



Corporate Offices:
877 North 8th West, Riverton, WY 82501

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Shootaring Operations:
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September 16, 1996

Joseph J. Holonich, Chief
High Level Waste and Uranium
Recovery Projects Branch - MS-T-7-J-9
Division of Waste and Management
Office of Nuclear Materials
Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Re: License No. SUA-1371.
Docket No. 40-8698
Reclamation Plan - Second Response.

Dear Mr. Holonich:

Pursuant to phone conversations with Mr. James Parks, enclosed is additional data requested pertaining to a shallow water zone reported in the Kaiser study of May 1992.

I have included another cross section which illustrates the drilling and water levels during various periods. It is our opinion, that the shallow water zone is being recharged from run-off due to the existence of the dam and the unlined impoundment behind the dam. The data indicates an elevated level of water over the past 18 years in the shallow zone. The data also shows dryness in the holes in the area from drilling prior to dam construction.

The shallow zone could become beneficial, as it could be utilized in the environmental monitoring program for early detection of any possible seepage through the liner of the tailings impoundment.

As part of the environmental monitoring program, the company is prepared to reactivate, if possible, hole No. S-18 and monitor for quality and water level. If monitoring S-18 is not possible, a new well can be established near S-18.

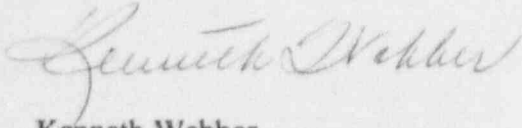
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Mr. J. J. Holonich
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Please contact me if you need any additional information.

Yours truly,



Kenneth Webber
Environmental Coordinator

Enclosures: Figure 1, Area Field Exploration and site plan.
Table XLS: Borings.
A-A Longitudinal Cross Section

cc: Mr. Mark T. Novak
Utah Dept. of Environmental Quality
Groundwater Protection Section
288 North 1460 West
Salt Lake City, UT 84114-4870

Mr. William Sinclair, Director
Division of Radiation Control
Dept. of Environmental Quality
168 North 1950 West
P.O. Box 144850
Salt Lake City, UT 84114-4850

