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Division WASTE MANAGEMENT

Section SUPERFUND

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August 27, 1987

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GROUNDWATER SECTION
RALEIGH, NC

Koch Fuels, Inc.
ATTN: Mr. Jim Strickland
P. O. Box 3958
Wilmington, N.C. 28406

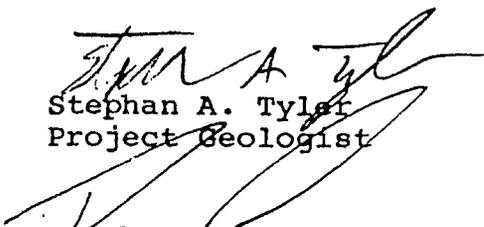
RE: Fuel Oil Recovery Project,
Koch Fuels, Inc.
Wilmington, N. C.
RC&A Project # 8729

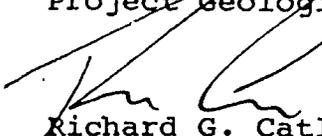
Dear Mr. Strickland:

Attached is our monthly monitoring report concerning the fuel oil recovery project at the Koch Fuels, Inc., terminal in Wilmington, N.C. An additional copy is enclosed for you to forward to Mr. Rick Shiver, P.G., of the N. C. Division of Environmental Management, 7225 Wrightsville Avenue, Wilmington, N. C. 28403-3696.

If you have any questions or requests, please do not hesitate to contact our office. We will continue to monitor the site and report to you again next month.

Sincerely,


Stephan A. Tyler
Project Geologist


Richard G. Catlin, P.E., P.G.
President

Enclosures

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WILMINGTON REGIONAL OFFICE

Home Office: P.O. Box 557 7225 Wrightsville Ave., Suite 127
Atlanta Regional Office: 1895 Phoenix Blvd., Suite 166

Wrightsville Beach, NC 28480 (919) 256-5878
Atlanta, GA 30349 (404) 997-9485

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GROUND WATER MONITORING REPORT

DATE: 8/27/87

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CLIENT: Koch Fuels, Inc.

GROUNDWATER SECTION
WILMINGTON REGIONAL OFFICE

PROJECT: Koch Fuel Oil Terminal, Fuel Oil Recovery Project,
Wilmington, NC

RC&A PROJECT #: 8729

MONITORING INTERVAL: Weekly

REPORT INTERVAL: Monthly

DATE OF PLUME MANAGEMENT DATA RETRIEVAL FOR THIS REPORT:

8/25/87

MONITORING/CLEAN-UP SYSTEM DESCRIPTION:

- 1) Monitoring Wells: Twenty three (23) - 101, 102, 103, 103A, 104, 105, 106, 107, 108, 109, 110, 112, 113, 114, 115, 116, 117, 119, 120, 121, 122, 123 & 124)
- 2) Recovery Wells: One (1) 24" - RW-3 - utilizes a suction pump for water table depression and one (1) scavenger pump for free product removal.
- 3) Discharge System:
 - a) Water: The suction pump water effluent is pumped to a double gravity separator, as a safety factor, prior to discharge to an infiltration trench.
 - b) Free Product: Free product from the scavenger pump is pumped to a product holding tank (2,000 gallon capacity).

MONITORING REQUIREMENTS: Weekly - check system; pump free product from recovery well. Monthly - measure water table elevations and accumulations of free product in all wells.

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I. FIELD DATA:

A) DATA REDUCTION OF MEASUREMENTS TAKEN ON 8/25/87:
(Refer to Figures 1 and 2.)

