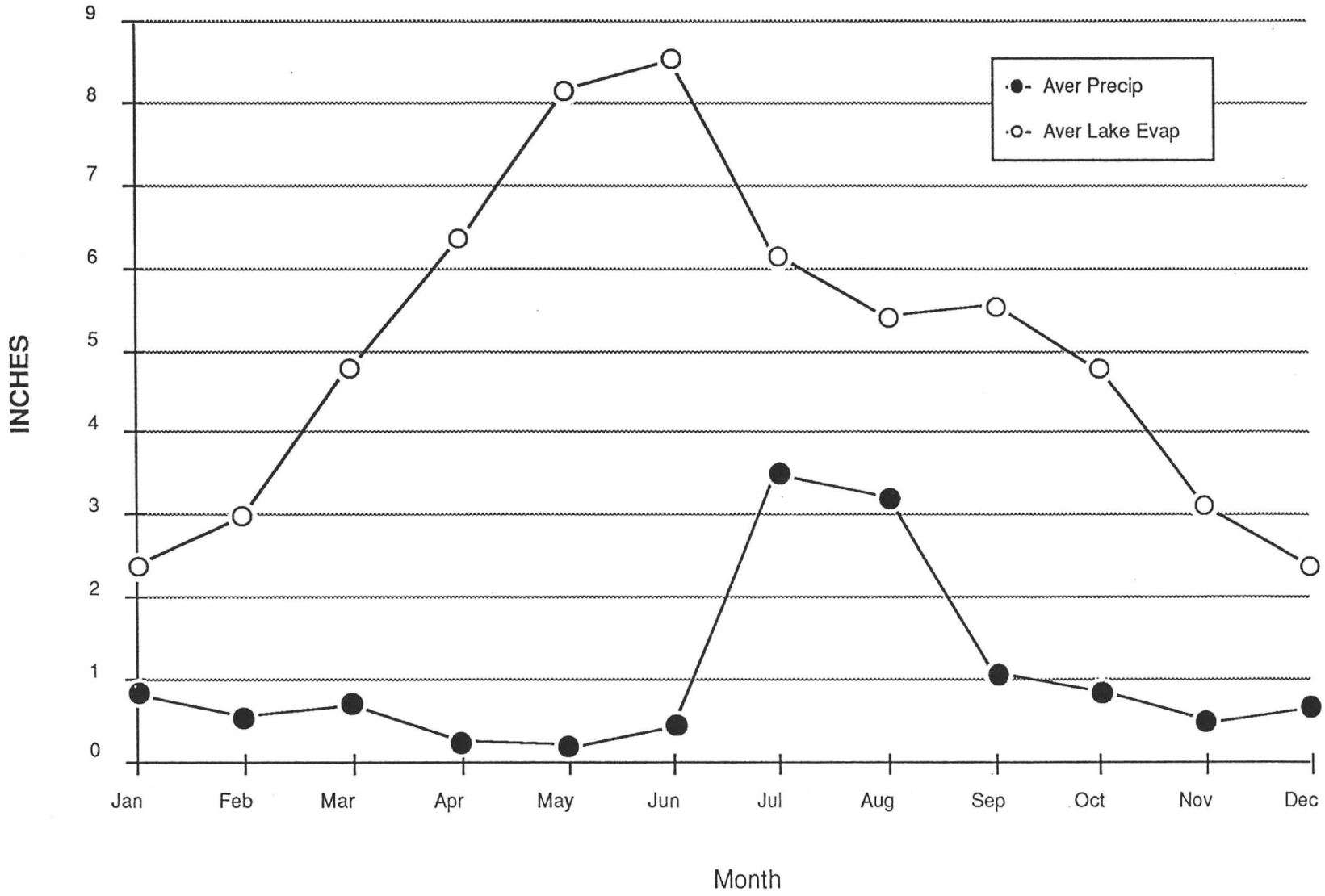


Figure 4-1 Tombstone, Arizona - Average Monthly Precipitation and Evaporation

5.0 SITE HYDROLOGY

The site hydrology in the PBR Minerals area has been well described by Hollyday (1963). The following description is adapted from this source, together with modifications resulting from more recent drilling activities and excavations conducted by PBR Minerals and its predecessors.

5.1 Geology

The geology of the Tombstone Mining District has been examined in detail with respect to both general and economic geology. One of the first studies of the general geology and ore occurrence was prepared by W. P. Blake (1882) in response to mine litigation. Blake subsequently published additional general reviews of geology and mining development in 1902 and 1904. J. A. Church (1903) published a report on the regional occurrence of ore deposits and the general geology, which incorporated local stratigraphic names.

Dr. F. L. Ransome (1920) published a comprehensive study of the geology of the surface and subsurface of the Tombstone Mining District, and introduced the type stratigraphic names as utilized in the Bisbee District. This work was continued and carried to completion by B. S. Butler, E. D. Wilson and C. A. Rasor (1938) in a description of the geology and the occurrence of ore in the central portion of the Tombstone Mining District.

James Gilluly, J. R. Cooper and J. S. Williams (1954) conducted a detailed study of the Pennsylvanian-Permian stratigraphy in the adjacent Tombstone Hills, and upgraded Ransome's Naco Formation into a Group, which they subdivided into four formations. Gilluly subsequently conducted a regional study of the stratigraphy and structure in the Tombstone Hills, Dragoon Mountains and the northern half of the Mule Mountains (1956).

5.1.1 Surficial Geology

Soils within the PBR Minerals area are generally thin and discontinuous, and are formed by the in-place weathering of bedrock which occurs at or very near the land surface. Soils tend to be rather coarse-grained in nature, reflecting such mechanical weathering, and are generally of low plant productivity.

Alluvium occurs in the northeastern corner of the Tombstone Mining District, and is largely composed of coarse sand and gravel, which in many locations is cemented with caliche deposits to depths as great as 90 feet (Hollyday, 1963). The alluvium thickens to the northeast and east of the town. Here, the upper 30 to 90 feet of alluvium is predominately composed of limestone pebbles and cobbles derived from Palezoic carbonates and cemented with caliche. Below this layer, the alluvium is unconsolidated to moderately well-indurated gravel composed of fragments derived from shales and sandstones of the Bisbee Formation. This gravel has a maximum thickness of between 45 and 120 feet. The lowest portion of the alluvium consists of a gravel layer

which is unconsolidated to weakly cemented, with a maximum known thickness of 300 feet. This lower-most layer is primarily composed of a mixture of gravel and sand derived from the Bisbee Formation and from quartz latite volcanics. A well, drilled approximately one mile east of Tombstone, encountered the water table in the alluvium at a depth of approximately 455 feet, but caved before it could be pumped to determine the water-bearing properties of the alluvium. Hollyday (1963) presents information that indicates the water table in the alluvium is interconnected with the water table in consolidated bedrock, where the alluvium receives sufficient recharge to be saturated. Alluvium is absent or only rarely present in the PBR Minerals site.

5.1.2 Subsurface Geology

The Tombstone Mining District is underlain by a thick sequence of intrusive rocks and Precambrian metamorphics, Paleozoic clastics, Paleozoic carbonates, the Bisbee formation and volcanic rocks.

Intrusive and Metamorphic Rocks: As noted by Hollyday (1963) "the intrusive rocks and Precambrian metamorphic rocks consist of three generalized geologic formations: Precambrian intrusive and metamorphic rocks, Triassic-Jurasic intrusive rocks, and Tertiary intrusive rocks." The Precambrian intrusives consist of albite granite, quartz diorite, gneissic granite, and saussuritic quartz diorite. In general, these rocks are highly fractured, altered and weathered, with the fractures sealed with clay-sized weathering products. As a result, they yield small quantities of water only within the first few tens of feet below the water table (Hollyday, 1963).

The Triassic and Jurasic intrusive rocks occur in the western portions of the Mule Mountains and along the core and southern portion of the Dragoon Mountains. These are predominately quartz monzonite and granite which have been intensely altered and sheared. As in the case of the Precambrian rocks, they are generally quite impermeable below the first few tens of feet.

The Tertiary intrusive rocks outcrop in the northern and western portions of the Tombstone Hills and in the northern portion of the Dragoon Mountains. These intrusives are intermediate in composition, similar to quartz monzonite. The Schieffelin Granodiorite found in the western portion of the Tombstone Mining District is characterized by an irregularly-spaced, three-directional fracture system which stores small quantities of water. Shallow dug wells along Tombstone Gulch furnished water for the town of Tombstone during the first two years of its existence, and derived such water from fractures within the Schieffelin Granodiorite. Dewatering activities in the rocks east of the Schieffelin Granodiorite did not result in change in water level within the granodiorite, thereby documenting that the Schieffelin Granodiorite is not hydrologically connected with consolidated rocks to the east.

Dikes of granodiorite to diorite composition, similar to the Schieffelin Granodiorite in origin, cross the Tombstone Mining District along a trend of North 12 degrees East and dip steeply to the west.

Paleozoic Clastic Rocks: The Bolsa Quartzite of middle Cambrian age is predominately composed of well indurated quartzite derived from quartzitic pebble grit and coarse sand, with a thin basal conglomerate. It crops out in the Tombstone Mining District, along the western edge of the Mule Mountains, and in the core of the Dragoon Mountains. Hollyday (1963) reported a 440 foot thick homogeneous aquifer in the Bolsa Quartzite as a result of numerous joints and fractures. The Bolsa Quartzite is one of the best crystaline-rock aquifers within the Tombstone Mining District.

Paleozoic Carbonates: The various Paleozoic carbonate formations in the area are generally undifferentiated in the following discussion. These Paleozoic carbonates include the Abrigo Limestone, the Martin Limestone, the Escabrosa Limestone and the four local formations in the Naco Group; the Horquilla Limestone, the Earp Formation, the Colina Limestone and the Epitaph Dolomite. The composite thickness of these Paleozoic carbonates is approximately 5,200 feet, of which approximately 13% or 660 feet consist of partly siliceous material metamorphosed to hornfels near younger intrusive rocks. Such hornfelsic material yields moderately large quantities of water. The remaining 4,540 feet of non-siliceous material in the Paleozoic carbonate sequence is composed of predominately limestone with subordinate amounts of nodular chert, dolomite and calcarious shale. Fractures in the carbonate material have generally been enlarged by solution cavity development above and to a depth of 200 to 300 feet below the water table.

Bisbee Formation: The Bisbee Formation of Cretaceous age outcrops in the central portion of the Tombstone Mining District and the Tombstone Hills. It also underlies most of the northern half of the Mule Mountains and the eastern portion of the Dragoon Mountains. The Bisbee Formation, within the Tombstone Mining District, is subdivided into three generalized geologic units: Bisbee Formation clastics, Blue Limestone and Joe Limestone. The Bisbee Formation has a composite thickness of approximately 3,000 feet, of which approximately 160 feet is limestone. The lowermost clastic rocks at the base of the Bisbee Formation are locally known as "novaculite", and unconformably overlie the Epitaph Dolomite, ranging in thickness between 55 and 125 feet. The "novaculite" is an interbedded sequence of limestone fragments in a quartzitic sand matrix, sandy limestone, calcarious shale and chert. The "novaculite" has been altered to extremely hard and brittle hornfels.

The "novaculite" is conformably overlain by the Blue Limestone. It is a medium to thin-bedded silty limestone ranging in thickness between 20 and 40 feet. The Blue Limestone has generally been subjected to

extreme solutioning above the present water table prior to deposition of silver ores.

The Joe Limestone is a cherty limestone of approximately 20 feet thickness. Numerous fissures and faults within the Bisbee Formation have been accompanied by strong zones of shattering. These zones give the Bisbee Formation clastics relatively high porosity and permeablity, as compared with the Paleozoic carbonates.

Volcanic Rocks: Two ages of volcanics occur within the Tombstone District. The Cretaceous-Tertiary volcanics outcrop along the San Pedro River, southwest of the Tombstone Hills. These are composed of andesite and quartz latite, and have been intruded and broken by younger rocks. The upper quartz latite member contains water-deposited tuff beds, with a total thickness of Cretaceous-Tertiary volcanics of approximately 6,000 feet.

Tertiary-Quarternary volcanics outcrop in the area of Stockton Hill, between the Tombstone Hills and the southern part of the Dragoon Mountains. These volcanics are predominately latite tuff and rhyolite tuff, together with flows of hornblend andesite. A small plug-shaped mass of olivine basalt occurs within valley alluvium approximately three-quarters of a mile northeast of Tombstone. These volcanics supplied much of the detrital material forming the alluvium in the valley northeast of Tombstone.

5.1.3 Structure

Geologic structure within the Tombstone Mining District has an appreciable impact on the hydrologic conditions within the area. Four major structural elements have been identified, and are designated the Tombstone Syncline, the Schieffelin Dome, the Ajax Hill Horst and the Tombstone Alluvial Basin.

Tombstone Syncline: The central portion of the Tombstone Mining District lies in a broad, asymetrical synclinal basin which plunges to the southeast. Three minor folds bring Paleozoic carbonate rocks to the surface. The syncline has resulted in the presence of a thick section of clastic rocks, thereby producing a potential storage reservoir for ground water. Clastic rocks thicken to the east southeast, as a result of the synclinal plunge.

The synclinal basin is traversed by at least eight major fissures, trending approximately North 45 degrees East and dipping steeply to the southeast. The fissures have been widened by solution activity above the water table and for a distance below the water table, and thus may impart a strong preferential orientation to the permeability of rocks within mine workings.

The synclinal basin is also traversed by a set of normal faults trending North 10 to 15 degrees East, and by a minor set of normal

faults at approximately right angles to these faults. The faults apparently are relatively open channelways for water circulation at depths greater than 400 feet below the water table (Hollyday, 1963).

The Tombstone Syncline is bounded on the west by the Schieffelin Dome, a granodiorite intrusive which plunges below the Tombstone Syncline at an angle of approximately 60 degrees (Hollyday, 1963). As noted earlier, the Schieffelin Dome acts as a barrier to ground-water circulation west of the Tombstone Syncline.

Ajax Hill Horst: The Tombstone Syncline is bounded on the south by the Ajax Hill Horst. These two features were formed by reverse movement on the Prompter Fault, with a maximum stratigraphic displacement of approximately 4,000 feet. Paleozoic carbonate rocks in the vicinity of the Emerald Mine dip 50 to 60 degrees east. The Prompter Fault and its associated branches uplift relatively impermeable Precambrian albite granite which continue the impermeable hydrologic boundary formed by the Schieffelin Granodiorite.

Tombstone Alluvial Basin: The Tombstone Syncline is bounded on the north and northeast by the Tombstone Alluvial Basin. Water in the alluvial deposits occur at a distance of approximately 1,500 feet east of the northeast corner of the Tombstone Mining District. Such alluvial water forms an important source of recharge to mine rocks during heavy pumping operations.

5.2 Hydrology

Hydrology of the Tombstone Mining District has been extensively studied and reported by Hollyday (1963). The following discussion is largely taken from that source.

5.2.1 Surface Water

Surface water does not exist in the Tombstone Mining District except during and immediately after periods of intense precipitation. The closest perennial stream to the Tombstone Mining District is the San Pedro River, a northerly-flowing stream located approximately six miles to the west of Tombstone.

5.2.2 Ground-Water Occurrence and Movement

Interest has long centered on ground-water conditions in the Tombstone area as a result of the problems presented to mining operations by the presence of large quantities of ground water. W. F. Staunton first reviewed the dewatering records of previous mining companies in order to estimate the requisite capacity of a new pumping plant. Staunton explained the reasoning behind his estimate in a 1908 paper and reviewed the accidental flooding of the mines, the then-existing pumping plant and problems associated with regaining the 1,000-foot level in an article published in 1910. E. W. Walker (1908) also described the Tombstone Pumping Plant and some of the dewatering problems. J. A. Church (1905) investigated the water problems in the

district and published hypotheses as to the source and movement of water and its potential for control. Charles LeGrand (1914) reviewed existing pumping and provided an estimate of contemporary cost of dewatering. R. B. Brinsmade (1906, 1907) reported on the method used for sinking wet shafts and proposed suggestions with respect to the source of the water. He also reported on progress in handling water problems at the Tombstone Mining District. By far the most complete description of hydrologic conditions in the area has been provided by Hollyday (1963).

Ground water occurs under both fissure occurrence in fractured consolidated rocks and as interstitial water in alluvium. The alluvial reservoir is located north of the Tombstone Mining District. Minor perched water occurs in local deposits of alluvium along desert washes immediately following precipitation events.

The consolidated-rock aquifer consists of water-filled minute fractures, larger fissures and major solution openings, where metamorphism and structural deformation have developed large secondary permeability within the rocks. In the Tombstone Mining District this consolidated rock reservoir is encountered in all but the extreme western part of the district. Static water levels are found at depths ranging from 400 to 600 feet below land surface. The bulk of this ground-water reservoir is contained within the upper 300 feet of saturated rock (Hollyday, 1963). Below this depth, fissures and fractures decrease in open space, and solution cavities become almost non-existent. Recharge to the consolidated rock ground-water mass occurs by infiltration of precipitation through highly-fractured zones in the bedrock of the mountains and through alluvial recharge along washes in the valley areas. Water in the ground-water reservoir moves slowly down gradient, away from the mountain front, toward the San Pedro River and Whitewater Draw. The direction of ground-water flow within the Tombstone District is generally to the north in areas south of the city and to the west in areas north and east of the city. Discharge is as seepage outflow to the San Pedro River and as transpiration by phrentophytes in the river valley and along Whitewater Draw.

Hollyday (1963) has divided the Tombstone Mining District into four generalized hydrogeologic regions. The region of greatest yield and least drawdown is located to the northeast of Tombstone, in the area of valley alluvium which is, in turn, underlain by the Bisbee Formation. Region 2, including the PBR Minerals site, is the area of next highest yield, but is characterized by a greater specific drawdown. This region contains the thicker portions of the Bisbee Formation clastic rocks. Region 3 is the area of lowest yield and greatest drawdown within the mining district, and is underlain by predominately carbonate rocks adjacent to the impermeable Schieffelin Dome and Ajax Hill Horst. Region 4 is characterized by the Schieffelin Dome west of the Tombstone Syncline and the impermeable albite granites in the western part of the Ajax Hill Horst.

Ground-water development in the Tombstone Mining District has dealt primarily with efforts at dewatering, to allow deep mining. These efforts included empirical testing to estimate dewatering capability, along with the provision of water for milling operations. Only minor water development has occurred for municipal use.

The first known discovery of water was made in the Sulphuret Shaft in March, 1881 at an elevation of approximately 4,110 feet. The Sulphuret Shaft is immediately adjacent to the present open cut which was operated by the PBR Minerals predecessors. In April, 1882, the Grand Central Shaft encountered water at approximately the same elevation as that in the Sulphuret Shaft. Water was encountered at an elevation approximately the same in the Contention Shaft and the Head Center Shaft in the winter of 1882. The Emerald Shaft, located south of the main mining district, encountered water in 1988 at an elevation of approximately 4,090 feet, after the first efforts at pumping and dewatering had been in place. All these shafts are now within or immediately adjacent to the large open pit on the PBR Minerals site.

