

UNION CARBIDE CORPORATION

URAVAN, COLORADO

SUA-673

SOLID WASTE DISPOSAL
REPORT

APRIL 1981

810608064

SOLID WASTE REPORT - 1981

DATA SUMMARY

1.0 MONITOR POINTS

Monitor points will be surveyed in again in June, 1981.

2.0 PIEZOMETRIC MEASUREMENTS

Location of the piezometers is illustrated on Plate 2.0. Total precipitation for April was 0.87 inches.

2.1 POND ONE

Tailing Pile One continues to serve as a sump for runoff and seepage from the Club Mesa Spray System Area. The spray system was inactive for the month of April.

Piezometers 2-24 and 2-25 decreased 1.37 and 2.23 feet, respectively. Piezometers 2-9, 2-17D, and 2-18D decreased on the average of 1.02 feet with Piezometers 2-17S and 2-18S bottoming out at elevations of 5,452.51 and 5,466.52, respectively. Piezometer 2-10 showed an isolated increase of 1.41 feet which is dropping off during May.

Pond One has been inactive since May 30, 1980.

2.2 POND TWO

The piezometers within Pond Two have shown an average decrease of 0.107 feet with a range of an increase of 0.21 feet and a drop of 0.40 feet. This pond has been inactive since December 30, 1980.

2.3 POND THREE

Piezometers within Pond Three had an average decrease of 0.065 feet for the month. Pond Three was inactivated on March 6, 1981. The water pool in Pond Three has been maintained as an evaporative storage pond.

3.0 OPERATIONAL SUMMARY

3.1 POND ONE

Minimum freeboard was ten feet. Pond One beach was greater than two hundred feet. Maximum freeboard was 10.2 feet.

3.0 (continued)

3.2 POND TWO

Minimum freeboard was 7.5 feet. Maximum freeboard was 8 feet.
Minimum beach width to pool was 200 feet.

3.3 POND THREE

Minimum freeboard was 9.92 feet. Maximum freeboard was 10.08 feet. Minimum beach width was 150 feet.

3.4 BERM AND DRAINAGE CONDITION

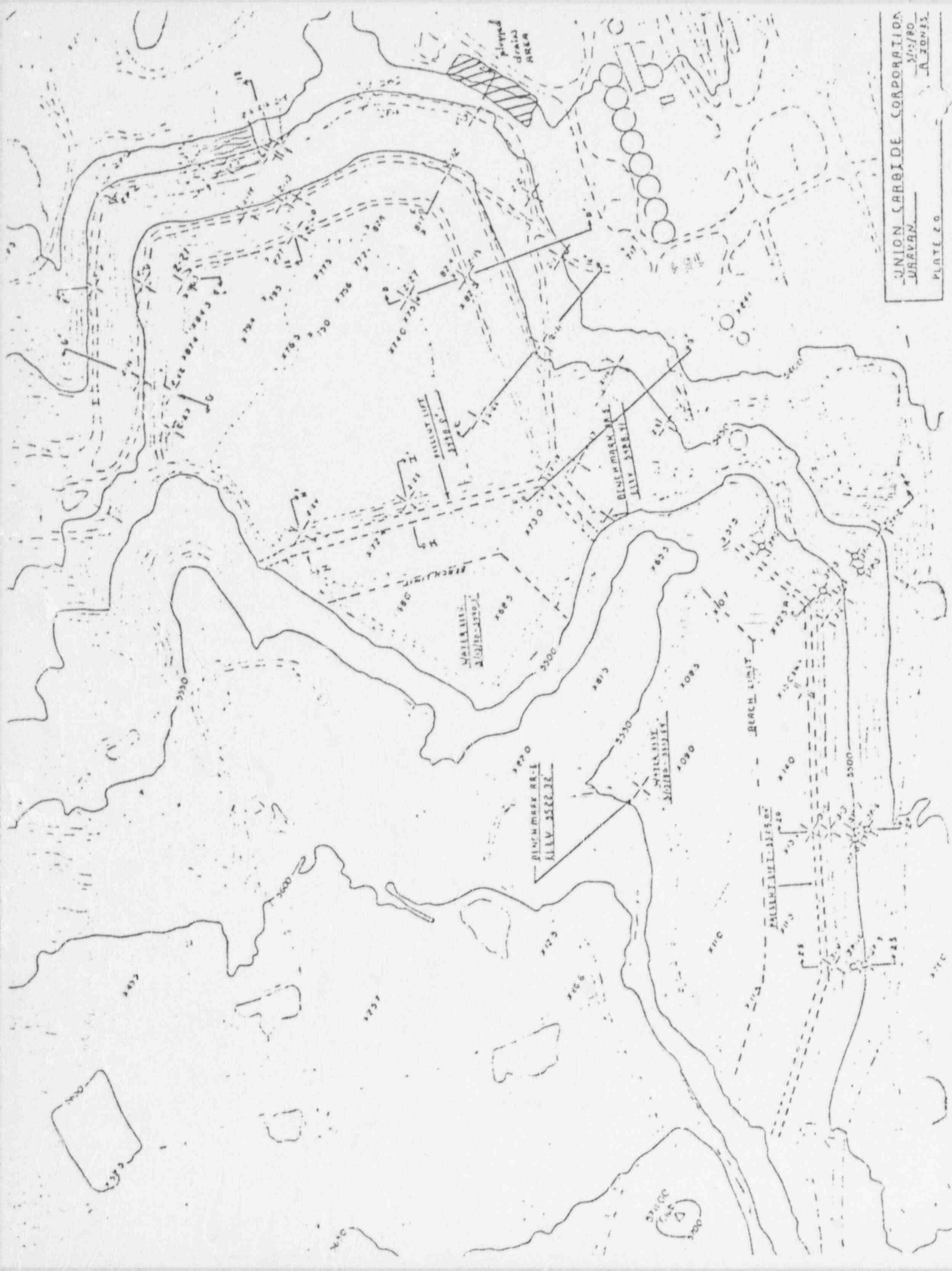
The seepage past the drain system on Pond Three has been corrected without reverting to construction of an additional drain downslope from the existing one. A buildup of a chemical precipitate, tentatively identified as an alumina-ferrous-sulfate compound, within the line has been removed through flushing with water. Drainage flow has picked up marginally the first part of May. Average drainage for April was 6.59 gallons per minute.