| <u>WELL #</u> | <u>TOP OF CASING</u> | <u>WATER TABLE DEPTH</u> | <u>PRODUCT THICKNESS</u> | <u>SPECIFIC GRAVITY ADJUSTMENT</u> | <u>WATER TABLE ELEVATION</u> |
|---------------|----------------------|--------------------------|--------------------------|------------------------------------|------------------------------|
| 101 | 28.88 | 3.44' | - | - | 25.44 |
| 102 | 29.88 | 3.66' | - | - | 26.22 |
| 103 | 38.90 | 8.91' | 0.24' | 0.18 | 30.17 |
| 103A | 38.50 | 9.27' | - | - | 29.23 |
| 104 | 28.21 | 2.93' | - | - | 25.28 |
| 105 | 29.61 | 3.72' | - | - | 25.89 |
| 106 | 28.75 | 3.14' | - | - | 25.61 |
| 107 | 29.32 | 4.53' | 0.07' | 0.05 | 24.84 |
| 108 | 30.89 | 5.20' | - | - | 25.69 |
| 109 | 30.04 | 6.64' | trace | - | 23.40 |
| 110 | 29.02 | 9.26' | - | - | 19.76 |
| 112 | 30.55 | 7.39' | 0.03' | 0.02 | 23.18 |
| 113 | 33.28 | 8.35' | 1.15' | 0.88 | 25.81 |
| 114 | 34.80 | 8.06' | trace | - | 26.74 |
| 115 | 31.98 | 7.83' | 0.03' | 0.02 | 24.17 |
| 116 | 28.90 | 7.40' | - | - | 21.50 |
| 117 | 31.33 | 8.40' | 0.04' | 0.03 | 22.96 |
| 119 | 27.40 | 3.58' | - | - | 23.82 |
| 120 | 27.64 | 4.59' | - | - | 23.05 |
| 121 | 29.30 | 3.90' | - | - | 25.40 |
| 122 | 36.52 | 7.57' | - | - | 28.95 |
| 123 | 35.29 | 8.15' | - | - | 27.14 |
| 124 | 36.78 | 5.59' | trace | - | 31.19 |
| RW-3 | 29.07 | 18.69' | 3.58' | 2.76 | 13.14 |

B) FREE PRODUCT RECOVERY DATA:

1) Free Product Recovered This Period:

| <u>DATE</u> | <u>AMOUNT</u> |
|------------------------|---------------|
| 8/3/87 through 8/25/87 | 334 gallons |

2) Free Product Recovered To Date: 511 Gallons

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C) MONITORING/RECOVERY SYSTEM STATUS:

1) Monitoring Wells:

| Date: | Measured | Observations & Modifications: |
|---------|----------|-------------------------------|
| 8/10/87 | <u>X</u> | All wells measured |
| 8/25/87 | <u>X</u> | All wells measured |

2) Recovery Well Pumps: (Suction & Scavenger Pumps)

| Date: | Operation Checked | Observations & Modifications: |
|---------|-------------------|-------------------------------|
| 8/3/87 | <u>X</u> | Operation OK |
| 8/10/87 | <u>X</u> | Operation OK |
| 8/17/87 | <u>X</u> | Operation OK |
| 8/25/87 | <u>X</u> | Operation OK |

3) Discharge System:

a) Separator:

| Date: | Operation Checked | Observations & Modifications: |
|---------|-------------------|-------------------------------|
| 8/3/87 | <u>X</u> | Operation OK |
| 8/10/87 | <u>X</u> | Operation OK |
| 8/17/87 | <u>X</u> | Operation OK |
| 8/25/87 | <u>X</u> | Operation OK |

b) Product Holding Tank:

| Date: | Checked | Observations & Modifications: |
|---------|----------|-------------------------------|
| 8/3/87 | <u>X</u> | OK |
| 8/10/87 | <u>X</u> | OK |
| 8/17/87 | <u>X</u> | OK |
| 8/25/87 | <u>X</u> | OK |

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c) Infiltration Trench:

| Date: | Checked | Observations & Modifications: |
|---------|----------|-------------------------------|
| 8/3/87 | <u>X</u> | Operation OK |
| 8/10/87 | <u>X</u> | Operation OK |
| 8/17/87 | <u>X</u> | Operation OK |
| 8/25/87 | <u>X</u> | Operation OK |

II. DISCUSSION: (Refer to Figures 1 and 2.)

A) PLUME MANAGEMENT:

1) Summary of observed changes in potentiometric surface:

Since the last report, the water table levels in wells in the cone of depression around RW-3 have risen approximately one foot, indicating a shallower cone of depression. Ground water flow across the site as a whole remains in a north-west direction, toward the Cape Fear River.

2) Is free product plume inside areal extent of monitoring/recovery system?

YES X NO

3) Comments on Plume Management:

Efforts to influence ground water flow appear to have contained the known, main free product plume at this site. The estimated extent of free floating product has decreased slightly since the last report. The isolated accumulation of free product, noted again in well 103, appears relatively insignificant, but will continue to be monitored closely.

B) FREE PRODUCT RECOVERY:

The free product accumulations measured in RW-3 during this report's monitoring period have been significantly higher than those observed during the previous report monitoring period. Free product accumulated in RW-3 was pumped weekly during August into the product holding tank.