The first major efforts at dewatering were installed by the Grand Central Company during 1883, with a capacity of approximately 0.5 million gallons per day combined capacity. These pumps proved inadequate to lower the water to a significant depth, so an additional capacity of 1.5 million gallons per day was installed. At approximately the same time, the Contention Company installed an additional capacity of 1 million gallons per day. The two main companies were thus able to lower the water table approximately 100 to 130 feet during 20 months of pumping between May, 1884 and May, 1886 (Hollyday, 1963). By April, 1886, water had been encountered in the West Side workings in the northern part of the district, at an elevation of approximately 4,116 feet, and an average withdrawal of 153 gallons per minute resulted in an 11-foot drawdown. Water from the West Side workings were used for supply in the Girard Mill. During 1890 water was encountered in a winz at the bottom of the Lucky Cuss workings at an elevation of 4,110 feet. Dewatering at this site by means of pneumatic pumps and iron bailers succeeded in lowering the water table approximately 100 feet. This variety of experience demonstrated that successful dewatering would require the construction of a modern (for that time) pump plant of large capacity under centralized management.

Pumping and shaft sinking for a new Pump Shaft was begun in December, 1902. Apparently the plans were to reach the 1,000-foot level in less than two years; however, a four-year time period was required before the 1,000-foot level was actually reached. Interruptions to the steam power supply caused the ultimate submergence of the pumping equipment in June, 1909. Records indicate that the Pump Shaft produced 36,900 acre feet of ground water over the 8-year period, or an average of 2,830 gallons per minute, with a maximum pumpage of 5,280 gallons per minute for a 24-hour period. The pumpage resulted in a 440 drawdown during cross cutting operations on the 1,000-foot level. Efforts to regain the 1,000-foot level led to the ultimate termination of pumping

in January, 1911 and the resultant bankruptcy of the Tombstone Consolidated Mines Company.

Problems encountered during these dewatering operations were primarily related to the insufficient pumping capacity and problems associated with submergence of equipment during brief periods of power supply failure. Finally, the companies failed to take into account the vast quantity of water which would have to be pumped from storage during dewatering operations. Such dewatering operations were, of course, conducted before geohydrology theories were developed.

During 1954 and early 1955, Newmont Mining Corporation conducted an extensive dewatering operation, utilizing the West Side shaft to dewater the 600-foot level, provide water for diamond drilling, and test aquifer response. The dewatering operations were carefully monitored, utilizing the modern techniques of geohydrology. The West Side shaft produced an average of 505 gallons per minute for the first six months, and 41 gallons per minute for the remaining nine months. The water level was lowered approximately 35 feet in the West Side shaft, with a concomitant lowering of approximately 13 feet at an observation well one-third of a mile away. The main problem during this time was the clogging of pump intake screens with wood pulp and debris from the flooded workings.

The first recorded use of the ground water for municipal supply was in May, 1948, at which time Tombstone completed its 700-foot-deep Well #1 on the south side of town, to augment the municipal water supply derived from springs, located in Miller Canyon, during periods of low flow. Intermittent pumping of approximately 260 gallons per minute occurs during daylight hours on peak demand.

The various efforts at dewatering have been utilized to determine aquifer characteristics such as the coefficient of transmissibility (T) and the coefficient of storage (S). Assumptions implicit in hydrologic theory require that:

- The aquifer is homogeneous and isotropic;
- The well being tested completely penetrates the aquifer and is of infinitesimal diameter,
- The coefficient of transmissibility is constant in all places and at all times,
- The aquifer is bounded by impermeable strata both above and below,
- The coefficient of storage is constant and water is released instantaneously from storage with a decline in head,

- The flow to the well is laminar and radial or unidimensional in sectional view, and

- The aquifer is of infinite areal extent.

Geologic evidence indicates that none of these assumptions is actually valid in the Tombstone Mining District. In spite of the significant departures, the assumptions may be approximately fulfilled by taking into account the macro-scale fissure patterns and the interconnections formed by the extensive mine workings in the Tombstone Mining District. Hollyday (1963) concluded that the Tombstone aquifer complex may, indeed, be treated by hydrologic theory if observation well data is taken from tests of long duration. Hollyday utilized the existing pumping data to calculate transmissivities and storage coefficients. Table 5-1, adapted from Hollyday, provides information calculated on the various pumping efforts during the period from 1903 to 1955. Coefficient of transmissibility values range over a rather narrow range from 10,000 to 15,000 gallons per day per foot. The coefficient of storage ranges from a low of 0.003 to a high value of 0.2. Hollyday explained this rather wide range as a change in storage coefficient as the cone of depression spreads. In essence, the pumping efforts are significantly different depending on whether or not the interconnected workings are dewatered.

5.2.3 Ground-Water Utilization

Ground water is not generally used widely in the PBR Minerals area, as a result of the great depth to water, and the ready availability of an imported source of potable water from springs in Miller Canyon, supplied by the Town of Tombstone. Nearby ranches utilize windmills drawing from perched water mosses in alluvium along various dry washes. Table 5-2 provides information on wells registered with the State of Arizona within at least a 3-mile radius of the proposed PBR site. These wells are located on Plate II-1

PBR Minerals currently maintains 3 wells in the vicinity of their existing wash facility. One of these (well #2, D-22-20-12ccd) is pumped continuously and used for makeup water at the facility. While no completion data are available on this well, it is located in the vicinity of numerous old mine workings, and probably draws water from old mine openings. The other two PBR Minerals wells (wells #1, D-22-20-12ccd, and #3, D-22-20-11ddb) are also in the general vicinity of mine workings; however, they are not pumped except on an intermittent basis, for water-quality sampling. As will be discussed in the following section, the water quality of wells #1 and #3 indicate they are not completed in as high mineralized a rock mass as is well #2.

Ground water from the competent rock formations is withdrawn for supplemental municipal use by means of Tombstone Well #1 (D-22-11adb). As reported by Hollyday (1963), this 700-ft deep well was completed in May, 1948 and is pumped at a rate of 260 gpm during daylight hours during periods of peak demand. The Tombstone Well is located

approximately 1 mile north of and downgradient from the proposed PBR Minerals leach facility.

It is proposed that PBR Minerals construct a fourth well (D-22-20-14da) in the area immediately north (downgradient) from the proposed leach facility. This well will be pumped continuously, thereby forming a cone of depression which will assure capture and deflection of any ground-water degradation which might result from the proposed leach facility. Pumped water will be discharged into the barren pond, where it will serve as make up water for the leach facility.

5.2.4 Ground-Water Quality

Prior, published studies of the geohydrology of the Tombstone area have not addressed water quality to any significant detail. Hollyday (1963) makes no mention of water quality. Fortunately, PBR Minerals and its predecessors have collected water quality data, for selected parameters, over a long period of record. Occasionally samples have been collected and assayed for a more complete suite of parameters, by both PBR Minerals and the Arizona Department of Health Services.

Table 5-3 presents data on the concentration of mercury, nitrate, and total and free cyanide for the three PBR wells and Tombstone Well #1 during the period June 16, 1987 through May 5, 1988. These samples were collected by the PBR chemist or by personnel from Smith and Smith Laboratories, and analyzed by Smith and Smith Laboratories. The data are also plotted on Figure 5-1, with concentration shown as a function of time.

The data show that Wells #1 and 3 are generally of high quality. Well #2 is generally more mineralized, as a result of its location within the area of old mine workings. This is reflected by the relatively elevated values of mercury, with a mean concentration of 0.026 mg/l and a standard deviation of 0.006 mg/l for the period June, 1987 through April, 1988. This is 13 times the US EPA Primary Drinking Water standard of 0.002 mg/l, and doubtless reflects a long-term contamination associated with natural mineralization, perhaps exacerbated by historial use of mercury for precious-metals recovery. Mercury is not generally detected in PBR Wells #1 or #3, with only one detection value (caused by a contaminated sample container) in Well #3, and no detectable values in Well #1. The Tombstone well has only one, barely-detectable mercury value.

During prior Well #2, monitoring by the previous operator (T.E.I.), it was found that the well contained detectable free and total cyanide. There is no Federal drinking water standard for cyanide; however, Arizona uses a value of 0.20 mg/l total cyanide. It was believed that this contamination likely had resulted from prior use of cyanide for precious-metals leaching by prior tenants of the site. Elevated values of nitrate, in excess of the EPA Primary Drinking Water Standard, were also considered to be from the prior use of cyanide, as

cyanide can be oxidized to form nitrate. Nitric acid had also reportedly been used by a prior tenant.

On February 23, 1987, representatives of the Arizona Department of Health Services (ADHS) collected samples of water from Well #2, and from Tombstone Well #1, and analyzed these samples for major ions, nutrients, and trace metals. The sample from Well #2 (Table 5-4) was found to contain 0.200 mg/l total cyanide, but no detectable free cyanide. The "total" cyanide was probably present in the form of a stable metallic complex such as copper, iron, or nickel cyanide. Mercury was present at elevated levels of 0.0235 mg/l, which is consistent with PBR monitoring results, and nitrate was present at 27.3 mg/l, again generally consistent with the levels established by PBR monitoring. Best (July 9, 1987) indicates earlier sampling had detected up to 74.8 mg/l nitrate on May 8, 1986; thus the levels have declined somewhat.

The ADHS sample from Tombstone #1 did not detect mercury or cyanide. Nitrate was present at 10.32 mg.l, slightly in excess of the EPA Primary Drinking Water Standard.

Major-ion data from the two ADHS samples, collected February 23, 1987, were entered into a computer data base and used to generate trilinear plots (Piper diagrams) and Stiff plots (Figure 5-2 and 5-3). As shown by the diagrams, both waters are calcium bicarbonate types, with Well #2 showing somewhat greater concentrations of magnesium sulfate. This is consistent with the known mineralization in the area of the well. The reported potassium value of 410 mg/l apparently is a typographical error and should have been 4.10 mg/l. The reported value cannot be correct, and a value of 4.10 is consistent with the ion balance. Using 4.10 mg/l yields an ion balance of 1.3, whereas use of 410 mg/l yields an unacceptance ion balance of 3.98.

On May 5, 1988, samples of water were collected from PBR Wells #1 and #2 and from Tombstone Well #1 by personnel of Geochemical Engineering, Inc. and PBR Minerals, Inc. Prior to sampling, the wells were pumped to purge standing water in the well bore. Samples were collected directly from the wellhead into appropriately pre-preserved, clean sample containers and delivered to the analytical laboratories within 24 hours of sample collection.

In addition to the normal sample parameters, sample analysis was requested for all metals covered by Primary and Secondary Drinking Water Standards, and for major-ion concentrations. To provide quality control information on the existing data base from Smith and Smith labs, a blind duplicate sample was collected from PBR Well #2, intentionally misidentified as "PBR Well #6", and sent to Smith and Smith labs. An interlaboratory quality control sample was collected from Well #2 and submitted to Western Technologies, Inc. lab. For PBR Well #1 and Tombstone Well #1, interlaboratory duplicate samples were also collected for the two laboratories. Results of the May 5, 1988 sampling are provided on Table 5-5.

The interlaboratory and intralaboratory quality control duplicates indicate that Smith and Smith Labs (the prime lab that has been used in the development of the existing data base) are capable of producing data that agrees within the lab and between labs, and hence produce a credible data base.

The results from both labs confirm that the various wells comply with Drinking Water Standards, with the exception of mercury, nitrate and total dissolved solids in Well #2. The mercury and TDS are probably a result of natural mineralization in the rock around Well #2, while the nitrate is from both natural sources and prior waste-disposal practices in the vicinity.

Major-ion data from Western Technologies' results was used to plot trilinear and Stiff diagrams (Figures 5-4 and 5-5) for the 3 wells. As with the earlier ADHS results (Figures 5-2 and 5-3), the waters are calcium bicarbonate types, with Well #2 being a calcium (magnesium) sulfate bicarbonate type, reflecting the presence of mineralization in and adjacent to the old underground workings in the vicinity of the well. PBR Well #1 shows the least effect of mineralization; this despite the proximity of this well to a number of shafts. Tombstone Well #1 is an intermediate quality between the two PBR wells.

The data indicate that "background" values of nitrate are very close to the EPA Drinking Water Standard. Such a finding is not at all uncommon, especially in semiarid regions. Nitrate is "fixed" from atmospheric sources and flushed to the water table. Numerous investigations have documented the presence of nitrate salts and minerals in soils and rock material above the water table in arid regions. These investigations have also shown that nitrate salts can be leached by increasing infiltration of meteoric water or by elevation changes in the water table. In the case of the Tombstone Well, this may have been exacerbated by the prior disposal of sewage into old mine workings in the vicinity of the town well.

The data strongly indicated a relationship between prior use of cyanide at the site and observed elevated values of cyanide and nitrate in Well #2; however, this was not consistent with geochemical experience. While it is known that nitrate commonly is conservative (e.g., it moves at the same rate as ground water), the geochemical literature has documented that cyanide tends to form metallic complexes and not be mobile in the ground-water environment. It was thus difficult to explain how cyanide from the old processing facility could have migrated 500 feet to the water table, followed by a lateral migration of several hundred feet to report to Well #2.

This question was answered in a rather direct manner during April, 1988. During the process of removing contaminated clay from a prior liquid holding pond, an earth scraper broke through into a vertical shaft leading to abandoned mine workings connected to mine workings in the vicinity of Well #2. It is apparent that cyanide-bearing wastes had percolated through the clay covering the vertical shaft, moved

down the shaft, and reported to Well #2. Continued pumping of this well has returned the free cyanide to generally non-detectable levels. There have been annual peaks of free cyanide, probably associated with rainfall and resultant migration of recharge down the shaft. This should not be a future factor, now that the contaminated clay has been removed from around the shaft collar.

Table 5.3 PBR MINERALS TOMBSTONE, ARIZONA

WATER QUALITY DATA
Smith & Smith Lab

		Well #1				Well # 2				Well #3				Tombstone #1			
				Cyanide				Cyanide				Cyanide				Cyanide	
Day of Sample	Date Sampled	Mercury mg/l	Nitrate mg/l	Total mg/l	Free mg/l	Mercury mg/l	Nitrate mg/l	Total mg/l	Free mg/l	Mercury mg/l	Nitrate mg/l	Total mg/l	Free mg/l	Mercury mg/l	Nitrate mg/l	Total mg/l	Free mg/l
1	6/16/87	0.001	2.6	<.01	<.01	0.026	8.9	0.05	<.01					0.0011	5.8	<.01	<.01
38	7/24/87	<0.001	1.5	<.01	<.01	0.026	7.0	0.13	0.02					<.001	8.6	<.01	<.01
51	8/6/87	<0.001	2.0	<.01	<.01	0.024	6.7	0.13	0.03	<0.001	2.5	<0.01	<0.01	<.001	7.5	<.01	<.01
64	8/19/87					0.024	10.9	0.07	NS								
85	9/9/87	<0.001	2.3	<.01	<.01	0.026	9.0	0.08	0.01	<0.001	6.2	<0.01	<0.01	<.001	6.0	<.01	<.01
100	9/24/87					0.0264	12.4	0.13	<0.01								
113	10/7/87	<0.001	3.0	<.01	<.01	0.020	22.3	0.12	0.01					<.001	2.5	<.01	<.01
119	10/13/87									<0.001	8.7	<0.01	<0.01				
127	10/21/87					0.0235	22.3	0.08	0.01								
141	11/4/87	<0.001	2.6	<.01	<.01	0.028	24.9	0.13	0.02	<0.001	10.1	<0.01	<0.01	<.001	9.4	<.01	<.01
155	11/18/87					0.0297	16.3	0.09	0.02								
170	12/3/87	<0.001	3.3	<.01	<.01	0.026	28.8	0.04	0.01	0.0166*	17.4*	0.02*	<0.01	<.001	8.6	<.01	<.01
180	12/21/87					0.034	24.2	0.13	0.01								
204	1/6/88	<0.001	4.0	<.01	<.01	0.0386	23.5	0.14	<.01					<.001	9.1	<.01	<.01
216	1/18/88					0.029	22.6	0.09	0.01	<0.001	10.2	<0.01	<0.01				
232	2/3/88	<0.001	2.2	<.01	<.01	0.020	23.4	0.14	0.01					<.001	8.6	<.01	<.01
247	2/18/88					0.020	31.5	0.12	<.01								
261	3/3/88	<0.001	3.9	<.01	<.01	0.020	18.5	0.11	<.01					<.001	7.1	<.01	<.01
289	3/31/88					0.024	23.4	0.20	0.03								
295	4/6/88	<0.001	2.8	<.01	<.01	0.027	23.0	0.18	0.02					<.001	8.2	<.01	<.01
309	4/20/88					0.030	22.9	0.08	<.01								
323	5/4/88					0.034	17.8	0.18	0.02					<0.001	8.1	<0.01	<0.01
324	5/5/88	<0.001	2.4	<.01	<.01	0.025	-	0.15	0.01					<0.001		<0.01	<0.01
						0.028**		0.16**	0.01**								
338	5/18/88					0.034	21.2	0.12	<0.01								
	Mean:		2.717			0.027	19.159	0.117	0.015		9.18				7.46		
	Std. Dev.:		0.741			0.005	7.101	0.041	0.008		4.96				1.93		

* Contaminated Sample Container, data invalid ** Duplicate Sample

Table 5-4

Results of Chemical Analysis

(in mg/l unless noted)

