

3R - 255

**GENERAL
CORRESPONDENCE**

YEAR(S):

1993

ENVIROTECH[®] INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

RECEIVED

OCT 07 1993

OIL CONSERVATION DIV.
SANTA FE

October 4, 1993

Mr. William C. Olson
Hydrogeologist
Environmental Bureau
New Mexico Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87504

RE: Additional Information Requested
Gary Energy Transportation Spill Report
Rio Arriba County, New Mexico

Project No: 93178

Dear Mr. Olson:

As per the request of Gary-Williams Energy Corporation, this letter is in response to your correspondence to Mr. Chris Hawley of said company dated September 17, 1993. The correspondence requested additional information concerning the report "EMERGENCY SPILL RESPONSE & CLEANUP, PETROLEUM HYDROCARBON SPILL, GARY ENERGY TRANSPORTATION, RIO ARRIBA COUNTY, NEW MEXICO." Attached is a copy of your correspondence.

Based on your September 17, 1993 letter, there was some uncertainty regarding the final disposition of the excavation effort in the areas of samples #1, 3, 7, 12, and 16. I wish to assure the NMOCD that Envirotech recognized the reference sample results exceeded NMOCD cleanup standards. Additional excavation was made in each of those sample areas and the final excavation re-sampled and tested. Table 1 in Section 3 of the above referenced report is attached.

The following summarizes the additional efforts made prior to determining each area met NMOCD closure requirements in the referenced areas of concern:

- The area indicated by composite sample #1 was sampled again after an additional (1) foot of contaminated soil was excavated and was designated as sample #2.
- The area indicated by composite sample #3 was sampled again after an additional (5) feet of contaminated soil was excavated and was designated as sample #15.

NMOCD W.C. Olson: Spill Report Info.
ENVIROTECH INC.

October 04, 1993
Project No: 93178

- The area indicated by north sidewall sample #7 was sampled again after an additional (10) feet of sidewall was excavated to the north. The sample taken at the new limit of excavation was designated as sample #14.
- The area indicated by composite sample #12 was re-sampled again after an additional (0.5) foot of contaminated soil was removed by excavation and designated as sample #16. When that composite sample indicated hydrocarbon levels still above OCD action levels, an additional (1.5) feet of soil was excavated. The final composite sample for that area was designated #27. This sample showed conformance to NMOCD closure standards.

A site diagram is attached indicating all final excavation boundary sampling points. Please note that the circled sampling points are composite bottom samples covering the area enclosed within the block lines. All sampling was performed according to the NMOCD approved sampling plan as outlined in the attached correspondence dated August 16, 1993. Each composite sample consisted of five (5) grab soil samples collected arbitrarily from the sample area indicated within the block.

We trust this additional clarification of the original report will satisfy your questions. If you have any further questions or we can be of assistance in any other matters please contact us.

Respectfully Submitted,
ENVIROTECH INC.



Robert E. O'Neill
Environmental Engineer

xc: Chris Hawley, Gary-Williams
Denny Foust, NMOCD Aztec Office

REO/reo

93178-WO.LET



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

93178



BRUCE KING
GOVERNOR

September 17, 1993

ANITA LOCKWOOD
CABINET SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED MAIL

RETURN RECEIPT NO. P-667-242-385

Mr. Chris Hawley
Environmental Manager
Bloomfield Refining Company
P.O. Box 159
Bloomfield, New Mexico 87413

RE: FINAL TRANSPORTATION SPILL REPORT
RIO ARRIBA COUNTY, NEW MEXICO

Dear Mr. Hawley:

The New Mexico Oil Conservation Division (OCD) is in the process of reviewing the Gary-Williams Energy Corporation's August 1993 "EMERGENCY SPILL RESPONSE & CLEANUP, PETROLEUM HYDROCARBON SPILL, GARY ENERGY TRANSPORTATION, RIO ARRIBA COUNTY, NEW MEXICO". This report documents the remediation of hydrocarbons lost from a tanker truck accident.

Table 1 in Section 3 of the above referenced report contains the results of soil samples taken during the removal of contaminated soils. The sample results for sample numbers 1, 3, 7, 12, and 16 indicate that contaminated bottom soils were present above OCD action levels and were subsequently removed. However, the report does not contain the final contaminant levels remaining upon removal of the soils in the area of these samples. Please supply OCD with this information.

