

RETURN ORIGINAL TO PDR, HQ

04008.786271E

40-8786

Raw field Data and Notes
taken at Uranium Resources
for initial samples and follow-up
Samples.

Dates of Sampling:

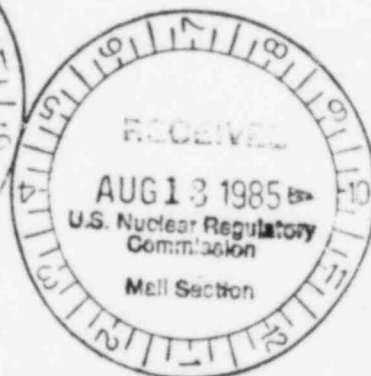
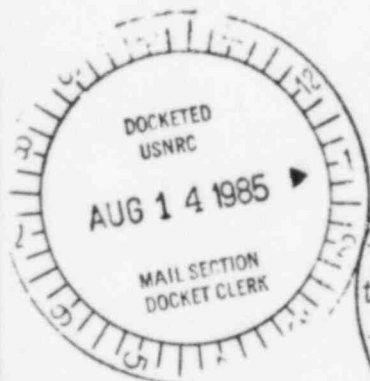
6/26/85

6/27/85

6/28/85

7/10/85

RYS



FEE EXEMPT

DESIGNATED ORIGINAL

Certified By Mary C. Hood

Add Info
00821

8509060285 850710
PDR ADOCK 04008786
C PDR

6/25/85 Cool (48°F) Cloudy - wind from SW @ 10-15 M.P.H.

U.R.I. - Meet Mark Perrygo & Jerry Oliver at Site. 10:15 AM.

U.R.I. personnel still making equip. adjustments
I Repaired M-Senge - put new line on - calibrated Conductivity meter & pH meter with #7 buffers. Both meters appear to be working O.K.

After wells have been pumped for a while (2-3 Casing Volumes). The pH & Conductivity will be checked for stability & then samples will be taken for guideline 8-Fall Suite from I-1-4 and MW-4. All samples will then be used down for preservation & temp. Mark obtained sample from west pond to ch. pH & Conductivity for checking U.R.I. equipment (meter).

Rained for 2 1/2 min. - Local Rancher stopped (Dick & Corby) by to see what was going on.

Took hydrolytic we might get wetland sample late P.M. Took water level measurement - 5 ft monitor well on west side.

pH of west pond 9.3 Conductivity 3790
pH of East pond 6.9

Began raining harder - 5 PM - Mark decided that equip. was questionable & cold rain - wait until early next morning.

Water level readings - 6/25/85
3:15 P.M. - 4:15 P.M.

(Caustic was applied to west pond to bring up pH (50#)
See notes on previous page.

Water levels - (all levels to be adjusted to Casing Top).

P-1 - 166' 4" - 2 ft to Casing (above casing)

I-1 - 166.0 - 3 ft to Casing

I-2 - dry - to be plugged.

I-3 - 164' 6"

I-4 - 166 ft 11"

SM-1 160' 11"

SM-2 148 ft 2" 1 ft to Casing

MW-1 147' 5"

MW-2 154' 8"

MW-3 163' 4"

MW-4 160' 0" 2 ft to Casing

MW-5 167' 8"

MW-6 159' 8"

BM-1 162' 4" 8" to Casing

all Samples Unfiltered.

- U. R. I. - for Sampling wells. Temp in 40's
- 6/26/85 - Wednesday - Still raining & wind from here - Jony in town to return pump bought yesterday. Mark sampling I-1 to ch. pH. Probably get Samples soon (by 9 or 10 AM). Hopefully.
- Took Sample for I-1 - for pH - from well head.
- 1). 6.6 - on Marks - 7.2
- 2). 2nd Sample from I-1 taken at 10:15 am prior to entering Rain Tank - 6.6 pH. - @ 10:15
- 3). Sample before then rain taken in p.c. 6.6 pH. after then rain - 6.8 pH.
- Mark called Harry A. - Mark will get new pH probe. Ready to go to well field (C) - waiting on order for 1st Sample. Conductivity meter appears to be doing o.k.
- Ready for building 8 in. Full Suite. Sampling - Not yet. H. 200 V R I. Sample bottles are in Jony's truck. Jony not here - will wait & wait & wait!!
- Mark & fuel level in diesel tank for generator.
- Needs fuel - Mark & I take tank (30 gal) to big diesel tank by well field. Bring back fuel & put in tank at generator. Mark called chemist in Houston for instruction for running some of Job tests. Still waiting for Jony - still raining & getting very muddy. Jony finally arrived. Ready to go to well field & start Conductivity readings - finally for sampling.