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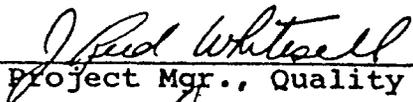
C) Recommended recovery system modifications:

a) Additions or modifications to system:

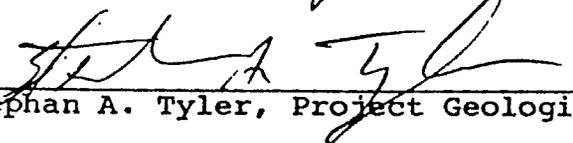
None required at the present time.

b) Special Maintenance:

None required as of last visit.



J. Reed Whitesell, Project Mgr., Quality Assurance Officer



Stephan A. Tyler, Project Geologist

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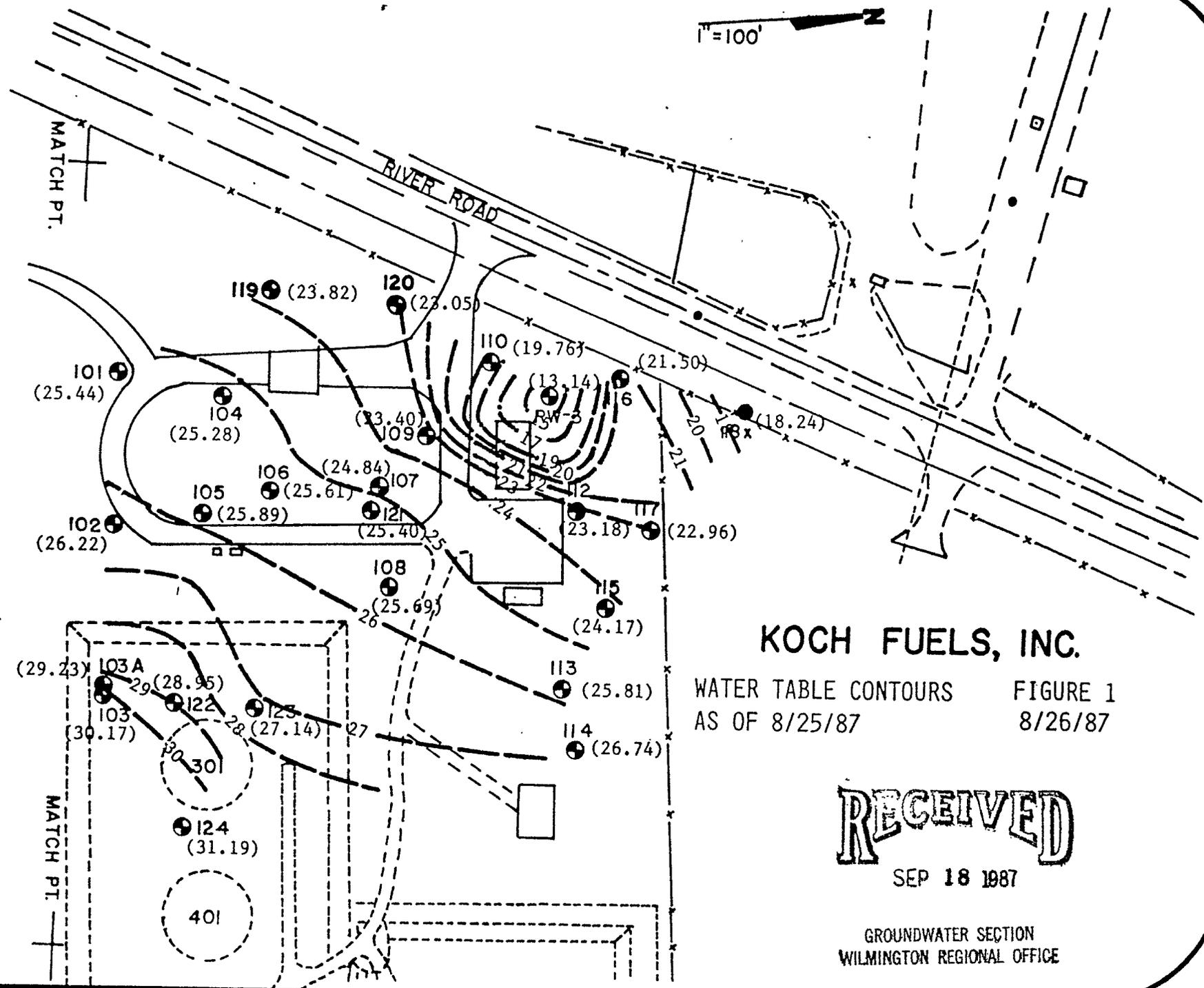
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1"=100'



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KOCH FUELS, INC.

