

Return to DRFO 467-2
40-8681
PDR



energy fuels nuclear, inc.

executive offices • suite 900 • three park central • 1515 arapahoe • denver, colorado 80202 • (303) 623-8317

November 15, 1982

Mr. Dan Gillen
Uranium Mill Licensing Branch
U.S. Nuclear Regulatory Commission
7915 Eastern Avenue
Silver Spring, Maryland 20910



Re: SUA-1358, Docket No. 40-8681

Dear Mr. Gillen:

Per your request by telephone on November 4, 1982, enclosed are data sheets from Core Laboratories showing chemical analyses for Monitor Wells 1 through 5 and 7-2, and also for the culinary water well. These data were inadvertently omitted from our 1982 Second Quarter Effluent and Monitoring Report.

Sincerely yours,

C. E. Baker
Manager, Regulatory Compliance

CEB/kak

Enclosures

cc: B. K. Reaveau

8212070509 821115
PDR ADOCK 04008681
C PDR

DESIGNATED ORIGINAL

Certified By

20857
Add'l info

CORE LABORATORIES, INC.
ANALYTICAL REPORT

7-MAY-82

ENERGY FUELS NUCLEAR, INC.

20857

RESULTS OF WATER QUALITY ANALYSIS
ON SAMPLES COLLECTED AT LOCATION:

JOB NO. 6307-	WB2096 - 1	WB2096 - 2	WB2096 - 3
SAMPLE ID:	WELL NO. 1	WELL NO. 2	WELL NO. 4
SAMPLE REMARKS:	CULINARY	MONITORING	MONITORING
DATE/TIME SAMPLED	04-07-82/	04-02-82/	04-07-82/
DATE/TIME RECEIVED	04-09-82/1045	04-09-82/1045	04-09-82/1045
DATE/TIME ANALYZED	04-13-82/1050	04-13-82/1050	04-13-82/1050
CHEMIST: RIF/DRH			
LOCATION: AURORA, CO			

LAB PH (@ 25 DEG. C)	7.70	7.50	7.36
LAB COND. (uMHOS @ 25 DEG. C)	459	3402	3630

--ALL VALUES REPORTED ON A DISSOLVED BASIS (MG./L.) UNLESS INDICATED OTHERWISE

CORE LABORATORIES, INC. ANALYTICAL REPORT

7-MAY-82

ENERGY FUELS NUCLEAR, INC.

20857

RESULTS OF WATER QUALITY ANALYSIS ON SAMPLES COLLECTED AT LOCATION:

JOB NO. 6307-
SAMPLE ID:
SAMPLE REMARKS:

W82096 - 1	W82096 - 2	W82096 - 3
WELL NO. 1	WELL NO. 2	WELL NO. 4
CULINARY	MONITORING	MONITORING

MAJOR CATIONS

CALCIUM (Ca)	43.0 (2.15)	310 (15.47)	420 (20.96)
MAGNESIUM (Mg)	22.0 (1.81)	88.0 (7.24)	160 (13.16)
SODIUM (Na)	22.0 (0.96)	460 (20.01)	330 (14.36)
SUM OF MAJOR CATIONS (meq)	(4.92)	(42.72)	(48.48)
SUM OF TOTAL CATIONS (meq)	(4.92)	(42.72)	(48.48)

MAJOR ANIONS

BICARBONATE (HCO3)	249 (4.08)	451 (7.39)	451 (7.39)
CARBONATE (CO3)	<1 (0.00)	<1 (0.00)	<1 (0.00)
HYDROXIDE (OH)	<0.5 (0.00)	<0.5 (0.00)	<0.5 (0.00)
SULFATE (SO4)	40.7 (0.85)	1766 (36.77)	2056 (42.81)
CHLORIDE (Cl)	2.46(0.07)	6.94(0.20)	39.7 (1.12)
SUM OF MAJOR ANIONS (meq)	(5.00)	(44.36)	(51.32)
SUM OF TOTAL ANIONS (meq)	(5.00)	(44.36)	(51.32)

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.
ANALYTICAL REPORT

7-MAY-82

ENERGY FUELS NUCLEAR, INC.