Wet areas remain predominant along the lower face of Pond Three and fluctuate with precipitation.

Drain systems on Pond Two are functioning correctly except for one section opposite sump number three as shown on Plate Two. Initial flushing cleared the line of chemical precipitate but the line has replugged. The line would not flush under water pressure, and location of the pipe allowing entrance to the section has been such that reamers could not enter the drain system. This condition is currently being rectified, after notification and approval of Acres-American, to allow access to the line.

Average drainage from Pond Two for April was 37.4 gallons per minute.

PLATE 20



PIEZOMETRIC MEASUREMENTS

URAVAN, COLORADO

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URAVAN ENVIRONMENTAL DEPARTMENT
MONITOR WELL PHREATIC MEASUREMENTS

[illegible]

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URAVAN ENVIRONMENTAL DEPARTMENT
MONITOR WELL PHREATIC MEASUREMENTS

[illegible]

OPERATION SUMMARY

DATA

URAVAN, COLORADO

UNION CARBIDE CORPORATION
UPAVAN ENVIRONMENTAL DEPARTMENT

Pond: 1

Month April 1981

DAY	BEACH FT.	FREEBOARD FT.	SPIGOT LOCATION	SURVEYOR INITIALS	METEOROLOGICAL CONDITIONS
1	200	10	—		
2	200	10	—		
3	175	10	—		
4	200	10	—		
5	200	10	—		
6	200	10	—		
7	175	10	—		
8	190	10	—		
9	200	10	—		
10	200	10	—		
11	200	10	—		
12	200	10	—		
13	200	10	—		
14	200	10	—		
15	200	10.2	—		
16	200	10.2	—		
17	200	10.2	—		
18	200	10.2	—		
19	200	10	—		
20	200	10	—		
21	200	10	—		
22	200	10	—		
23	200	10	—		
24	200	10	—		
25	200	10	—		
26	200	10	—		
27	200	10	—		
28	200	10	—		
29	200	10	—		
30	200	10	—		
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URAVAN ENVIRONMENTAL DEPARTMENT

