



**Braun Intertec**  
3315 North 124th Street, Unit N  
Brookfield, Wisconsin 53005  
414-783-0880 Fax: 783-0890

*Engineers and Scientists Serving  
the Built and Natural Environments®*

February 18, 1997

Ms. Pam Mylotta  
Wisconsin Department of Natural Resources  
P.O. Box 12436  
4041 N. Richards Street  
Milwaukee, Wisconsin 53212

Re: Strategic Materials site, 12305 West Silver Spring Road, Milwaukee, WI  
FID#241486630 **ERP**

Dear Ms. Mylotta:

Enclosed please find the report entitled, *Area 2 Soil Remediation at the Strategic Materials Site*. This report details the recent remedial activities performed at the subject site and an update on the current status of the property. If you have any questions, please call.

Sincerely,

A handwritten signature in blue ink that reads "Brenda H. Boyce". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

Brenda H. Boyce, PG  
Project Geologist

c: Mr. Randall Slinkard - Strategic Materials, Inc.

Enclosure

FID 241486630  
ERP

**BRAUN**<sup>SM</sup>  

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**INTERTEC**

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**Area 2 Soil Remediation  
at the  
Strategic Materials Site  
12305 West Silver Spring Drive  
Milwaukee, Wisconsin**

Project No. 2553WE  
January 20, 1997

*Engineers and Scientists  
Serving the Built and  
Natural Environments*

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**Braun Intertec Corporation**

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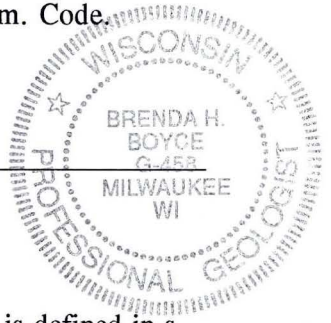
**Appendix A - Waste Management Statement of Soil Received**

**Appendix B - Laboratory Reports and Chain-of-Custody**

I, Brenda Boyce, hereby certify that I am a scientist as that term is defined in s. NR 712.03 (3), Wisconsin Administrative Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Brenda H. Boyce  
Signature and title *Project Geologist*

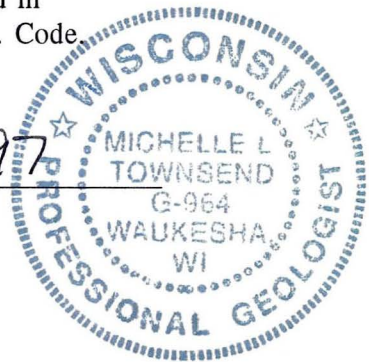
1-21-97  
Date



I, Michelle Townsend, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 and 726, Wis. Adm. Code.

Michelle L. Townsend, P.G. Hydrogeologist  
Signature and title

1-22-97  
Date



## **I. Introduction**

Braun Intertec was retained by Strategic Materials, Inc. to remediate the petroleum-contaminated soil in an area where a diesel and gasoline aboveground storage tanks (ASTs) were stored at the site. Because Strategic Materials wished to lay concrete in this area (Area 2 as designated in the *Subsurface Investigation Report* by Swanson Environmental, Inc., dated 9/25/95), the decision was made to remediate the petroleum-impacted soil by removal prior to laying concrete. This report will present the methodologies, findings and conclusions of the soil remediation.