Receipt of this information will allow OCD to complete a review of this report. If you have any questions or if I can be of any assistance please contact me at (505) 827-5885.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: OCD Aztec Office
Ed Horst, NMED Hazardous and Radioactive Materials Bureau

Table 1
OVM AND EPA 418.1 RESULTS
SAMPLES TAKEN AUGUST 12-19, 1993
EMERGENCY SPILL RESPONSE & CLEAN-UP
PETROLEUM HYDROCARBON SPILL
GARY ENERGY TRANSPORTATION
CHROMO SPILL SITE

| SAMPLE # | LOCATION | OVM (PPM) | 418.1 (PPM) |
|----------|----------------------|-----------|-------------|
| 1 * | SPILL AREA @ 1' COMP | 64 | > 1000 F |
| 2 | SPILL AREA @ 2' COMP | 29 | 98 F |
| 3 * | B @ 3' COMP | 550 | - |
| 4 | WS @ 4' | 5.5 | ND L |
| 5 | WS @ 4' | 2.8 | ND L |
| 6 | ES @ 4' | 2.8 | 7.8 L |
| 7 * | NS @ 5' | 162 | 176 L |
| 8 | ES @ 5' | 8.6 | 7.8 L |
| 9 | B @ 7' COMP | 129 | 54 L |
| 10 | WS @ 5' | 2.8 | 9.1 L |
| 11 | ES @ 5' | 2.8 | ND L |
| 12 * | B @ 7' COMP | 217 | 820 L |
| 13 | SB @ 5' (WATER) | - | - |
| 14 | NS @ 5' | 15.7 | 20 F |
| 15 | NB @ 8' | 31 | 44 F |
| 16 * | B @ 7.5' COMP | 110 | 410 L |
| 17 | B @ 5' COMP | 37 | 60 F |
| 18 | WS @ 4' | 2.0 | 30 F |
| 19 | ES @ 4' | 5.4 | 28 F |
| 20 | WS @ 4' | 2.0 | 22 F |
| 21 | ES @ 4' | 2.7 | 26 F |
| 22 | ES @ 4' | - | 9.1 L |
| 23 | ES @ 4' | - | 8.8 L |
| 24 | SS @ 2' | - | 12.6 L |

Table 1 cont.
OVM AND EPA 418.1 RESULTS
SAMPLES TAKEN AUGUST 12-19, 1993
EMERGENCY SPILL RESPONSE & CLEAN-UP
PETROLEUM HYDROCARBON SPILL
GARY ENERGY TRANSPORTATION
CHROMO SPILL SITE

| SAMPLE # | LOCATION | OVM (PPM) | 418.1 (PPM) |
|----------|-------------|-----------|-------------|
| 25 | WS @ 3' | - | 8.8 L |
| 26 | WS @ 4' | - | 9.7 L |
| 27 | B @ 9' COMP | 21 | 21.9 L |
| 28 | WS | 1.9 | - |
| 29 | WS | 8.2 | - |
| 30 | WS | 30.1 | - |
| 31 | SS | 4.2 | - |
| 32 | SS | 18.1 | - |
| 33 | ES | 20.7 | - |
| 34 | ES | 4.2 | - |
| 35 | ES | 4.2 | - |
| 36 | B | 7.2 | - |
| 37 | B | 67.5 | - |
| 38 | B | 2.1 | - |

Notes: PPM = parts per million equivalent to mg/Kg
OVM = Organic Vapor Meter
418.1 = EPA Method 418.1 for Total Petroleum Hydrocarbons
F = Field Modified 418.1
L = Laboratory 418.1
COMP = composite sample (all other samples are grab)
ND = not detected
WS = west side
ES = east side
NS = north side
B = bottom
SB = south bottom
NB = north bottom
* = sample location subsequently removed by additional excavation
Sample #13 is a water sample, all others are soil.
** NMOC standard is less than 100 ppm TPH and/or 100 ppm as measured by a field OVM.

Table 2
 EPA METHOD 8020 RESULTS
 SAMPLES TAKEN AUGUST 12-19, 1993
 EMERGENCY SPILL RESPONSE & CLEAN-UP
 PETROLEUM HYDROCARBON SPILL
 GARY ENERGY TRANSPORTATION
 CHROMO SPILL SITE

| SAMPLE | EPA METHOD 8020 (PPB) | | | | |
|--------|-----------------------|---------|-----------|---------|----------|
| # | BENZENE | TOLUENE | ETHYL-BEN | XYLENES | TOTAL ** |
| 7 * | ND | 70 | ND | 60.0 | 130.0 |
| 9 | ND | 72 | ND | 84.6 | 156.6 |
| 12 * | ND | 80 | 27.5 | 297.0 | 404.5 |
| 13 | ND | ND | ND | ND | ND |
| 16 * | ND | 81 | ND | ND | 81 |

Notes: PPB = parts per billion equivalent to ug/Kg
 ETHYL-BEN = Ethyl-benzene
 ND = not detected
 Sample #13 is water sample, all others are soil.
 * = Sample location subsequently removed by additional excavation.
 ** = NMOCD cleanup standard for Total BTEX is 50,000 ppb.

