



Det. LKS - Reg III

# Minnesota Pollution Control Agency

Celebrating our 25th anniversary and the 20th anniversary of the Clean Water Act

July 7, 1992

RECEIVED

JUL 09 1992 Leak 2245

WM	
JZ	
AF	
DB	
FILE	

Mr. Dale Groskupf  
 Big Chief Amoco  
 P.O. Box 381  
 Fergus Falls, Minnesota 56537

Dear Mr. Groskupf:

RE: Completion of Land Treatment Soil Monitoring Requirements  
 Leaksite: Big Chief Cafe and Station, Fergus Falls  
 Site ID#: LEAK00002245

On August 20, 1990, the Minnesota Pollution Control Agency (MPCA) issued a letter of approval for land treatment of petroleum contaminated soil excavated from the site referenced above. The approval letter specified that additional follow-up monitoring of the land treated soil is required at the land treatment site.

The MPCA staff has received and reviewed the monitoring results for soil samples collected at the land treatment site. The results indicate that the soil has been adequately treated. Therefore, no further follow-up soil monitoring and tillage is required for this soil.

Please contact me at 612/297-8582, if you have any questions.

Sincerely,

Robyn Livermore  
 Project Leader  
 Tanks and Spills Section

RLL:np

cc: Thomas Burau, Township Clerk, Fergus Falls  
 Malcolm Lee, Otter Tail County Solid Waste Officer, Fergus Falls  
 Terry Johnson, Twin City Testing, Fargo

APPLICATION TO LAND APPLY PETROLEUM CONTAMINATED SOIL

Minnesota Pollution Control Agency  
Tanks and Spills Section  
April 25, 1990

Refer to the MPCA document "Land Application of Petroleum Contaminated Soil: Single Application Sites" for specific information on acceptable soil and site criteria.

I. BACKGROUND INFORMATION

- A. Tank owner/operator mailing address: Contact: Dale Groskupf  
Company name: Big Chief Amoco  
Street/Box: P.O. Box 381  
City, Zip: Fergus Falls 56537  
Phone: (218) 739-9648
- B. Site from which contaminated soil originated: Company name: Big Chief Amoco  
Street: U.S. Highway 59 & I-94  
City, Zip: Fergus Falls, Mn.  
County: Otter Tail
- C. Address or legal description of land spreading site: Contact: Dale Groskupf  
Street: U.S. Highway 59 S. & I-94  
City, Zip: Fergus Falls 56537  
Phone: (218) 739-9648
- D. Consultant (or other) preparing this form: Contact: Rich Romoess  
Company name: Twin City Testing Corp.  
Street/Box: 2105 7th Ave. N.  
City, Zip: Fargo, ND 58102  
Phone: (701) 235-4256
- NW 1/4 of NW 1/4 of Sect. 31,  
Twp. 132N, Range 42W Township Name Dave Prairie
- E. MPCA Site ID#: LEAK0000 2245
- F. Volume of soil to be land applied (cubic yards): 300
- G. Projected date of application of soil: Aug. 1, 1990
- H. Have there been past waste disposal activities at the proposed site?  
No  Yes  , please explain.

II. SITE AND SOIL CHARACTERISTICS

- A. Site slope (percent): 3%
- B. Distance to surface water (feet or miles): 3/4 mi.
- C. Distance to nearest building or residence (feet): 200 ft.
- D. Depth to seasonal high water table (feet): 96 ft.
- Depth to field tile lines (feet): N/A
- If bedrock exists at 8 feet or less, indicate depth (feet): \_\_\_\_\_
- E. Area of land to be used (square feet or acres): 1/2 Acre
- F. Spreading thickness (inches): 6 inches

III. SOIL SAMPLING RESULTS

A. If soil nutrient tests were conducted, list the results below:

Sample #	Organic Matter, %	Extractable Phosphorus, ppm
_____	_____	_____
_____	_____	_____
_____	_____	_____

MIKE HAWAW. Co SO WAST off

If fertilizers will be applied, provide application rates:  
\_\_\_ lbs. nitrogen/acre, \_\_\_ lbs. P<sub>2</sub>O<sub>5</sub>/acre, \_\_\_ lbs. sulfur/acre

B. Circle the type(s) of petroleum contamination: unleaded gas, regular gas, diesel fuel, No. 2 fuel oil, waste oil, other (please specify) UNKNOWN.

List the appropriate soil sample analytical results from the excavated contaminated soil (refer to the MPCA document "Soil and Ground Water Analysis at Petroleum Release Sites"). If the petroleum was not gasoline or fuel oil attach a separate table.