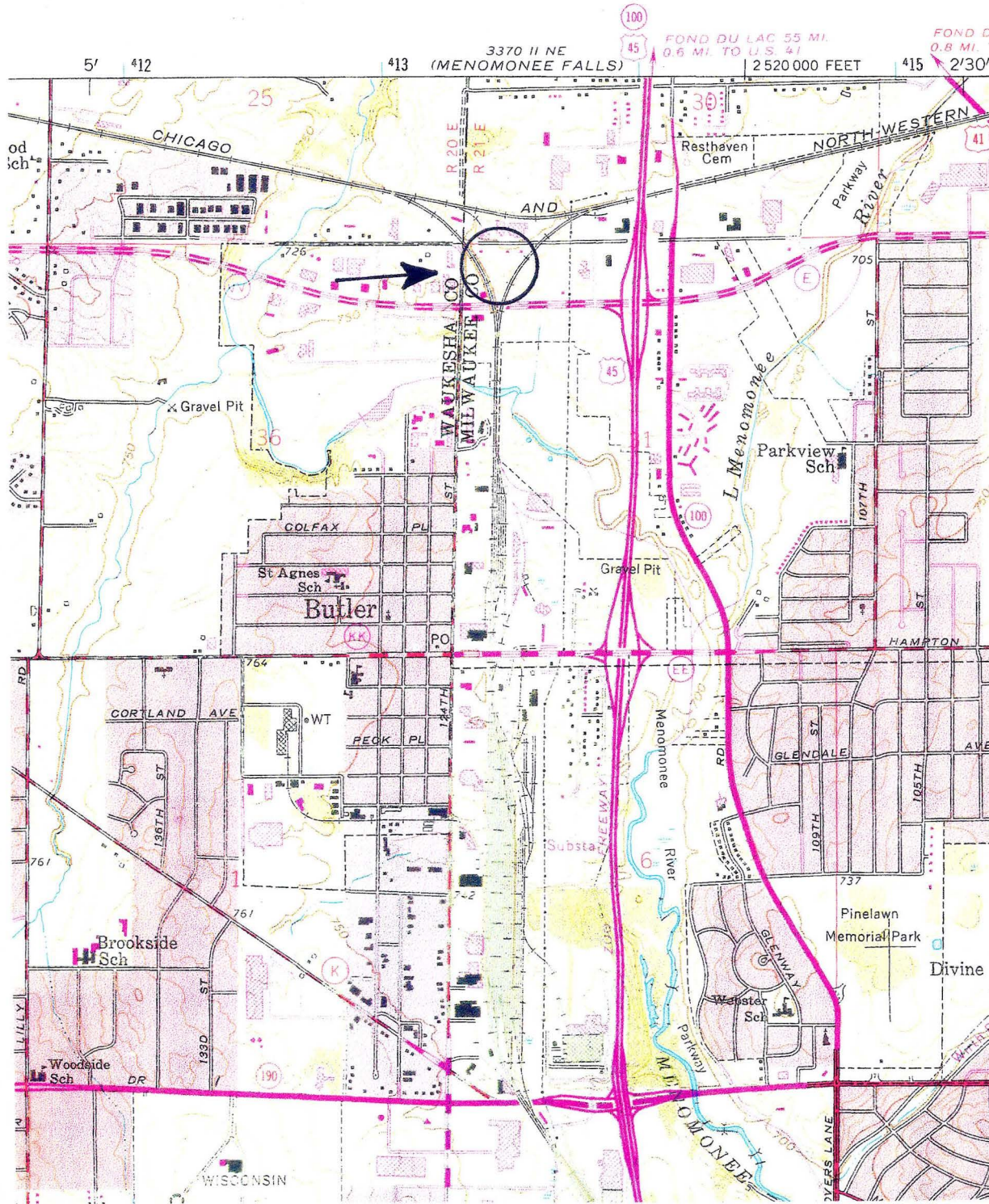
## **II. Site Location**

The subject site is located at 12305 West Silver Spring Drive, Milwaukee, Wisconsin. The site occupies the northwest quarter of Section 31, Township 8 North, Range 21 East in Milwaukee County. The site location is depicted in Figure 1.

## **III. Soil Remediation**

On December 3, 1996, approximately 350 tons of petroleum-impacted soil were excavated from Area 2 and transported to the Biopile at Orchard Ridge Recycling and Disposal Facility in Menomonee Falls, Wisconsin. NorthShore Environmental Contractors of Germantown, Wisconsin performed the excavating. Waste Management statement of soil received is presented as Appendix A.

The soil encountered was a brown silty clay mixed with fill material consisting of large asphalt sections and some concrete to a depth of six feet. The northeast corner of the excavation near MW-2 could not be excavated beyond two feet due to a large section of asphalt. Although the weather was cold and windy, a petroleum odor was observed while excavating. The shallow stained soil on the southeast side of the excavation surrounding the telephone poles was excavated to approximately one foot. Upon the removal of the stained soil, further excavating was not conducted in this area to avoid undermining the integrity of the poles.