Conductivity was not taken adjusted for any readings

6/26/85

1:10 PM

Testing for pH & Conductivity

I-4 Conductivity - 295

pH - 6.50

I-3 Conductivity - 135

pH - 6.70

* I-2 Conductivity - 290

pH - 6.4

I-1 Conductivity - 310

pH - 6.6

MW-4 Conductivity - 405 - pH 7.2

Concluded at 1:30 PM.

2nd Sample for Conductivity & pH 1:45 PM.

* I-4 Cond - 300 pH - 6.5

135

I-3 Cond - 310 pH - 6.4

* I-2 Cond - 325 pH - 6.4

I-1 Cond - 310 pH - 6.6 (at 30 min)

MW-4 Cond 385 pH 8.2 (at 30 min)

Concluded at 2:10 PM.

3rd Sample for I-2 at 2:10 PM.

MW-4 (3rd Sample) Cond. 385 - pH 8.2

Guideline: 8 Sample taken beginning at 2 P.M. took sample into Douglas & wind down ~ 3:30 P.M. will return at 8 P.M. & take short sample from I will for Conductivity & pH. (begin at 8 P.M.)

Completed Sampling at 8:40 P.M. (begin at 8 P.M.)

1) I-1 Cond. 320 pH 6.5

I-2 Cond. 320 pH 6.3

I-3 Cond. 185 pH 6.4

I-4 Cond. 380 pH 6.4

Concluded at 9 P.M.

will return at ~ 2 P.M. for Sampling & Cond. & pH

6/27/85

2 AM Sampling

Began 2:05 P.M.

Completed Sampling at 2:15 A.M.

I-1 Cond. 340 pH 6.6

I-2 Cond. 330 pH 6.5

(I-2 pump had kicked off sometime between 9 & 2 am)

I-3 Cond. 210 pH 6.5

(I-4 pump had kicked off sometime between 9 & 2 am)

I-4 Cond. 345 pH 6.5

Concluded at 2:30 A.M. (w/ cond. & pH test)

will return at 8 AM to check Conductivity & pH. No Sampling at 8 AM. will allow more pumping time between samples.

Took samples back to motel & bed down.

arrived at well field at 8:10 Am. all pumps 6/27/85

had kicked off. Some malfunction either in generator output or in Elec. Control box. mark

activated pump but power surges from generator

caused breaker to kick off. Samples were taken

by Mark & I, took Conductivity & pH readings.

I-1 Cond. 340 pH 6.55

I-2 Cond. 335 pH 6.4

I-3 Cond. 150 pH 6.2

I-4 Cond. 355 pH 6.5

MW-4 Cond. 390 pH 8.2

No Cond or pH taken at 2 P.M.

Arrived at well field at 8 P.M.

8 P.M. - Samples taken from I-1/4 9 P.M.

Helped put together trailer for sampling. 6/27/85.

Conductivity + pH taken at 9:15.

I-1	Cond	360	pH	6.6
I-2	Cond	350	pH	6.4
I-3	Cond	145	pH	6.2
I-4	Cond	380	pH	6.5

Concluded at 9:25 P.M.

Returned to motel - ck. Rec on all samples

taken. Will take final sample

at 8 A.M. 6/28/85 + ck. Cond + pH

for all 4 dry wells + MW-4.

