

December 14, 1995

410-8968

MEMORANDUM TO: Joseph J. Holonich, Chief
HLUK/DWM/NMSS

FROM: William Ford
Hydrologic Transport Section
PAHB/DWM/NMSS

Chris McKenney
Performance Assessment Section
PAHB/DWM/NMSS

SUBJECT: TRIP REPORT OF 11/27-11/29/95 SITE TOUR OF PROPOSED
HYDRO RESOURCES, INC., IN-SITU LEACH FACILITY IN
CROWNPOINT, NEW MEXICO

On November 27, 1995, William Ford and Chris McKenney attended a public meeting at the offices of Mark, Adams, Rodey, Dickason, Sloan, Akin, and Robb (Suite 2200, 201 3rd St. NW, Albuquerque, New Mexico 87102). Other participants at this meeting were Mark Melizza and Ron Grant with Hydro Resources, Inc., and Steve Reed (a consultant to Hydro Resources, Inc.). No other members of the public attended. This meeting lasted for 3 hours, during which, the Hydro Resources, Inc., ground water flow model, and related concerns were discussed.

On November 28 and 29, 1995, William Ford and Chris McKenney attended a site tour of the proposed in-situ mining facilities near Crownpoint, New Mexico. The tour participants were the same as the meeting of November 27, 1995. Again, no other members of the public attended. On November 28th, we toured the existing and proposed plant facilities at Crownpoint, a fault outcrop in Crownpoint, all the Crownpoint public water well locations, future proposed Crownpoint well field locations, a proposed location for replacement wells for the Crownpoint water wells, and part of the Unit 1 properties. On November 29th, we toured existing well locations on the Churchrock property and the Unit 1 property; including the old Mobile Oil Company well field and the proposed processing facility location. We also toured the Churchrock property including the location of existing test wells, future well field and processing plant locations, and the existing mine shaft locations.

Attached to this trip report are five data sheets on water quality analysis from the town of Crownpoint water supply wells that we obtained from Hydro Resources, Inc., on this tour. These data sheets are titled as follows:

Well CP-NTUA-1 Report Date: October 9, 1990.
Well CP-NTUA-2 Report Date: October 9, 1990.
Well CP-BIA-6 Report Date: October 9, 1990.
Well CP-BIA-3&5 Report Date: October 9, 1990.
Well CP-NTUA-1 Sampled May 10, 1993, sample collection.
Well CP-NTUA-1 Sampled May 10, 1993, lab report.

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DOCUMENT NAME: S:\DWM\PAHB\WHF\CPTRIP1.CAM

OFC	PAHB	PAHB	PAHB	E	PAHB	E	PAHB
NAME	WFord/fj	CMckenney	DBrooks		NEisenberg	NAE	JAustin
DATE	12/15/95	12/14/95	12/14/95		12/14/95		12/14/95

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IG: YES ☐ NO ☒

LSS: YES ☐ NO ☒

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GROUND WATER ANALYSIS REPORT-IN SITU MINING-URANIUM

COMPANY: URI, INC.

* REPORT DATE: OCTOBER 9, 1990

IDENTIFICATION: CROWNPOINT

CP-B1A-3&5 RECEIVED 9-10-90

LABORATORY: JORDAN LABORATORIES, INC.

MAJOR AND SECONDARY CONSTITUENTS

ITEM	STORET	MG/L	EPM	CONDUCTANCE	%EPM
CALCIUM(CA)	00915	9.2	0.46	23.92	7.58
MAGNESIUM(MG)	00925	4.5	0.37	17.24	6.10
SODIUM(NA)	00929	119	5.18	253.30	65.34
POTASSIUM(K)	00937	2.3	0.06	4.32	0.99

TOTAL CATION 6.07

CARBONATE(CO3)	00445	1	0.03	2.54	0.48
BICARBONATE(HCO3)	00440	249	4.08	177.89	65.38
SULFATE(SO4)	00945	98	2.04	150.76	32.69
CHLORIDE(CL)	00940	3.2	0.09	6.83	1.44
NITRATE(NO3-N)	71851	0.02			
FLUORIDE(F)	00951	0.34			
SILICA(SIO2)	00955	20			
			TOTAL	636.80	