Arizona Department of Health Services

February 23, 1987 Sampling

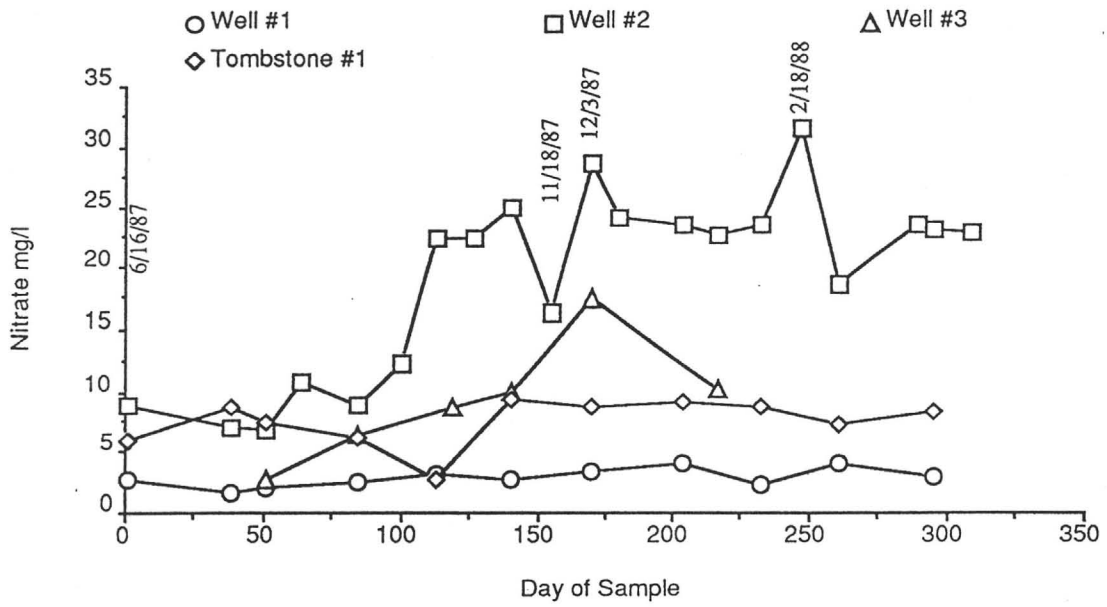
PBR Minerals, Tombstone, Arizona

Parameter	Tombstone Well #1	PBR Minerals
Major Ions & General		
pH (units)	7.4	7.0
Conductivity (u mhos)	611	733
Calcium	72.7	91.7
Magnesium	20.3	26.9
Sodium	32.6	24.7
Potassium	3.67	410 (?)
Carbonate	<2	<2
Biocarbonate	235	183
Sulfate	50.4	81.4
Chloride	36.6	50.1
TDS	410	481
Alkalinity, Total	193	150
Alkalinity, Phenophthalien	<2	<2
Fluoride	2.08	2.17
Nitrate and Nitrite	10.35	27.3
TKN	<0.05	0.96
Metals and Trace Elements		
Arsenic	<0.020	<0.020
Barium	<0.10	<0.10
Beryllium	<0.0005	<0.0005
Boron	0.10	<0.10
Cadmium	<0.0010	0.0012
Chromium	<0.01	<0.01
Copper	<0.01	<0.01
Iron	<0.01	0.13
Lead	<0.02	<0.02
Manganese	<0.05	0.05
Mercury	<0.0005	0.0235
Selenium	<0.005	0.0052
Silver	<0.005	<0.005
Zinc	<0.05	0.255
Cyanide		
Total	<0.016	0.200
Free	<0.016	<0.016

Table 5-5
Interlaboratory Comparison
May 5, 1988 Sampling of PBR Minerals Wells
Tombstone, Arizona
(Western Technologies, Inc. and Smith & Smith)

Well Identity	Well #1		Well #2			Town of Tombstone Well #1		
Laboratory:	W.T.	Smith	W.T.	Smith	Smith Dup	W.T.	Smith	Drink Wtr Standards
Time Sampled:	- 09:25 -		- 09:09 -			- 10:00 -		
Laboratory Results (mg/l unless noted)								
Arsenic, Total	<0.02		<0.02	<0.01	<0.01	<0.02	<0.01	0.05
Barium, Total	<0.1		<0.1	<0.5	<0.5	<0.1	<0.5	1.0
Cadmium, Total	<0.005		<0.005	<0.01	<0.01	<0.005	<0.01	0.01
Calcium, Total	54		130	141.1	146.4	72	92.3	-
Chromium, Total	<0.02		<0.02	<0.05	<0.05	<0.02	<0.05	~~<~~0.05
Copper, Total	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	1.0(2)
Iron, Total	<0.01		<0.01	<0.1	<0.1	<0.01	<0.1	0.3(2)
Lead, Total	<0.02		<0.02	<0.05	<0.05	<0.02	<0.5	0.05
Magnesium, Total	15.0		36.0	25.0	26.3	20.0	16.2	-
Manganese, Total	0.05		<0.05	<0.05	<0.05	<0.05	<0.05	0.05(2)
Mercury	<0.001		0.027	0.029	0.028	<0.001	<0.001	0.002
Potassium, Total	4		6	8.1	8.2	5	3.9	-
Selenium, Total	<0.01		<0.01	-	-	<0.01	-	0.01
Silver, Total	<0.02		<0.02	<0.025	<0.025	<0.02	<0.025	0.05
Sodium, Total	17		2.6	32.0	32.0	29	39.0	-
Zinc, Total	<0.05		0.08	0.04	0.05	<0.05	0.02	5.0(2)
Alkalinity,Ttl.	163		157	-	-	180	-	-
Bicarbonate	199		192	-	-	220	-	-
Carbonate	<2		<2	-	-	<2	-	-
Chloride	12		44	107	108	33	98	250.0(2)
Cyanide, Total	<0.01	<0.01	0.18	0.15	0.16	<0.01	<0.01	-
Cyanide, Free	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	-
Fluoride	2.0		1.2	-	-	1.7	-	1.4-2.4(2)
Nitrate Nitrogen	1.9	2.4	23	-	-	8.2	-	10
Sulfate	26		160	173	174	47	39	250.0(2)
Total Dissolved Solids	282		666	-	-	414	-	500.0(2)

(1) Standard is Temperature Dependent
(2) Secondary Standard Only



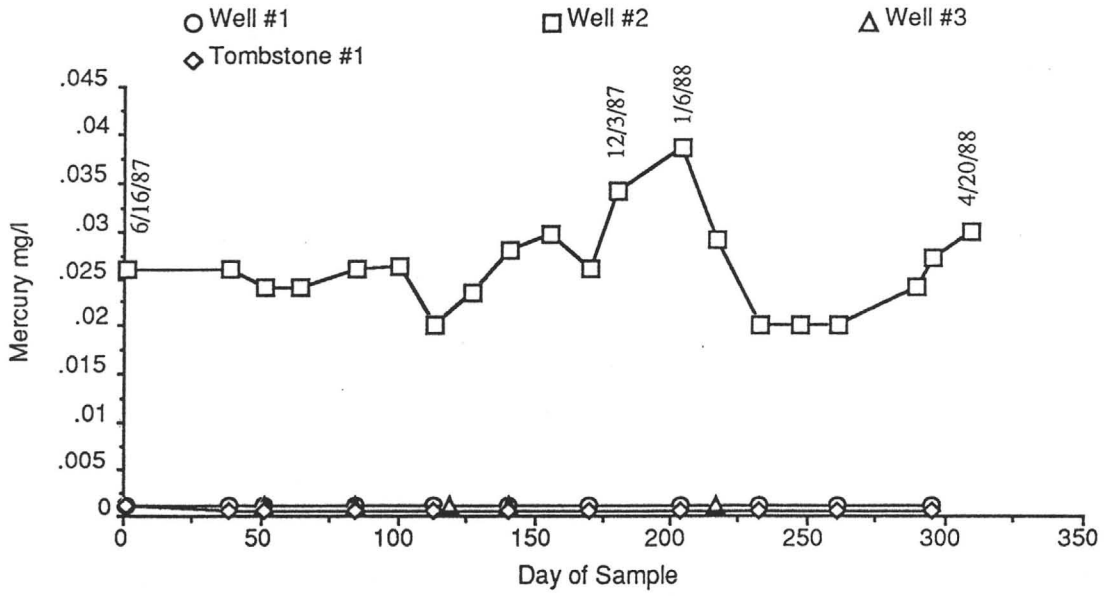
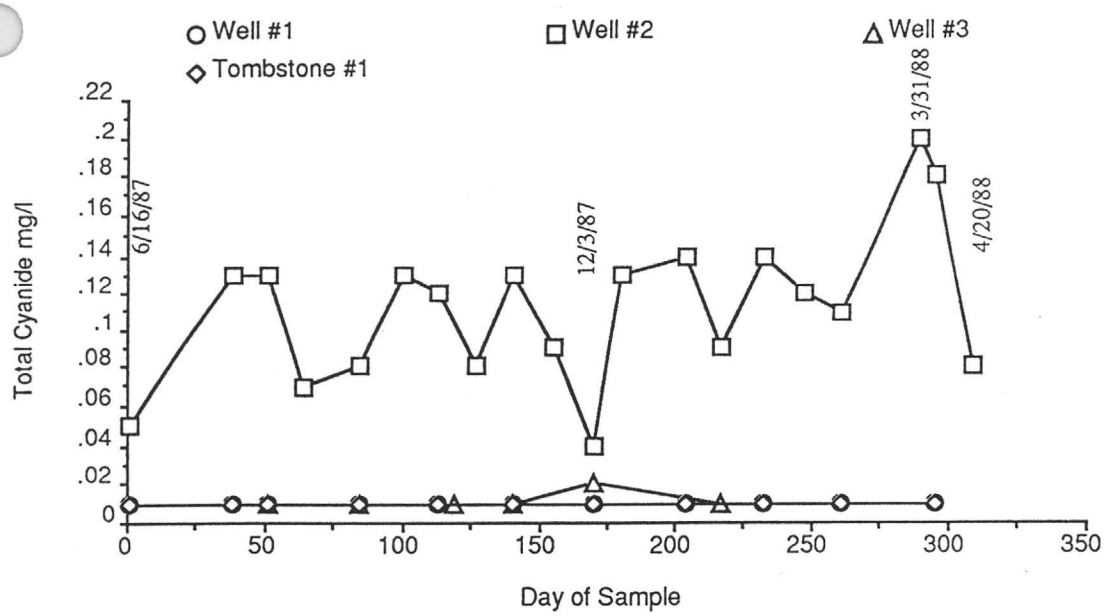


Fig 5-1 Water Quality Variation with Time


Well #1
Well #2
Well #3
Tombstone #1
Total Cyanide mg/l
Day of Sample
6/16/87
12/3/87
3/31/88
4/20/88
0
.02
.04
.06
.08
.1
.12
.14
.16
.18
.2
.22
0
50
100
150
200
250
300
350

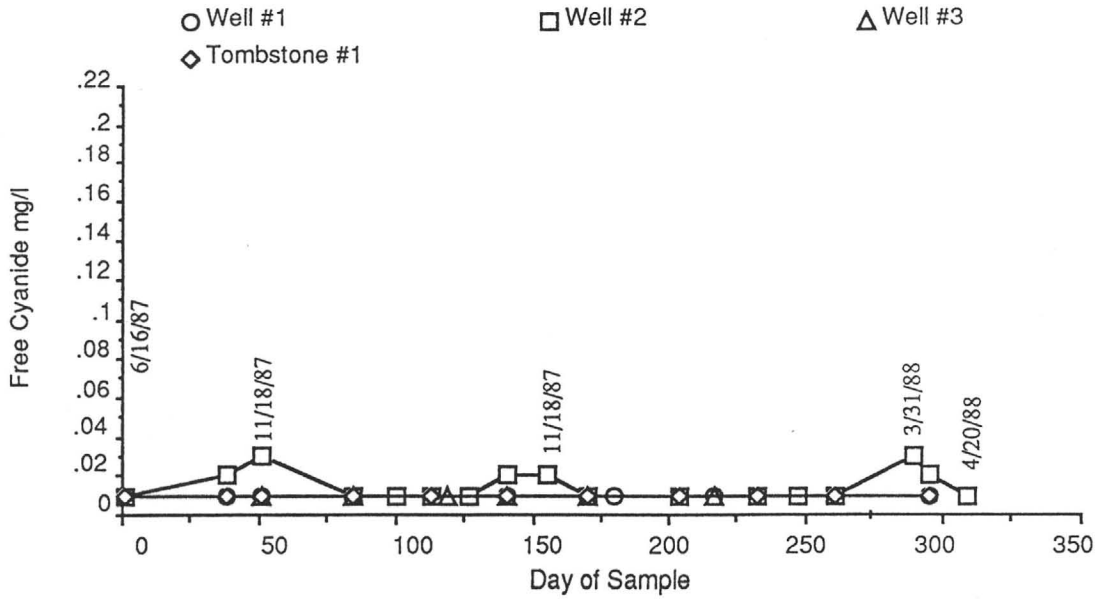

Well #1
Well #2
Well #3
Tombstone #1
Free Cyanide mg/l
Day of Sample
6/16/87
11/18/87
11/18/87
3/31/88
4/20/88
0
.02
.04
.06
.08
.1
.12
.14
.16
.18
.2
.22
0
50
100
150
200
250
300
350

Fig 5-1 (cont'd)