WAUWATOSA, WIS.  
 SE/4 WAUKESHA 15' QUADRANGLE  
 N 4300—W 8800/7.5  
 PHOTOINSPECTED 1976  
 1958

PHOTOREVISED 1971  
 AMS 3370 II SE—SERIES V861

SCALE 1:24 000



FIGURE 1  
 SITE LOCATION MAP  
 Strategic Materials, Inc.  
 12305 West Silver Spring Road

DATE:	1-16-97	DRAWN BY:	BHB
PROJECT:	WE2553	APPROVED:	WRH

**BRAUN**  
**INTERTEC**

3315 N. 124th ST.; Unit N  
 BROOKFIELD, WI 53005

Soil samples were collected from the base and sidewalls of the excavation. The samples were split into two separate Ziploc bags and labelled. The samples to be field screened were warmed in order to equilibrate the soil temperature to 70 degrees Fahrenheit and screened with a Microtip photoionization detector (PID). The PID, equipped with a 10.6 eV lamp, was calibrated in the field to 100 ppm isobutylene gas. The PID indicates the approximate concentration of volatile organics compounds in the headspace of the sample. When screening levels were below 20 instrument units (i.u.), and there were no observable indications of petroleum impacts, the soil was considered "clean" and the duplicate soil samples were containerized for laboratory analysis. No further excavating was then performed in that area or direction. PID screening results are found in Table 1. Soil sample locations are indicated on Figure 2.

<b>Table 1 Field Screening Results (i.u.) Strategic Materials December 3, 1996</b>		
<b>Sample ID</b>	<b>Depth (ft.)</b>	<b>Reading</b>
W-1	4	10.0
Ba-1	8	5.5
S-1	4	9.0
E-1	4	14.1
N-1	5	15.5

The samples were collected for gasoline range organics (GRO), diesel range organics (DRO) petroleum volatile organic compounds (PVOC), and lead analyses. The soil for the GRO and PVOC samples was weighed to approximately 25 grams as it was placed into two-ounce jars. Both samples were field preserved with 25 milliliters (ml) of methanol. The samples were immediately placed in a cooler on ice and transported to Great Lakes Analytical Laboratory in Buffalo Grove, Illinois.