Arrived at well field at ~ 8:30 A.M. 6/28/85

No one around. Front gate locked (automobile)

office locked - went to well field + took

samples. * 2 well not running - dead on.

took conductivity + pH 3 wells + MW 4

I-1	Cond	385	pH	6.6
I-2	Cond	360	pH	6.5
I-3	Cond	150	pH	6.2
I-4	Cond	420	pH	6.6
MW-4	Cond	415	pH	8.0

To Chicago to drop off samples at
W QD Lab. Left well field 9:30 A.M.

7/10/85

V.R.I.

Weekly Sample. I-1 thru I-4 + MW-4

Re-sampled levels -

MW-1	-186' 11"
MW-2	-191' 6"
MW-3	-197' 7"
MW-4	-197' 8" - 196' ^{0.5} / ₂ Casing - Collar
MW-5	207' 7"
MW-6	198' 10"
SM-1	186' 11"
I-4	209' 4"
SM-2	148' 2" (1' 8" casing)
DM-1	168' 4"

(Could not get down
I-1, I-2 or I-3 for
water level)

Cond. + pH

I-1	Cond	420	pH	7.0
I-2	Cond	445	pH	6.9
I-3	Cond	425	pH	6.6
I-4	Cond	465	pH	7.0
MW-4	Cond	425	pH	8.0

2nd Sample 3:30 P.M.

I-1 thru I-4

+ MW 4

URI - weekly sample 8/7/85

arrived at plant Site ~ 2 P.M. met Doug at office. proceeded to well field to collect samples from I-1-4 and NW-4. Did not take water level readings. WRC will take next wk. & Cathy will stop by to take readings. completed sampling at 2:45 P.M. Ch. Conductivity & pH for I-1-4 & NW-4

	Conductivity	pH
I-1 -	430	7.3
I-2	455	7.2
I-3	420	7.1
I-4	475	7.2
NW-4	455	8.05

Used 1 bottle from Doug - my bottle (HNO₃ preserved) had hole in it.

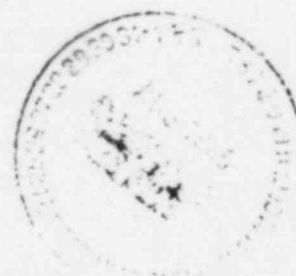
Completed Conductivity & pH test at ~ 3:20 P.M. Samples have been iced down for transport to lab. pH beginning to rise from in I-wells. 4 pore

volumes from wellfield will have been pumped by next Sunday, 8/11/85 per URI's calculations. WRC and Cathy to be here during wk. of 8/11/85 to sample and to take water levels in monitor wells and any wells in well field that probe can get down.

Report Of Analysis

Date Collected 7/10/85
Collected By R. Spears
Station URI 1-1
Permit Number na
Sample Number 5-192-5

Parameter	Result
pH, lab. s.u.	6.560
Sp. Cond. umhos/cm @ 25 C, lab.	540
Total Uranium	4.25
Total Alkalinity as CaCO ₃	124
Carbonate	0
Bicarbonate	124



ANALYZED BY

Kurt M. Angelo
Kurt M. Angelo

Chemical Analysis Division

DATE August 1, 1985

NOTE

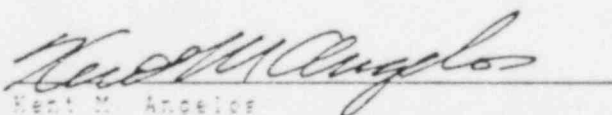
All analysis results are reported in milligrams per liter unless
otherwise noted.

Report Of Analysis

Date Collected 7/10/85
Collected By R. Spears
Station URI 1-2
Permit Number na
Sample Number 5-192-6

Parameter	Result
pH, lab, s u	6.488
Sp. Cond umhos/cm @ 25 C, lab	400
Total Uranium	3.39
Total Alkalinity as CaCO3	130
Carbonate	0
Bicarbonate	130

Approved By



Kent M. Angeles
Chemical Analysis Supervisor
Date August 1, 1985

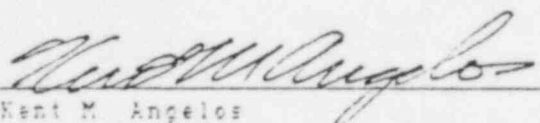
All analysis results are reported in milligrams per liter except where noted