Sample #	THC as gas or FO ppm	Benzene ppm	Ethyl-benzene ppm	Toluene ppm	Xylene ppm	MTBE ppm	Lead ppm
<u>2425</u>	<u>3,400</u>	<u>ND</u>	<u>ND</u>	<u>ND</u>	<u>ND</u>	<u>N/A</u>	<u>18.4</u>
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

NOTE: ATTACH COPIES OF LABORATORY RESULTS AND CHAIN OF CUSTODY FORMS

IV. FIGURES

Include the following figures:

- A. Copy of county soil survey map (if the county has been mapped) with copies of the interpretation tables or interpretation sheets.
- B. Site location map with exact application location marked (scale should be approximately one inch = 50 feet)

\*\*\*\*\*

Signature and Title of MPCA Staff Inspector (or other authorized inspector):

Ray Kelly Date Inspected : 7-23-90

Signature and Title of County Official: Michael Hawaw

Signature and Title of City/Township Official: David M. ... Vice Chairman  
David P. Thompson

\*\*\*\*\*

Mail to: Minnesota Pollution Control Agency  
Hazardous Waste Division  
Tanks and Spills Section  
520 Lafayette Road  
St. Paul, Minnesota 55155  
Attention: (Project Manager)

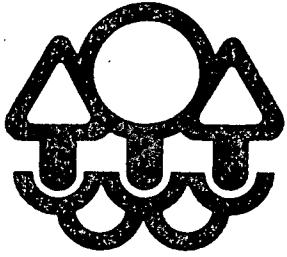
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# DANE PRAIRIE

T. 132 N. - R. 42 W. <sup>23</sup>

SEE PAGE 73





Minnesota Pollution Control Agency

FILE COPY



MINNESOTA 1990

August 20, 1990

Mr. Dale Groskupf  
Big Chief Amoco  
P.O. Box 381  
Fergus Falls, Minnesota 56537

Dear Mr. Groskupf:

RE: Approval of Land Application of Petroleum Contaminated Soil  
Site: NW $\frac{1}{4}$  of NW $\frac{1}{4}$  of Section 31, T132N, R42W, Otter Tail County, Minnesota  
Site ID#: 2245

The application you submitted dated August 9, 1990, to land apply approximately 300 cubic yards of petroleum contaminated soil is hereby approved by staff of the Minnesota Pollution Control Agency (MPCA). This approval is based upon the MPCA staff's understanding that the appropriate county and local officials have been notified and/or have given approval for the land application of this soil and is subject to the following additional conditions:

1. Stockpiled soils shall be protected from infiltration and runoff prior to land application.
2. Soil shall be applied to land located at the NW $\frac{1}{4}$  of NW $\frac{1}{4}$  of Section 31, T132N, R42W, Otter Tail County, Minnesota.
3. Soil shall be spread to a thickness of no more than 2 inches and incorporated into the top six inches of native soil per MPCA document "Land Application of Petroleum Contaminated Soil: Single Application Sites" (April 25, 1990). Soils shall be disked once per month during the growing season.
4. The land-applied soil shall be sampled and reports shall be submitted in accordance with part III.c of the MPCA land application document until analyses indicate 10 parts per million total petroleum hydrocarbons or lower. The MPCA form entitled "Soil Monitoring Results for Land-Applied Petroleum Contaminated Soil" should be used for reporting.

We believe these actions will provide adequate treatment of petroleum contaminated soils. The MPCA reserves the right to require additional work if this is determined to be necessary to protect public health and the environment. This letter does not release any party from liability for this contamination.

714 Lake Avenue, Suite 220, Detroit Lakes, Minnesota 56501, Phone 218/847-1519

Regional Offices: Duluth • Brainerd • Detroit Lakes • Marshall • Rochester

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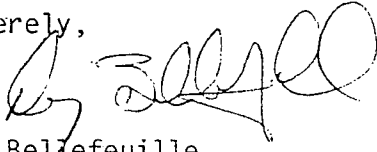
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Page Two

Please contact me at 218/847-1519 if you have any further questions.

