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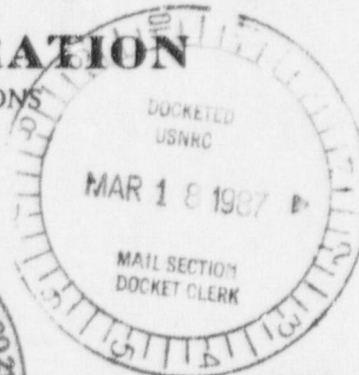


COTTER CORPORATION

CANON CITY OPERATIONS

P.O. Box 751
CANON CITY, COLORADO 81212

March 16, 1987



SUBJECT: WATER QUALITY REPORT
FOR DECEMBER, 1986 (12-86)
FILE NO: 1011K8610-50-4

Mr. Albert J. Hazle, Director
Radiation Control Division
Colorado Department of Health
4210 East 11th Avenue
Denver, CO 80220

Dear Mr. Hazle:

Attached please find the above captioned report(s). If you have any questions regarding the report(s), please contact me.

Sincerely,

COTTER CORPORATION

Jim Cain
Jim Cain

Environmental Coordinator/Radiation Safety Officer

JC:pd

Attachments

cc: Mr. J. E. Rothfleisch
Mr. J. V. Atwood
Mr. Tim Smith
Attached List

OFFICIAL DOCKET COPY

9801080070 861231
PDR WASTE
WM-3 PDR

87-462

CERTIFICATE OF WATER ANALYSIS
 COTTER CORPORATION
 P.O. BOX 751
 CANON CITY, COLORADO 81212

LOC NO.	DATE	WATER DEPTH BELOW MP	TEMP. C	PH	UMHD CM COND.	U	MG	V	SE	CL	504	CO3	TDS	RA226	TH230	PR210	PO210
0106	12/22	76.2	13.0	6.90	2900	0.0011	<0.005	<0.05	<0.005	75	1300	<10	2610	0.9	0.1	-0.4	0.3
0111	12/30	NA	5.0	7.05	200	0.0062	0.010	<0.05	<0.005	8	56	10	180	0.2	-0.1	0.0	0.5
0119	12/23	19.35	13.0	7.85	550	0.12	0.42	<0.05	<0.005	8	110	<10	410	0.4	0.0	1.0	0.2
0120	12/23	19.85	7.50	7.50	375	0.007	0.12	<0.05	<0.005	4	27	10	260	0.2	-0.1	0.6	0.2
0122	12/19	NA	12.5	7.30	495	0.091	0.38	<0.05	<0.005	9	80	<10	400	0.3	0.1	0.2	0.6
0124	12/30	NA	13.0	7.25	485	0.07	0.39	<0.05	<0.005	7	58	<10	380	0.2	0.0	0.2	-0.1
0129	12/19	NA	13.5	7.35	490	0.05	0.27	<0.05	<0.005	10	60	<10	390	0.3	0.0	0.4	1.7
0135	12/15	36.50	12.0	7.25	3950	0.0024	<0.005	<0.05	<0.005	120	2200	<10	4010	1.0	0.0	-0.7	0.8
0137	12/30	33.45	11.0	8.10	460	0.0057	<0.005	<0.05	<0.005	13	21	<10	360	0.3	0.1	0.0	0.5
0138	12/22	40.25	10.5	7.30	2050	0.84	7.9	<0.05	0.019	68	1130	10	2050	0.5	0.0	0.8	0.1
0139	12/23	31.70	11.5	7.60	2400	0.46	6.8	<0.05	0.014	100	910	<10	2570	0.4	0.0	-0.3	0.4
0140	12/19	37.95	12.0	7.35	1250	0.29	2.9	<0.05	<0.005	39	440	<10	1080	0.3	0.0	0.1	1.0
0141	12/22	69.75	11.5	7.45	1450	0.0067	0.042	<0.05	<0.005	38	380	20	1230	0.2	0.0	0.3	0.4
0144	12/23	26.55	12.5	7.85	700	0.047	0.33	<0.05	<0.005	23	100	<10	540	0.3	-0.1	-0.1	-0.2
0303	12/04	16.70	12.0	7.35	20000	34	200	<0.05	0.036	480	15000	<10	25740	0.4	0.1	0.5	6.4

COLLECTED BY

TOM MCDOWELL JR.
 MARK CURREY

REPORT NO. 12-86

ANALYSTS

MIKE KRAUTH, MIKE GOFF
 LARRY SUFFE
 DENNIS HULSEY, RON VIOLA
 ACCU-LAB RESEARCH, INC.

