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GROUND WATER MONITORING REPORT

DATE: 9/9/91 - 12/30/91

CLIENT: Koch Refining Company

LOCATION: Koch North Fuel Oil Terminal

CITY: Wilmington STATE: North Carolina

RC&A PROJECT #: 8646-I

MONITORING INTERVAL: Semi-Monthly

REPORT INTERVAL: Quarterly

DATE OF LAST REPORT: 6/26/91 - 9/9/91

MONITORING REQUIREMENTS:

Semi-Monthly: Check site's recovery operations, monitor free product accumulation and recovery.

Quarterly: Measure all monitoring and monitoring/recovery wells.

SITE VISITS THIS MONITORING PERIOD:

DATE	COMMENTS
9/9/91 - 12/30/91	Recovery operations for RW-3, RW-4 & RW-5 off due to local construction. SD-1 is operated only when needed. Completion of the expanded treatment system is expected soon.

RECOVERY/TREATMENT SYSTEM STATUS

DATE: 9/9/91 - 12/30/91

A) MONITORING SYSTEM: Forty-six monitoring wells (2" monitoring wells)

B) VOLUME OF FREE PRODUCT RECOVERED THIS PERIOD: 0 Gallons
GRAVITY SEPARATOR(S): 0 Gallons
RECOVERED PRODUCT STORAGE TANKS: 1,259 Gallons
CUMULATIVE TOTAL RECOVERED TO DATE: 8,663 Gallons
CUMULATIVE TOTAL REMOVED FROM SITE: 7,234 Gallons
PRODUCT RECOVERY SYSTEM: Three 2' diameter recovery wells (RW-3, RW-4 & RW-5); one storm drain sump (SD-1)

C) VOLUME OF TREATED GROUND WATER THIS PERIOD: No Data
CUMULATIVE TOTAL TREATED TO DATE: No Data
FLOW: No Data
TREATMENT SYSTEM: None initiated

SAMPLING: No sampling required.

D) VOLUME OF SOIL REMOVED THIS PERIOD: N/A
CUMULATIVE TOTAL REMOVED TO DATE: N/A
SOIL TREATMENT SYSTEM: None initiated

SAMPLING: No sampling required.

E) AMOUNT OF VADOSE CONTAMINATION REMOVED THIS PERIOD: N/A
CUMULATIVE TOTAL REMOVED TO DATE: N/A
VADOSE RECOVERY SYSTEM: None initiated

SAMPLING: No sampling required.

F) GROUND WATER QUALITY: No ground water samples were required in the past period.

G) FIELD DATA - DATA REDUCTION OF WATER TABLE MEASUREMENTS TAKEN ON 12/30/91 (in feet) (Refer to attached figures):

WELL #	TOP OF CASING	WATER TABLE DEPTH	PRODUCT THICKNESS	SPECIFIC GRAVITY ADJUSTMENT	WATER TABLE ELEVATION
NORTHERN END					
101	28.88	5.01	0.00	-	23.87
102	29.88	4.70	0.00	-	25.18
103	38.90	10.19	0.00	-	28.71
103A	38.50	10.62	0.00	-	27.88
104	28.21	3.76	0.00	-	24.45
105	29.61	4.70	0.00	-	24.91
106	28.75	4.10	0.00	-	24.65
107	29.32	5.57	0.00	-	23.75
108	30.89	6.46	0.00	-	24.43
109	30.04	7.57	0.00	-	22.47
110	29.02	8.80	0.00	-	20.22
112	30.55	8.44	0.00	-	22.11
113	33.28	9.10	0.00	-	24.18
114	34.80	9.93	0.00	-	24.87
115	31.98	9.30	0.00	-	22.68
116	28.90	8.20	0.00	-	20.70
117	31.33	9.67	0.00	-	21.66
119	27.40	4.99	0.00	-	22.41
120	27.64	5.66	0.00	-	21.98
121	29.30	5.10	0.00	-	24.20
122	36.52	8.99	0.00	-	27.53
123	35.29	8.38	0.00	-	26.91
RECOVERY LOCATIONS					
RW-3	29.07	8.73	0.00	-	20.34
RW-4	39.43	9.05	0.00	-	30.38
RW-5	44.72	13.24	0.00	-	31.48
SD-1	-	-	0.00	-	-

(continued)