Report Of Analysis

Date Collected 7/10/85
Collected By R. Spears
Station URI 1-3
Permit Number na
Sample Number 5-192-7

Parameter	Result
pH, lat, s.u.	6.287
Sp. Cond. umhos/cm @ 25 C, lat	550
Total Uranium	5.24
Total Alkalinity as CaCO ₃	106
Carbonate	0
Bicarbonate	106

Approved By


Kent M. Angelos

Chemical Analysis Supervisor

Date August 1, 1985

Notes

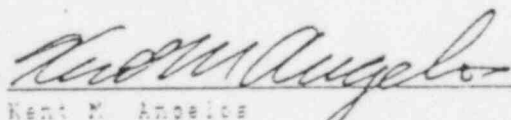
All analysis results are reported in milligrams per liter except where noted

Report Of Analysis

Date Collected 7/10/85
Collected By R. Spears
Station UR1 1-4
Permit Number na
Sample Number 5-192-8

Parameter	Result
pH, lab, s.u.	6.810
Sp. Cond. umhos/cm @ 25 C, lab.	610
Total Uranium	1.41
Total Alkalinity as CaCO ₃	142
Carbonate	0
Bicarbonate	142

Approved By


Kent M. Angeles

Chemical Analysis Supervisor

Date August 1 1985

Notes

All analysis results are reported in milligrams per liter except
where noted

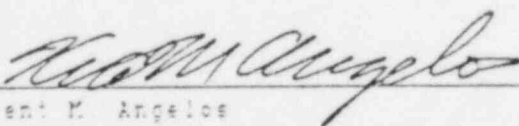
Report Of Analysis

Date Collected... 7/10/85
Collected By... R. Spears
Station... URI MW-6
Permit Number... na
Sample Number... 5-192-9

Parameter	Result
pH, lab, s.u.	8.071
Sp. Cond. umhos/cm @ 25 C, lab	590
Total Uranium	0.72
Radium 226	*
Total Alkalinity as CaCO ₃	124
Carbonate	0
Bicarbonate	124

* Analysis will be submitted at a later date.

Approved by


Kent M. Angelos

Chemical Analysis Supervisor

Date August 1, 1985

Notes

All analysis results are reported as follows: 261 listed, 262 listed,
where noted

PROJECT: ENVIRONMENTAL QUALITY
LABORATORY: ENVIRONMENTAL QUALITY

FILE: D5517004.TXT

REPORT OF ANALYSIS

PARAMETER	RESULT
Sample No.	5-179-86
Station	URI
Collector	R. SPEARS
Date	6/26/85
ID	1-1 2000
PH, 1bb	7.472
DO, 1bb	4.90
T. Urea-N	5.05
Alk. 1bb/L	86
Calc. 1bb	0
Calc. 1bb/L	86

Comments:

Approved by: *Mark M. Angelo*
Mark M. Angelo
Chemical Analysis Supervisor
Date: 07/18/85

Note: All analysis results are reported in milligrams per liter
except where noted.

LABORATORY ANALYSIS

LABORATORY ANALYSIS

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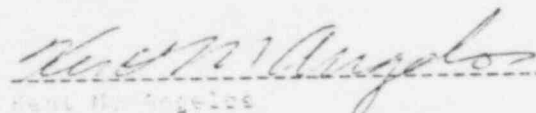
LABORATORY

RESULT

Sample No.	5-179-87
Lab. No.	UPI
Collector	9 SPEARS
Date	6/26/85
ID	I-D-2000
ph, 120	6.500
Sc, 120	400
T. Uranium	2.14
Other (ml)	74
Carbonate	0
Silicate	74

Comments

App. made by



Kent M. Angeles

Chemical Analysis Supervisor

Date: 07/19/85

Note: All analysis results are reported in milligrams per liter
except where noted.

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY LABORATORY

FILE # 8817034 TVE

REPORT OF ANALYSIS

PARAMETER

RESULT

Sample No

5-179-03

Station

URI

Collection

Q 505A25

Date

6/26/85

ID

I-3 2000

pH, lab

6.490

DO, lab

2.40

T. Ureaux

0.52

Alkalinity

35

Calcium

0

Electronics

35

Comments

Approved by

Kent M. Angelos

Kent M. Angelos

Chemical Analysis Supervisor

Date: 07/18/85

Note: All analysis results are reported in milligrams per liter
except where noted.