No.	TDS	Well Name
1	452	Tombstone Well #1
2	463	Well #2

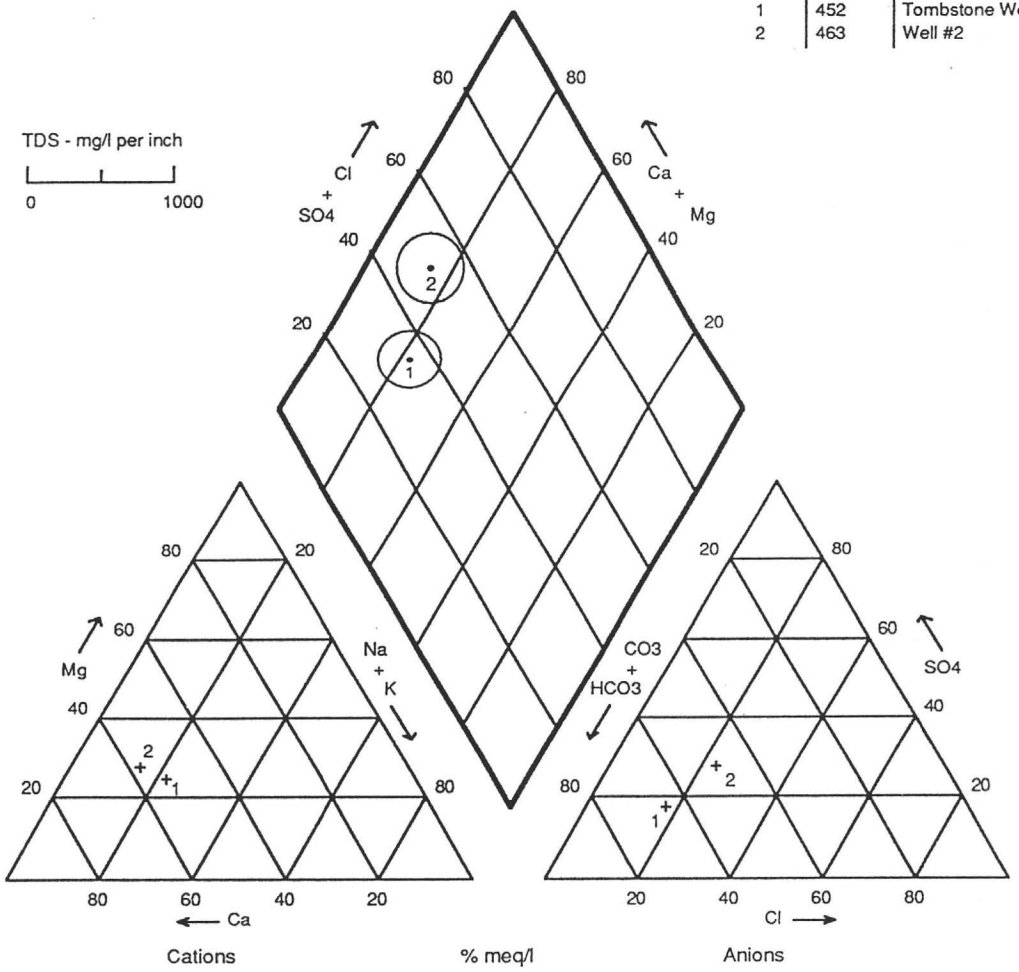


Fig 5-2

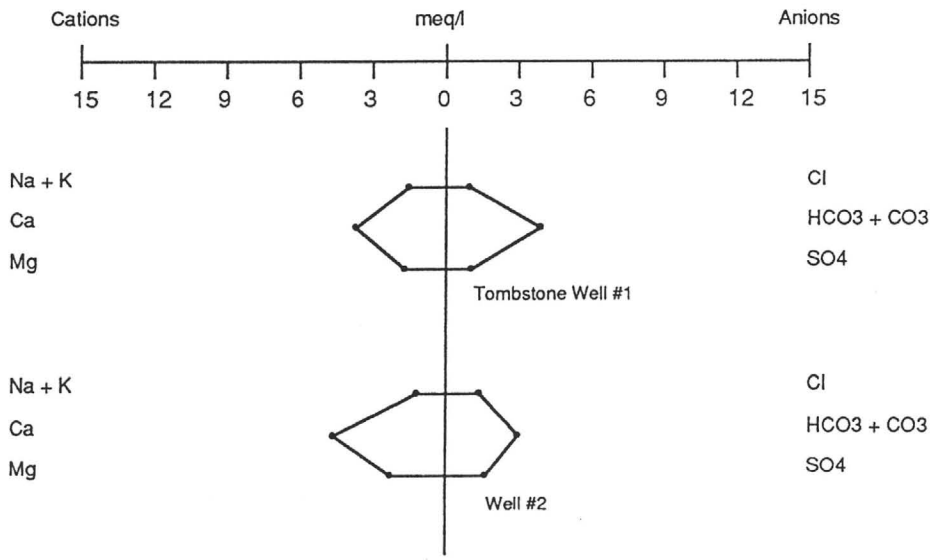


Fig 5-3 **PBR Minerals - Major Ions**

PBR Minerals Tombstone, Arizona

No.	TDS	Well Name
1	329	Well #1
2	428	Tombstone #1
3	596	Well #2

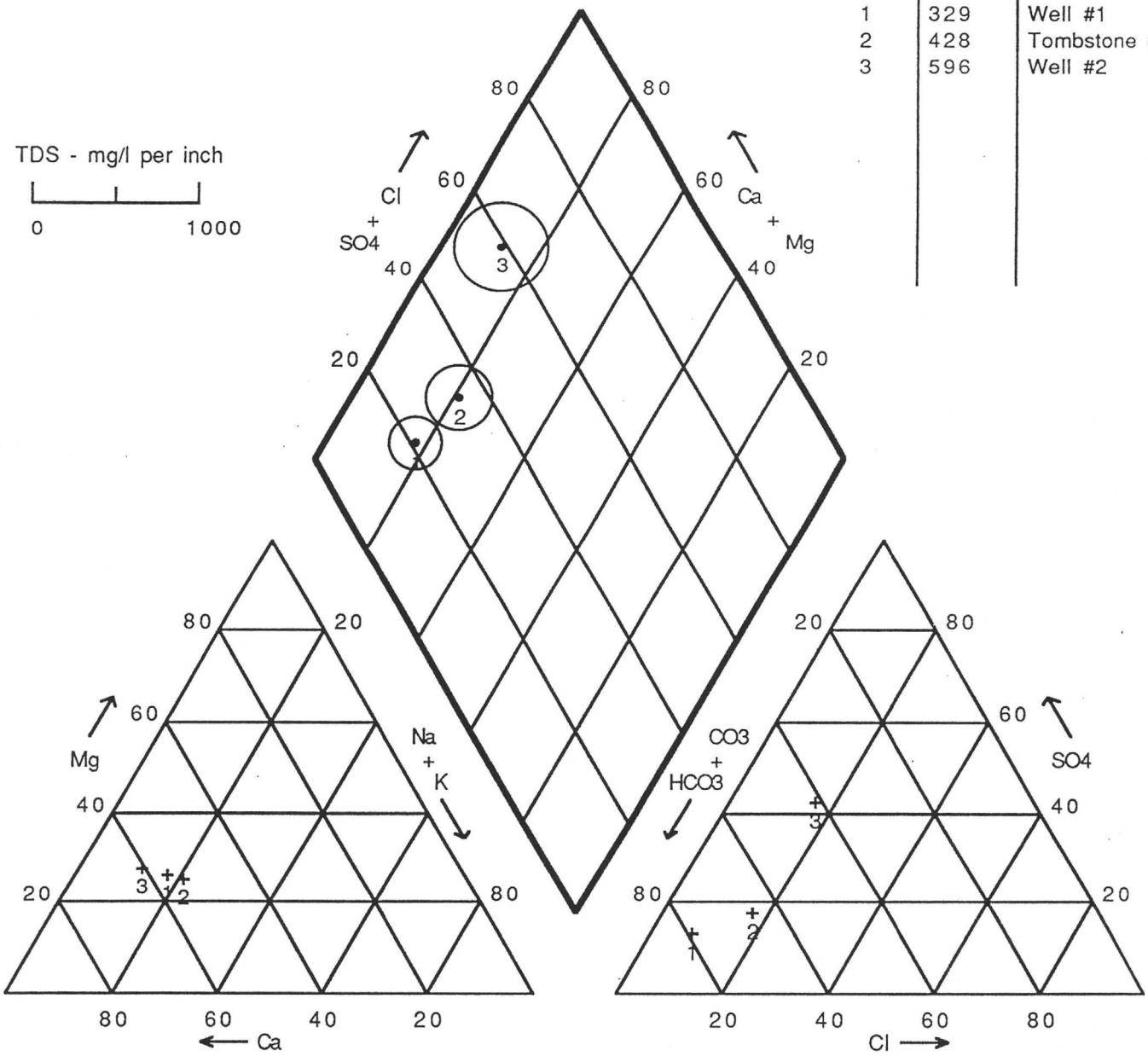


Fig 5-4

PBR Minerals Tombstone, Arizona

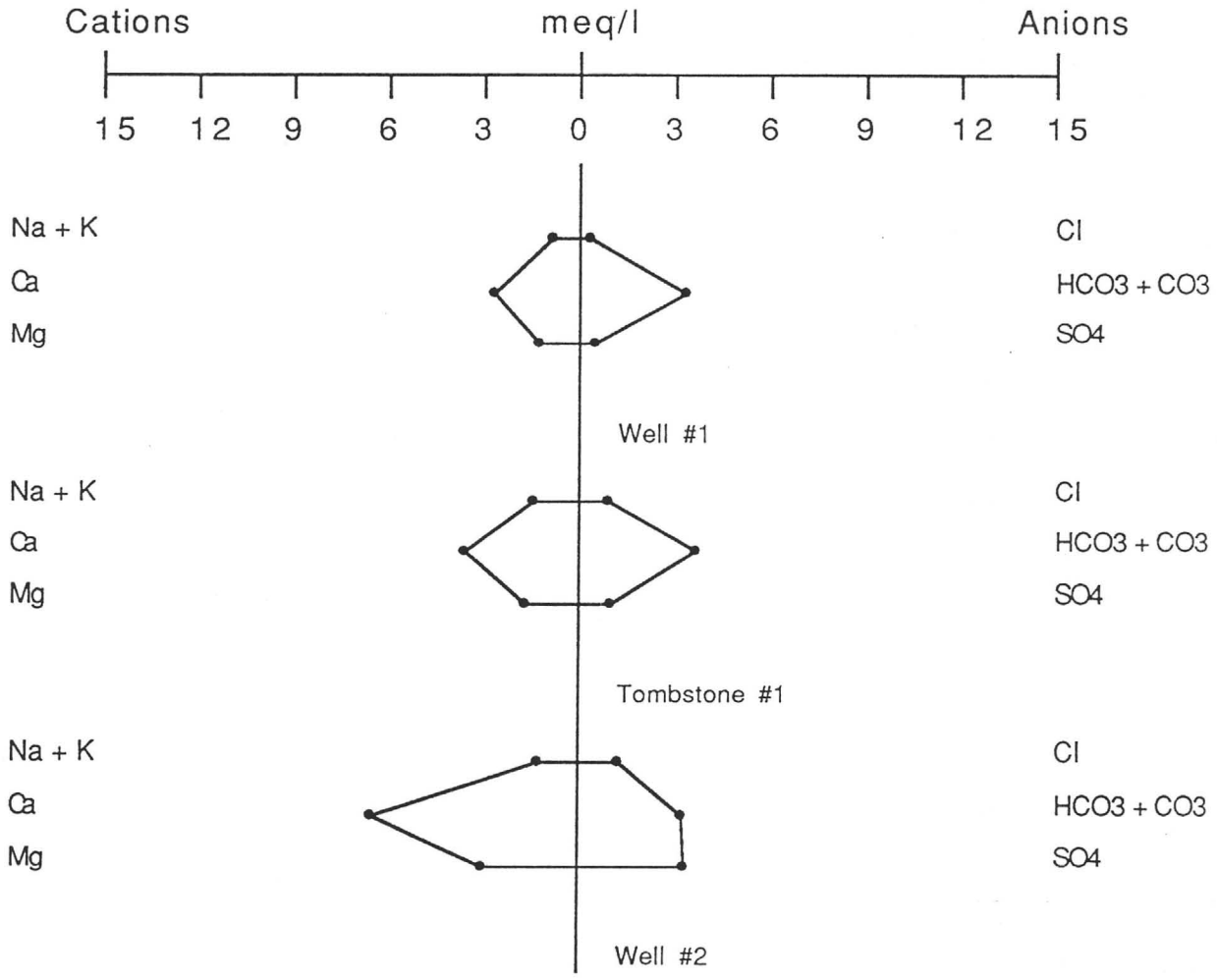


Fig 5-5

6.0 DISCHARGE IMPACT ASSESSMENT

The proposed P.B.R Minerals heap-leaching facility will not have an impact on the ground-water resource of the area, under any reasonably-foreseeable scenarios. This is because of the multiple, redundant protection offered by the multiple liners, the heap leach leak-detection facility, the geochemical attenuation capacity of the clay liner and the thick, unsaturated zone which occurs between the proposed facility and the water table. While an impact is not reasonably foreseeable for the above-stated reasons, should an unforeseen event occur and result in ground-water contamination, the potential impact will be further restricted by the proposed utilization of a pumped-monitoring well located immediately down gradient of the facility, as described in the following Section 7. Should such an impact occur, it would extend no further than the location of the proposed pumped monitor well, since such a well will form a cone of depression assuring capture of any potential contamination from the facility.

7.0 MONITORING PLAN

As is noted earlier, at present there is no monitoring conducted in the immediate vicinity of the proposed heap leach operation. PBR Minerals currently maintains a monitoring program on the three existing PBR wells, together with the Town of Tombstone Well #1.

Because of problems associated with siting a single passive monitor well or series of wells to intercept potential flow paths in the fractured rock typical of the PBR facility, it is proposed that pumped monitor well technology be utilized. In the pumped monitor well approach, a single well is located in the area down gradient of the proposed facility, and pumped on a continuous basis to form a cone of depression in the water table. Such a cone of depression will assure that any contamination which escapes from the facility will report to the well and be detected.

The pumped monitor well approach is well suited for use of a phased monitoring technique, which draws upon the use of conservative major ions for indicator detection. Thus, it is proposed that the pumped monitor well will be monitored on a continuous basis by means of a recording conductivity meter. In addition, water-quality samples will be collected from the well discharge on a monthly basis, or in the event that the conductivity values indicates a major change. These samples will be analyzed for major ions (calcium, magnesium, sodium, potassium, carbonate, bicarbonate, sulfate, chloride, nitrate and total dissolved solids). Samples will be collected on a quarterly basis for the geochemically-retarded contaminants of concern (total and free cyanide, arsenic and mercury). Samples will also be analyzed for cyanide, arsenic and mercury in the event that the conservative parameters record a change in water type.

Samples will be collected directly from the pumped monitor well discharge, placed in appropriately pre-preserved, clean sample containers and dispatched to certified water-quality laboratories for analysis in accordance with EPA-approved analytical methods. Results will be submitted to the State of Arizona within two weeks of their receipt by PBR Minerals. Quarterly samples will be sent to two separate labs, for quality-control purposes for the first two quarters of sampling, and once per year thereafter during the life of the mine operation. Monitoring shall continue as above for two years following closure of the mining and leaching operations.

8.0 CONTINGENCY PLAN

As noted earlier, there is no reasonably-foreseeable geohydrological scenario associated with the PBR Minerals heap-leach facility which would result in the violation of ground-water standards or the exceedance of ambient water-quality conditions, whichever is greater. While a violation of these standards or ambient conditions is not anticipated, the proposed pumped monitor well approach is well-suited for contingency actions should monitoring detect that ground-water contamination has occurred. In such a case, the pumped monitor well would continue to be pumped, with water placed in the barren storage pond or, in the event of an indication of a leak, such water would be spray-irrigated onto the surrounding desert. The cone of depression would be maintained and the contaminants drawn into the well for removal to the surface. Spray irrigation onto the desert would result in degradation of cyanide should it be present, and would also result in immobilization of toxic metals by means of geochemical attenuation reactions with the surface material.

9.0 CLOSURE AND POST-CLOSURE

9.1 Closure

Upon cessation of mining and leaching activities, water from the barren pond will continue to be pumped onto the last heap, without the addition of cyanide, and the resultant pregnant solution processed through the metals recovery plant so long as the precious metals values justify plant operation.

After values in the leachate drop below recoverable values, the contents of the barren pond will be treated with alkaline chlorination to degrade free cyanide. The neutralized solution will be sprayed onto the heap, to reduce cyanide levels in the barren heap. Alternatively, the barren solution may be treated with nutrients to promote biodegradation of residual cyanide. The final process selection will be dependent on the outcome of pilot testwork on biological degradation of cyanide.

Water from the barren pond will continue to be sprayed onto the heap, thereby facilitating cyanide degradation and evaporation, until pond contents are exhausted. The barren pond liner will then be removed and buried in the spent ore on the heap. The pregnant pond liner will be left in place, to serve as an evaporation pond for leachate from the pads.

9.2 Post-Closure

Upon the completion of closure activities, the monitoring program will be continued two years. Pumped water will be used for dust control and reclamation efforts, with sampling on a quarterly basis for the major ions. At the end of the two years (assuming no significant ground-water quality change) the pumps will be removed from the wells and a locking security cover installed. This would thus allow for additional future monitoring, by the re-installation of pumping equipment.

Smith, Ethan Smith
ENVIRONMENTAL CONST.

PBR MINERALS, INC.
P.O. BOX 370
TOMBSTONE, ARIZONA 85638
(602) 457-2282
FAX (602) 457-3020

February 23, 1989

Mr. Joe Perotti
Director of Public Works
CITY OF TOMBSTONE
P.O. Box 323
Tombstone, Arizona 85638

Dear Joe:

Please find enclosed test results from Smith & Smith Consultants. We received these results today and are forwarding copies to you.

Should you have any questions, please feel free to contact Mr. Gary Lindroos at the number listed above.

Sincerely,

PBR MINERALS, INC.

Carolyne Ramirez

Carolyne Ramirez
Office Manager

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 567
SPECIMEN NO.

12/7/88
DATE REC'D AT 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 City of Tombstone #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 12/7/88 Sample Time 0700

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,	<0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	3.2 ,	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:

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

Comments: _____

Analysis Date 12/31/88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 566
SPECIMEN NO.

12-7-88
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 T.E.I. WELL #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 12-7-88 Sample Time 0720

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,	0.012 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	23.7 ,	TTHM[a]	P82080,	. ,
Selenium ◆	P01147,	. ,		,	. ,
Silver ◆	P01077,	. ,	TOTAL CYANIDE	mg/L ,	0.12 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L ,	< 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 12-15-88

Analyst DHO, RVB

KWS

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 565
SPECIMEN NO.

12-7-88
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 T.E.I. WELL #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 12-7-88 Sample Time 0710

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,	< 0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	2.1 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,	TOTAL CYANIDE	mg/L ,	< 0.01 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L ,	< 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 12-15-88

Analyst DHO, RVB

RWS

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

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 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

RWS

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

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

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 2 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

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

RWS

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 495
SPECIMEN NO.

10-05-88
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 LAB TAP TEI

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 10-05-88 Sample Time 0730

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
Arsenic +	P01002,	. ,
Barium +	P01007,	. ,
Cadmium +	P01027,	. ,
Chromium +	P01034,	. ,
Lead +	P01051,	. ,
Mercury +	P71900,	<0.001 ,
Nitrate (N)	P00620,	3.1 ,
Selenium +	P01147,	. ,
Silver +	P01077,	. ,
Fluoride	P00951,	. ,
	,	. ,
Alkalinity	P00410,	. ,
Calcium	P00916,	. ,
Chloride	P00940,	. ,
Copper +	P01042,	. ,
Hardness	P00900,	. ,
Iron +	P01045,	. ,
Magnesium	P00927,	. ,
Manganese +	P01055,	. ,
pH	P00403,	. ,
Sodium	P00929,	. ,
Sulfate	P00945,	. ,
TDS	P00500,	. ,
Zinc +	P01092,	. ,

*Units are mg/l unless otherwise noted.

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Endrin[a]	P39390,	. ,
Lindane[a]	P39782,	. ,
MethoxyChlor[a]	P39480,	. ,
Toxaphene[a]	P39400,	. ,
2,4-D[a]	P39730,	. ,
2,4,5-TP Silvex[a]	P39045,	. ,
TTHM[a]	P82080,	. ,
	,	. ,
TOTAL CYANIDE	mg/L ,	<0.01 ,
FREE CYANIDE	mg/L ,	<0.01 ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
Radium-226/228[b]	P11503,	. ,
Gross Alpha, Tot[b]	P01501,	. ,
— Count Error[b]	P01502,	. ,
Beta Activity[b]	P03501,	. ,
Cesium-134[b]	P28414,	. ,
Iodine-131[b]	P28301,	. ,
Strontium-90/89[b]	P01082,	. ,
Tritium[b]	P82126,	. ,
Uranium[b]	P22706,	. ,

[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 10/26/88

Analyst DHO, RVB

KWS

Self-Monitoring Report Form

IS 507
SPECIMEN NO

10-19-88
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 TEI WELL #1

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 10-19-88 Sample Time 0730

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,	<0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate (N)	P00620,	2.4 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,	TOTAL CYANIDE	mg/L,	<0.01 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L,	<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
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 10/28/88

Analyst DHO, RVB, KJR

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 508
SPECIMEN NO.

10-19-88
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 TEI WELL #2

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 10-19-88 Sample Time 0700

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,	0.018 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate (N)	P00620,	29.4 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,	TOTAL CYANIDE	mg/L,	0.08 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L,	<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,	. ,
		. ,	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
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 10/28/88

Analyst DHO, RVB, KJR

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 496
SPECIMEN NO.

10-05-88
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: TEI WELL #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: 10-05-88 Sample Time: 0730

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
Arsenic +	P01002,	. ,
Barium +	P01007,	. ,
Cadmium +	P01027,	. ,
Chromium +	P01034,	. ,
Lead +	P01051,	. ,
Mercury +	P71900,	0.011 ,
Nitrate (N)	P00620,	37.3 ,
Selenium +	P01147,	. ,
Silver +	P01077,	. ,
Fluoride	P00951,	. ,
	,	. ,
Alkalinity	P00410,	. ,
Calcium	P00916,	. ,
Chloride	P00940,	. ,
Copper +	P01042,	. ,
Hardness	P00900,	. ,
Iron +	P01045,	. ,
Magnesium	P00927,	. ,
Manganese +	P01055,	. ,
pH	P00403,	. ,
Sodium	P00929,	. ,
Sulfate	P00945,	. ,
TDS	P00500,	. ,
Zinc +	P01092,	. ,

*Units are mg/l unless otherwise noted.

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Endrin[a]	P39390,	. ,
Lindane[a]	P39782,	. ,
MethoxyChlor[a]	P39480,	. ,
Toxaphene[a]	P39400,	. ,
2,4-D[a]	P39730,	. ,
2,4,5-TP Silvex[a]	P39045,	. ,
TTHM[a]	P82080,	. ,
	,	. ,
TOTAL CYANIDE	mg/L ,	0.15 ,
FREE CYANIDE	mg/L ,	<0.01 ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
Radium-226/228[b]	P11503,	. ,
Gross Alpha, Tot[b]	P01501,	. ,
— Count Error[b]	P01502,	. ,
Beta Activity[b]	P03501,	. ,
Cesium-134[b]	P28414,	. ,
Iodine-131[b]	P28301,	. ,
Strontium-90/89[b]	P01082,	. ,
Tritium[b]	P82126,	. ,
Uranium[b]	P22706,	. ,

[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: 10/26/88

Analyst: DHO, RVB
RWS

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 497
SPECIMEN NO.

10-05-88
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

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

ADHS Permit No. _____

Sample Location: CITY OF TOMBSTONE WELL #1 TEI

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 10-05-88 Sample Time _____

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,	<0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
[illegible]ate(N)	P00620,	7.7 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,	TOTAL CYANIDE	mg/L,	<0.01 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L,	<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.
Com[illegible]nce Section
Roo[illegible]04
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 10/28/88

Analyst DHO, RVB, KJR

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 490
SPECIMEN NO.

9-21-88
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 WELL #2 TEI

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 9-21-88 Sample Time 0700

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,	0.019 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	33.8 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,	TOTAL CYANIDE	mg/L,	0.26 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L,	<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 10/17/88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 457
SPECIMEN NO.

9-7-88
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 Lab Tap TEI

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 _____ Sample Time _____

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,	<0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	2.3 ,	TTHM[a]	P82080,	. ,
Selenium ◆	P01147,	. ,		,	. ,
Silver ◆	P01077,	. ,	TOTAL CYANIDE	mg/L ,	<0.01 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L ,	<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 10-6-88

Analyst DHO, RVB

KWS

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 458
SPECIMEN NO.

9-7-88
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 WELL #1 TEI

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 _____ Sample Time _____

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,	<0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	2.1 ,	TTHM[a]	P82080,	. ,
Selenium ◆	P01147,	. ,		,	. ,
Silver ◆	P01077,	. ,	TOTAL CYANIDE	mg/L,	<0.01 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L,	<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 10-6-88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 459
SPECIMEN NO.

9-7-88
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 WELL #2 TEJ

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 _____ Sample Time _____

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,	0.025 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	4.1 ,	TTHM[a]	P82080,	. ,
Selenium ◆	P01147,	. ,		,	. ,
Silver ◆	P01077,	. ,	TOTAL CYANIDE	mg/L,	0.01 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L,	<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 10-6-88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

TS 456
SPECIMEN NO.