WELL #	TOP OF CASING	WATER TABLE DEPTH	PRODUCT THICKNESS	SPECIFIC GRAVITY ADJUSTMENT	WATER TABLE ELEVATION
TANK #1					
7	43.41	10.71	0.00	-	32.70
9	44.70	13.36	0.00	-	31.34
10	46.85	15.12	0.00	-	31.73
11	44.79	5.82	0.00	-	38.97
12	46.21	14.31	0.00	-	31.90
13	45.79	13.69	0.00	-	32.10
14	45.66	14.86	0.00	-	30.80
15	46.83	15.31	0.00	-	31.52
16	46.29	15.00	0.00	-	31.29
17	45.32	13.85	0.00	-	31.47
18	44.57	13.40	0.00	-	31.17
19	47.31	15.71	0.00	-	31.60
TANK #4					
1	37.28	10.23	0.00	-	27.05
2	40.86	13.40	0.00	-	27.46
3	39.61	9.31	0.00	-	30.30
4	40.48	9.62	0.00	-	30.86
5	40.12	9.60	0.00	-	30.52
6	41.53	11.32	0.00	-	30.21
8	40.75	9.50	0.00	-	31.25
20	41.16	11.47	0.00	-	29.69
21	42.25	11.77	0.00	-	30.48
22	41.23	11.05	0.00	-	30.18
23	40.41	10.10	0.00	-	30.31
24	40.90	9.81	0.00	-	31.09

Stephan A. Tyler, Manager, Monitoring Operations

Bruce R. Parris

Bruce Parris, Project Geologist

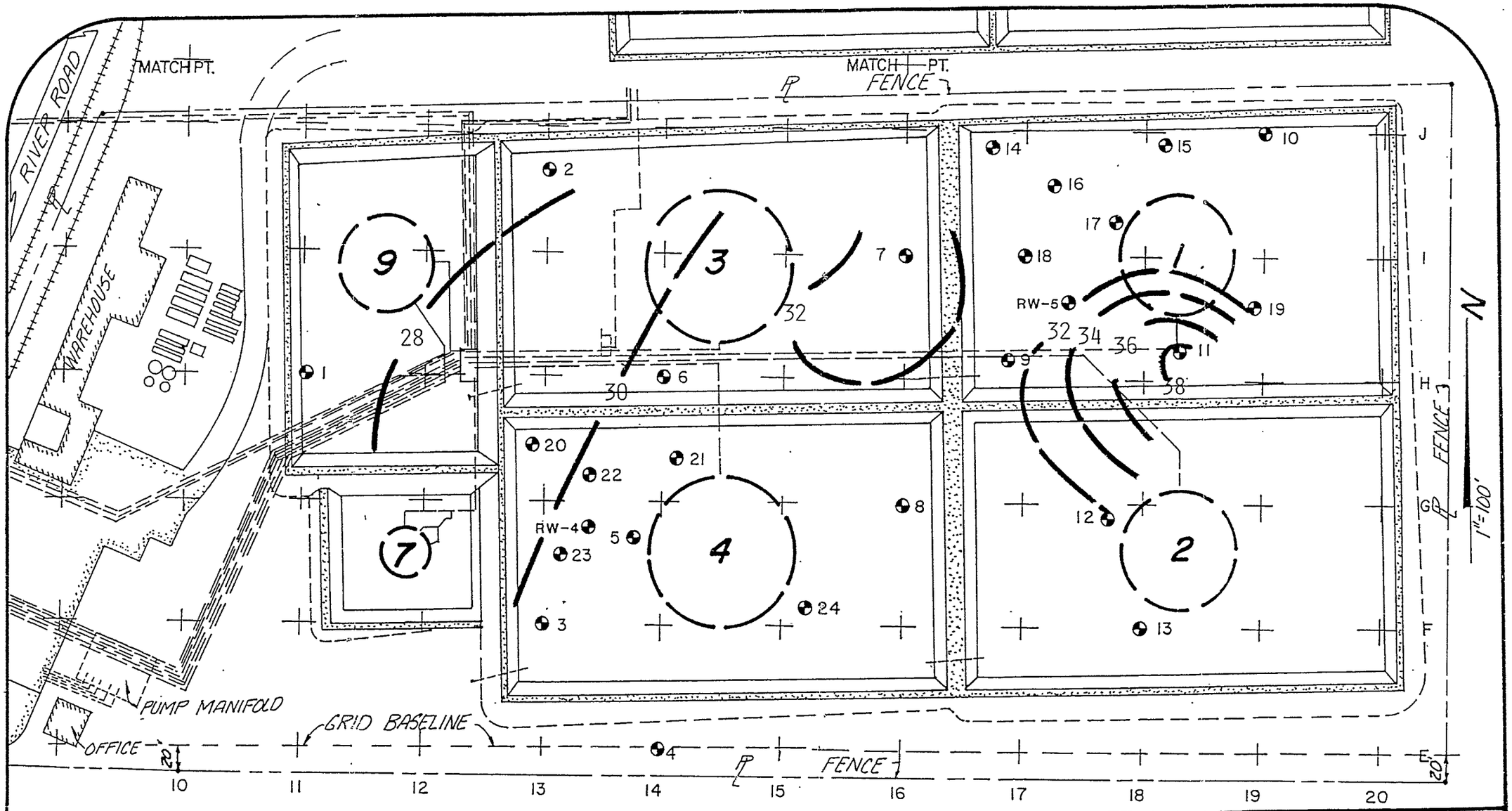

FIGURE 1
WATER TABLE CONTOURS AS OF 12/30/91
CONTOUR INTERVAL 2.00'

KOCH FUELS, INC.
WILMINGTON, N.C.