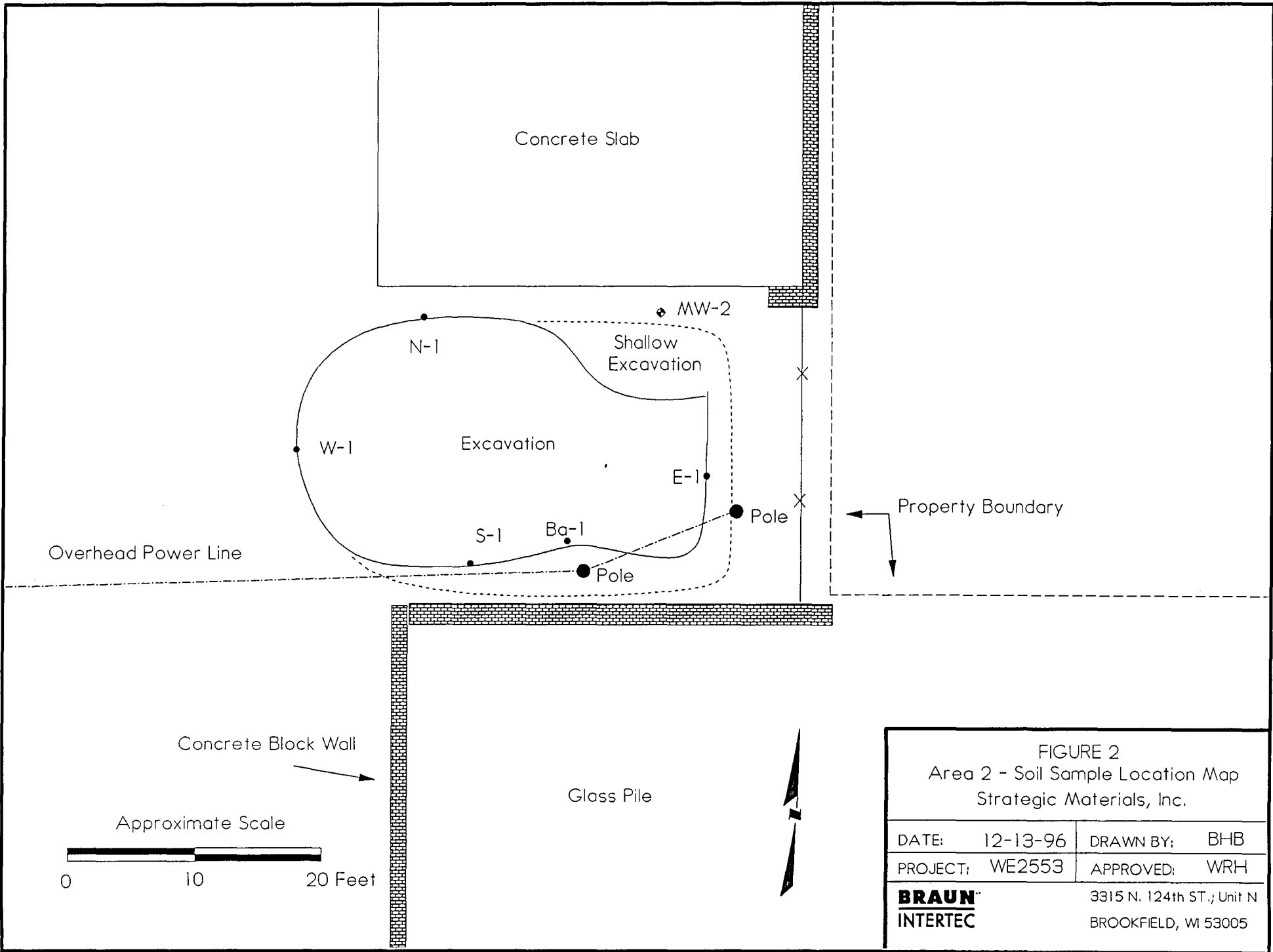


FIGURE 2 Area 2 - Soil Sample Location Map Strategic Materials, Inc.	
DATE: 12-13-96	DRAWN BY: BHB
PROJECT: WE2553	APPROVED: WRH
<b>BRAUN</b> <b>INTERTEC</b>	3315 N. 124th ST., Unit N BROOKFIELD, WI 53005



#### IV. Laboratory Analytical Results

The laboratory results revealed that the remaining soil does not contain concentrations of petroleum constituents above NR 720 residual contaminant levels. Four of the five PVOC samples did not detect petroleum compounds above the laboratory detection limits. The north wall sample (N-1) revealed levels of toluene, 1,2,5-trimethylbenzene and xylenes at 60 ug/kg, 47 ug/kg and 140 ug/kg, respectively. Concentrations of DRO were all below 32 mg/kg and GRO was only detected in the N-1 sample at 7.5 mg/kg. Lead was detected in each of the samples, but concentrations were below the NR 720 residual contaminant level for an industrial site. The results are summarized in Table 2. Laboratory reports and chains-of-custody are presented as Appendix B.

TABLE 2 Laboratory Analytical Results Strategic Materials December 3, 1996						
	Ba-1	E-1	W-1	S-1	N-1	NR 720 RCL
GRO (mg/kg)	<5.6	<5.6	<5.9	<6.2	7.5	100*
DRO (mg/kg)	17	11	24	9	32	100*
Benzene	<4.8	<4.8	<4.8	<4.8	<4.8	5.5
Ethylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	2900
1,2,4-Trimethylbenzene	<8.9	<8.9	<8.9	<8.9	<8.9	NA
1,3,5-Trimethylbenzene	<8.2	<8.2	<8.2	<8.2	47	NA
Methyl-tert-butyl-ether	<12	<12	<12	<12	<12	NA
Toluene	<7.0	<7.0	<7.0	<7.0	60	1500
Xylenes	<4.9	<4.9	<4.9	<4.9	140	4100
Lead (mg/kg)	28	27	43	9.8	58	500**

PVOC results expressed in micrograms per kilogram (ug/kg).