9-7-88
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 TEI WELL #1 CITY OF TOMBSTONE

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 9-7-88 Sample Time _____

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,	<0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate (N)	P00620,	8.2 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,	TOTAL CYANIDE	mg/L,	<0.01 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L,	<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 10-6-88

Analyst DHO, RVB

RWS

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 449
SPECIMEN NO.

8-25-88
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00048

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

ADHS Permit No. _____

Sample Location TEI WELL #2

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 8-25-88 Sample Time _____

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
Arsenic +	P01002,	. ,
Barium +	P01007,	. ,
Cadmium +	P01027,	. ,
Chromium +	P01034,	. ,
Lead +	P01051,	. ,
Mercury +	P71900,	0.026 ,
N[illegible]e(N)	P00620,	9.8 ,
Selenium +	P01147,	. ,
Silver +	P01077,	. ,
Fluoride	P00951,	. ,
	,	. ,
Alkalinity	P00410,	. ,
Calcium	P00916,	. ,
Chloride	P00940,	. ,
Copper +	P01042,	. ,
Hardness	P00900,	. ,
Iron +	P01045,	. ,
Magnesium	P00927,	. ,
Manganese +	P01055,	. ,
pH	P00403,	. ,
Sodium	P00929,	. ,
Sulfate	P00945,	. ,
TDS	P00500,	. ,
Zinc +	P01092,	. ,

*Units are mg/l unless otherwise noted.

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Endrin[a]	P39390,	. ,
Lindane[a]	P39782,	. ,
MethoxyChlor[a]	P39480,	. ,
Toxaphene[a]	P39400,	. ,
2,4-D[a]	P39730,	. ,
2,4,5-TP Silvex[a]	P39045,	. ,
TTHM[a]	P82080,	. ,
	,	. ,
TOTAL CYANIDE	mg/L ,	0.04 ,
FREE CYANIDE	mg/L ,	0.01 ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
Radium-226/228[b]	P11503,	. ,
Gross Alpha, Tot[b]	P01501,	. ,
— Count Error[b]	P01502,	. ,
Beta Activity[b]	P03501,	. ,
Cesium-134[b]	P28414,	. ,
Iodine-131[b]	P28301,	. ,
Strontium-90/89[b]	P01082,	. ,
Tritium[b]	P82126,	. ,
Uranium[b]	P22706,	. ,

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

Office of Waste and Water Quality Mgmt.
Com[illegible]ce Section
Room [illegible]
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 10-3/88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 442
SPECIMEN NO.

8-15-88
DATE REC'D AT 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 TEI WELL #2

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 07/29/88 Sample Time _____

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

Parameter Code: P72019

Collected By: RVB, GL RES

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,	0.018 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	1.4 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,	TOTAL CYANIDE	mg/L,	0.25 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L,	0.02 ,
	,	. ,		,	. ,
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 10-3-88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 433
SPECIMEN NO.

08/03/88
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 LAB TAP H20

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 08/03/88 Sample Time 0700

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,	< 0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	2.9 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,	TOTAL CYANIDE mg/L ,		< 0.01 ,
Fluoride	P00951,	. ,	FREE CYANIDE mg/L ,		< 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 09/15/88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

1S 435
SPECIMEN NO

08/03/88
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 WELL # 1

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 8/3/88 Sample Time 0730

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,	< 0 . 0 0 1 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	2 . 3 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,	TOTAL CYANIDE mg/L ,		< 0 . 0 1 ,
Silver +	P01077,	. ,	FREE CYANIDE mg/L ,		< 0 . 0 1 ,
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 09/15/88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 436
SPECIMEN NO.

8-3-88
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 WELL #2 TEI

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 8-3-88

Sample Date _____ Sample Time _____

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
Arsenic +	P01002,	. ,
Barium +	P01007,	. ,
Cadmium +	P01027,	. ,
Chromium +	P01034,	. ,
Lead +	P01051,	. ,
Mercury +	P71900,	0.015 ,
Nitrate(N)	P00620,	24.5 ,
Selenium +	P01147,	. ,
Silver +	P01077,	. ,
Fluoride	P00951,	. ,
	,	. ,
Alkalinity	P00410,	. ,
Calcium	P00916,	. ,
Chloride	P00940,	. ,
Copper +	P01042,	. ,
Hardness	P00900,	. ,
Iron +	P01045,	. ,
Magnesium	P00927,	. ,
Manganese +	P01055,	. ,
pH	P00403,	. ,
Sodium	P00929,	. ,
Sulfate	P00945,	. ,
TDS	P00500,	. ,
Zinc +	P01092,	. ,

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Endrin[a]	P39390,	. ,
Lindane[a]	P39782,	. ,
MethoxyChlor[a]	P39480,	. ,
Toxaphene[a]	P39400,	. ,
2,4-D[a]	P39730,	. ,
2,4,5-TP Silvex[a]	P39045,	. ,
TTHM[a]	P82080,	. ,
	,	. ,
TOTAL CYANIDE	mg/L,	0.08 ,
FREE CYANIDE	mg/L,	0.01 ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
Radium-226/228[b]	P11503,	. ,
Gross Alpha, Tot[b]	P01501,	. ,
— Count Error[b]	P01502,	. ,
Beta Activity[b]	P03501,	. ,
Cesium-134[b]	P28414,	. ,
Iodine-131[b]	P28301,	. ,
Strontium-90/89[b]	P01082,	. ,
Tritium[b]	P82126,	. ,
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 10-3-88

Analyst DHO, RVB

KWS

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 434
SPECIMEN NO

08/03/88
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 TEI CITY OF TOMBSTONE ~~WELL 1~~

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 8/3/88 Sample Time 0715

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,	< 0 . 0 0 1 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	6 . 9 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,	TOTAL CYAINIDE	mg/L,	< 0 . 0 1 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L,	< 0 . 0 1 ,
	,	. ,		,	. ,
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 09/15/88

Analyst DHO, RVB

RWS

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 415
SPECIMEN NO

7/6/88
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 CITY OF TOMBSTONE WELL 1

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 7/6/88 Sample Time 1010

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

Collected By: KWS, 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,	< 0 . 0 0 1 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate (N)	P00620,	8 . 1 ,	TTHM[a]	P82080,	. ,
Selenium ◆	P01147,	. ,		,	. ,
Silver ◆	P01077,	. ,	TOTAL CYANIDE	mg/L ,	< 0 . 0 1 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L ,	< 0 . 0 1 ,
	,	. ,		,	. ,
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 8/24/88

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 416
SPECIMEN NO

7/6/88
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: TEI LAB TAP WATER

Facility Name & Mailing Address

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

SAMPLE COLLECTION INFORMATION

XX Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other

Sample Date: 7/6/88 Sample Time: 0925

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

Parameter Code: P72019

Collected By: ~~KWS~~ GL

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	. ,
Barium +	P01007,	. ,
Cadmium +	P01027,	. ,
Chromium +	P01034,	. ,
Lead +	P01051,	. ,
Mercury +	P71900,	< 0.001 ,
Nitrate(N)	P00620,	5.4 ,
Selenium +	P01147,	. ,
Silver +	P01077,	. ,
Fluoride	P00951,	. ,
	,	. ,
Alkalinity	P00410,	. ,
Calcium	P00916,	. ,
Chloride	P00940,	. ,
Copper +	P01042,	. ,
Hardness	P00900,	. ,
Iron +	P01045,	. ,
Magnesium	P00927,	. ,
Manganese +	P01055,	. ,
pH	P00403,	. ,
Sodium	P00929,	. ,
Sulfate	P00945,	. ,
TDS	P00500,	. ,
Zinc +	P01092,	. ,

*Units are mg/l unless otherwise noted.

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Endrin[a]	P39390,	. ,
Lindane[a]	P39782,	. ,
MethoxyChlor[a]	P39480,	. ,
Toxaphene[a]	P39400,	. ,
2,4-D[a]	P39730,	. ,
2,4,5-TP Silvex[a]	P39045,	. ,
TTHM[a]	P82080,	. ,
	,	. ,
TOTAL CYANIDE	mg/L,	<0.01 ,
FREE CYANIDE	mg/L,	<0.01 ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
Radium-226/228[b]	P11503,	. ,
Gross Alpha, Tot[b]	P01501,	. ,
— Count Error[b]	P01502,	. ,
Beta Activity[b]	P03501,	. ,
Cesium-134[b]	P28414,	. ,
Iodine-131[b]	P28301,	. ,
Strontium-90/89[b]	P01082,	. ,
Tritium[b]	P82126,	. ,
Uranium[b]	P22706,	. ,

[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: 8/24/88

Analyst: DHQ RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

LS 413
SPECIMEN NO

7/6/88
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 TEI WELL # 1

Facility Name & Mailing Address

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

SAMPLE COLLECTION INFORMATION

XX (Y) Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other

Sample Date 07/06/88 Sample Time 0920

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

Collected By: KWS, 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,	< 0 .0 0 1 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	2 .4 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,	TOTAL CYANIDE	mg/L ,	< 0 .0 1 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L ,	< 0 .0 1 ,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00918,	. ,		,	. ,
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 08/17/88

Analyst DHO, RVB

KWS

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 414
SPECIMEN NO

07/06/88
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 TEI WELL #2

Facility Name & Mailing Address

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

SAMPLE COLLECTION INFORMATION

XX Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond

☐ Other _____

Sample Date 07/06/88 Sample Time 0930

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

Parameter Code: P72019

Collected By: KWS, GL

ADHS Use Only

S C.

Parameter Name*	Stored Parameter Number	Laboratory Analysis Results	Parameter Name*	Stored 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,	0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	34.2 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,	TOTAL CYANIDE mg/L,		0.11 ,
Fluoride	P00951,	. ,	FREE CYANIDE mg/L,		<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:

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

Comments: _____

Analysis Date 8/17/88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 385
SPECIMEN NO

06/09/88
DATE REC'D AT LAB

L[illegible]ame & Address — LAB ID NO. 00048

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

ADHS Permit No. _____

Sample Location WELL # 1 TEI

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 06/08/88 Sample Time _____

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,	. ,
[illegible]d +	P01051,	. ,	2,4-D[a]	P39730,	. ,
[illegible]rcury +	P71900,	< 0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	2.6 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	TOTAL CYANIDE	mg/l ,	< 0.01 ,
	,	. ,	FREE CYANIDE	mg/l ,	< 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:

Of[illegible] of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 07/14/88

Analyst DHO, RVB
RWS

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 384
SPECIMEN NO

06/08/88
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 Lab Tap TE1

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 6/8/88 Sample Time _____

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,	< 0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	2.8 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	TOTAL CYANIDE	mg/l ,	< 0.01 ,
	,	. ,	FREE CYANIDE	mg/l ,	< 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 07/14/88

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 383
SPECIMEN NO

06/08/88
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 WELL # 2 TEI

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 6/8/88 Sample Time _____

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,	0.022 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	17.7 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	TOTAL CYANIDE	mg/l ,	0.16 ,
	,	. ,	FREE CYANIDE	mg/l ,	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 2 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 07/14/88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

LS 372
SPECIMEN NO.

06/01/88
DATE REC'D AT LAB

Laboratory 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 TOMBSTONE WELL # 1

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 6/1/88 Sample Time _____

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,	. ,
L +	P01051,	. ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	< 0 .0 0 1 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	9 .0 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,	TOTAL CYANIDE	mg/1 ,	< 0 .0 1 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/1 ,	< 0 .0 1 ,
	,	. ,		,	. ,
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 _____

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 355
SPECIMEN NO.

05/18/88
DATE REC'D AT 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 WELL#2 TEI

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 05/18/88 Sample Time 0720

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,	0.034 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	21.2 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/l ,	< 0.01 ,
	,	. ,	TOTAL CYANIDE	mg/l ,	0.12 ,
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 06/06/88

Analyst DHO, RVB

Smith & Smith
ENVIRONMENTAL LABORATORY
999 East Fry Blvd.
SIERRA VISTA, AZ. 85635

00048

WATER QUALITY ANALYSIS - CHEMICAL

NAME OF CLIENT: P.B.R. MINERALS, INC
ADDRESS: P.O. BOX 158
CITY: Tombstone | STATE: Az | ZIP CODE: 85638 | COUNTY: Cochise
MAILING ADDRESS OF REPORT
ADDRESS
CITY | STATE | ZIP CODE
SYSTEM OR SOURCE NAME: P.B.R. MINERALS
LOCATION OF SAMPLING POINT: TEI WELL #6
COLLECTED BY
DATE COLLECTED | HOUR
PRESERVATIVE ADDED? [X] YES [ ] NO

Specimen Number: IS 358
Date Received: 5/16/88
Time: 1500

SPECIMAN UNSATISFACTORY
Reason:
CODE

SOURCE TYPE
[X] Well [ ] Sewage [ ] Seepage
[ ] Surface [ ] Industrial

SOURCE DATA
[ ] Treated
[ ] Untreated
[ ] Grab Sample
[ ] Composite Sample

SAMPLER'S COMMENTS: Samples Received From Gary Lindoos

[ ] ROUTINE WATER CHEMISTRY
Electrical Conductivity, µmhos/cm
[ ] pH

CATIONS	mg/L
[X] Calcium	146.4
[X] Magnesium	26.3
[X] Sodium	32.0
[X] Iron	<0.1
[X] Copper	<0.05
[X] Manganese	<0.05
[X] Zinc	0.05
[X] Potassium	8.2
[ ] TOTAL CATION	

ANIONS	mg/L
[ ] Alk P (CaCO3)	
[ ] Alk MO (CaCO3)	
[X] Chloride	108
[X] Nitrate	15.3
[X] Sulfate	174
[ ] Phosphate	
[X] Fluoride	1.3
[ ] Nitrite	
[ ] Sulfide	
[ ] Silica	
[ ] Orthophosphate	
[ ] TOTAL ANIONS	

SPECIAL	mg/L
[ ] Solids	
[ ] Residue	
[X] Total Dissolved Solids (Calc.)	704
[ ] Hardness (CaCO3)	
[ ] Total Alkalinity as (CaCO3)	
[ ] Total Soluble Salts (EC)	
[ ] V S S	
[ ] Foaming Agents (MBAS)	
[ ] B O D	
[ ] C O D	
[ ] Kjeldahl Nitrogen Total	
[ ] Ammonia	
[ ] Dissolved Oxygen (DO)	
[X] Cyanide Free	0.01
[ ] Boron	
[ ] Oil and Grease	
[ ] C C E	
[ ] Phenols	
[X] Total Cyanide	0.16
[ ]	
[ ]	
[ ]	
[ ]	
[ ]	

TRACE METALS	mg/L
[X] Arsenic	<0.01
[X] Silver	<0.025
[X] Chromium	<0.05
[X] Cadmium	<0.01
[X] Lead	<0.05
[X] Selenium	<0.01
[X] Mercury	0.028
[X] Barium	<0.5
[ ] Chromium Hexavalent	
[ ] Tin	
[ ] Aluminum	
[ ]	
[ ]	
[ ]	
[ ]	
[ ] Color	
[ ] Taste	
[ ] Odor	
[ ] Turbidity	
[ ]	
[ ]	
[ ]	
[ ]	
[ ]	

COMMENTS

ANALYST: RVB, DHO, KWS
DATE REPORTED: 8/2/88

Smith & Smith
ENVIRONMENTAL LABORATORY
999 East Fry Blvd.
SIERRA VISTA, AZ. 85635

00048

WATER QUALITY ANALYSIS - CHEMICAL

Specimen Number: IS 356
Date Received: 05/16/88
Time: 1500

NAME OF CLIENT: P.B.R. MINERALS, INC.
ADDRESS: P.O.BOX 158
CITY: Tonbstone | STATE: Az | ZIP CODE: 85638 | COUNTY: Cochise
MAILING ADDRESS OF REPORT: ATTN: Gary Lindroos
ADDRESS:
CITY: | STATE: | ZIP CODE:
SYSTEM OR SOURCE NAME: P.B.R. MINERALS
LOCATION OF SAMPLING POINT: Tombstone City Well #1
COLLECTED BY:
DATE COLLECTED: | HOUR:
PRESERVATIVE ADDED? [X] YES [ ] NO

SPECIMAN UNSATISFACTORY
Reason:
CODE

SOURCE TYPE
[X] Well [ ] Sewage [ ] Seepage
[ ] Surface [ ] Industrial

SOURCE DATA
[ ] Treated
[ ] Untreated
[ ] Grab Sample
[ ] Composite Sample

SAMPLER'S COMMENTS: Samples Received From Gary Lindoos

[ ] ROUTINE WATER CHEMISTRY
[ ] Electrical Conductivity, µmhos/cm
[ ] pH

CATIONS	mg/L
[X] Calcium	92.3
[X] Magnesium	16.2
[X] Sodium	39.0
[X] Iron	<0.1
[X] Copper	<0.05
[X] Manganese	<0.05
[X] Zinc	0.02
[X] Potassium	3.9
[ ] TOTAL CATION	

ANIONS	mg/L
[ ] Alk P (CaCO3)	
[ ] Alk MO (CaCO3)	
[X] Chloride	98
[X] Nitrate	7.9
[X] Sulfate	39
[ ] Phosphate	
[X] Fluoride	1.6
[ ] Nitrite	
[ ] Sulfide	
[ ] Silica	
[ ] Orthophosphate	
[ ] TOTAL ANIONS	

SPECIAL	mg/L
[ ] Solids	
[ ] Residue	
[X] Total Dissolved Solids (Calc.)	650
[ ] Hardness (CaCO3)	
[ ] Total Alkalinity as (CaCO3)	
[ ] Total Soluble Salts (EC)	
[ ] V.S.S.	
[ ] Foaming Agents (MBAS)	
[ ] B.O.D.	
[ ] C.O.D.	
[ ] Kjeldahl Nitrogen Total	
[ ] Ammonia	
[ ] Dissolved Oxygen (DO)	
[X] Cyanide Free	<0.01
[ ] Boron	
[ ] Oil and Grease	
[ ] C.C.E.	
[ ] Phenols	
[X] Total Cyanide	<0.01

TRACE METALS	mg/L
[X] Arsenic	<0.01
[X] Silver	<0.025
[X] Chromium	<0.05
[X] Cadmium	<0.01
[X] Lead	<0.05
[X] Selenium	<0.01
[X] Mercury	<0.001
[X] Barium	<0.5
[ ] Chromium Hexavalent	
[ ] Tin	
[ ] Aluminum	
[ ] Color	
[ ] Taste	
[ ] Odor	
[ ] Turbidity	

COMMENTS

ANALYST: RVB, DHO, KWS
DATE REPORTED: 8/2/88

Smith & Smith
ENVIRONMENTAL LABORATORY
999 East Fry Blvd.
SIERRA VISTA, AZ. 85635