Pond: 2

Month April 1981

DAY	BEACH FT.	FREEBOARD FT.	SPIGOT LOCATION	SURVEYOR INITIALS	METEOROLOGICAL CONDITIONS
1	200	7.67	—		
2	200	7.5	—		
3	200	7.67	—		
4	200	7.5	—		
5	200	7.5	—		
6	200	7.75	—		
7	200	7.75	—		
8	200	7.75	—		
9	200	7.75	—		
10	200	7.5	—		
11	200	7.75	—		
12	200	7.75	—		
13	200	7.75	—		
14	200	7.75	—		
15	200	7.75	—		
16	200	7.75	—		
17	200	7.75	—		
18	200	7.75	—		
19	200	7.75	—		
20	200	7.75	—		
21	200	7.75	—		
22	200	7.75	—		
23	200	7.75	—		
24	200	7.75	—		
25	200	7.75	—		
26	200	7.83	—		
27	200	7.83	—		
28	200	7.75	—		
29	200	8	—		
30	8 200	8	—		
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UNION CARBIDE CORPORATION
URAVAN ENVIRONMENTAL DEPARTMENT

Pond: 3

Month April 1981

DAY	BEACH FT.	FREEBOARD FT.	SPIGOT LOCATION	SURVEYOR INITIALS	METEOROLOGICAL CONDITIONS
1	150 10	10 150	—		
2	150 10	10 150	—		
3	150 10	10 150	—		
4	150 10	10 150	—		
5	150 10' 1"	10' 1" 150	—		
6	150 10	10 150	—		
7	150 10' 1"	10' 1" 150	—		
8	150 10' 1"	10' 1" 150	—		
9	150 10' 1"	10' 1" 150	—		
10	150 10' 1"	10' 1" 150	—		
11	150 10' 1"	10' 1" 150	—		
12	175 10	10 175	—		
13	150	10.08	—		
14	150	10.08	—		
15	150	10.08	—		
16	150	10.08	—		
17	150	10.08	—		
18	150	10	—		
19	150	9.92	—		
20	150	10	—		
21	150	10	—		
22	150	10	—		
23	150	10	—		
24	150	10	—		
25	150	10	—		
26	150	10	—		
27	150	10	—		
28	150	10	—		
29	150	10	—		
30	150	10	—		
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ENVIRONMENTAL DEPARTMENT

TAILING PILE TOE DRAINAGE

FLOW
GPM

Month April 1981

DATE	SUMP 1	SUMP 2	SUMP 3	SUMP 4	PILE #3	
1	1.03	2.54	9.75	16.60	7.42	29.91
2	1.57	7.16	4.86	13.36	9.14	26.9
3	2.05	7.21	4.05	13.08	9.14	26.3
4	1.00	6.67	5.36	11.07	9.14	24.13
5	0.51	5.19	3.81	13.37	7.42	22.8
6	1.57	7.16	6.81	7.82	9.14	23.3
7	0.95	7.20	4.56	14.20	7.42	26.9
8	1.58	7.19	2.93	13.55	5.83	25.8
9	1.01	6.04	6.12	12.95	7.42	26.1
10	1.57	7.16	4.86	54.69	5.83	68.2
11	1.03	6.84	5.49	14.89	5.83	28.2
12	0.56	3.31	2.33	7.19	5.83	13.3
13	0.95	9.64	5.31	26.60	5.83	42.5
14	1.73	6.67	4.42	15.39	5.83	28.2
15	0.61	5.33	5.38	28.47	5.83	39.7
16	0.50	7.13	5.33	23.00	5.83	35.9
17	1.06	6.32	4.44	8.23	5.83	20.6
18	2.09	6.61	6.78	29.28	5.83	44.7
19	1.40	7.02	5.41	35.74	5.83	49.5
20	1.02	2.35	4.96	23.62	5.83	34.9
21	1.37	7.50	4.66	8.37	5.83	21.9
22	1.03	6.86	5.98	38.84	5.83	40.7
23	1.64	6.72	13.95	11.47	5.11	33.7
24	0.98	5.86	5.94	19.32	5.83	32.0
25	1.50	7.52	5.94	24.71	5.83	37.6
26	1.47	6.03	3.42	27.81	7.42	38.7
27	1.35	6.15	5.01	10.64	7.42	23.1
28	1.54	7.24	4.92	11.69	5.83	25.4
29	0.97	5.80	4.08	24.29	5.11	35.1
30	1.53	6.99	4.75	21.80	7.42	35.0
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MEAN					6.59	37.3
STD. DEV.						