\* Level for soil types with hydraulic conductivities of greater than  $10^{-6}$  cm/sec.

\*\* Level for an industrial site.

RCL = Residual Cleanup Level

NA - NR 720 has no established RCL for this compound.

## **VI. Conclusions and Recommendations**

On December 3, 1996, approximately 350 tons of petroleum-impacted soil were excavated from Area 2. Strategic Materials removed the impacted soil as recommended in the investigation report and to allow the construction of a concrete pad in that location. Soil samples collected from the remaining soil were determined through laboratory analysis to have petroleum concentrations within the Wisconsin Department of Natural Resources acceptable limits. No other investigation or remedial measures pertaining to the recommendations in the previously cited report have been conducted at the site other than as described in this report. Site closure is not requested at this time due to the other environmental issues that remain at the site.

## **Appendix A**

ORCHARD RIDGE ROF  
 TICKET LISTING BY PROFILE NUMBER  
 12/01/96 THRU 12/14/96

12/16/96  
 PAGE 1

DATE	TICKET NUMBER	CUSTOMER	CUSTOMER NUMBER	TRUCK NUMBER	GENERATOR	PROFILE NUMBER	YARDS	NET TONS	CODE1	CODE2	CODE3	CODE4	TOTAL AMOUNT
12/03/96	230143	STRATEGIC MATERIALS	0003841	69	STRATEGIC MATER	B1026172	30	29.55	B10				783.08
12/03/96	230153	STRATEGIC MATERIALS	0003841	70	STRATEGIC MATER	B1026172	31	31.15	B10				825.47
12/03/96	230158	STRATEGIC MATERIALS	0003841	38	STRATEGIC MATER	B1026172	21	21.05	B10				557.83
12/03/96	230162	STRATEGIC MATERIALS	0003841	71	STRATEGIC MATER	B1026172	24	24.02	B10				636.53
12/03/96	230172	STRATEGIC MATERIALS	0003841	70	STRATEGIC MATER	B1026172	23	23.13	B10				612.95
12/03/96	230182	STRATEGIC MATERIALS	0003841	69	STRATEGIC MATER	B1026172	30	29.85	B10				791.03
12/03/96	230189	STRATEGIC MATERIALS	0003841	38	STRATEGIC MATER	B1026172	23	23.12	B10				612.68
12/03/96	230191	STRATEGIC MATERIALS	0003841	76	STRATEGIC MATER	B1026172	30	30.11	B10				797.92
12/03/96	230193	STRATEGIC MATERIALS	0003841	71	STRATEGIC MATER	B1026172	29	29.20	B10				773.80
12/03/96	230204	STRATEGIC MATERIALS	0003841	70	STRATEGIC MATER	B1026172	27	27.17	B10				720.01
12/03/96	230207	STRATEGIC MATERIALS	0003841	69	STRATEGIC MATER	B1026172	29	29.30	B10				776.45
12/03/96	230222	STRATEGIC MATERIALS	0003841	76	STRATEGIC MATER	B1026172	28	28.46	B10				754.19
12/03/96	230225	STRATEGIC MATERIALS	0003841	38	STRATEGIC MATER	B1026172	23	23.32	B10				617.98
							349	349.43					9,259.92
							*****	*****					*****

DEC-16-96 TUE 12:05 PM

## **Appendix B**

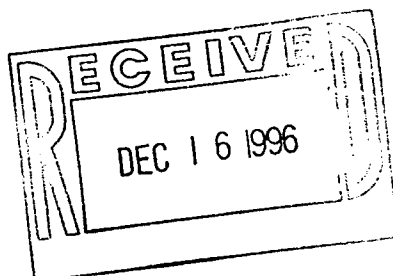
Date: December 13, 1996

Braun Intertec, Inc.  
3315 N. 124th Street, Suite N  
Brookfield, WI 53005  
Attention: Brenda Boyce