BORINGS.XLS

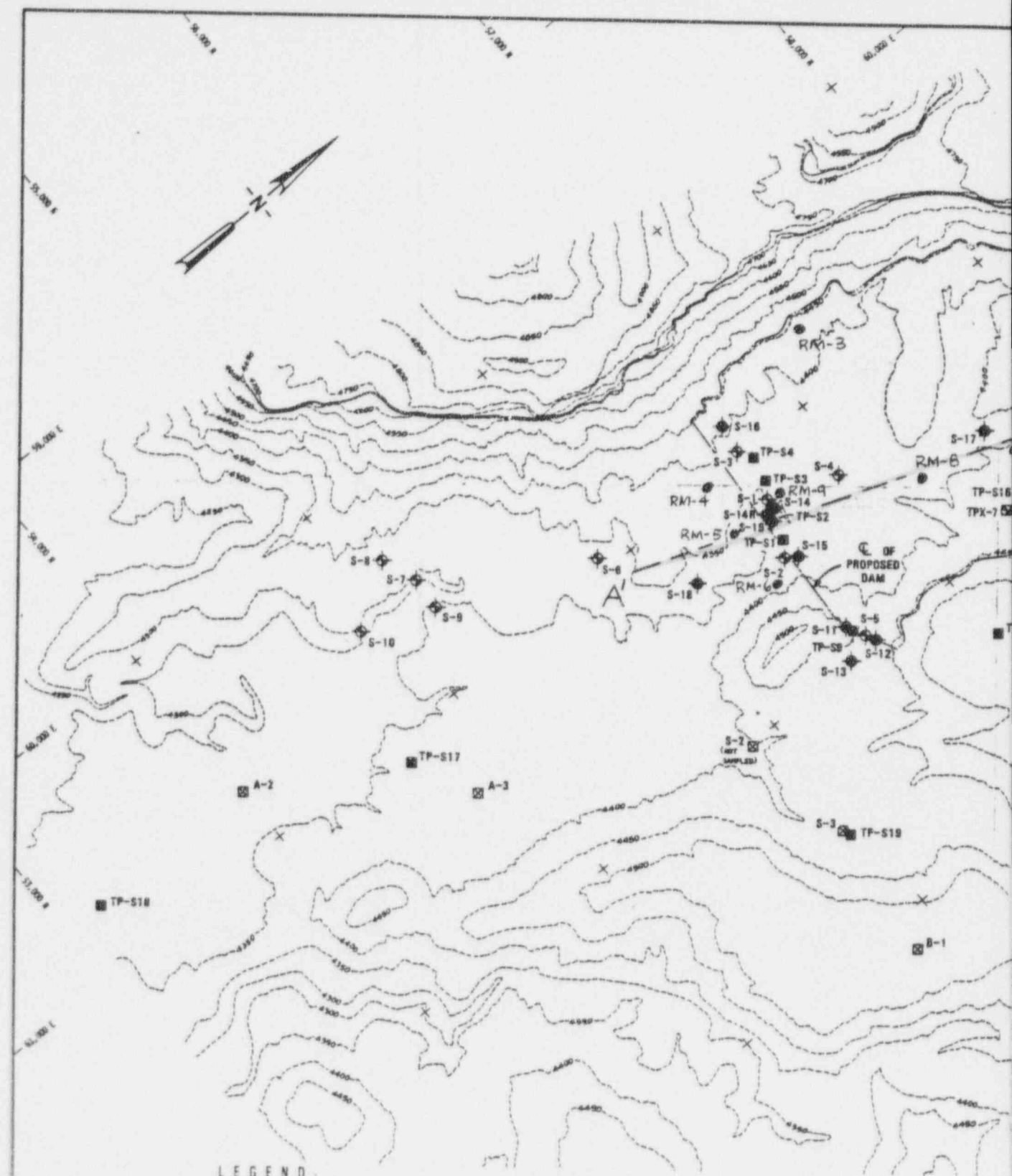
THE FOLLOWING IS A LIST OF WELLS DRILLED IN AND AROUND THE TAILINGS
IMPOUNDMENT DAM FOR SOILS AND GROUND WATER INFORMATION.

Parameter	S - 1	S - 2	S - 3	S - 4	S - 5	S - 6	S - 7	S - 8	S - 9	S - 10
Date Drilled	9/22-23/77	10/1/77	9/26-29/77	9/29-30/77	10/7/77	10/2/77	10/6/77	10/3-4/77	10/8/77	10/4-5/77
Surface Elevation	4350	4370	4380	4355 •	4425	4330	4300	4325	4350	4290
Bottom Elevation	4249.5	4289	4300	4274.5	4263.6	4258.2	4219.5	4275.5	4333.6	4240
Total Depth	100.5	81	80	80.5	61.4	71.8	80.5	49.5	16.4	50
Static Water Level										
Time of drilling	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
March 10, 1979										
April 1979										
November 1990										
March 12, 1992										
Drilled By:	Woodward - Clyde	Woodward - Clyde	Woodward - Clyde	Woodward - Clyde	Woodward - Clyde	Woodward - Clyde	Woodward - Clyde	Woodward - Clyde	Woodward - Clyde	Woodward - Clyde

Parameter	S - 11	S - 12	S - 13	S - 14	S - 14R	S - 15	S - 16	S - 17	S - 18	S - 19
Date Drilled	3/6/79	3/6/79	3/5/79	2/13/79	2/26/79	2/12/79	2/16/79	3/1/79	2/20/79	2/27/79
Surface Elevation	4425	4425	4420	4358	4358	4371	4405	4375	4339	4358
Bottom Elevation	4392.5	4397.5	4359	4306	4312	4289.7	4343.75	4313.5	4186.5	4296.5
Total Depth	32.5	27.5	61	52	46	81.3	61.25	61.5	152.5	61.5
Static Water Level										
Time of drilling	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
March 10, 1979								4346	4285.5	
April 1979										
November 1990										
March 12, 1992										
Drilled By:	Woodward - Clyde	Woodward - Clyde	Woodward - Clyde	Woodward - Clyde	Woodward - Clyde	Woodward - Clyde	Woodward - Clyde	Woodward - Clyde	Woodward - Clyde	Woodward - Clyde