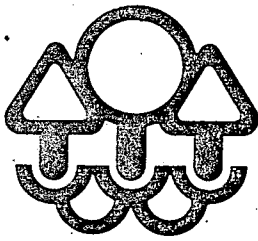
Sincerely,



Doug Beltefeuille  
Regional Specialist  
Northwest Regional Office

DB:sb

cc: Gerald Thompson, Chairman, Dane Prairie Township Board  
Mike Hanan, Otter Tail County Solid Waste Officer  
Robyn Livermore, Hazardous Waste Division, MPCA, St. Paul  
George Johnson, Hazardous Waste Division, MPCA, St. Paul



# Minnesota Pollution Control Agency

520 Lafayette Road, Saint Paul, Minnesota 55155

Telephone (612) 296-6300

Doug Negin 3 Bellefleur



MINNESOTA 1990

RECEIVED  
FEB 12 1990  
MINNESOTA POLLUTION CONTROL AGENCY  
SAINT PAUL, MINNESOTA

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

February 8, 1990

Mr. Dale Groskopf  
Big Chief Amoco  
Rural Route 5, Highway 59  
Fergus Falls, Minnesota 56537

Dear Mr. Groskopf:

RE: Petroleum Storage Tank Release Investigation and Corrective Action/Second Release  
Site: Big Chief Cafe and Station, Highway 59 South and I-94, Fergus Falls  
Site ID#: LEAK00002245

The Minnesota Pollution Control Agency (MPCA) has received your notification that a release of petroleum has occurred from storage tank facilities which you own and/or operate. The first report of the release was made to MPCA staff on January 17, 1990.

Federal and state laws require that persons legally responsible for storage tank releases notify the MPCA of the release, investigate the extent of the release and take actions needed to ensure that the release is cleaned up. A person is generally considered legally responsible for a tank release if the person owned or operated the tank either during or after the release.

We are aware that an initial investigation of the site, has occurred and 100 cubic yards of petroleum contaminated soils were identified (please see enclosed land application). In addition, because we have not received any sampling data according to the enclosed fact sheet, we are requesting you to take the necessary steps to investigate and clean up the release in accordance with the enclosed "Petroleum Tank Release Investigation Report." Please note, this may mean performing one boring per tank basin. To do this it is recommended that a qualified consulting firm be hired who has experience in conducting petroleum release site investigations and corrective actions.

If you do perform the requested work, the state may reimburse you for a major portion of your costs. The Petroleum Tank Release Cleanup Act establishes a fund which in certain circumstances provides partial reimbursement for petroleum tank release cleanup costs. This fund is administered by the Petroleum Tank Release Compensation Board (Petro Board). More specific eligibility rules are available from the Petro Board (612/297-4017).

Please respond to this letter either in writing or by telephone within 30 days after receipt of this letter. Your response should indicate whether or not you intend to proceed with the necessary corrective action, whom you have chosen to do the work and a schedule for implementation. Use of the above site ID number will facilitate quick processing.

Mr. Dale Groskopf

Page 2

February 8, 1990

If you do not respond within 30 days, MPCA staff will assume you do not intend to comply with this request. In this event, the MPCA Commissioner may order you to take corrective action. If not complied with, the Commissioner's order could be enforced in court or, alternatively, the MPCA could spend its own money cleaning up the release and then seek to recover its costs from responsible persons through legal action. Failure to cooperate with the MPCA in a timely manner may also result in reduced reimbursement from the Petro Board.

If you conclude that the release in question is not from any tank which you have owned or operated, please notify the MPCA immediately and explain the basis of your conclusion. In addition, please notify me within 24 hours of discovery of free floating petroleum product on the surface of the ground water, and notify me three days before removing any tanks.

The following fact sheets are also enclosed for your review:

- Selecting an Environmental Consultant
- Excavation of Petroleum Contaminated Soil
- Six Steps to a Petroleum Contaminated Soil
- Minnesota's Storage Tank Program
- Sampling Requirements During Tank Closure

Please feel free to contact me at any time you need information or assistance in these matters. My telephone number is 612/643-3429.

Thank you.

Sincerely,



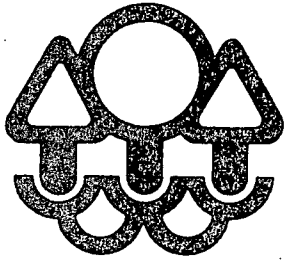
Linda J. Tanner  
Project Leader  
Tanks and Spills Section  
Hazardous Waste Division

LJT:kra

Enclosures

cc: James Nitchals, City Administrator, Fergus Falls  
Burke Schultz, Fire Chief, Fergus Falls  
Dennis J. Roers, First National Bank, Fergus Falls, with enclosures  
Terry Kraft, O'Day Equipment, Inc., Fargo, North Dakota, with enclosures  
Dennis Delzer, Delzer Construction, Dalton, with enclosures





Minnesota Pollution Control Agency

FILE COPY



MINNESOTA 1990

August 20, 1990

Mr. Dale Groskupf  
Big Chief Amoco  
P.O. Box 381  
Fergus Falls, Minnesota 56537

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RE: Approval of Land Application of Petroleum Contaminated Soil  
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Site ID#: 2245

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We believe these actions will provide adequate treatment of petroleum contaminated soils. The MPCA reserves the right to require additional work if this is determined to be necessary to protect public health and the environment. This letter does not release any party from liability for this contamination.