20857

RESULTS OF WATER QUALITY ANALYSIS
ON SAMPLES COLLECTED AT LOCATION:

JOB NO. 6307-
SAMPLE ID:
SAMPLE REMARKS:

WB2096 - 1
WELL NO. 1
CULINARY

WB2096 - 2
WELL NO. 2
MONITORING

WB2096 - 3
WELL NO. 4
MONITORING

GENERAL PARAMETERS

TOTAL DISSOLVED SOLIDS (CALC.) 390 (252) 2860 (2852) 3260 (3227)
TOTAL ALKALINITY (AS CaCO3) 222 404 404

CORE LABORATORIES, INC.
ANALYTICAL REPORT

6-MAY-82

ENERGY FUELS NUCLEAR, INC.
MONITORING WELLS

20857

RESULTS OF WATER QUALITY ANALYSIS
ON SAMPLES COLLECTED AT LOCATION:

JOB NO. 6307-
SAMPLE ID:
SAMPLE REMARKS:
DATE/TIME SAMPLED
DATE/TIME RECEIVED
DATE/TIME ANALYZED
CHEMIST: RIF/DRH
LOCATION: AURORA, CO

WB2100 - 1 WELL NO. 1	WB2100 - 2 WELL NO. 3	WB2100 - 3 WELL NO. 5
04-13-82/	04-13-82/	04-13-82/
04-16-82/1100	04-16-82/1100	04-16-82/1100
04-19-82/ 900	04-19-82/ 900	04-19-82/ 900

MONITOR WELLS

LAB pH (@ 25 DEG. C) 7.70 7.20 7.80
LAB COND. (UMHOS @ 25 DEG. C) 1635 5489 3275

--ALL VALUES REPORTED ON A DISSOLVED BASIS (MG./L.) UNLESS INDICATED OTHERWISE

CORE LABORATORIES, INC.

ANALYTICAL REPORT

6-MAY-82

ENERGY FUELS NUCLEAR, INC.
MONITORING WELLS

20857

RESULTS OF WATER QUALITY ANALYSIS
ON SAMPLES COLLECTED AT LOCATION:

JOB NO. 6307-
SAMPLE ID:
SAMPLE REMARKS:

WB2100 - 1	WB2100 - 2	WB2100 - 3
WELL NO. 1	WELL NO. 3	WELL NO. 5

MONITOR WELLS

MAJOR CATIONS

CALCIUM (Ca)	140 (6.99)	470 (23.45)	220 (10.98)
MAGNESIUM (Mg)	50.0 (4.11)	250 (20.56)	55.0 (4.52)
SODIUM (Na)	190 (8.26)	750 (34.36)	510 (22.19)
SUM OF MAJOR CATIONS (meq)	(19.36)	(78.37)	(37.69)
SUM OF TOTAL CATIONS (meq)	(19.36)	(78.37)	(37.69)

MAJOR ANIONS

BICARBONATE (HCO3)	325 (5.33)	472 (7.74)	358 (5.87)
CARBONATE (CO3)	<1 (0.00)	<1 (0.00)	<1 (0.00)
HYDROXIDE (OH)	<0.5 (0.00)	<0.5 (0.00)	<0.5 (0.00)
SULFATE (SO4)	697 (14.51)	3239 (67.44)	1518 (31.60)
CHLORIDE (Cl)	11.7 (0.33)	64.3 (1.81)	50.0 (1.41)
SUM OF MAJOR ANIONS (meq)	(20.17)	(76.99)	(38.88)
SUM OF TOTAL ANIONS (meq)	(20.17)	(76.99)	(38.88)

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CORE LABORATORIES, INC.
ANALYTICAL REPORT