TOTAL ANION 6.24

TOTAL ION 507

ACCURACY CHECK

RANGE

TDS(180 C)	70300	406	ION	0.973	(.96 TO 1.04)
TOT ION-0.5 HCO3=		382	TDS	1.063	(.90 TO 1.10)
EC(25 C)	00095	603 UMHOS	EC	1.020	(.95 TO 1.05)
EC(DIL)= 96.9 X 6.7 =		649 UMHOS	RADIATION-PICOCURIES/LITER		
ALK. AS CaCO3	00410	206	GROSS ALPHA	+/-	
PH		8.33	GROSS BETA	+/-	
			RADIUM 226	0.6 +/-	0.1

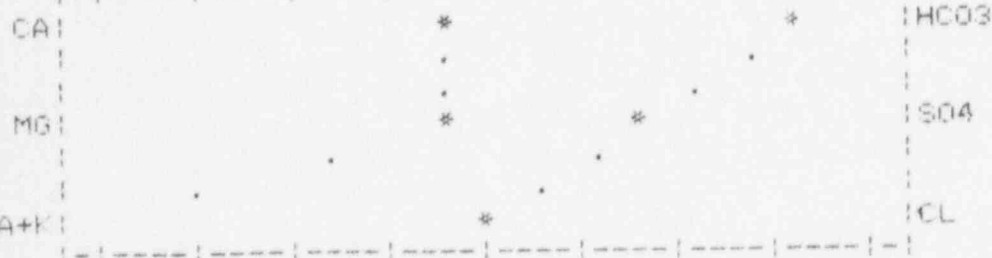
MINOR AND TRACE CONSTITUENTS

ITEM	MG/L	ITEM	MG/L	ITEM	MG/L
ARSENIC(AS)	<0.001	MANGANESE(MN)	0.01	VANADIUM(V)	<0.01
BARIUM(BA)	0.05	MERCURY(HG)	<0.0001	ZINC(ZN)	<0.01
CADMIUM(CD)	<0.0001	MOLY.(MO)	<0.01	BORON(B)	0.07
CHROM.(CR)	<0.01	NICKEL(NI)	<0.01	AMMONIA-N	<0.01
COPPER(CU)	<0.01	SELENIUM(SE)	<0.001		
IRON(Fe)	0.01	SILVER(AG)	<0.01		
LEAD(PB)	<0.001	URANIUM(U)	0.007		

%CATIONS

%ANIONS

80 60 40 20 0 20 40 60 80



ANALYST:

NIXON AND ALLEN

CHECKED BY:

LAB. NO: M28-7479

GROUND WATER ANALYSIS REPORT-IN SITU MINING-URANIUM

COMPANY: URI, INC.

REPORT DATE: OCTOBER 9, 1990

IDENTIFICATION: CROWNPOINT

CP-B1A-6 RECEIVED 9-10-90

LABORATORY: JORDAN LABORATORIES, INC.

MAJOR AND SECONDARY CONSTITUENTS

ITEM	STORET	MG/L	EPM	CONDUCTANCE	%EPM
CALCIUM(CA)	00915	1.8	0.09	4.68	1.81
MAGNESIUM(MG)	00925	0.14	0.01	0.47	0.20
SODIUM(NA)	00929	111	4.83	236.19	97.18
POTASSIUM(K)	00937	1.7	0.04	2.88	0.80

TOTAL CATION 4.97

CARBONATE(CO3)	00445	8	0.27	22.84	5.40
BICARBONATE(HCO3)	00440	223	3.65	159.14	73.00
SULFATE(SO4)	00945	49	1.02	75.38	20.40
CHLORIDE(CL)	00940	2.0	0.06	4.55	1.20
NITRATE(NO3-N)	71851	0.01			
FLUORIDE(F)	00951	0.27			
SILICA(SIO2)	00955	18			