00048

WATER QUALITY ANALYSIS - CHEMICAL

Specimen Number: IS 357
Date Received: 5/16/88
Time: 1500

NAME OF CLIENT: P.B.R. MINERALS INC.
ADDRESS: P.O.BOX 158
CITY: Tombstone | STATE: Az | ZIP CODE: 85638 | COUNTY: Cochise
MAILING ADDRESS OF REPORT: ATTN: GARY LINDROOS
ADDRESS:
CITY: | STATE: | ZIP CODE:
SYSTEM OR SOURCE NAME: P.B.R. MINERALS
LOCATION OF SAMPLING POINT: TEI WELL #2
COLLECTED BY:
DATE COLLECTED: | HOUR:
PRESERVATIVE ADDED? [X] YES [ ] NO

SPECIMAN UNSATISFACTORY
Reason:
CODE

SOURCE TYPE
[X] Well [ ] Sewage [ ] Seepage
[ ] Surface [ ] Industrial

SOURCE DATA
[ ] Treated
[ ] Untreated
[ ] Grab Sample
[ ] Composite Sample

SAMPLER'S COMMENTS: Samples Received From Gary Lindroos

[ ] ROUTINE WATER CHEMISTRY
Electrical Conductivity, µmhos/cm
[ ] pH

CATIONS	mg/L
[X] Calcium	141.1
[X] Magnesium	25.0
[X] Sodium	32.0
[X] Iron	<0.1
[X] Copper	<0.05
[X] Manganese	<0.05
[X] Zinc	0.04
[X] Potassium	8.1
[ ] TOTAL CATION	

ANIONS	mg/L
[ ] Alk P (CaCO3)	
[ ] Alk MO (CaCO3)	
[X] Chloride	107
[X] Nitrate	14.4
[X] Sulfate	173
[ ] Phosphate	
[X] Fluoride	1.4
[ ] Nitrite	
[ ] Sulfide	
[ ] Silica	
[ ] Orthophosphate	
[ ] TOTAL ANIONS	

SPECIAL	mg/L
[ ] Solids	
[ ] Residue	
[X] Total Dissolved Solids (Calc.)	621
[ ] Hardness (CaCO3)	
[ ] Total Alkalinity as (CaCO3)	
[ ] Total Soluble Salts (EC)	
[ ] V.S.S.	
[ ] Foaming Agents (MBAS)	
[ ] B.O.D.	
[ ] C.O.D.	
[ ] Kjeldahl Nitrogen Total	
[ ] Ammonia	
[ ] Dissolved Oxygen (DO)	
[X] Cyanide Free	0.01
[ ] Boron	
[ ] Oil and Grease	
[ ] C.C.E.	
[ ] Phenols	
[X] TOTAL CYANIDE	0.15

TRACE METALS	mg/L
[X] Arsenic	<0.01
[X] Silver	<0.025
[X] Chromium	<0.05
[X] Cadmium	<0.01
[X] Lead	<0.05
[X] Selenium	<0.01
[X] Mercury	0.029
[X] Barium	<0.5
[ ] Chromium Hexavalent	
[ ] Tin	
[ ] Aluminum	
[ ] Color	
[ ] Taste	
[ ] Odor	
[ ] Turbidity	

COMMENTS

ANALYST: RVB, DHO, KWS
DATE REPORTED: 8/2/88

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 357
SPECIMEN NO.

05/16/88
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 TEI WELL # 2

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 WELL

Sample Date _____ Sample Time _____

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,	< 0.01 ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	< 0.5 ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	< 0.01 ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	< 0.05 ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	< 0.05 ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	< 0.029 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,	POTASSIUM	,	8.1 ,
Silver +	P01077,	< 0.025 ,	TOTAL CYANIDE	mg/l ,	0.15 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/l ,	0.01 ,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	141.1 ,		,	. ,
Chloride	P00940,	107. ,		,	. ,
Copper +	P01042,	< 0.05 ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	< 0.1 ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	25.0 ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	< 0.05 ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	32.0 ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	173. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	0.04 ,	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 _____

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 358
SPECIMEN NO.

5/16/88
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 TEI well # 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 _____ Sample Time _____

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,	< 0.01 ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	< 0.5 ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	< 0.01 ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	< 0.05 ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	< 0.05 ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	0.028 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,	POTASSIUM	,	8.2 ,
Silver +	P01077,	< 0.025 ,	TOTAL CYANIDE	,	0.16 ,
Fluoride	P00951,	. ,	FREE CYANIDE	,	0.01 ,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	146.4 ,		,	. ,
Chloride	P00940,	108. ,		,	. ,
Copper +	P01042,	< 0.05 ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	< 0.1 ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	26.3 ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	< 0.05 ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	32.0 ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	174. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	0.05 ,	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 _____

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 356
SPECIMEN NO.

05/16/88
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 TOMBSTONE WELL # 1

SAMPLE COLLECTION INFORMATION

☐ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other WELL

Sample Date _____ Sample Time _____

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

Parameter Code: P72019

Collected By: RVB, GL

Facility Name & Mailing Address

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

ADHS Use Only

S C .

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	< 0.01 ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	< 0.5 ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	< 0.01 ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	< 0.05 ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	< 0.05 ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	< 0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,	TOTAL CYANIDE	mg/L ,	< 0.01 ,
Silver +	P01077,	< 0.025 ,	FREE CYANIDE	mg/L ,	< 0.01 ,
Fluoride	P00951,	. ,	POTASSIUM	mg/L ,	3.9 ,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	92.3 ,		,	. ,
Chloride	P00940,	98. ,		,	. ,
Copper +	P01042,	< 0.05 ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	< 0.1 ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	16.2 ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	< 0.05 ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	. ,	Cesium-134[b]	P28414,	. ,
Sodium	P00929,	39.0 ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	39. ,	Strontium-90/89[b]	P01082,	. ,
TDS	P00500,	. ,	Tritium[b]	P82126,	. ,
Zinc +	P01092,	0.02 ,	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 _____

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 350
SPECIMEN NO.

05/06/88
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 WELL #1 TEI

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 05/06/88 Sample Time _____

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,	< 0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	2.4 ,	TTHM[a]	P82080,	. ,
Selenium ◆	P01147,	. ,		,	. ,
Silver ◆	P01077,	. ,	TOTAL CYANIDE	~~mg/l~~ ,	< 0.01 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/l ,	< 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 06/15/88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 340
SPECIMEN NO.

05/04/88
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 TEI LAB TAP H20

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 5/4/88 Sample Time 0700

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,	< 0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	4.6 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,		,	. ,
	,	. ,	TOTAL CYANIDE	mg/L ,	< 0.01 ,
Alkalinity	P00410,	. ,	FREE CYANIDE	,	< 0.01 ,
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 05/24/88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 339
SPECIMEN NO.

05/04/88
DATE REC'D AT 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 T E I WELL 2

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 5/4/88 Sample Time 0715

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,	0.034 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	17.8 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	TOTAL CYANIDE mg/L	,	0.18 ,
	,	. ,	FREE CYANIDE	,	0.02 ,
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

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 05/24/88

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 338
SPECIMEN NO.

05/04/88
DATE REC'D AT 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 TEI WELL 1 CITY OF TOMB

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 5/4/88 Sample Time 0730

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,	< 0 . 0 0 1 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	8 . 1 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	TOTAL CYANIDE mg/L	,	< 0 . 0 1 ,
	,	. ,	FREE CYANIDE	,	<0 . 0 1 ,
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 05/24/8

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 333
SPECIMEN NO.

04/25/88
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 PAD EXP 1 EAST

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 04/22/88 Sample Time _____

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	mg/L ,	< 0 . 0 1 ,
	,	. ,		,	. ,
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 04/26/88

Analyst DHO, RVB

KWS

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 324
SPECIMEN NO.

04/20/88
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 WELL #2

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 04/20/88 Sample Time 0720

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
Arsenic +	P01002,	. ,
Barium +	P01007,	. ,
Cadmium +	P01027,	. ,
Chromium +	P01034,	. ,
Lead +	P01051,	. ,
Mercury +	P71900,	0.030 ,
Nitrate(N)	P00620,	22.9 ,
Selenium +	P01147,	. ,
Silver +	P01077,	. ,
Fluoride	P00951,	. ,
	,	. ,
Alkalinity	P00410,	. ,
Calcium	P00916,	. ,
Chloride	P00940,	. ,
Copper +	P01042,	. ,
Hardness	P00900,	. ,
Iron +	P01045,	. ,
Magnesium	P00927,	. ,
Manganese +	P01055,	. ,
pH	P00403,	. ,
Sodium	P00929,	. ,
Sulfate	P00945,	. ,
TDS	P00500,	. ,
Zinc +	P01092,	. ,

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Endrin[a]	P39390,	. ,
Lindane[a]	P39782,	. ,
MethoxyChlor[a]	P39480,	. ,
Toxaphene[a]	P39400,	. ,
2,4-D[a]	P39730,	. ,
2,4,5-TP Silvex[a]	P39045,	. ,
TTHM[a]	P82080,	. ,
	,	. ,
	,	. ,
TOTAL CYANIDE	mg/L ,	0.08 ,
FREE CYANIDE	mg/L ,	<0.01 ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
Radium-226/228[b]	P11503,	. ,
Gross Alpha, Tot[b]	P01501,	. ,
— Count Error[b]	P01502,	. ,
Beta Activity[b]	P03501,	. ,
Cesium-134[b]	P28414,	. ,
Iodine-131[b]	P28301,	. ,
Strontium-90/89[b]	P01082,	. ,
Tritium[b]	P82126,	. ,
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 04/26/88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 323
SPECIMEN NO.

04/20/88
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 untreated tailing

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 04/19/88 Sample Time 0730

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
Arsenic +	P01002,	. ,
Barium +	P01007,	. ,
Cadmium +	P01027,	. ,
Chromium +	P01034,	. ,
Lead +	P01051,	. ,
Mercury +	P71900,	. ,
Nitrate(N)	P00620,	. ,
Selenium +	P01147,	. ,
Silver +	P01077,	. ,
Fluoride	P00951,	. ,
	,	. ,
Alkalinity	P00410,	. ,
Calcium	P00916,	. ,
Chloride	P00940,	. ,
Copper +	P01042,	. ,
Hardness	P00900,	. ,
Iron +	P01045,	. ,
Magnesium	P00927,	. ,
Manganese +	P01055,	. ,
pH	P00403,	. ,
Sodium	P00929,	. ,
Sulfate	P00945,	. ,
TDS	P00500,	. ,
Zinc +	P01092,	. ,

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Endrin[a]	P39390,	. ,
Lindane[a]	P39782,	. ,
MethoxyChlor[a]	P39480,	. ,
Toxaphene[a]	P39400,	. ,
2,4-D[a]	P39730,	. ,
2,4,5-TP Silvex[a]	P39045,	. ,
TTHM[a]	P82080,	. ,
	,	. ,
	,	. ,
TOTAL CYANIDE	mg/L ,	0.49 ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
Radium-226/228[b]	P11503,	. ,
Gross Alpha, Tot[b]	P01501,	. ,
— Count Error[b]	P01502,	. ,
Beta Activity[b]	P03501,	. ,
Cesium-134[b]	P28414,	. ,
Iodine-131[b]	P28301,	. ,
Strontium-90/89[b]	P01082,	. ,
Tritium[b]	P82126,	. ,
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 04/20/88

Analyst DHO, ~~RVB~~

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 322
SPECIMEN NO.

04/20/88
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 TEI PAD EXP 1 WEST

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 04/19/88 Sample Time 0730

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
Arsenic +	P01002,	. ,
Barium +	P01007,	. ,
Cadmium +	P01027,	. ,
Chromium +	P01034,	. ,
Lead +	P01051,	. ,
Mercury +	P71900,	. ,
Nitrate(N)	P00620,	. ,
Selenium +	P01147,	. ,
Silver +	P01077,	. ,
Fluoride	P00951,	. ,
	,	. ,
Alkalinity	P00410,	. ,
Calcium	P00916,	. ,
Chloride	P00940,	. ,
Copper +	P01042,	. ,
Hardness	P00900,	. ,
Iron +	P01045,	. ,
Magnesium	P00927,	. ,
Manganese +	P01055,	. ,
pH	P00403,	. ,
Sodium	P00929,	. ,
Sulfate	P00945,	. ,
TDS	P00500,	. ,
Zinc +	P01092,	. ,

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Endrin[a]	P39390,	. ,
Lindane[a]	P39782,	. ,
MethoxyChlor[a]	P39480,	. ,
Toxaphene[a]	P39400,	. ,
2,4-D[a]	P39730,	. ,
2,4,5-TP Silvex[a]	P39045,	. ,
TTHM[a]	P82080,	. ,
	,	. ,
	,	. ,
TOTAL CYANIDE mg/L	,	< 0.01 ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
Radium-226/228[b]	P11503,	. ,
Gross Alpha, Tot[b]	P01501,	. ,
— Count Error[b]	P01502,	. ,
Beta Activity[b]	P03501,	. ,
Cesium-134[b]	P28414,	. ,
Iodine-131[b]	P28301,	. ,
Strontium-90/89[b]	P01082,	. ,
Tritium[b]	P82126,	. ,
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 04/20/88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 300
SPECIMEN NO.

04/18/88
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 PAD EXP #1 EAST

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 04/14/88 Sample Time 0515

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	mg/L,	< 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 04/19/88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 299
SPECIMEN NO.

04/14/88
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 PAD EXP 1 WEST

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 04/12/88 Sample Time 0509

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 mg/L,		< 0 . 0 1 ,
	,	. ,		,	. ,
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 04/19/88

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 275
SPECIMEN NO.

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 CITY OF TOMBSTONE WELL 1

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 04/06/88 Sample Time 0755

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,	< 0 . 0 0 1 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	8 . 2 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,	TOTAL CYANIDE	mg/L,	< 0 . 0 1 ,
Fluoride	P00951,	. ,	FREE CYANIDE	mg/L,	< 0 . 0 1 ,
	,	. ,		,	. ,
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 04/13/88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 272
SPECIMEN NO.

04/06/88
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 LAD TAP H20

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 04/06/88 Sample Time 0700

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
Arsenic +	P01002,	. ,
Barium +	P01007,	. ,
Cadmium +	P01027,	. ,
Chromium +	P01034,	. ,
Lead +	P01051,	. ,
Mercury +	P71900,	< 0 . 0 0 1 ,
Nitrate(N)	P00620,	8 . 7 ,
Selenium +	P01147,	. ,
Silver +	P01077,	. ,
Fluoride	P00951,	. ,
	,	. ,
Alkalinity	P00410,	. ,
Calcium	P00916,	. ,
Chloride	P00940,	. ,
Copper +	P01042,	. ,
Hardness	P00900,	. ,
Iron +	P01045,	. ,
Magnesium	P00927,	. ,
Manganese +	P01055,	. ,
pH	P00403,	. ,
Sodium	P00929,	. ,
Sulfate	P00945,	. ,
TDS	P00500,	. ,
Zinc +	P01092,	. ,

*Units are mg/l unless otherwise noted.

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Endrin[a]	P39390,	. ,
Lindane[a]	P39782,	. ,
MethoxyChlor[a]	P39480,	. ,
Toxaphene[a]	P39400,	. ,
2,4-D[a]	P39730,	. ,
2,4,5-TP Silvex[a]	P39045,	. ,
TTHM[a]	P82080,	. ,
	,	. ,
	,	. ,
TOTAL CYANIDE	mg/L,	< 0 . 0 1 ,
FREE CYANIDE	mg/L,	< 0 . 0 1 ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
Radium-226/228[b]	P11503,	. ,
Gross Alpha, Tot[b]	P01501,	. ,
— Count Error[b]	P01502,	. ,
Beta Activity[b]	P03501,	. ,
Cesium-134[b]	P28414,	. ,
Iodine-131[b]	P28301,	. ,
Strontium-90/89[b]	P01082,	. ,
Tritium[b]	P82126,	. ,
Uranium[b]	P22706,	. ,

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

C[illegible] of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 04/20/88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 273
SPECIMEN NO.

04/06/88
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 WELL #1

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 04/06/88 Sample Time 0720

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,	< 0 . 0 0 1 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate (N)	P00620,	2 . 8 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	TOTAL CYANIDE mg/L,		< 0 . 0 1 ,
	,	. ,	FREE CYANIDE mg/L,		< 0 . 0 1 ,
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 04/19/88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 274
SPECIMEN NO.

04/06/88
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 WELL #2

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 04/06/88 Sample Time 0735

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,	0.027 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	23.0 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	. ,		,	. ,
Fluoride	P00951,	. ,	TOTAL CYANIDE	mg/L ,	0.18 ,
	,	. ,	FREE CYANIDE	mg/L ,	0.02 ,
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 04/19/88

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 258
SPECIMEN NO.

04/04/88
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 PAD EXP 1 EAST

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 03/30/88 Sample Time 0505

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	mg/L,	< 0 . 0 1 ,
	,	. ,		,	. ,
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 04/05/88

Analyst DHO, RVB

KWS

Groundwater Quality Protection Permit
Self-Monitoring Report Form

LS 240
SPECIMEN NO.

03/30/88
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 PAD EXP 1 WEST

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 03/29/88 Sample Time 0505

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

Collected By: RVB, GL

ADHS Use Only

S C .

Parameter Name*	Stored Parameter Number	Laboratory Analysis Results	Parameter Name*	Stored 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 .0 1 ,
	,	. ,		,	. ,
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 04/05/88

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

15 239
SPECIMEN NO.

03/30/88
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 PAD EXP 1 EAST

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 03/25/88 Sample Time 0505

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

Parameter Code: P72019

Collected By: RVB, GL

ADHS Use Only

S C .

Parameter Name*	Stored Parameter Number	Laboratory Analysis Results	Parameter Name*	Stored 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
	,	. ,		,	.
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 04/05/88

Analyst DHO, RVB

Self-Monitoring Report Form

IS 219
SPECIMEN NO.

3/23/88
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 SOIL #120

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 soil

Sample Date 3/22/88 Sample Time _____

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,	2.15 ,
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 10/13/88

Analyst DHO, RVB

Kus

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 218
SPECIMEN NO.

3/23/88
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 SOIL #119

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 Soil

Sample Date 3/22/88 Sample Time _____

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,	0.99 ,
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 10/13/88

Analyst DHO, RVB

KWS

Groundwater Quality Protection Permit
Self-Monitoring Report Form

SPECIMEN NO. 214

DATE REC'D AT LAB 03/22/88

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 WASHED AGGREGATE

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 03/18/88 Sample Time 0500

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

Parameter Code: P72019

Collected By: RVB, GL

ADHS Use Only

S C

Parameter Name*	Stored Parameter Number	Laboratory Analysis Results	Parameter Name*	Stored 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,	0.03
	,	. ,		,	.
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 04/05/88

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 197
SPECIMEN NO.

03/22/88
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 PAD EXP 1 WEST

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 03/18/88 Sample Time 0500

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	mg/L ,	< 0 . 0 1 ,
	,	. ,		,	. ,
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 03/24/88

Analyst DHO, RVB

RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

LS 196
SPECIMEN NO.