Project: Strategic Materials

Enclosed are the results from 5 soil samples received at Great Lakes Analytical on December 4, 1996. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
6120547	Soil: Ba-1	12/3/96	PVOC , EPA 5030/8021 Lead, EPA 3050/7421 Percent Solids, EPA 7.3.3.1.5 WDNR DRO WDNR GRO
6120548	Soil: E-1	12/3/96	PVOC , EPA 5030/8021 Lead, EPA 3050/7421 Percent Solids, EPA 7.3.3.1.5 WDNR DRO WDNR GRO
6120549	Soil: W-1	12/3/96	PVOC , EPA 5030/8021 Lead, EPA 3050/7421 Percent Solids, EPA 7.3.3.1.5 WDNR DRO WDNR GRO
6120550	Soil: S-1	12/3/96	PVOC , EPA 5030/8021 Lead, EPA 3050/7421 Percent Solids, EPA 7.3.3.1.5 WDNR DRO WDNR GRO
6120551	Soil: N-1	12/3/96	PVOC , EPA 5030/8021 Lead, EPA 3050/7421 Percent Solids, EPA 7.3.3.1.5 WDNR DRO WDNR GRO




This report may not be reproduced, except in full, without the written approval of the laboratory.

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

**GREAT LAKES ANALYTICAL**

  
Kevin W. Keeley  
Laboratory Director



1380 Busch Parkway • Buffalo Grove, Illinois 60089

(847) 808-7766 FAX (847) 808-7772

Braun Intertec, Inc.  
3315 N. 124th Street, Suite N  
Brookfield, WI 53005  
Attention: Brenda Boyce

Client Project ID: Strategic Materials  
Sample Descript: Soil  
Analysis for: Percent Solids, EPA 7.3.3.1.5  
First Sample #: 612-0547

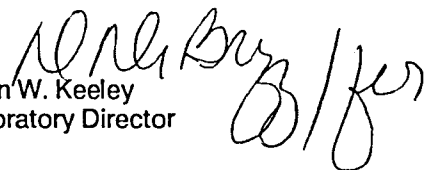
Sampled: Dec 3, 1996  
Received: Dec 4, 1996  
Analyzed: Dec 5, 1996  
Reported: Dec 13, 1996

**LABORATORY ANALYSIS FOR: Percent Solids, EPA 7.3.3.1.5**

Sample Number	Sample Description	Detection Limit %	Sample Result %
612-0547	Ba-1	0.10	89
612-0548	E-1	0.10	90
612-0549	W-1	0.10	84
612-0550	S-1	0.10	81
612-0551	N-1	0.10	88

GREAT LAKES ANALYTICAL

Kevin W. Keeley  
Laboratory Director





Braun Intertec, Inc.  
 3315 N. 124th Street, Suite N  
 Brookfield, WI 53005  
 Attention: Brenda Boyce

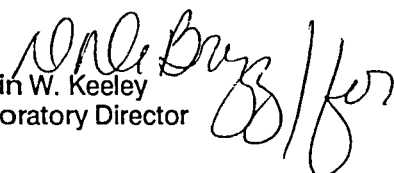
 Client Project ID: Strategic Materials  
 Sample Descript: Soil  
 Analysis for: Lead, EPA 3050/7421  
 First Sample #: 612-0547

 Sampled: Dec 3, 1996  
 Received: Dec 4, 1996  
 Analyzed: Dec 10, 1996  
 Reported: Dec 13, 1996

**LABORATORY ANALYSIS FOR:      Lead, EPA 3050/7421**

Sample Number	Sample Description	Detection Limit mg/kg Dry Weight	Sample Result mg/kg Dry Weight
612-0547	Ba-1	5.6	28
612-0548	E-1	5.6	27
612-0549	W-1	6.0	43
612-0550	S-1	6.2	9.8
612-0551	N-1	5.7	58

Because matrix effects and/or other factors required additional dilution, detection limits for the sample have been raised.