714 Lake Avenue, Suite 220, Detroit Lakes, Minnesota 56501, Phone 218/847-1519  
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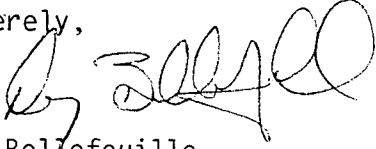
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Page Two

Please contact me at 218/847-1519 if you have any further questions.

Sincerely,



Doug Beltefeuille  
Regional Specialist  
Northwest Regional Office

DB:sb

cc: Gerald Thompson, Chairman, Dane Prairie Township Board  
Mike Hanan, Otter Tail County Solid Waste Officer  
Robyn Livermore, Hazardous Waste Division, MPCA, St. Paul  
George Johnson, Hazardous Waste Division, MPCA, St. Paul



**twin city testing**  
corporation

2105 7th AVE. NO.  
FARGO, ND 58102-3293  
PHONE 701/235-4256  
FAX 701/235-0807

November 19, 1991

Minnesota Pollution Control Agency  
Tanks and Spills Section  
520 Lafayette Rd.  
St. Paul, MN 55155-3898

Attn: Ms. Robyn Livermore

Subj: Big Chief Amoco  
Land Application Soil Treatment  
Fergus Falls, Minnesota  
Leak#00002245

**RECEIVED**

**NOV 22 1991**

WM	JF
IZ	BP
AE	SB
TR	
TH	

This letter is written in regarding the completion of land application of petroleum contaminated soils at the above referenced site. Attached is the soil monitoring results form for your review.

If you have any questions please feel free to contact me at 701-235-4256.

TWIN CITY TESTING CORPORATION

Terry Johnson  
Project Manager

pc: Doug Bellefeuille, Detroit Lakes Regional MPCA Office  
Carol Iverson

SOIL MONITORING RESULTS FOR LAND-APPLIED PETROLEUM CONTAMINATED SOIL

Minnesota Pollution Control Agency  
Tanks and Spills Section  
April 25, 1990

This form should be used for reporting the results of follow-up soil sampling where petroleum contaminated soil has been land applied. Refer to the Minnesota Pollution Control Agency (MPCA) document "Land Application of Petroleum Contaminated Soil: Single Application Sites" for specific information on soil sampling.

A. Tank Owner/Operator: Big Chief Amoco/Larry & Carol Iverson  
 Petroleum Release Site: Big Chief Amoco  
 MPCA Site ID#: LEAK0000 #2245

B. Address or legal description of land application site:  
 Street: \_\_\_\_\_ City: \_\_\_\_\_  
NW 1/4 of NW 1/4 of Sect. 31, Twp. 132N, Range 42W

C. Consultant (or other) preparing this form: Twin City Testing Corporation  
 Contact: Terry Johnson Phone: (701) 235-4256

D. Dates that tillage was done (since land application or the most recent monitoring report):  
Oct 1990, May 1991, Aug, 1991, Sept, 1991

E. Soil sampling date: Oct. 1, 1991

F. List the soil sample analytical results from the land application site. For petroleum products other than gasoline and fuel oil, refer to the MPCA document "Soil and Ground Water Analysis at Petroleum Release Sites" for analyses to report and attach a separate results table. Use ppm units.

Sample #	Total Hydrocarbons as Gas or Fuel Oil ppm	Sample #	Total Hydrocarbons as Gas or Fuel Oil ppm
<u>92-28</u>	<u>ND</u>	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

NOTE: ATTACH COPIES OF LABORATORY RESULTS AND CHAIN OF CUSTODY FORMS

Mail to: Minnesota Pollution Control Agency  
 Hazardous Waste Division  
 Tanks and Spills Section  
 520 Lafayette Road  
 St. Paul, Minnesota 55155  
 Attention: (Project Manager)



**twin city testing**  
corporation

601 EAST 48TH STREET NORTH  
SIOUX FALLS, SD 57104-0698  
PHONE 605/332-5371

**REPORT OF: CHEMICAL ANALYSIS**

**PROJECT:** BIG CHIEF AMOCO

**DATE:** October 18, 1991

**REPORTED TO:** Twin City Testing Corporation  
Attn: Terry Johnson  
2105 Seventh Avenue North  
Fargo, ND 58102

---

**LABORATORY NO:** 6600 01-412

**INTRODUCTION**

This report presents the results of the analysis of samples received on October 2, 1991 from a representative of the Fargo Twin City Testing Corporation - Environmental Department. The scope of our work was the determination of total petroleum hydrocarbons.