03/21/88
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 PAD EXP 1 EAST

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 03/17/88 Sample Time 0511

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

Parameter Code: P72019

Collected By: RVB, GL

ADHS Use Only

S C .

Parameter Name*	Stored Parameter Number	Laboratory Analysis Results	Parameter Name*	Stored 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 . 0 1 ,
	,	. ,		,	. ,
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
1005 North Central
Phoenix, Arizona 85004

Comments: _____

Analysis Date 03/24/88

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 193
SPECIMEN NO.

03/16/88
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 Pad Exp 1 West

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 03/13/88 Sample Time 0500

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 mg/l
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	. ,		,	. ,
Chloride	P00940,	. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[h]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[h]	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[h]	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 03/21/88

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 183
SPECIMEN NO.

03/15/88
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 Pad Exp 1 West

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 03/10/88 Sample Time 0515

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
Arsenic +	P01002,	. ,
Barium +	P01007,	. ,
Cadmium +	P01027,	. ,
Chromium +	P01034,	. ,
Lead +	P01051,	. ,
Mercury +	P71900,	. ,
Nitrate(N)	P00620,	. ,
Selenium +	P01147,	. ,
Silver +	P01077,	. ,
Fluoride	P00951,	. ,
	,	. ,
Alkalinity	P00410,	. ,
Calcium	P00916,	. ,
Chloride	P00940,	. ,
Copper +	P01042,	. ,
Hardness	P00900,	. ,
Iron +	P01045,	. ,
Magnesium	P00927,	. ,
Manganese +	P01055,	. ,
pH	P00403,	. ,
Sodium	P00929,	. ,
Sulfate	P00945,	. ,
TDS	P00500,	. ,
Zinc +	P01092,	. ,

*Units are mg/l unless otherwise noted.

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Endrin[a]	P39390,	. ,
Lindane[a]	P39782,	. ,
MethoxyChlor[a]	P39480,	. ,
Toxaphene[a]	P39400,	. ,
2,4-D[a]	P39730,	. ,
2,4,5-TP Silvex[a]	P39045,	. ,
TTHM[a]	P82080,	. ,
	,	. ,
	,	. ,
Total Cyanide	,	< 0.01 mg/L
	,	. ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
Radium-226/228[b]	P11503,	. ,
Gross Alpha, Tot[b]	P01501,	. ,
— Count Error[b]	P01502,	. ,
Beta Activity[b]	P03501,	. ,
Cesium-134[b]	P28414,	. ,
Iodine-131[b]	P28301,	. ,
Strontium-90/89[b]	P01082,	. ,
Tritium[b]	P82126,	. ,
Uranium[b]	P22706,	. ,

[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 03/21/88

Analyst DHO, RVB

KWS

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS184
SPECIMEN NO.

03/15/88
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: Pad Exp 1 East

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: 03/14/88 Sample Time: 0515

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
Arsenic +	P01002,	. ,
Barium +	P01007,	. ,
Cadmium +	P01027,	. ,
Chromium +	P01034,	. ,
Lead +	P01051,	. ,
Mercury +	P71900,	. ,
Nitrate(N)	P00620,	. ,
Selenium +	P01147,	. ,
Silver +	P01077,	. ,
Fluoride	P00951,	. ,
	,	. ,
Alkalinity	P00410,	. ,
Calcium	P00916,	. ,
Chloride	P00940,	. ,
Copper +	P01042,	. ,
Hardness	P00900,	. ,
Iron +	P01045,	. ,
Magnesium	P00927,	. ,
Manganese +	P01055,	. ,
pH	P00403,	. ,
Sodium	P00929,	. ,
Sulfate	P00945,	. ,
TDS	P00500,	. ,
Zinc +	P01092,	. ,

*Units are mg/l unless otherwise noted.

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Endrin[a]	P39390,	. ,
Lindane[a]	P39782,	. ,
MethoxyChlor[a]	P39480,	. ,
Toxaphene[a]	P39400,	. ,
2,4-D[a]	P39730,	. ,
2,4,5-TP Silvex[a]	P39045,	. ,
TTHM[a]	P82080,	. ,
	,	. ,
	,	. ,
	,	. ,
Total Cyanide	,	< 0.01 mg,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
Radium-226/228[b]	P11503,	. ,
Gross Alpha, Tot[b]	P01501,	. ,
— Count Error[b]	P01502,	. ,
Beta Activity[b]	P03501,	. ,
Cesium-134[b]	P28414,	. ,
Iodine-131[b]	P28301,	. ,
Strontium-90/89[b]	P01082,	. ,
Tritium[b]	P82126,	. ,
Uranium[b]	P22706,	. ,

[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: 03/21/88

Analyst: DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 153
SPECIMEN NO.

02/25/88
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 East Pad Expansion

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 02/24/88 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,	. ,		,	. ,
Fluoride	P00951,	. ,	TOTAL CYANIDE	,	< 0.01 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 03/01/88

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 151
SPECIMEN NO.

02/18/88
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 PAD EXPANSION #1 WES

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 02/18/88 Sample Time 1500

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	,	0 . 0 1 ,
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 02/23/88

Analyst KWS KWS

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 149
SPECIMEN NO.

02/18/88
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 WELL # 2

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 02/18/88 Sample Time 0725

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,	0.020,	2,4,5-TP Silvex[a]	P39045,	,
Nitrate(N)	P00620,	31.5,	TTHM[a]	P82080,	,
Selenium ◆	P01147,	,		,	,
Silver ◆	P01077,	,	TOTAL CYANDIE	,	0.12,
Fluoride	P00951,	,	FREE CYANDIE	,	<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 03/24/88

Analyst DHO, RVB

IS 145
SPECIMEN NO.

Self-Monitoring Report Form

02/03/88
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 TEI LAB TAP

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 02/03/88 Sample Time 0730

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,	< 0 .0 0 1 ,	2,4,5-TP Silvex[a]	P39045,	.
Nitrate(N)	P00620,	7 .7 ,	TTHM[a]	P82080,	.
Selenium +	P01147,	. ,		. ,	.
Silver +	P01077,	. ,		,	.
Fluoride	P00951,	. ,	TOTAL CYANIDE	mg/L ,	< 0 .0 1
	,	. ,	FREE CYANIDE	mg/L ,	< 0 .0 1
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 03/24/88

Analyst DHO, RVB

KWS

LS 143
SPECIMEN NO.

Self-Monitoring Report Form

02/03/88
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 TEI WELL # 2

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 02/03/88 Sample Time 0750

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
Arsenic +	P01002,	. ,
Barium +	P01007,	. ,
Cadmium +	P01027,	. ,
Chromium +	P01034,	. ,
Lead +	P01051,	. ,
Mercury +	P71900,	0.020,
Nitrate(N)	P00620,	23.4,
Selenium +	P01147,	. ,
Silver +	P01077,	. ,
Fluoride	P00951,	. ,
	,	. ,
Alkalinity	P00410,	. ,
Calcium	P00916,	. ,
Chloride	P00940,	. ,
Copper +	P01042,	. ,
Hardness	P00900,	. ,
Iron +	P01045,	. ,
Magnesium	P00927,	. ,
Manganese +	P01055,	. ,
pH	P00403,	. ,
Sodium	P00929,	. ,
Sulfate	P00945,	. ,
TDS	P00500,	. ,
Zinc +	P01092,	. ,

*Units are mg/l unless otherwise noted.

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Endrin[a]	P39390,	.
Lindane[a]	P39782,	.
MethoxyChlor[a]	P39480,	.
Toxaphene[a]	P39400,	.
2,4-D[a]	P39730,	.
2,4,5-TP Silvex[a]	P39045,	.
TTHM[a]	P82080,	.
	. ,	.
	,	.
TOTAL CYANIDE	mg/L,	0.14
FREE CYANIDE	mg/L,	0.01
	,	.
	,	.
	,	.
	,	.
Radium-226/228[b]	P11503,	.
Gross Alpha, Tot[b]	P01501,	.
— Count Error[b]	P01502,	.
Beta Activity[b]	P03501,	.
Cesium-134[b]	P28414,	.
Iodine-131[b]	P28301,	.
Strontium-90/89[b]	P01082,	.
Tritium[b]	P82126,	.
Uranium[b]	P22706,	.

[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 03/24/88

Analyst DHO, RVB

LS 144
SPECIMEN NO.

Self-Monitoring Report Form

02/03/88
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 TEI WELL #1

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 02/03/88 Sample Time 0740

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
Arsenic +	P01002,	. ,
Barium +	P01007,	. ,
Cadmium +	P01027,	. ,
Chromium +	P01034,	. ,
Lead +	P01051,	. ,
Mercury +	P71900,	< 0 . 0 0 1 ,
Nitrate(N)	P00620,	2 . 2 ,
Selenium +	P01147,	. ,
Silver +	P01077,	. ,
Fluoride	P00951,	. ,
	,	. ,
Alkalinity	P00410,	. ,
Calcium	P00916,	. ,
Chloride	P00940,	. ,
Copper +	P01042,	. ,
Hardness	P00900,	. ,
Iron +	P01045,	. ,
Magnesium	P00927,	. ,
Manganese +	P01055,	. ,
pH	P00403,	. ,
Sodium	P00929,	. ,
Sulfate	P00945,	. ,
TDS	P00500,	. ,
Zinc +	P01092,	. ,

*Units are mg/l unless otherwise noted.

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Endrin[a]	P39390,	.
Lindane[a]	P39782,	.
MethoxyChlor[a]	P39480,	.
Toxaphene[a]	P39400,	.
2,4-D[a]	P39730,	.
2,4,5-TP Silvex[a]	P39045,	.
TTHM[a]	P82080,	.
	. ,	.
	,	.
TOTAL CYANIDE	mg/L ,	< 0 . 0 1
FREE CYANIDE	mg/L ,	< 0 . 0 1
	,	.
	,	.
	,	.
	,	.
Radium-226/228[b]	P11503,	.
Gross Alpha, Tot[b]	P01501,	.
— Count Error[b]	P01502,	.
Beta Activity[b]	P03501,	.
Cesium-134[b]	P28414,	.
Iodine-131[b]	P28301,	.
Strontium-90/89[b]	P01082,	.
Tritium[b]	P82126,	.
Uranium[b]	P22706,	.

[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 03/24/88

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

LS 146
SPECIMEN NO.

02/03/88
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 Tombstone well # 1

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 02/03/88 Sample Time 0810

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

Parameter Code: P72019

Collected By: RVB, GL

ADHS Use Only
S C

Parameter Name*	Stored Parameter Number	Laboratory Analysis Results
Arsenic ◆	P01002,	
Barium ◆	P01007,	
Cadmium ◆	P01027,	
Chromium ◆	P01034,	
Lead ◆	P01051,	
Mercury ◆	P71900,	< 0.001
Nitrate(N)	P00620,	8.6
Selenium ◆	P01147,	
Silver ◆	P01077,	
Fluoride	P00951,	
Alkalinity	P00410,	
Calcium	P00916,	
Chloride	P00940,	
Copper ◆	P01042,	
Hardness	P00900,	
Iron ◆	P01045,	
Magnesium	P00927,	
Manganese ◆	P01055,	
pH	P00403,	
Sodium	P00929,	
Sulfate	P00945,	
TDS	P00500,	
Zinc ◆	P01092,	

*Units are mg/l unless otherwise noted.

Parameter Name*	Stored Parameter Number	Laboratory Analysis Results
Endrin[a]	P39390,	
Lindane[a]	P39782,	
MethoxyChlor[a]	P39480,	
Toxaphene[a]	P39400,	
2,4-D[a]	P39730,	
2,4,5-TP Silvex[a]	P39045,	
TTHM[a]	P82080,	
Total Cyanide		< 0.01 mg/l
Free Cyanide		< 0.01 mg/l
Radium-226/228[b]	P11503,	
Gross Alpha, Tot[b]	P01501,	
— Count Error[b]	P01502,	
Beta Activity[b]	P03501,	
Cesium-134[b]	P28414,	
Iodine-131[b]	P28301,	
Strontium-90/89[b]	P01082,	
Tritium[b]	P82126,	
Uranium[b]	P22706,	

[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 03/10/88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

IS 124
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 STA 100

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 Soil

Sample Date 1/28/88 Sample Time _____

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,	0.32 ,
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:

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

Comments: _____

Analysis Date 10-13-88

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

18 111
SPECIMEN NO.

01/29/88
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 STA 70

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 01/28/88 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*	Stored Parameter Number	Laboratory Analysis Results	Parameter Name*	Stored Parameter Number	Laboratory Analysis Result
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	,	0.57 m
	,	. ,		,	.
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 03/29/8

Analyst DHO RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

LS 110
SPECIMEN NO.

01/29/88
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 STA 59

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 01/28/88 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*	Stored Parameter Number	Laboratory Analysis Results	Parameter Name*	Stored 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		1.05 mg
Alkalinity	P00410,				
Calcium	P00916,				
Chloride	P00940,				
Copper ◆	P01042,				
Hardness	P00900,				
Iron ◆	P01045,		Radium-226/228[b]	P11503,	
Magnesium	P00927,		Gross Alpha, Tot[b]	P01501,	
Manganese ◆	P01055,		— Count Error[b]	P01502,	
pH	P00403,		Beta Activity[b]	P03501,	
Sodium	P00929,		Cesium-134[b]	P28414,	
Sulfate	P00945,		Iodine-131[b]	P28301,	
TDS	P00500,		Strontium-90/89[b]	P01082,	
Zinc ◆	P01092,		Tritium[b]	P82126,	
			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 03/29/88

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

LS 108 01/29/88

Groundwater Quality Protection Permit
Self-Monitoring Report Form

LS 109
SPECIMEN NO.

01/29/88
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 STA 58

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 01/28/88 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*	Stored Parameter Number	Laboratory Analysis Results	Parameter Name*	Stored 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	,	0.12 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 03/29/88

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

LS 107
SPECIMEN NO.

01/29/88
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 STA 50

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 01/28/88 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*	Stored Parameter Number	Laboratory Analysis Results	Parameter Name*	Stored 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 .0 1 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 03/29/88

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

18 106
SPECIMEN NO.

01/29/88
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 STA 49

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 01/28/88 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*	Stored Parameter Number	Laboratory Analysis Results	Parameter Name*	Stored 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	,	5.0 0 mg
	,	. ,		,	.
Alkalinity	P00410,	. ,		,	.
Calcium	P00916,	. ,		,	.
Chloride	P00940,	. ,		,	.
Copper ◆	P01042,	. ,		,	.
Hardness	P00900,	. ,		,	.
Iron ◆	P01045,	. ,	Radium-226/228[b]	P11503,	.
Magnesium	P00927,	. ,	Gross Alpha, Tot[b]	P01501,	.
Manganese ◆	P01055,	. ,	— Count Error[b]	P01502,	.
pH	P00403,	. ,	Beta Activity[b]	P03501,	.
Sodium	P00929,	. ,	Cesium-134[b]	P28414,	.
Sulfate	P00945,	. ,	Iodine-131[b]	P28301,	.
TDS	P00500,	. ,	Strontium-90/89[b]	P01082,	.
Zinc ◆	P01092,	. ,	Tritium[b]	P82126,	.
			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 03/29/88

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

15 105
SPECIMEN NO.

01/29/88
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 STA 48

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 01/29/88 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*	Stored Parameter Number	Laboratory Analysis Results	Parameter Name*	Stored 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	,	1 . 1 0 m
	,	. ,		,	.
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 03/29/8

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

18 104
SPECIMEN NO.

01/29/88
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 STA 47

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 01/28/88 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*	Stored Parameter Number	Laboratory Analysis Results	Parameter Name*	Stored 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	,	1 .1 0 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 03/29/8

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

LS 103
SPECIMEN NO.

01/29/88
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 STA 46

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 01/28/88 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	,	2.36 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 03/29/88

Analyst DHO, RVB

Groundwater Quality Protection Permit

Self-Monitoring Report Form

TS 125
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 STA 101

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 Soil

Sample Date 1/28/88 Sample Time _____

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,	0.05 ,
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 10-13-88

Analyst DHO, RVB

Self-Monitoring Report Form

IS 126
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 STA 102

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 Soil

Sample Date 1/28/88 Sample Time _____

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
Arsenic +	P01002,	. ,
Barium +	P01007,	. ,
Cadmium +	P01027,	. ,
Chromium +	P01034,	. ,
Lead +	P01051,	. ,
Mercury +	P71900,	. ,
Nitrate(N)	P00620,	. ,
Selenium +	P01147,	. ,
Silver +	P01077,	. ,
Fluoride	P00951,	. ,
	,	. ,
Alkalinity	P00410,	. ,
Calcium	P00916,	. ,
Chloride	P00940,	. ,
Copper +	P01042,	. ,
Hardness	P00900,	. ,
Iron +	P01045,	. ,
Magnesium	P00927,	. ,
Manganese +	P01055,	. ,
pH	P00403,	. ,
Sodium	P00929,	. ,
Sulfate	P00945,	. ,
TDS	P00500,	. ,
Zinc +	P01092,	. ,

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Endrin[a]	P39390,	. ,
Lindane[a]	P39782,	. ,
MethoxyChlor[a]	P39480,	. ,
Toxaphene[a]	P39400,	. ,
2,4-D[a]	P39730,	. ,
2,4,5-TP Silvex[a]	P39045,	. ,
TTHM[a]	P82080,	. ,
	,	. ,
TOTAL CYANIDE	mg/L,	0.80 ,
FREE CYANIDE	mg/L,	. ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
Radium-226/228[b]	P11503,	. ,
Gross Alpha, Tot[b]	P01501,	. ,
— Count Error[b]	P01502,	. ,
Beta Activity[b]	P03501,	. ,
Cesium-134[b]	P28414,	. ,
Iodine-131[b]	P28301,	. ,
Strontium-90/89[b]	P01082,	. ,
Tritium[b]	P82126,	. ,
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 10/13/88

Analyst DHO, RVB

KWS

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 127
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 STA 105

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 Soil

Sample Date 1/28/88 Sample Time _____

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 10/13/88

Analyst DHO, RVB

HWS

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 101
SPECIMEN NO.

01/29/88
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 STA # 44

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 01/28/88 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 mg/L	,	0.81 ,
	,	,		,	,
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 03/24/88

Analyst DHO, RVB

KWS

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 102
SPECIMEN NO.

01/29/88
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 STA # 45

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 01/28/88 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 mg/L	,	0.27 ,
	,	. ,		,	. ,
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 03/24/88

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 100
SPECIMEN NO.

01/29/88
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 STA # 37

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 01/28/88 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 mg/L	,	0.19
	,	,		,	
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 03/24/88

Analyst DHO, RVB

RWS

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 112
SPECIMEN NO.

01/29/88
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 STA 71

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 01/28/88 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	mg/L ,	0.17 ,
	,	. ,		,	. ,
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 04/26/88

Analyst DHO, RVB

Kris

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 113
SPECIMEN NO.