**GREAT LAKES ANALYTICAL**

 Kevin W. Keeley  
 Laboratory Director

Braun Intertec, Inc.  
 3315 N. 124th Street, Suite N  
 Brookfield, WI 53005  
 Attention: Brenda Boyce

 Client Project ID: Strategic Materials  
 Matrix Descript: Soil  
 Analysis Method: WDNR DRO  
 First Sample #: 612-0547


 Sampled: Dec 3, 1996  
 Received: Dec 4, 1996  
 Extracted: Dec 6, 1996  
 Analyzed: Dec 9, 1996  
 Reported: Dec 13, 1996

**DIESEL RANGE ORGANICS**

Sample Number	Sample Description	Detection Limit mg/kg, Dry Weight (ppm)	High B.P. Hydrocarbons mg/kg, Dry Weight (ppm)	Chromatogram Description
612-0547	Ba-1	5.6	17	Non Diesel Pattern, Diesel & Motor Oil Range, Late Elevated Baseline & Peaks
612-0548	E-1	5.6	11	Non Diesel Pattern, Diesel & Motor Oil Range, Late Elevated Baseline & Peaks
612-0549	W-1	6.0	24	Non Diesel Pattern, Late Peaks, Elevated Baseline, Motor Oil Range
612-0550	S-1	6.2	9.0	Non Diesel Pattern, Late Peaks, Elevated Baseline, Motor Oil Range
612-0551	N-1	5.7	32	Non Diesel Pattern, Late Peaks, Elevated Baseline, Motor Oil & Diesel Range

High Boiling Point Hydrocarbons is performed as described in Leaking Underground Storage Tank Analytical Guidance, July 1993 WDNR SW 130 93 REV. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

**GREAT LAKES ANALYTICAL**

 Kevin W. Keeley  
 Laboratory Director
 

Braun Intertec, Inc.  
 3315 N. 124th Street, Suite N  
 Brookfield, WI 53005  
 Attention: Brenda Boyce

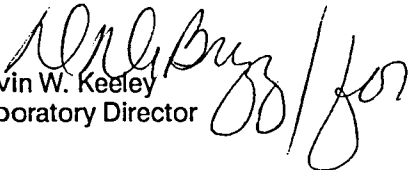
 Client Project ID: Strategic Materials  
 Matrix Descript: Soil  
 Analysis Method: WDNR GRO  
 First Sample #: 612-0547

 Sampled: Dec 3, 1996  
 Received: Dec 4, 1996  
 Analyzed: 12/5-9, 1996  
 Reported: Dec 13, 1996

**GASOLINE RANGE ORGANICS**

Sample Number	Sample Description	Detection Limit mg/kg, Dry Weight (ppm)	Low/Medium B.P. Hydrocarbons mg/kg, Dry Weight (ppm)	Chromatogram Description
612-0547	Ba-1	5.6	N.D.	---
612-0548	E-1	5.6	N.D.	---
612-0549	W-1	5.9	N.D.	---
612-0550	S-1	6.2	N.D.	---
612-0551	N-1	5.7	7.5	Gas Range, Elevated Baseline, Late Peaks

Low to Medium Boiling Point Hydrocarbons is performed as described in Leaking Underground Storage Tank Analytical Guidance July 1993 WDNR SW 130 93 REV. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

**GREAT LAKES ANALYTICAL**

 Kevin W. Keeley  
 Laboratory Director

Braun Intertec, Inc. 3315 N. 124th Street, Suite N Brookfield, WI 53005 Attention: Brenda Boyce	Client Project ID: Strategic Materials Sample Descript: Soil: Ba-1 Analysis Method: EPA 5030/8021 Lab Number: 612-0547	Sampled: Dec 3, 1996 Received: Dec 4, 1996 Analyzed: 12/5-9, 1996 Reported: Dec 13, 1996
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**WDNR PETROLEUM VOLATILE ORGANIC COMPOUNDS (EPA 8021)**

Analyte	Method Detection Limit $\mu\text{g}/\text{kg}$	Practical Quantitation Limit $\mu\text{g}/\text{kg}$	WDNR Reporting Limit $\mu\text{g}/\text{kg}$ Wet Weight	Sample Results $\mu\text{g}/\text{kg}$ Dry Weight
Benzene.....	4.8	15	25	N.D.
Ethyl Benzene.....	5.0	16	25	N.D.
Methyl-t-Butyl Ether.....	12	37	25	N.D.
Toluene.....	7.0	22	25	N.D.
124 Trimethylbenzene.....	8.9	28	25	N.D.
135 Trimethylbenzene.....	8.2	26	25	N.D.
Xylene.....	4.9	16	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