DATE 03/16/87
 REPORT FOR MONTH OF DEC 1986

CERTIFICATE OF WATER ANALYSIS
 COTTER CORPORATION
 P.O. BOX 7th
 CANON CITY, COLORADO 81202

PAGE 2
 TIME 10:04:06
 PROGRAM - LAB017

LOC NO.	DATE	WATER DEPTH BELOW MP	TEMP. C	PH	UMHO CM COND.	U	MG	V	SE	CL	SG4	CO3	TDS	MG/L			
														FA225	TH230	PR210	
0312	12/15	13.90	12.5	7.85	7000	4.8	30.1	<0.05	0.18	260	3760	<10	7120	0.4	0.1	-0.1	1.1
0313	12/04	14.55	11.5	7.60	7000	5.4	34.1	<0.05	0.26	265	4450	<10	7620	0.1	0.2	0.5	1.4 C
0314	12/15	19.65	12.0	7.70	1250	0.0009	0.57	<0.05	<0.005	23	600	<10	1090	1.2	0.0	-0.2	1.3
0315	12/22	NA	12.0	9.40	850	0.0002	0.057	<0.05	<0.005	16	220	110	670	0.1	0.0	0.0	0.1
0324	12/31	11.55	12.5	7.60	800	0.0021	0.006	<0.05	<0.005	12	230	<10	590	0.7	0.0	0.1	0.0
0325	12/04	39.5	10.5	7.20	2800	0.014	0.006	<0.05	0.20	105	1540	<10	3190	0.7	0.0	-0.4	-0.2 C
0327	12/22	NA	12.5	8.90	1200	0.006	0.36	<0.05	<0.005	36	420	40	970	0.4	0.0	0.4	0.3
0328	12/22	NA	12.0	9.35	1150	0.005	0.017	<0.05	<0.005	49	19	80	880	0.4	0.0	-0.2	0.2
0329	12/15	22.40	11.0	6.85	2700	0.93	0.010	<0.05	0.010	160	1590	<10	2960	2.3	0.0	0.0	0.7
0330	12/15	20.55	11.5	7.20	4750	3.3	15.4	<0.05	0.037	6400	2930	<10	5220	0.4	0.0	0.2	1.2
0331	12/15	25.40	11.0	7.50	4550	2.6	15.4	<0.05	0.030	195	2880	<10	5090	0.7	0.4	0.0	2.5
0333	12/23	NA	13.0	7.25	3600	4.4	8.4	<0.05	0.10	180	2100	<10	3710	0.2	0.1	0.1	0.8
0334	12/05	10.85	12.5	7.40	1100	0.0050	0.012	<0.05	<0.005	48	430	<10	960	0.2	-0.1	-0.1	0.2
0335	12/22	20.35	12.0	7.20	1900	0.0011	<0.005	<0.05	<0.005	26	1030	<10	1750	1.0	0.0	-0.3	0.9
0336	12/05	39.95	13.5	7.35	1800	0.093	0.011	<0.05	<0.005	71	880	<10	1650	0.0	0.0	0.5	0.1

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 MARK CUREVEY

REPORT NO. 12-86

ANALYSTS

MIKE KRAUTH, MIKE GOFF
 LARRY SNOPE
 DENNIS HULSEY, ROM VIOLA
 ACCU-LABS RESEARCH, INC.