KEY

→ = DRAINAGE

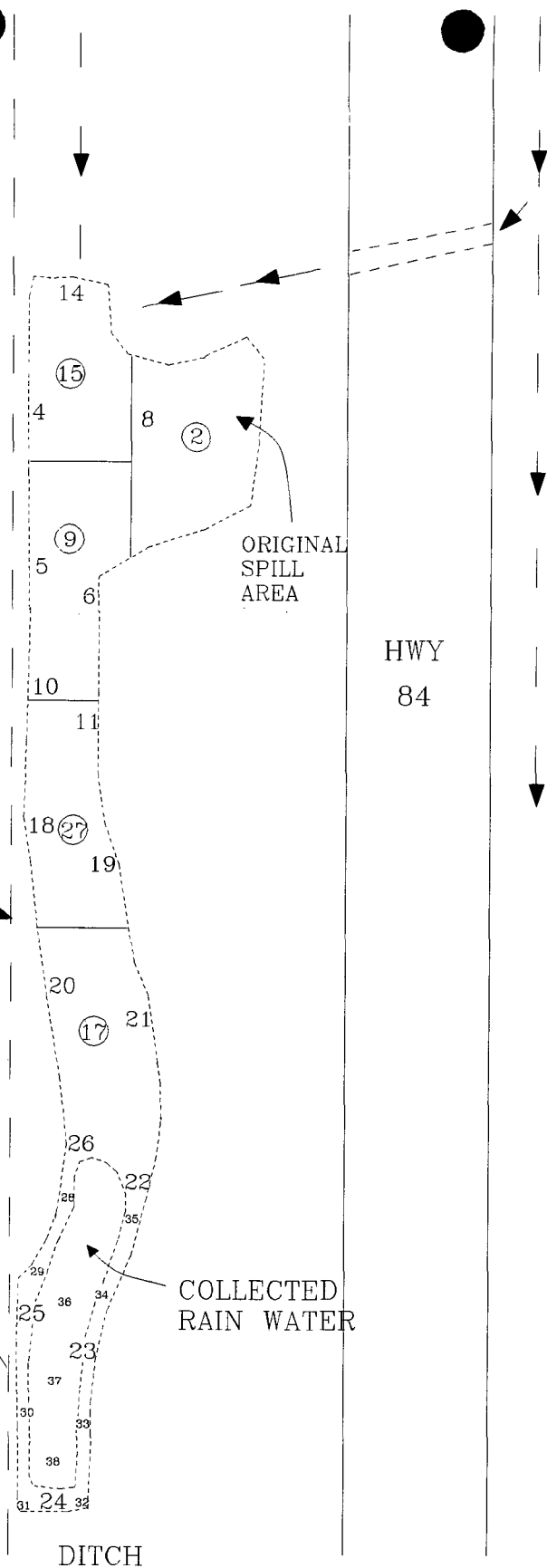
14 = GRAB SAMPLE

⑮ = COMPOSITE SAMPLE

SCALE

0 10' 40'

SAMPLE LOCATIONS AND EXCAVATION DIMENSIONS WERE DETERMINED BY TAPING, PACING, AND SIGHTING FROM THE EXISTING ROADWAY AND TOPOGRAPHIC FEATURES. THE SAMPLE LOCATIONS SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE MEASUREMENT METHOD USED.



HWY
84

FENCE

ORIGINAL
SPILL
AREA

COLLECTED
RAIN WATER

WEST DITCH ELEVATION
APPROXIMATELY 15' LOWER
THAN HIGHWAY.

DITCH

DITCH

GARY ENERGY TRANSPORTATION
CHROMO SPILL INCIDENT
EXCAVATION AND ABATEMENT
RIO ARRIBA COUNTY, NEW MEXICO
(N) SECTION 24, T32N, R1E

ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

FINAL
EXCAVATION
SAMPLE
LOCATIONS

SHEET A2

DRWN: MKL
REVISED: REO
FILE: 93178-1
DATE: 10-04-93

PROJECT NO: 93178

AUGUST 1993

ENVIROTECH INC.

File Copy
#93178
UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

August 16, 1993

Mr. William Olson
Hydrologist
New Mexico Oil Conservation Division
Environmental Bureau
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

RE: Sampling Plan
Gary Energy Transportation Spill
U.S. Highway 84, Mile Marker 286
Rio Arriba County, New Mexico

Project: 93178

Dear Mr. Olson:

Following our conversation of this morning, this letter is to confirm the sampling plan to close the spill site for the referenced spill incident.

Abatement of the spill is currently on-going with the excavation and removal of soils contaminated with crude oil from a Gary Energy Transportation truck which overturned and lost approximately 80 bbl. Envirotech's field crew is removing those soils which have visible discoloration and/or distinct petroleum odor.

To verify closure the following sampling plan will be performed to confirm closure using the current pit closure guidelines⁽¹⁾.