BORINGS.XLS

Parameter	RM - 1	RM - 4	RM - 5	RM - 6	RM - 7	RM - 8	RM - 9
Date Drilled	Apr-79	Apr-79	Apr-79	Apr-79	Mar-92	Mar-92	Mar-92
Surface Elevation	4453	4380	4347	4372	4393	4378	4364
Bottom Elevation	3965	3875	3907	3915			
Total Depth	488	505	440	457	?	?	?
Static Water Level							
Time of drilling							
March 10, 1979							
April 1979	4273	4240	4240	4240			
November 1990	4273	4240	4241	4240			
March 12, 1992	4269	4241	4240	4238	4256	4323	4304
March 21, 1996		4240.7	4239.4	438.7			
SEPT. 12, 1996					4258	4325	4308
Drilled By:	Woodward - Clyde	Woodward - Clyde	Woodward - Clyde	Woodward - Clyde	KAISER	KAISER	KAISER



LEGEND

- ◆ TEST BORING LOCATION - FINAL DESIGN
- TEST PIT LOCATION - FINAL DESIGN
- ◆ TEST BORING LOCATION
- TEST PIT LOCATION
- CONCRETE AGGREGATE SAMPLE LOCATION

(NOTE: SAMPLE HC-1 TAKEN FROM THE UTAH HIGHWAY DEPARTMENT BORROW SITE AT HANSEN CREEK NEAR THE HANSEN CREEK BRIDGE.)