**SAMPLE IDENTIFICATION**

<u>TCT #</u>	<u>Field Identification</u>
92-24	MW-13, 1011300
92-25	MW-12, 1011050
92-28	Soil sample, 1011400

**METHODOLOGY**

The samples were extracted with methylene chloride, dehydrated with anhydrous sodium sulfate and concentrated in a Kuderna-Danish Concentrator on a steam bath. The extracts were then analyzed using a Hewlett Packard 5890 Gas Chromatograph equipped with a flame ionization detector. The total petroleum hydrocarbons were identified by column retention time and quantified by peak area comparisons to those of a known standard using a Hewlett-Packard 3396A integrator. This method is similar to the USGS/California Method.

**RESULTS**

The results of the analysis are listed in Table 1.

REPORT OF: CHEMICAL ANALYSIS

LABORATORY NO. 6600 01-412

DATE: October 18, 1991  
PAGE: 2

REMARKS

The samples were extracted on October 6, 1991 and analyzed on October 10 and 11, 1991. The sample extracts will be held for thirty days from the date of this report, then discarded unless other arrangements are made.

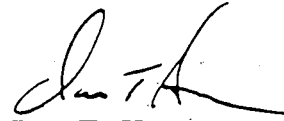
TWIN CITY TESTING CORPORATION



Mark Edeen  
Gas Chromatography



Deanna Wiarda  
Gas Chromatography



Dan T. Hanson  
Chemistry Manager

ME/DW/DTH/kk  
repl-412.tph

**TABLE 1**  
**TOTAL PETROLEUM**  
**HYDROCARBONS ANALYSIS**  
#6600 01-412  
October 18, 1991

<u>Sample Identification</u>	<u>Total Petroleum Hydrocarbons (mg/L)</u>
MW-13 92-24	ND
MW-12 92-25	ND
Soil 92-28	ND*
LDL	0.3

Samples were quantified as #2 fuel oil.

All values are in mg/L which is equivalent to parts per million (ppm).

\* - Value is in mg/kg which is equal to parts per million (ppm) and the LDL is 3.0.

ND - Not Detected

LDL - Lower Detectable Limit



**TWIN CITY TESTING**  
CORPORATION

01-412

**SAMPLE IDENTIFICATION**

**CHAIN-OF-CUSTODY RECORD**

Check delivery method:

Samples hand carried from site to lab   
 Samples shipped from site directly to lab   
 Shipment method/carrier: UPS

Custody seal #:

Attn: Don H

Project Number		Project Name/Client		Sampling Point Description	Time	Date	Sample Number (Field ID Number)	No. of Containers	Analyses Required	Remarks	Sample Container	Sample Lab Number
Item No.	Sample Number	Date	Time									
1	1011300	10/19/10	1:00	MW #13				3	X	water	3 VOA	1
2	1011050	10/19/10	10:50	MW #12				3	X	water	3 VOA	
3	09301600	9/30/10	4:00	Trip Blank				2	X	water	2 VOA	
4	1011250	10/15/10	12:50	Bulor Blank				3	X	water	3 VOA	
45	1011300	10/19/10	1:00	MW #13				2	X	water	18 Amber	
56	1011050	10/19/10	10:50	MW #12				2	X	water	18 Amber	
7	<del>09301600</del>	<del>9/30/10</del>	<del>4:00</del>	<del>Trip Blank</del>								
8	1011300	10/19/10	1:00	Bulor Blank				2	X	water	18 Amber	
9	1011400	10/19/10	2:00	Soil Sample				1	X	soil	Soil Jar	
10												
11												
12												
13												
14												
15												
16												

Packed/Relinquished by: (Signature) Maile Pater Date/Time 10/19/10 4:20

Relinquished by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_

Received by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_

Received by: (Signature) [Laboratory Personnel] Mark Edon Date/Time 10-24-10 10:43

Disposed of by: (Signature) \_\_\_\_\_ Items \_\_\_\_\_

Send Lab Results To: Ferry in Fargo Lab

Comments: \_\_\_\_\_

Laboratory Receiving Notes:  
 Custody seal intact?  
 Temperature of shipping container:  
 Sample Condition:  
 Laboratory Invoice Number:

Chain-of-Custody Record Number  
**TCT** M? 2034