6-MAY-82

ENERGY FUELS NUCLEAR, INC.
MONITORING WELLS

20857

RESULTS OF WATER QUALITY ANALYSIS
ON SAMPLES COLLECTED AT LOCATION:

JOB NO. 6307-
SAMPLE ID:
SAMPLE REMARKS:

WB2100 - 1 WB2100 - 2 WB2100 - 3
WELL NO. 1 WELL NO. 3 WELL NO. 5

MONITOR WELLS

GENERAL PARAMETERS

TOTAL DISSOLVED SOLIDS (CALC.)	1269	(1248)	3193	(5045)	2575	(2528)
TOTAL ALKALINITY (AS CaCO ₃)	286		416		323	

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CORE LABORATORIES, INC.
ANALYTICAL REPORT

22-APR-82

ENERGY FUELS NUCLEAR, INC.

20857

RESULTS OF WATER QUALITY ANALYSIS
ON SAMPLES COLLECTED AT LOCATION:

MONITOR
WB2094 - 1
WELL NO. 7-2

JOB NO. 6307-
SAMPLE ID:
SAMPLE REMARKS:
DATE/TIME SAMPLED
DATE/TIME RECEIVED
DATE/TIME ANALYZED
CHEMIST: RIF/DRH
LOCATION: AURORA, CO

WB2094 - 2	WB2094 - 3
SOUTH	WESTWATER
COTTONWOOD	
04-01-82/	04-01-2 /
04-07-82/1100	04-07-2 /1100
04-08-82/1030	04-08-2 /1030

N/A

LAB PH (@ 25 DEG. C) 7.50 ~~8.55~~ ~~8.20~~
LAB COND. (UMHOS @ 25 DEG. C) 1352 ~~686~~ ~~1155~~
--ALL VALUES REPORTED ON A DISSOLVED BASIS (MG./L.) UNLESS INDICATED OTHERWISE

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CORE LABORATORIES, INC. ANALYTICAL REPORT

22-APR-82

ENERGY FUELS NUCLEAR, INC.

20857

MONITOR

WB2094 - 1
WELL NO. 7-2

RESULTS OF WATER QUALITY ANALYSIS
ON SAMPLES COLLECTED AT LOCATION:

~~WB2094 - 2~~ ~~WB2094 - 3~~
~~SOUTH~~ ~~WESTWATER~~
~~COTTONWOOD~~

JOB NO. 6307-
SAMPLE ID:
SAMPLE REMARKS:

GENERAL PARAMETERS

N/A

TOTAL DISSOLVED SOLIDS (CALC.)	850	(875)	410	(413)	710	(758)
TOTAL SUSPENDED SOLIDS			<4		5	
BICARBONATE (HCO3)	235		296		348	
CARBONATE (CO3)	<1		<1		<1	
HYDROXIDE (OH)	<0.5		<0.5		<0.5	
SULFATE (SO4)	380		114		258	
CHLORIDE (Cl)	86.1		19.5		67.7	
TOTAL ALKALINITY (AS CaCO3)	210		270		303	

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CORE LABORATORIES, INC.
ANALYTICAL REPORT

22-APR-82

ENERGY FUELS NUCLEAR, INC.

LS802

MONITOR
WB2094 - 1
WELL NO. 7-2

RESULTS OF WATER QUALITY ANALYSIS
ON SAMPLES COLLECTED AT LOCATION:

JOB NO. 6307-
SAMPLE ID:
SAMPLE REMARKS:

~~WB2094 - 2~~
~~SOUTH~~
~~COJTONWOOD~~

~~WB2094 - 3~~
~~WESTWATER~~

N/A

METALS

CALCIUM (Ca) 160
MAGNESIUM (Mg) 40.0
SODIUM (Na) 93.0

~~55.0~~ ~~88.0~~
~~36.0~~ ~~24.0~~
~~44.0~~ ~~150~~