TOTAL 506.13

TOTAL ANION 5.00

TOTAL ION 415

ACCURACY CHECK

RANGE

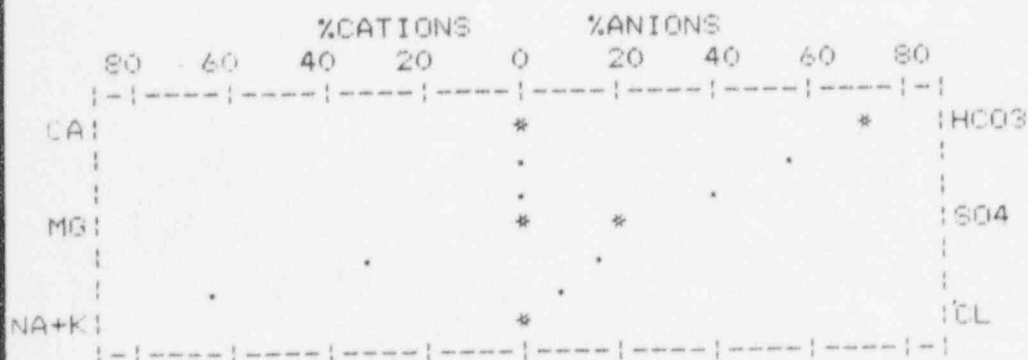
TDS(180 C)	70300	325	ION	0.994	(.96 TO 1.04)
TOT ION-0.5 HCO3=		303	TDS	1.071	(.90 TO 1.10)
EC(25 C)	00095	484 UMHOS	EC	1.012	(.95 TO 1.05)
EC(DIL)=102.4 X 5.0 =		512 UMHOS			
ALK. AS CaCO3	00410	197			
PH		8.70			

RADIATION-PICOCURIES/LITER

GROSS ALPHA	+/-
GROSS BETA	+/-
RADIUM 226	0.3 +/- 0.1

MINOR AND TRACE CONSTITUENTS

ITEM	MG/L	ITEM	MG/L	ITEM	MG/L
ARSENIC(AS)	<0.001	MANGANESE(MN)	<0.01	VANADIUM(V)	<0.01
BARIUM(BA)	0.06	MERCURY(HG)	<0.0001	ZINC(ZN)	<0.01
CADMIUM(CD)	<0.0001	MOLY.(MO)	<0.01	BORON(B)	0.05
CHROM.(CR)	<0.01	NICKEL(NI)	<0.01	AMMONIA-N	<0.01
COPPER(CU)	<0.01	SELENIUM(SE)	<0.001		
IRON(Fe)	<0.01	SILVER(AG)	<0.01		
LEAD(PB)	<0.001	URANIUM(U)	<0.001		



ANALYST:

NIXON AND ALLEN

CHECKED BY:

GROUND WATER ANALYSIS REPORT-IN SITU MINING-URANIUM

COMPANY: URI, INC.

REPORT DATE: OCTOBER 9, 1990

IDENTIFICATION: CROWNPOINT

CP-NTUA-1 RECEIVED 9-7-90

LABORATORY: JORDAN LABORATORIES, INC.

MAJOR AND SECONDARY CONSTITUENTS

ITEM	STORET	MG/L	EPM	CONDUCTANCE	%EPM
CALCIUM(CA)	00915	5.0	0.25	13.00	4.01
MAGNESIUM(MG)	00925	2.0	0.16	7.46	2.56
SODIUM(NA)	00929	131	5.70	278.73	91.35
POTASSIUM(K)	00937	4.9	0.13	9.36	2.08

TOTAL CATION 6.24

CARBONATE(CO3)	00445	17	0.57	48.22	9.00
BICARBONATE(HCO3)	00440	234	3.83	166.99	60.51
SULFATE(SO4)	00945	82	1.71	126.37	27.01
CHLORIDE(CL)	00940	7.7	0.22	16.70	3.48
NITRATE(NO3-N)	71851	0.01			
FLUORIDE(F)	00951	1.1			
SILICA(SIO2)	00955	10			

TOTAL 666.82

TOTAL ION 495 TOTAL ANION 6.33

ACCURACY CHECK

RANGE

TDS(180 C)	70300	402	ION	0.986	(.96 TO 1.04)
TOT ION-0.5 HCO3=		378	TDS	1.064	(.90 TO 1.10)
EC(25 C)	00095	625 UMHOS	EC	0.989	(.95 TO 1.05)
EC(DIL)= 98.4 X 6.7 =		659 UMHOS			
ALK. AS CaCO3	00410	220			
PH		8.79			