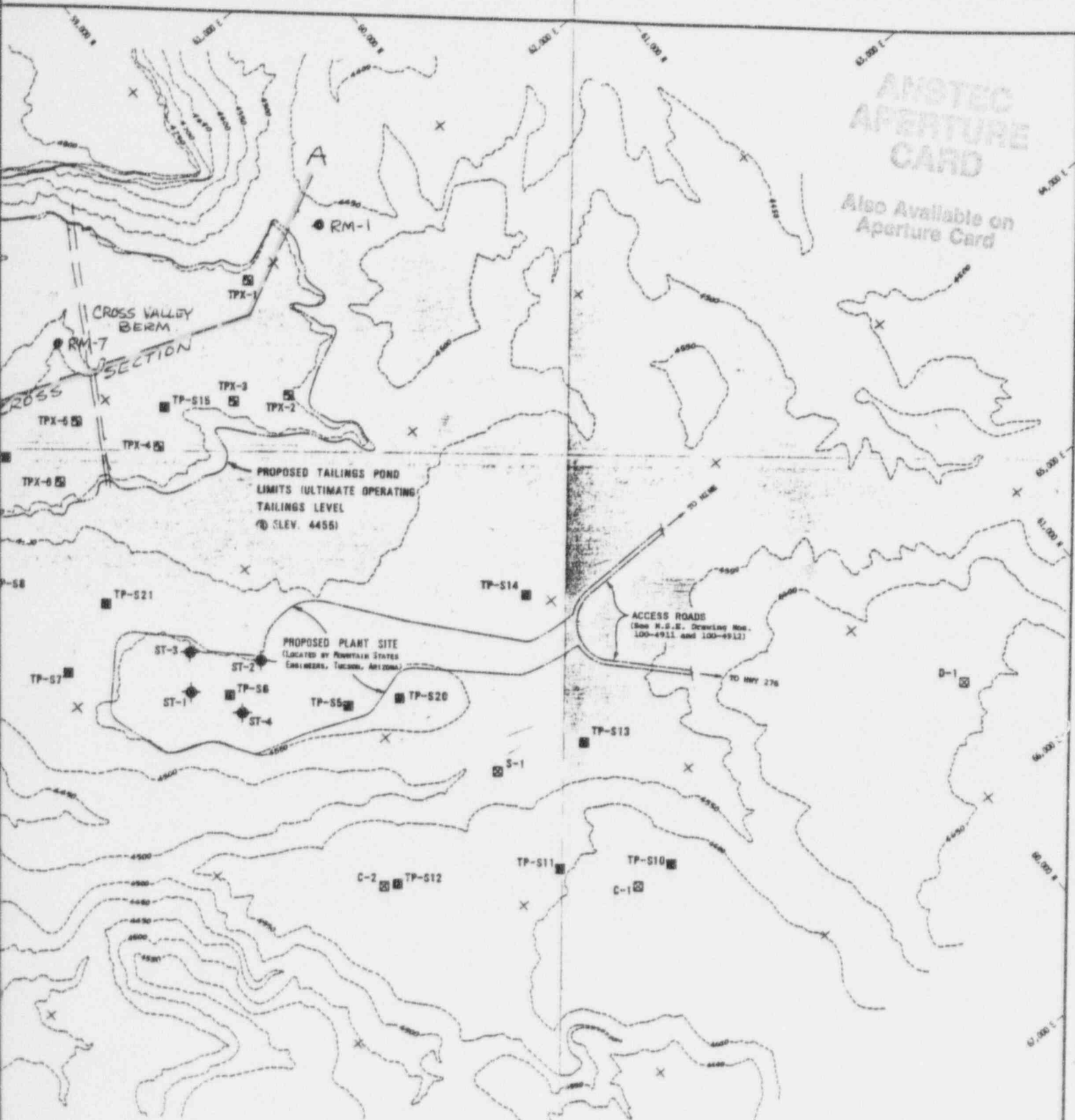
SEE WCC
REPORT DATED
SEPT. 1978

NOTE

LOCATIONS OF BORINGS AND
TEST PITS ARE APPROXIMATE

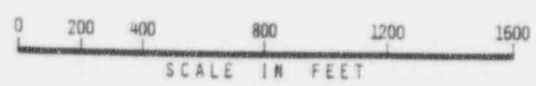
REFERENCE:

TOPOGRAPHY FROM AIR PHOTO SURVEYS AND
ENGINEERING, INC., GRAND JUNCTION, CO.