01/29/88
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 STA 72

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 01/28/88 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
Arsenic +	P01002,	. ,
Barium +	P01007,	. ,
Cadmium +	P01027,	. ,
Chromium +	P01034,	. ,
Lead +	P01051,	. ,
Mercury +	P71900,	. ,
Nitrate(N)	P00620,	. ,
Selenium +	P01147,	. ,
Silver +	P01077,	. ,
Fluoride	P00951,	. ,
	,	. ,
Alkalinity	P00410,	. ,
Calcium	P00916,	. ,
Chloride	P00940,	. ,
Copper +	P01042,	. ,
Hardness	P00900,	. ,
Iron +	P01045,	. ,
Magnesium	P00927,	. ,
Manganese +	P01055,	. ,
pH	P00403,	. ,
Sodium	P00929,	. ,
Sulfate	P00945,	. ,
TDS	P00500,	. ,
Zinc +	P01092,	. ,

*Units are mg/l unless otherwise noted.

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Endrin[a]	P39390,	. ,
Lindane[a]	P39782,	. ,
MethoxyChlor[a]	P39480,	. ,
Toxaphene[a]	P39400,	. ,
2,4-D[a]	P39730,	. ,
2,4,5-TP Silvex[a]	P39045,	. ,
TTHM[a]	P82080,	. ,
	,	. ,
	,	. ,
TOTAL CYANIDE mg/L	,	0.88 ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
Radium-226/228[b]	P11503,	. ,
Gross Alpha, Tot[b]	P01501,	. ,
— Count Error[b]	P01502,	. ,
Beta Activity[b]	P03501,	. ,
Cesium-134[b]	P28414,	. ,
Iodine-131[b]	P28301,	. ,
Strontium-90/89[b]	P01082,	. ,
Tritium[b]	P82126,	. ,
Uranium[b]	P22706,	. ,

[a]Units are µg/l
[b]Units are pCi/l

Send 3 copies of completed form to:

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

Comments: _____

Analysis Date 04/26/88

Analyst DHO, RVB

RWS

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 114
SPECIMEN NO.

01/29/88
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 STA 83

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 01/28/88 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
Arsenic +	P01002,	. ,
Barium +	P01007,	. ,
Cadmium +	P01027,	. ,
Chromium +	P01034,	. ,
Lead +	P01051,	. ,
Mercury +	P71900,	. ,
Nitrate(N)	P00620,	. ,
Selenium +	P01147,	. ,
Silver +	P01077,	. ,
Fluoride	P00951,	. ,
	,	. ,
Alkalinity	P00410,	. ,
Calcium	P00916,	. ,
Chloride	P00940,	. ,
Copper +	P01042,	. ,
Hardness	P00900,	. ,
Iron +	P01045,	. ,
Magnesium	P00927,	. ,
Manganese +	P01055,	. ,
pH	P00403,	. ,
Sodium	P00929,	. ,
Sulfate	P00945,	. ,
TDS	P00500,	. ,
Zinc +	P01092,	. ,

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Endrin[a]	P39390,	. ,
Lindane[a]	P39782,	. ,
MethoxyChlor[a]	P39480,	. ,
Toxaphene[a]	P39400,	. ,
2,4-D[a]	P39730,	. ,
2,4,5-TP Silvex[a]	P39045,	. ,
TTHM[a]	P82080,	. ,
	,	. ,
	,	. ,
TOTAL CYANIDE mg/L,		1 . 3 2 ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
Radium-226/228[b]	P11503,	. ,
Gross Alpha, Tot[b]	P01501,	. ,
— Count Error[b]	P01502,	. ,
Beta Activity[b]	P03501,	. ,
Cesium-134[b]	P28414,	. ,
Iodine-131[b]	P28301,	. ,
Strontium-90/89[b]	P01082,	. ,
Tritium[b]	P82126,	. ,
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 04/26/88

Analyst DHO, RVB

KWS

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 115
SPECIMEN NO.

01/29/88
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 STA 84

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 01/28/88 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
Arsenic +	P01002,	. ,
Barium +	P01007,	. ,
Cadmium +	P01027,	. ,
Chromium +	P01034,	. ,
Lead +	P01051,	. ,
Mercury +	P71900,	. ,
Nitrate(N)	P00620,	. ,
Selenium +	P01147,	. ,
Silver +	P01077,	. ,
Fluoride	P00951,	. ,
	,	. ,
Alkalinity	P00410,	. ,
Calcium	P00916,	. ,
Chloride	P00940,	. ,
Copper +	P01042,	. ,
Hardness	P00900,	. ,
Iron +	P01045,	. ,
Magnesium	P00927,	. ,
Manganese +	P01055,	. ,
pH	P00403,	. ,
Sodium	P00929,	. ,
Sulfate	P00945,	. ,
TDS	P00500,	. ,
Zinc +	P01092,	. ,

*Units are mg/l unless otherwise noted.

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Endrin[a]	P39390,	. ,
Lindane[a]	P39782,	. ,
MethoxyChlor[a]	P39480,	. ,
Toxaphene[a]	P39400,	. ,
2,4-D[a]	P39730,	. ,
2,4,5-TP Silvex[a]	P39045,	. ,
TTHM[a]	P82080,	. ,
	,	. ,
	,	. ,
TOTAL CYANIDE	mg/L ,	8 . 7 7 ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
	,	. ,
Radium-226/228[b]	P11503,	. ,
Gross Alpha, Tot[b]	P01501,	. ,
— Count Error[b]	P01502,	. ,
Beta Activity[b]	P03501,	. ,
Cesium-134[b]	P28414,	. ,
Iodine-131[b]	P28301,	. ,
Strontium-90/89[b]	P01082,	. ,
Tritium[b]	P82126,	. ,
Uranium[b]	P22706,	. ,

[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 04/26/88

Analyst DHO, RVB

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 116
SPECIMEN NO.

01/29/88
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 STA 85

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 01/28/88 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 mg/L,		0.48 ,
	,	. ,		,	. ,
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 04/26/88

Analyst DHO, RVB
KWS

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 117
SPECIMEN NO.

01/29/88
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 STA 86

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 01/28/88 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 mg/L	,	0.40 ,
	,	. ,		,	. ,
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 04/26/88

Analyst DHO, RVB

KWS

Groundwater Quality Protection Permit
Self-Monitoring Report Form

IS 118
SPECIMEN NO.

01/29/88
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 STA 87

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 01/28/88 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 mg/L	,	0.74 ,
	,	. ,		,	. ,
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 04/26/88

Analyst DHO, RVB

Well Samples 1989

Groundwater Quality Protection Permit

Self-Monitoring Report Form
Arizona Department of Health Services

767301
SPECIMEN NO.

08/03/89
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 00002

Arizona Testing Laboratories
817 West Madison
Phoenix, Arizona 85007

ADHS Permit No. G-0020-02

Sample Location Tei Well #1

Facility Name & Mailing Address

PBR Minerals, Inc.
P.O. Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☒ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other

Sample Date 07/31/89 Sample Time 7:45 a.m.

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

Parameter Code: P72019

Collected By: Gary A. Lindroos

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,	< 0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	2.0 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,	Cyanide, Free	,	< 0.01 ,
Silver +	P01077,	. ,	Cyanide, Total	,	< 0.01 ,
Fluoride	P00951,	. ,	Potassium	,	2.5 ,
	,	. ,	Carbonate	,	0. ,
Alkalinity	P00410,	. ,	Bicarbonate	,	210. ,
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,	18. ,	Iodine-131[b]	P28301,	. ,
Sulfate	P00945,	30. ,	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

< = less than the detection limit given

Send 3 copies of completed form to:
Arizona Department of Health Services
Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
1005 North Central
Phoenix, Arizona 85004

Comments:
cc: City of Tombstone

Analysis Date 08/30/89

Analyst S. Hankins

Groundwater Quality Protection Permit

Self-Monitoring Report Form
Arizona Department of Health Services

658505
SPECIMEN NO.

06/09/89
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 0002

Arizona Testing Laboratories
817 West Madison
Phoenix, Arizona 85007

ADHS Permit No. G-0020-02

Sample Location TEI Well

Facility Name & Mailing Address

PBR Minerals, Inc.
Attn: Gary Lindroos
P. O. Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☒ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other

Sample Date 06/07/89 Sample Time 8:50 a.m.

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

Parameter Code: P72019

Collected By:

ADHS Use Only

SC.

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	0.013 ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	0.0052 ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	< 0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	2.4 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	< 0.02 ,	Cyanide, Total	,	< 0.01 ,
Fluoride	P00951,	. ,	Cyanide, Free	,	< 0.01 ,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	52. ,		,	. ,
Chloride	P00940,	12. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	14. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	7.9 ,	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

< = less than the detection limit given

Send 3 copies of completed form to:
Arizona Department of Health Services
Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments:

Analysis Date 07/17/89

Analyst

Groundwater Quality Protection Permit

Self-Monitoring Report Form
Arizona Department of Health Services

658506
SPECIMEN NO.

06/09/89
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 0002

Arizona Testing Laboratories
817 West Madison
Phoenix, Arizona 85007

ADHS Permit No. G-0020-02

Sample Location TEI Well #2

Facility Name & Mailing Address

PBR Minerals, Inc.
Attn: Gary Lindroos
P. O. Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☒ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other

Sample Date 06/07/89 Sample Time 9:15 a.m.

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

Parameter Code: P72019

Collected By:

ADHS Use Only

SC.

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	< 0.01 ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	0.0026 ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	0.019 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	25.7 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	< 0.02 ,	Cyanide, Total	,	0.14 ,
Fluoride	P00951,	. ,	Cyanide, Free	,	0.01 ,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	100. ,		,	. ,
Chloride	P00940,	48. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	29. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	7.4 ,	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

< less than the detection limit given

Send 3 copies of completed form to:
Arizona Department of Health Services
Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
1005 North Central
Phoenix, Arizona 85004

Comments:

Analysis Date 07/17/89

Analyst

Groundwater Quality Protection Permit

Self-Monitoring Report Form
Arizona Department of Health Services

658507
SPECIMEN NO.

06/09/89
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 0002

Arizona Testing Laboratories
817 West Madison
Phoenix, Arizona 85007

ADHS Permit No. G-0020-02

Sample Location Tombstone City Well #1

Facility Name & Mailing Address

PBR Minerals, Inc.
Attn: Gary Lindroos
P. O. Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☒ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other

Sample Date 06/07/89 Sample Time 11:00 a.m.

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

Parameter Code: P72019

Collected By:

ADHS Use Only

SC.

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	0.010 ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	0.0097 ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	< 0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	10.1 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	< 0.02 ,	Cyanide, Total	,	< 0.01 ,
Fluoride	P00951,	. ,	Cyanide, Free	,	< 0.01 ,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	76. ,		,	. ,
Chloride	P00940,	36. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	20. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	7.8 ,	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:
Arizona Department of Health Services
Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
205 North Central
Phoenix, Arizona 85004

Comments:

Analysis Date 07/17/89

Analyst [signature]

Groundwater Quality Protection Permit

Self-Monitoring Report Form
Arizona Department of Health Services

658508
SPECIMEN NO.

06/09/89
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 0002

Arizona Testing Laboratories
817 West Madison
Phoenix, Arizona 85007

ADHS Permit No. G-0020-02

Sample Location PBR Well #4

Facility Name & Mailing Address

PBR Minerals, Inc.
Attn: Gary Lindroos
P. O. Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☒ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other

Sample Date 06/07/89 Sample Time 11:30 a.m.

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

Collected By:

ADHS Use Only

SC.

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	< 0.01 ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	0.0050 ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	< 0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	8.7 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	< 0.02 ,	Cyanide, Total	,	0.01 ,
Fluoride	P00951,	. ,	Cyanide, Free	,	0.01 ,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	75. ,		,	. ,
Chloride	P00940,	62. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	23. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	8.3 ,	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:
Arizona Department of Health Services
Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
1005 North Central
Phoenix, Arizona 85004

Comments:

Analysis Date 07/17/89

Analyst KAD

Groundwater Quality Protection Permit

Self-Monitoring Report Form
Arizona Department of Health Services

658501
SPECIMEN NO.

06/09/89
DATE REC'D AT LAB

L[illegible]ame & Address — LAB ID NO. 0002

Arizona Testing Laboratories
817 West Madison
Phoenix, Arizona 85007

ADHS Permit No. G-0020-02

Sample Location TEI Well #1

Facility Name & Mailing Address

PBR Minerals, Inc.
Attn: Gary Lindroos
P. O. Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☒ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other

Sample Date 05/31/89 Sample Time 10:00 a.m.

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

Collected By:

ADHS Use Only

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Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	0.012 ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
[illegible]omium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	0.0052 ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	< 0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	2.4 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	< 0.02 ,	Cyanide, Total	,	< 0.01 ,
Fluoride	P00951,	. ,	Cyanide, Free	,	< 0.01 ,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	68. ,		,	. ,
Chloride	P00940,	6. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	14. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	7.8 ,	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

< [illegible]less than the detection limit given

Send 3 copies of completed form to:
Arizona Department of Health Services
Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
2005 North Central
Phoenix, Arizona 85004

Comments:

Analysis Date 07/17/89

Analyst RJD

Groundwater Quality Protection Permit

Self-Monitoring Report Form
Arizona Department of Health Services

658502
SPECIMEN NO.

06/09/89
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 0002

Arizona Testing Laboratories
817 West Madison
Phoenix, Arizona 85007

ADHS Permit No. G-0020-02

Sample Location TEI Well #2

Facility Name & Mailing Address

PBR Minerals, Inc.
Attn: Gary Lindroos
P. O. Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☒ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other

Sample Date 05/31/89 Sample Time 10:15 a.m.

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

Parameter Code: P72019

Collected By:

ADHS Use Only

SC.

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	0.011 ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
L[illegible] +	P01051,	0.017 ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	0.021 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	26. ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	< 0.02 ,	Cyanide, Total	,	0.13 ,
Fluoride	P00951,	. ,	Cyanide, Free	,	< 0.01 ,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	110. ,		,	. ,
Chloride	P00940,	46. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	29. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	7.4 ,	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

< [illegible]ess than the detection limit given

[illegible]end [illegible]opies of completed form to:
[illegible]izona Department of Health Services
[illegible]ffice of Waste and Water Quality Mgmt.
[illegible]ompliance Section
[illegible]oom 304
[illegible]05 North Central
[illegible]hoenix, Arizona 85004

Comments:

Analysis Date 07/17/89

Analyst [illegible]

Groundwater Quality Protection Permit

Self-Monitoring Report Form
Arizona Department of Health Services

658503
SPECIMEN NO.

06/09/89
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 0002

Arizona Testing Laboratories
817 West Madison
Phoenix, Arizona 85007

ADHS Permit No. G-0020-02

Sample Location Tombstone City Well #1

Facility Name & Mailing Address

PBR Minerals, Inc.
Attn: Gary Lindroos
P. O. Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☒ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other

Sample Date 05/31/89 Sample Time 2:15 p.m.

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

Parameter Code: P72019

Collected By:

ADHS Use Only

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Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	0.010	Endrin[a]	P39390,	.
Barium +	P01007,	.	Lindane[a]	P39782,	.
Cadmium +	P01027,	.	MethoxyChlor[a]	P39480,	.
Chromium +	P01034,	.	Toxaphene[a]	P39400,	.
Lead +	P01051,	0.010	2,4-D[a]	P39730,	.
Mercury +	P71900,	< 0.001	2,4,5-TP Silvex[a]	P39045,	.
Nitrate(N)	P00620,	9.9	TTHM[a]	P82080,	.
Selenium +	P01147,	.			.
Silver +	P01077,	< 0.02	Cyanide, Total		0.02
Fluoride	P00951,	.	Cyanide, Free		0.02
		.			.
Alkalinity	P00410,	.			.
Calcium	P00916,	74.			.
Chloride	P00940,	34.			.
Copper +	P01042,	.			.
Hardness	P00900,	.	Radium-226/228[b]	P11503,	.
Iron +	P01045,	.	Gross Alpha, Tot[b]	P01501,	.
Magnesium	P00927,	19.	— Count Error[b]	P01502,	.
Manganese +	P01055,	.	Beta Activity[b]	P03501,	.
pH	P00403,	7.7	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

< less than the detection limit given

Send 3 copies of completed form to:
Arizona Department of Health Services
Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
1005 North Central
Phoenix, Arizona 85004

Comments:

Analysis Date 07/17/89

Analyst

Groundwater Quality Protection Permit

Self-Monitoring Report Form
Arizona Department of Health Services

658504
SPECIMEN NO.

06/09/89
DATE REC'D AT LAB

Lab Name & Address — LAB ID NO. 0002

Arizona Testing Laboratories
817 West Madison
Phoenix, Arizona 85007

ADHS Permit No. G-0020-02

Sample Location PBR Well #4

Facility Name & Mailing Address

PBR Minerals, Inc.
Attn: Gary Lindroos
P. O. Box 370
Tombstone, Arizona 85638

SAMPLE COLLECTION INFORMATION

☒ Groundwater ☐ Vadose ☐ Waste Stream ☐ Pond
☐ Other

Sample Date 05/31/89 Sample Time 2:20 p.m.

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

Parameter Code: P72019

Collected By:

ADHS Use Only

SC.

Parameter Name*	Storet Parameter Number	Laboratory Analysis Results	Parameter Name*	Storet Parameter Number	Laboratory Analysis Results
Arsenic +	P01002,	< 0.01 ,	Endrin[a]	P39390,	. ,
Barium +	P01007,	. ,	Lindane[a]	P39782,	. ,
Cadmium +	P01027,	. ,	MethoxyChlor[a]	P39480,	. ,
Chromium +	P01034,	. ,	Toxaphene[a]	P39400,	. ,
Lead +	P01051,	< 0.002 ,	2,4-D[a]	P39730,	. ,
Mercury +	P71900,	< 0.001 ,	2,4,5-TP Silvex[a]	P39045,	. ,
Nitrate(N)	P00620,	8.0 ,	TTHM[a]	P82080,	. ,
Selenium +	P01147,	. ,		,	. ,
Silver +	P01077,	< 0.02 ,	Cyanide, Total	,	0.01 ,
Fluoride	P00951,	. ,	Cyanide, Free	,	0.01 ,
	,	. ,		,	. ,
Alkalinity	P00410,	. ,		,	. ,
Calcium	P00916,	81. ,		,	. ,
Chloride	P00940,	64. ,		,	. ,
Copper +	P01042,	. ,		,	. ,
Hardness	P00900,	. ,	Radium-226/228[b]	P11503,	. ,
Iron +	P01045,	. ,	Gross Alpha, Tot[b]	P01501,	. ,
Magnesium	P00927,	24. ,	— Count Error[b]	P01502,	. ,
Manganese +	P01055,	. ,	Beta Activity[b]	P03501,	. ,
pH	P00403,	8.2 ,	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

< less than the detection limit given

Send 3 copies of completed form to:
Arizona Department of Health Services
Office of Waste and Water Quality Mgmt.
Compliance Section
Room 304
205 North Central
Phoenix, Arizona 85004

Comments:

Analysis Date 07/17/89

Analyst [signature]