RADIATION-PICOCURIES/LITER

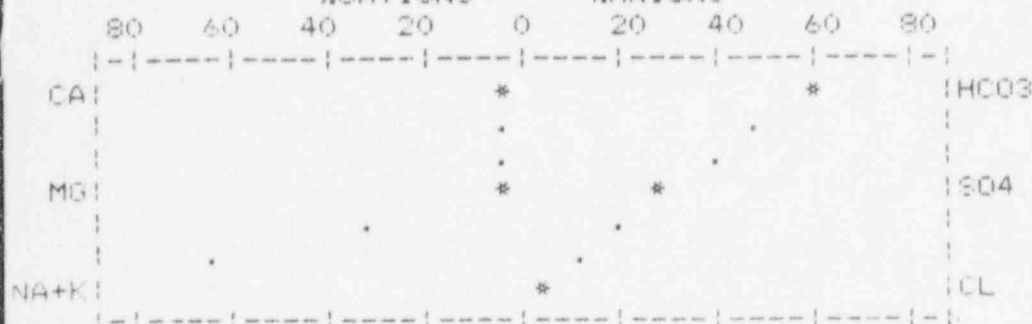
GROSS ALPHA	+/-
GROSS BETA	+/-
RADIUM 226	0.6 +/- 0.1

MINOR AND TRACE CONSTITUENTS

ITEM	MG/L	ITEM	MG/L	ITEM	MG/L
ARSENIC(AS)	<0.001	MANGANESE(MN)	0.01	VANADIUM(V)	<0.01
BARIUM(BA)	0.02	MERCURY(HG)	<0.0001	ZINC(ZN)	0.01
CADMIUM(CD)	0.0002	MOLY. (MO)	<0.01	BORON(B)	0.05
CHROM. (CR)	<0.01	NICKEL(NI)	<0.01	AMMONIA-N	<0.01
COPPER(CU)	<0.01	SELENIUM(SE)	<0.001		
IRON(Fe)	0.02	SILVER(AG)	<0.01		
LEAD(PB)	<0.001	URANIUM(U)	<0.001		

%CATIONS

%ANIONS



LAB. NO: M28-7421

GROUND WATER ANALYSIS REPORT-IN SITU MINING-URANIUM

COMPANY: URI, INC.

REPORT DATE: OCTOBER 9, 1990

IDENTIFICATION: CROWNPOINT

CP-NTUA-2 RECEIVED 9-7-90

LABORATORY: JORDAN LABORATORIES, INC.

MAJOR AND SECONDARY CONSTITUENTS

ITEM	STORET	MG/L	EPM	CONDUCTANCE	%EPM
CALCIUM(CA)	00915	1.3	0.06	3.12	1.12
MAGNESIUM(MG)	00925	0.08	0.01	0.47	0.19
SODIUM(NA)	00929	121	5.26	257.21	98.13
POTASSIUM(K)	00937	1.2	0.03	2.16	0.56

TOTAL CATION 5.36

CARBONATE(CO3)	00445	20	0.67	56.68	12.27
BICARBONATE(HCO3)	00440	221	3.62	157.83	66.30
SULFATE(SO4)	00945	52	1.08	79.81	19.78
CHLORIDE(CL)	00940	3.2	0.09	6.83	1.65
NITRATE(NO3-N)	71851	0.02			
FLUORIDE(F)	00951	0.32			
SILICA(SIO2)	00955	18			
			TOTAL	564.12	

TOTAL ANION 5.46

TOTAL ION

438

ACCURACY CHECK

RANGE

TDS(180 C)	70300	351	ION	0.982	(.96 TO 1.04)
TOT ION-0.5 HCO3=		328	TDS	1.071	(.90 TO 1.10)
EC(25 C)	00095	529 UMHOS	EC	0.979	(.95 TO 1.05)
EC(DIL)=110.4 X 5.0 =		552 UMHOS			
ALK. AS CaCO3	00410	215			
PH		8.91			