RICHARD CATLIN & ASSOCIATES, INC.

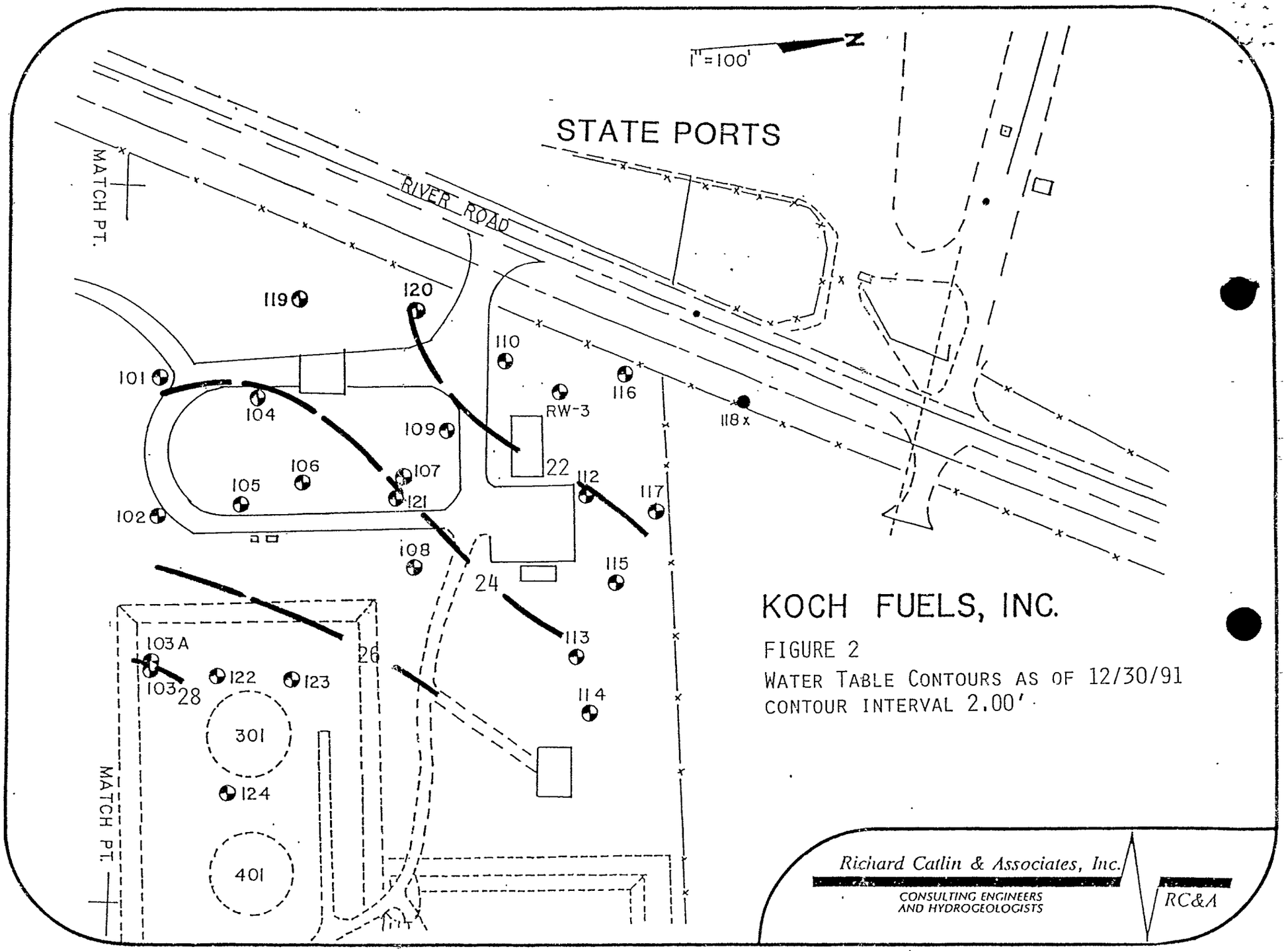

FIGURE 2
WATER TABLE CONTOURS AS OF 12/30/91
CONTOUR INTERVAL 2.00'