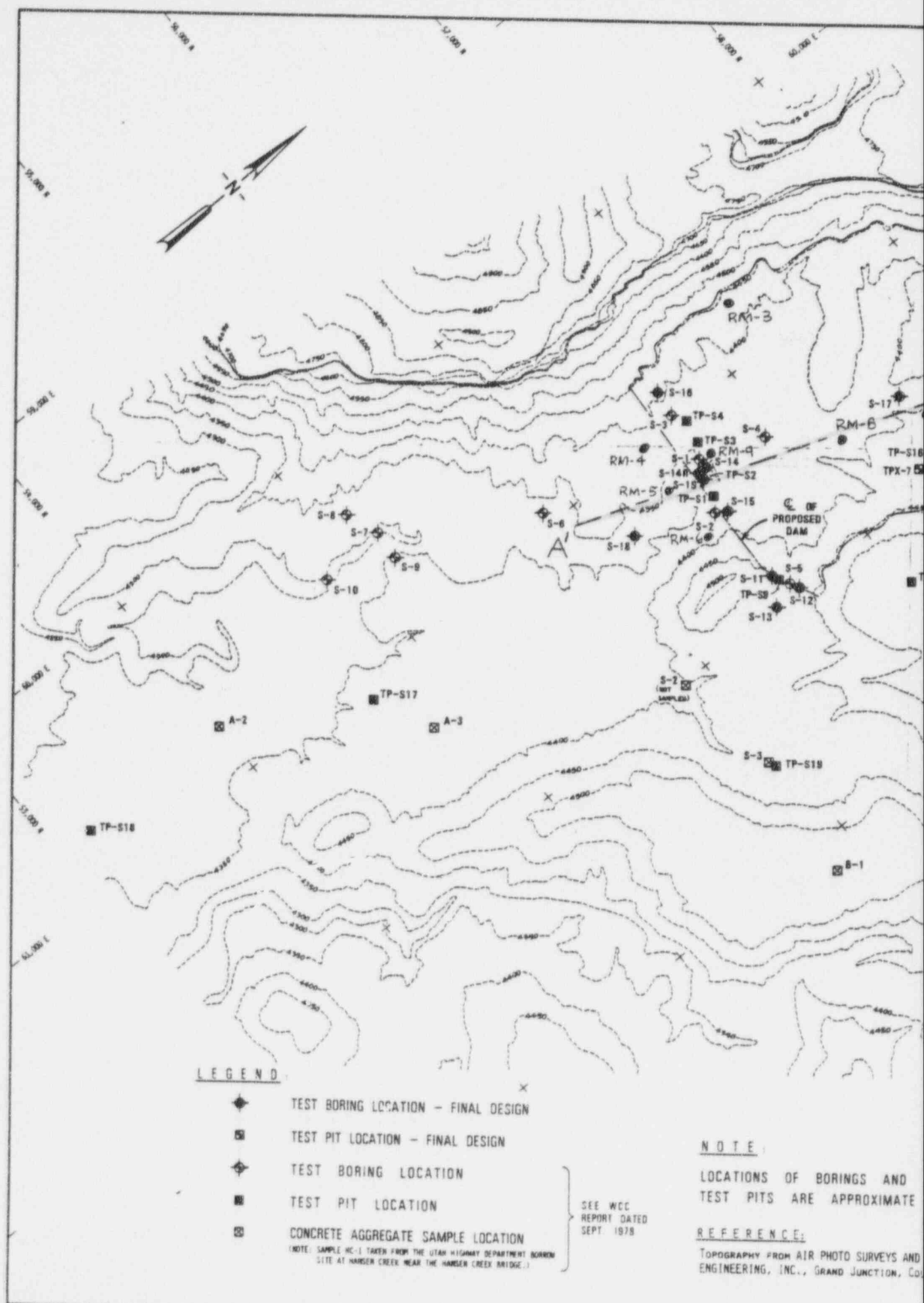
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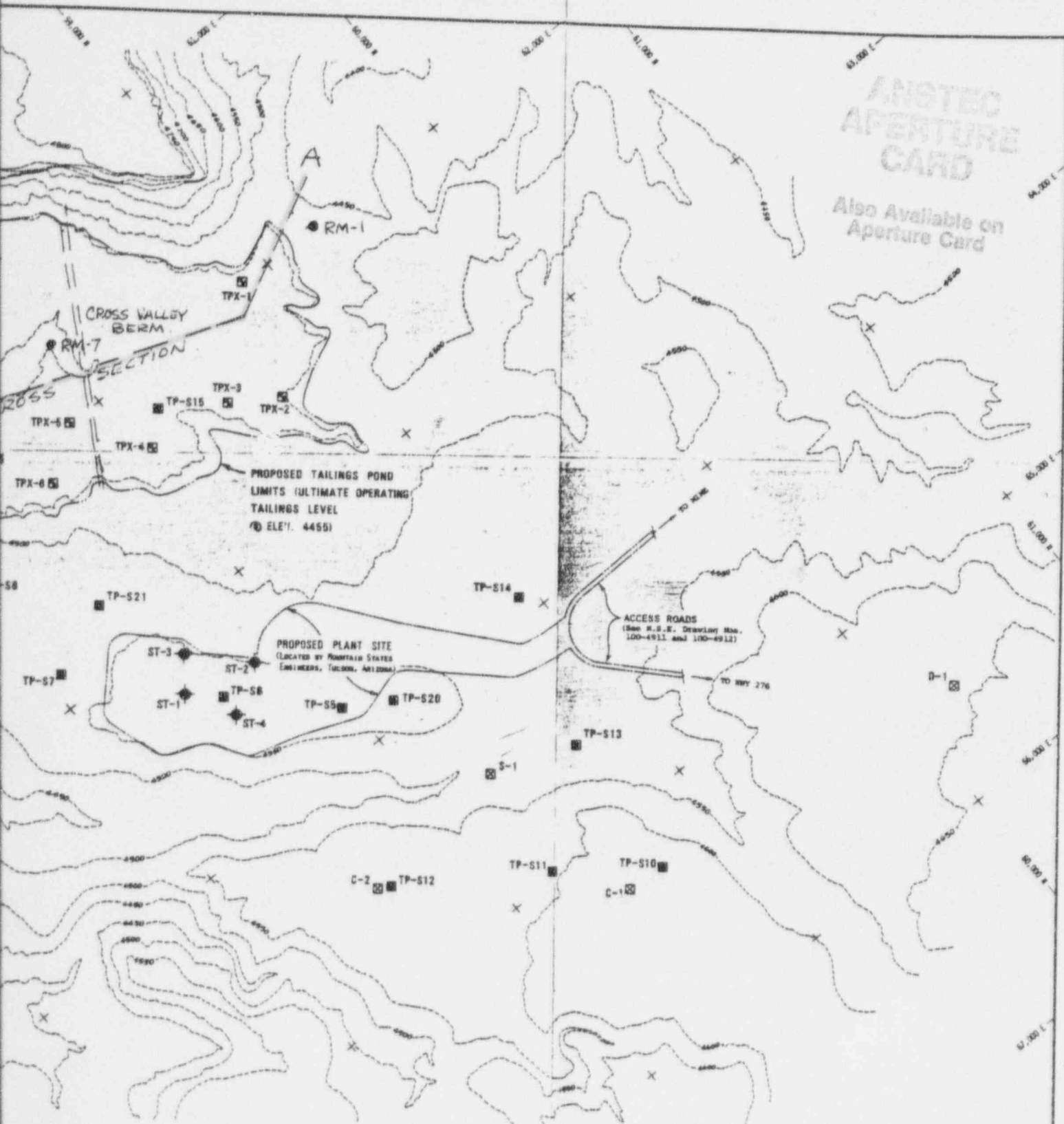
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	9/13/96	RM HOLES - K. Webber	
1	6-23-82	No AS-BUILT Changes	BBG
NO.	DATE	REVISIONS	BY
R.E. NO.	1933	APPROVED:	
DATE:	5-24-79	<u>Richard B. Jordan</u>	