RADIATION-PICOCURIES/LITER

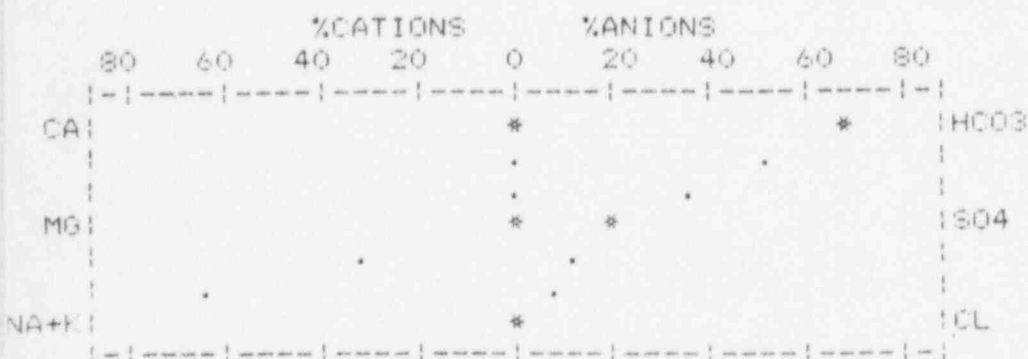
GROSS ALPHA +/-

GROSS BETA +/-

RADIUM 226 0.3 +/- 0.1

MINOR AND TRACE CONSTITUENTS

ITEM	MG/L	ITEM	MG/L	ITEM	MG/L
ARSENIC(AS)	<0.001	MANGANESE(MN)	<0.01	VANADIUM(V)	<0.01
BARIUM(BA)	0.05	MERCURY(HG)	<0.0001	ZINC(ZN)	0.01
CADMIUM(CD)	<0.0001	MOLY.(MO)	<0.01	BORON(B)	0.06
CHROM.(CR)	<0.01	NICKEL(NI)	<0.01	AMMONIA-N	<0.01
COPPER(CU)	<0.01	SELENIUM(SE)	<0.001		
IRON(Fe)	<0.01	SILVER(AG)	<0.01		
LEAD(PB)	0.002	URANIUM(U)	<0.001		



ANALYST:

NIXON AND ALLEN

CHECKED BY:

LAB. NO: M26-7422

JORDAN LABORATORIES, INCORPORATED
ANALYTICAL & ENVIRONMENTAL CHEMISTS
CORPUS CHRISTI, TEXAS
MAY 28, 1993

URI, INC.
12377 MERIT DRIVE, SUITE 1210, LB12
DALLAS, TEXAS 75251

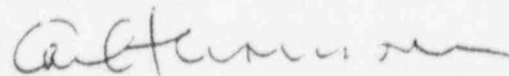
REPORT OF ANALYSIS

IDENTIFICATION: CROWNPOINT
NTUA #1 WATER
5-10-93

METHOD NUMBER		ANALYST	ANALYSIS DATE
EPA 600 160.1	TOTAL DISSOLVED SOLIDS (DRIED @ 180 DEG.C), MG/L - 327	T. STRAUSS	05-13-93
SM 7500-RA C	RADIUM 226, PCI/L ----- 0.3 COUNTING ERROR, PCI/L - +/- 0.1	D. STRAUSS	05-24-93

LAB. NO. M31-4044

RESPECTFULLY SUBMITTED,



CARL F. CROWNOVER

HRI, INC.

(A Subsidiary of Uranium Resources, Inc.)

5656 South Staples
Suite 250, LB 8
Corpus Christi, TX 78411
Telephone (512) 993-7731
Telecopy (512) 993-5744

12750 Merit Drive
Suite 1210, LB 12
Dallas, Texas 75251
Telephone: (214) 387-7777
Telecopy: (214) 387-7779
TWX: 910-867-4701

Post Office Box 777
Crown Point, New Mexico 87313
Telephone (505) 786-5845

05-10-93

Mr. Pelizza

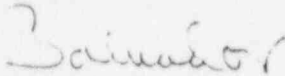
WATER SAMPLE FROM NTUA # 1 WELL AT CROWNPOINT, NM.

TEMP 33 DEGREES CENT. TIME 0915 AM 05-10-93
COND. 520
PH 8.1

METER READING AT WELL 700067705000

Mr. Jerry Silago of NTUA met me at well when I drew the sample.

Salvador



SMC/sm

cc: file