

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 Project No: 93178
Gary Energy Transportation Spill Report
Rio Arriba County, New Mexico

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

93178



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**

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.
 ** NMOCD cleanup 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

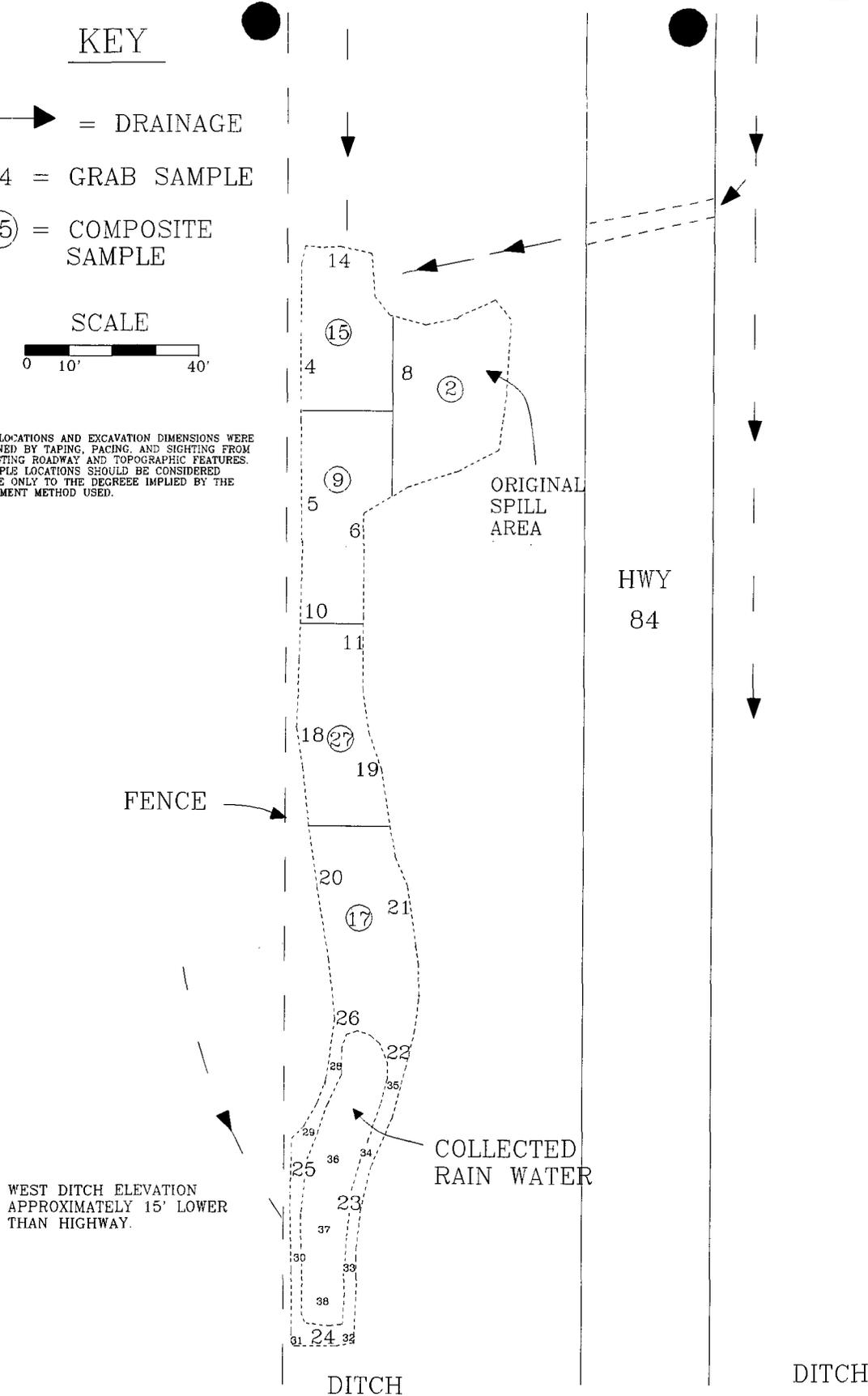
Notes: PPB = parts per billion equivalent to ug/Kg
 ETHYL-BEN = Ethyl-benzene
 ND = not detected
 Sample #13 is water sample, all others are soil.
 * = Sample location subsequently removed by additional
 excavation.
 ** = NMOCD cleanup standard for Total BTEX is 50,000 ppb.

KEY

- ▶ = DRAINAGE
- 14 = GRAB SAMPLE
- ⑮ = COMPOSITE SAMPLE



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.



WEST DITCH ELEVATION APPROXIMATELY 15' LOWER THAN HIGHWAY.

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

PROJECT NO: 93178

AUGUST 1993

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

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

File Copy
#93178

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

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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
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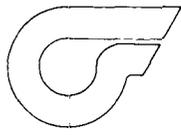
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Hydrogeologist
Environmental Bureau

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

Bill Olson - Envir. Bureau

Mike Lane - Envirostat

Subject

Gary Energy Cude Spill

Discussion

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

Soils already been sampled awaiting results

Conclusions or Agreements

He will

Distribution

Signed

Bill Olson

ENVIROTECH INC.

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

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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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Michael K. Lane, P.E.
Geological Engineer

CC: Denny Foust, NMOCD Aztec Office
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Reference: (1) "Unlined Surface Impoundment Closure Guidelines," New Mexico Oil Conservation Division, February 1993.