100% POTABLE WATER

100% POTABLE WATER

DATA

RESULT

Sample No.

5-179-89

Sample No.

100

Collection

P. COFASS

Date

6/26/85

ID

1-5-2000

PH, 24

A. 667

PH, 1

600

T. 100000

1.50

Alkalinity

85

Calcium

0

Dissolved

95

Comments

Signature

Kurt M. Angeles

Kurt M. Angeles

General Manager, San Diego Water

Date: 6/26/85

Note: All analysis results are reported in milligrams per liter except where noted

STATEMENT OF ANALYSIS
WATER QUALITY LABORATORY

FILE NO. 17074-141

STATEMENT OF ANALYSIS

ANALYST	RESULT
Sample No.	5-179-40
Site No.	URI
Collector	R. GREGG
Date	6/27/85
ID	1-1-0000 <i>244</i>
pH, 10	6.479
Ca, 10	400
T. Hardness	1.19
Alkalinity	98
Carbonate	0
Chloride	98

Comments:

Approved by:

Kurt M. Angelos
Kurt M. Angelos
Chemical Analysis Supervisor
Date: 07/18/85

Note: All analysis results are reported in milligrams per liter
except where noted.

LETTER OF ANALYSIS

ANALYSIS

RESULT

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6. 3rd Bo
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6. 100th Bo

5-175-61
UR
5-55555
6/27/05
1-2 0000
6-400
470
1-41
74
0
74

Analysis

Approved:

Robert M. Angelo

Robert M. Angelo, Supervisor
Date: 6/27/05

Note: All values in parentheses are reported in milligrams per liter
unless otherwise noted

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY LABORATORY

FILE # 2507794-017

REPORT OF ANALYSIS

PARAMETER	RESULT
Sample No	5-179-02
Location	URI
Collector	R. SPRADY
Date	6/27/85
ID	I-2-0800
pH, lab	6.490
Fe, lab	200
T. Uranium	1.04
Alkalinity	24
Carbonate	0
Dicarbonate	24

Comments:

Approved by: _____

Robert M. Angeles

Robert M. Angeles

Chemical Analysis Supervisor

Date: 07/18/85

Note: All analysis results are reported in milligrams per liter
except where noted.

DATE OF ANALYSIS 07/18/85

REPORT OF ANALYSIS

EXAMINER

REMARKS

Sample No.

5-172-37

Examiner

USI

Date of Analysis

5-172-37

File

6/27/85

ID

1-4-0200 100.00

PM, 1st

4.500

PM, 2nd

5.01

T. Unalloyed

1.01

Alloyed

100

Carbonate

0

Free Sulfate

100

Lab. No.

Approved by

Kent P. F. Gillet

Kent P. F. Gillet

Chemical Analysis Supervisor

Date 07/18/85

Note: All analysis results are reported in milligrams per liter except where noted.

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY LABORATORY

FILE: 0017894 TX1

REPORT OF ANALYSIS

ANALYSIS	RESULT
Sample No.	0-175-40
Location	HPI
Collector	D. G. T. 100
Date	6/17/85
ID	1-1 3000 4/4
pH, lab	4.740
Ca, lab	510
T. Uranium	4.84
Alkalinity	100
Carbonate	0
Bicarbonate	100

Comments:

Approved by:

Kurt M. Angelos
Kurt M. Angelos

Chemical Analysis Supervisor

Date: 07/18/85

Note: All analysis results are reported in milligrams per liter
except where noted.