A minimum of one (1) grab soil sample per every thirty (30) linear feet of five foot (5') sidewall will be collected and analyzed for hydrocarbon contamination.

A minimum of one (1) composite soil sample per 1000 square feet of excavation bottom will be collected and analyzed for hydrocarbon contamination. Five (5) grab soil samples collected arbitrarily from the sample area will be used for composite sample.

Hydrocarbon contamination to be tested for total petroleum hydrocarbons (TPH) per EPA 418.1 (soil modification) and total volatile organic vapors per the Field Soil Vapor Headspace Method⁽¹⁾. The remediation levels for this site are based on a NMOCD "Ranking Score" of >19 [ie: Organic Vapors and TPH < 100 ppm]⁽¹⁾.

NMOCD Olson: Sampling Plan
ENVIROTECH INC.

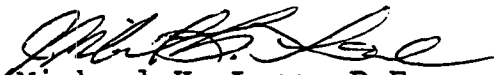
August 16, 1993
Project: 93178

A report documenting the abatement will be prepared following completion of this project.

This sampling plan anticipates that the results of the pending TCLP analyses will classify the wastes as non-hazardous per RCRA [40 CFR 263], and the only contamination of concern is hydrocarbons.

Please contact Mr. Michael Lane at (505) 632-0615 if you have any questions and/or further comments. Thank you for your assistance with this project.

Respectfully submitted,
ENVIROTECH INC.


Michael K. Lane, P.E.
Geological Engineer

CC: Denny Foust, NMOCD Aztec Office
Dale Wright, Gary Energy Transportation, Bloomfield Office

Reference: (1) "Unlined Surface Impoundment Closure Guidelines," New Mexico Oil Conservation Division, February 1993.



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

September 17, 1993

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

ANITA LOCKWOOD
CABINET SECRETARY

CERTIFIED MAIL
RETURN RECEIPT NO. P-667-242-385

Mr. Chris Hawley
Environmental Manager
Bloomfield Refining Company
P.O. Box 159
Bloomfield, New Mexico 87413

**RE: FINAL TRANSPORTATION SPILL REPORT
RIO ARRIBA COUNTY, NEW MEXICO**

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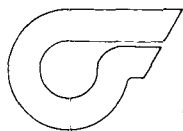
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Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: OCD Aztec Office
Ed Horst, NMED Hazardous and Radioactive Materials Bureau



Bloomfield Refining
Company

A Gary Energy Corporation Subsidiary

OIL CONSERVATION DIVISION
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September 1, 1993

Mr. William Olson
New Mexico Oil Conservation Division
Environmental Bureau
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Mr. Denny Foust
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

Mr. Ed Horst
New Mexico Environment Department
Hazardous Waste Bureau
P.O. Box 26110
Santa Fe, New Mexico 87502

RE: Final Report
Emergency Spill Response & Clean-up
Petroleum Hydrocarbon Spill
Gary-Williams Energy Corporation
6 miles south of Chromo, Colorado, U.S. Highway 84
(N) Sec 24, T32N, R1E, Rio Arriba County, New Mexico

Dear Sirs:

Enclosed please find a copy of the final report for the Emergency Spill Response and Clean-up for the above referenced site.

Please contact me or Dale Wright if you need any additional information.

Sincerely,

Chris Hawley
Environmental Manager

CH/jm

Enclosure

cc: Dale Wright
Dave Roderick
Joe Warr
Don Hamilton



State of New Mexico
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT
Santa Fe, New Mexico 87505

STATE OF
NEW MEXICO
OIL
CONSERVATION
DIVISION

MEMORANDUM OF MEETING OR CONVERSATION



Telephone



Personal

Time

0945

Date

8/19/93

Originating Party

Other Parties

Dill Olson - Envir. Bureau

Mike Lane - Envirostat

Subject

Gary Energy Cade Spill

Discussion

Told him OED cannot approve, simply plan until
TCLP and hgt. characteristics determined to be non hgt.

Soils already been sampled awaiting results

Conclusions or Agreements

He will

Distribution

Signed

Will Olson

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION
RECEIVED

5796 U.S. HIGHWAY 64 - 3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

'93 AUG 18 AM 8 55

August 16, 1993

Mr. William Olson
Hydrologist
New Mexico Oil Conservation Division
Environmental Bureau
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

RE: Sampling Plan
Gary Energy Transportation Spill
U.S. Highway 84, Mile Marker 286
Rio Arriba County, New Mexico

Project: 93178

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August 16, 1993
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Michael K. Lane, P.E.
Geological Engineer

CC: Denny Foust, NMOCD Aztec Office
Dale Wright, Gary Energy Transportation, Bloomfield Office

Reference: (1) "Unlined Surface Impoundment Closure Guidelines," New Mexico Oil Conservation Division, February 1993.