WATER TABLE CONTOURS FIGURE 1
AS OF 8/25/87 8/26/87

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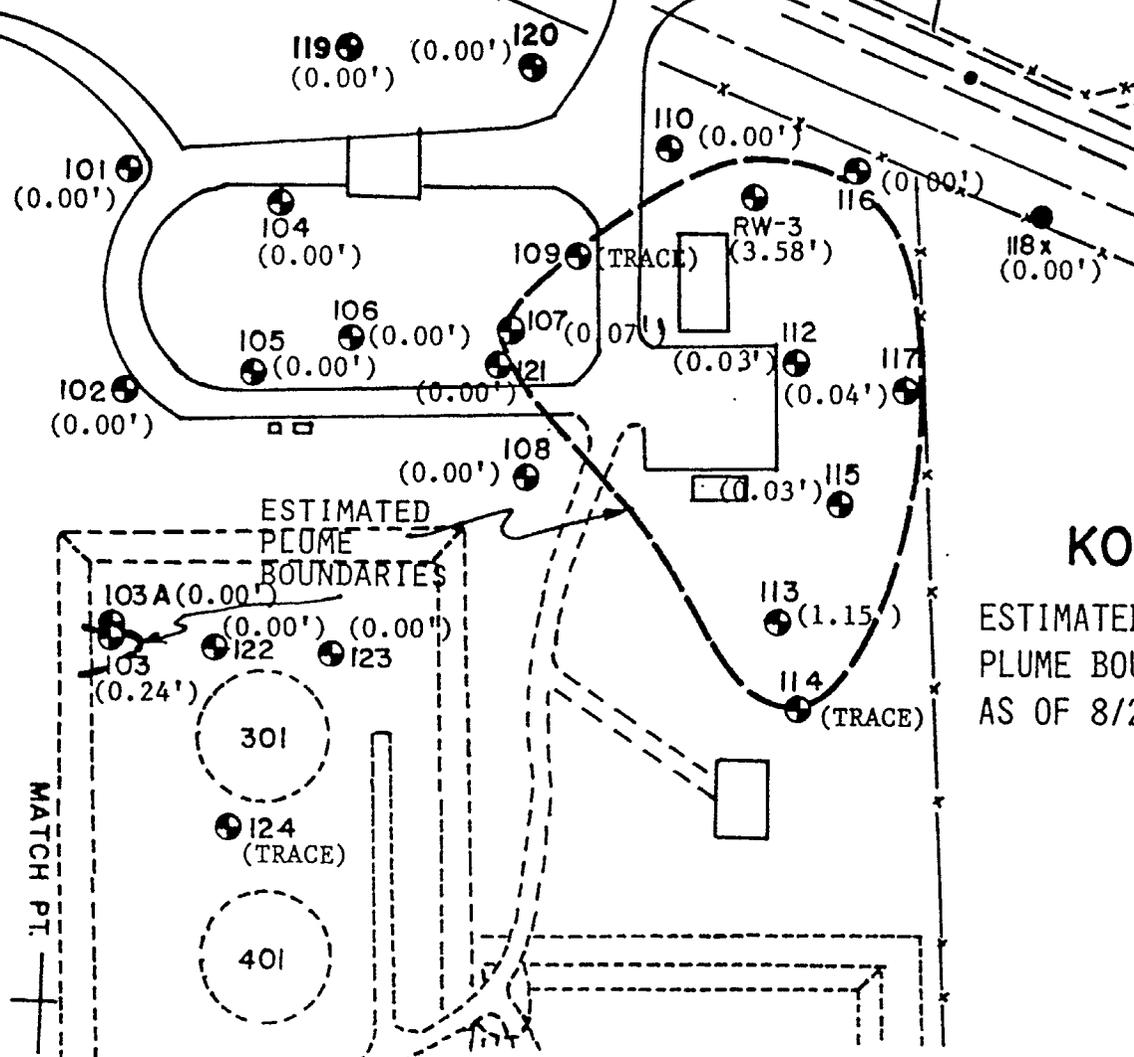
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1" = 100'

MATCH PT.

RIVER ROAD



KOCH FUELS, INC.

ESTIMATED PRODUCT PLUME BOUNDARIES AS OF 8/25/87

FIGURES 2 8/27/87

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MATCH PT.