DATE 03/16/87
 REPORT FOR MONTH OF DEC 1986

CERTIFICATE OF WATER ANALYSIS
 CUTLER CORPORATION
 P.O. BOX 751
 CANON CITY, COLORADO 81212

PAGE 3
 TIME 10:04 06
 PROGRAM - LAB017

LOC NO.	DATE	WATER DEPTH BELOW MP	TEMP. C	PH	UMHO CM COND.	U	MO	V	SE	MG/L	CL	SO4	CO3	TDST	RA226	TH230	PC10	PC210
0337	12/05	37.20	13.0	7.00	2900	0.0035	0.007	<0.05	0.046	215	1970	<10	<10	3510	0.5	0.0	-0.1	0.3
0338	12/15	33.15	11.5	7.30	2350	0.022	0.008	<0.05	0.033	88	1500	<10	<10	2680	0.5	0.0	0.0	0.8
0339	12/08	NA	17.0	5.60	10500	0.0010	0.005	<0.05	<0.005	17	7410	<10	<10	10970	0.2	0.1	-0.5	-0.3
0340	12/15	16.25	12.5	7.35	3750	4.2	10.4	<0.05	0.035	195	2070	<10	<10	4010	0.3	0.0	0.2	1.1
0341	12/15	19.85	12.5	7.45	2950	3.7	5.6	<0.05	0.030	165	1590	<10	<10	3130	0.5	0.2	0.0	1.9
0344	12/15	30.3	11.5	7.10	6500	8.4	20.6	<0.05	0.029	370	3590	<10	<10	6610	0.3	-0.1	0.8	3.2
0502	12/01	NA	3.5	8.15	180	0.0070	0.005	<0.05	<0.005	8	30	<10	<10	190	0.3	0.0	0.0	0.4
0504	12/01	NA	4.0	8.35	205	0.004	0.006	<0.05	<0.005	9	50	<10	<10	200	0.3	0.0	0.2	0.2
0505	12/10	NA	5.0	7.60	2700	2.5	4.2	<0.05	0.051	175	1770	<10	<10	3330	0.3	0.0	0.5	5.7
0555	12/16	NA	11.0	7.85	465	0.010	0.008	<0.05	<0.005	8	90	<10	<10	400	0.2	0.0	0.0	0.6
0701	12/12	NA	10.0	7.25	19000	100	210	<0.05	0.18	840	16600	<10	<10	28260	0.5	-0.2	0.0	1.5
0701	12/31	NA	7.5	7.40	18500	100	200	<0.05	0.43	800	17400	<10	<10	29700	0.3	0.4	2.7	3.6
0703	12/12	NA	13.5	7.65	21500	33	140	<0.05	0.20	800	15950	<10	<10	26950	0.7	-0.1	2.0	1.9
0703	12/31	NA	13.0	7.55	21500	34	140	<0.05	0.46	740	17700	<10	<10	26800	0.9	0.1	1.1	3.0
0710	12/12	NA	11.5	7.05	4550	0.56	0.83	<0.05	0.35	605	1950	<10	<10	4940	0.3	0.0	0.0	0.5

COLLECTED BY
 TOM MCDONNELL JR.
 MARK CURREY

REPORT NO. 12-86

ANALYSTS
 MIKE KRAUTH, MIKE GOLF
 LARRY SWIRE
 DENNIS HULSEZ, BOB VIOLA
 ACCU-LABO RESEARCH, INC.

#DATE 03/16/87
 REPORT FOR MONTH OF DEC 1985

CERTIFICATE OF WATER ANALYSIS
 COTTER CORPORATION
 P.O. BOX 751
 CANON CITY, COLORADO 81212

PAGE 4
 TIME 10:04:05
 PROGRAM - LAB017

LOC NO.	DATE	WATER DEPTH BELOW MP	TEMP. C	PH	UMHD COND. CM	U	HD	V	SE	MG/L					PCP/L		
										CL	SO4	CO3	TDSP	RA226	TH230	PB210	PO210
0710	12/31	NA	11.5	7.10	4600	0.55	0.51	<0.05	0.68	630	1970	<10	4800	0.4	0.2	1.6	0.2
0711	12/12	NA	11.5	7.25	7000	7.3	29.5	0.32	0.18	325	4260	<10	7280	1.0	0.1	0.8	3.3
0711	12/31	NA	10.5	7.45	7000	7.8	30.4	0.43	0.17	330	4320	<10	7900	2.0	0.2	2.2	1.2
0712	12/12	NA	12.0	7.25	8500	7.5	21.3	<0.05	0.40	740	4310	<10	9570	0.3	0.0	0.9	1.1
0712	12/31	NA	11.5	7.15	8000	7.1	20.1	<0.05	0.70	730	4500	<10	9220	0.2	0.1	0.3	0.8
0714	12/10	NA	8.5	7.45	3750	4.2	9.7	<0.05	0.13	215	2460	<10	4480	0.0	0.1	-0.3	1.6
0714	12/30	NA	11.5	7.30	3950	4.2	9.4	<0.05	0.12	200	2360	<10	4400	0.4	0.0	0.4	0.5
0715	12/10	NA	11.5	8.00	2350	2.2	3.3	<0.05	0.059	120	1320	<10	2430	0.1	0.1	-0.1	2.5
0715	12/30	NA	12.0	7.95	2400	2.2	3.3	<0.05	0.076	110	1230	10	2400	0.3	0.1	1.5	0.7
0716	12/10	NA	12.5	7.65	2150	1.1	1.5	<0.05	0.047	95	1060	<10	2090	0.1	0.1	0.3	0.6
0716	12/30	NA	13.5	7.35	2150	1.3	1.5	<0.05	0.021	90	1030	<10	2030	0.4	0.0	1.2	-0.2

COLLECTED BY TOM McDOWELL JR.
 MARK CURNEY

REPORT NO. 12-86

ANALYSTS

MIKE KRAUTH, MIKE GOLF
 LARRY SWOPE
 DENNIS HILSEY, RON VIOLA
 ACCU-LABS RESEARCH, INC.

COTTER CORPORATION

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