FIELD EXPLORATION & SITE PLAN PLATEAU RESOURCES LIMITED SHOOTING CANYON URANIUM PROJECT Garfield County, Utah	
Project No. 60255J Woodward-Clyde Consultants	Figure 1





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SCALE IN FEET



9/13/86		RM HOLES - K. Webber		
1	6-23-82	No AS-BUILT Changes		SSG
No.	DATE	REVISIONS		By
R.E. NO.	1933	APPROVED:		
DATE:	5-24-79	<i>Demetrius B. Jordan</i>		

FIELD EXPLORATION & SITE PLAN
PLATEAU RESOURCES LIMITED
 SHOOTING CANYON URANIUM PROJECT
 Garfield County, Utah

Project No. 60255J
Woodward-Clyde Consultants

Figure 1



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September 17, 1996

Mr. Mark T. Novak
Dept. of Environmental Quality
Division of Water Quality
Groundwater Protection Section
P.O. Box 144870
Salt Lake City, UT 84114-4870

Re: Shootaring Canyon Uranium Mill.

Dear Mr. Novak:

It is our understanding that you have received the copy from Mr. Loren Morton, of the Utah Division of Radiation Control, of our application for full operation of the Shootaring Canyon Uranium Processing Facility which was filed with the NRC. If in your review you find the documents not complete, please advise.

I am including herein a copy of our first response to the NRC covering some items that were requested by the NRC and other items we thought had to be upgraded.

Also contained herein is response No. 2 which addresses information requested by the NRC regarding the shallow water table beneath the tailings impoundment.

We have taken major steps in eliminating as much run-off and other liquid entering the impoundment as possible. As noted in our first response, run-off diversion ditches are planned for the areas adjacent to the impoundment thereby directing the water to the main drainage below the dam. The original plan also call for a drainage and collection system in the tailing cells to control any seepage, if in fact seepage occurs, and to provide for the phased

Mr. Novak
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reclamation. The clay liner is functioning as designed as noted by test results in the Kaiser study, which is included in the application in Appendix "D".

At the proper time we would appreciate your determination if a groundwater discharge permit will be required.

Please contact me if you need any additional information or clarification of any part of the information heretofore submitted.

Yours truly,

Kenneth Webber
Environmental Coordinator

Enc. Response No. 1 to the NRC
Response No. 2 to the NRC

cc: Mr. William Sinclair, Director
Division of Radiation Control
Dept. of Environmental Quality
168 North 1950 West
P.O. Box 144850
Salt Lake City, UT 84114-4850

Noel Savignac, RSO
6100 Uptown Blvd., Suite 700
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Mr. James R. Park
High Level Waste and Uranium Recovery
Projects Branch
Nuclear Regulatory Commission
11545 Rockville Pike
Rockville, MD 20850

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