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

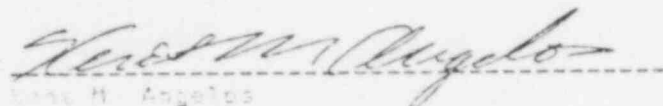
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REPORT OF ANALYSIS

PARAMETER	RESULT
Sample No	5-179-85
Station	UPI
Collector	D. SEDARS
Date	6/27/85
ID	I-512000
pH, lab	6.500
Ec, lab	580
T. Uranium	2.14
Ammonia	06
Carbonate	0
Bicarbonate	06

Comments

Approved by:



Gene H. Angelos

Chemical Analysis Supervisor

Date: 07/18/85

Note: All analysis results are reported in milligrams per liter
except where noted.

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY LABORATORY

FILE: 85517924.TXT

REPORT OF ANALYSIS

PARAMETER	RESULT
Sample No	S-179-66
Station	URI
Collector	R. SPEARS
Date	6/27/85
ID	I-3 2000
pH, lab	6.346
Ec, lab	220
T. Uranium	0.87
Alkalinity	33
Carbonate	0
Bicarbonate	33

Comments:

Approved by: _____

Kent M. Angelos
Kent M. Angelos
Chemical Analysis Supervisor
Date: 07/18/85

Note: All analysis results are reported in milligrams per liter
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DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY LABORATORY

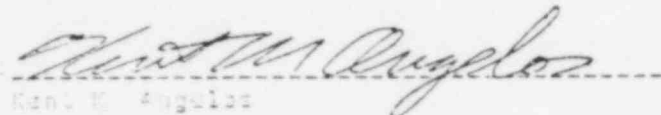
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REPORT OF ANALYSIS

PARAMETER	RESULT
Sample No.	S-179-87
Station	URI
Collector	R. SEDARS
Date	6/27/85
ID	I-4 2000 4.00
pH, 125	6.502
DO, 125	1.50
T. Uranium	1.07
Alkalinity	118
Carbonate	0
Bicarbonate	118

Comments:

Approved by:



Kent E. Angelos

Chemical Analysis Supervisor

Date: 07/18/85

Note: All analysis results are reported in milligrams per liter
except where noted.

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY LABORATORY

FILE # 001200410

REPORT OF ANALYSIS

PARAMETER	RESULT
Sample No.	5-170 AB
Station	URI
Collection	R. SPOONER
Date	6/28/85
ID	I-1-2000
pH, lab	6.460
Ec, lab	570
T. Uranium	3.65
Alkal. (eq)	100
Carbonate	0
Dicarbonate	100

Comments:

Approved by

Kent M. Angelos

Kent M. Angelos

Chemical Analysis Supervisor

Date: 07/18/85

Note: All analysis results are reported in milligrams per liter
except where noted.

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY LABORATORY

FILE 5507934 T-1

REPORT OF ANALYSIS

PARAMETER	RESULT
Station	UDIS-174-50
Collector	R. SPADY
Date	6/20/85
ID	1-3-200
PH, lat	6.371
Ca, lat	220
T. Uranium	1.21
Alkalinity	33
Carbonate	0
Dicarbonate	33

Comments:

Approved By:

Ken M. Angeles

Ken M. Angeles

Chemical Analysis Supervisor

Date: 07/18/85

Note: All analysis results are reported in milligrams per liter
except where noted

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

FILE: 00017086.TXT

SLIGHT OF ANALYSIS

PARAMETER	RESULT
Sample No.	5-179-40
Section	USI
Collector	R. SPENCER
Date	6/28/85
ID	1-2-2000 10-10-85
pH, lab	6.570
Ca, lab	520
T. Uranium	1.74
Alkalinity	88
Carbonate	0
Bicarbonate	88

Comments:

Approved by

W. M. Angelo

W. M. Angelo
Chief of Analysis Supervisor
Date: 07/10/85

Note: All analysis results are reported in milligrams per liter
except where noted.

REPORT OF ANALYSIS

PARAMETER	RESULT
Sample No.	2-170-01
Location	URI
Collector	R. SPEARS
Date	4/28/85
ID	1-A 2000
PH, 12L	-
DO, 12L	-
T. Uranium	1.81
Aluminum	-
Barium	-
Cadmium	-

Comments:

Approved by:

Wesley Angelo

Wesley Angelo

Chemical Analysis Supervisor

Date: 07/10/85

Note: All analysis results are reported in milligrams per liter
except where noted.