**GREAT LAKES ANALYTICAL**


Kevin W. Keeley  
Laboratory Director

Braun Intertec, Inc. 3315 N. 124th Street, Suite N Brookfield, WI 53005 Attention: Brenda Boyce	Client Project ID: Strategic Materials Sample Descript: Soil: E-1 Analysis Method: EPA 5030/8021 Lab Number: 612-0548	Sampled: Dec 3, 1996 Received: Dec 4, 1996 Analyzed: 12/5-9, 1996 Reported: Dec 13, 1996
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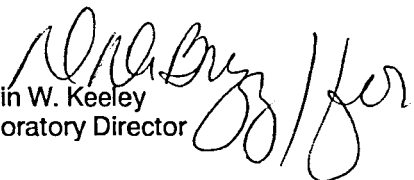
**WDNR PETROLEUM VOLATILE ORGANIC COMPOUNDS (EPA 8021)**

Analyte	Method Detection Limit µg/kg	Practical Quantitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
Benzene.....	4.8	15	25	N.D.
Ethyl Benzene.....	5.0	16	25	N.D.
Methyl-t-Butyl Ether.....	12	37	25	N.D.
Toluene.....	7.0	22	25	N.D.
124 Trimethylbenzene.....	8.9	28	25	N.D.
135 Trimethylbenzene.....	8.2	26	25	N.D.
Xylene.....	4.9	16	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

**GREAT LAKES ANALYTICAL**

Kevin W. Keeley  
Laboratory Director



Braun Intertec, Inc.  
 3315 N. 124th Street, Suite N  
 Brookfield, WI 53005  
 Attention: Brenda Boyce

 Client Project ID: Strategic Materials  
 Sample Descript: Soil: W-1  
 Analysis Method: EPA 5030/8021  
 Lab Number: 612-0549

 Sampled: Dec 3, 1996  
 Received: Dec 4, 1996  
 Analyzed: 12/5-9, 1996  
 Reported: Dec 13, 1996

**WDNR PETROLEUM VOLATILE ORGANIC COMPOUNDS (EPA 8021)**

Analyte	Method Detection Limit $\mu\text{g}/\text{kg}$	Practical Quantitation Limit $\mu\text{g}/\text{kg}$	WDNR Reporting Limit $\mu\text{g}/\text{kg}$ Wet Weight	Sample Results $\mu\text{g}/\text{kg}$ Dry Weight
Benzene.....	4.8	15	25	N.D.
Ethyl Benzene.....	5.0	16	25	N.D.
Methyl-t-Butyl Ether.....	12	37	25	N.D.
Toluene.....	7.0	22	25	N.D.
124 Trimethylbenzene.....	8.9	28	25	N.D.
135 Trimethylbenzene.....	8.2	26	25	N.D.
Xylene.....	4.9	16	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

**GREAT LAKES ANALYTICAL**

 Kevin W. Keeley  
 Laboratory Director

6120547.BRW &lt;7&gt;

Braun Intertec, Inc.  
 3315 N. 124th Street, Suite N  
 Brookfield, WI 53005  
 Attention: Brenda Boyce

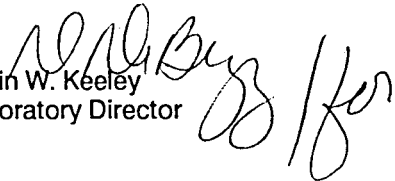
 Client Project ID: Strategic Materials  
 Sample Descript: Soil: S-1  
 Analysis Method: EPA 5030/8021  
 Lab Number: 612-0550

 Sampled: Dec 3, 1996  
 Received: Dec 4, 1996  
 Analyzed: 12/5-9, 1996  
 Reported: Dec 13, 1996

**WDNR PETROLEUM VOLATILE ORGANIC COMPOUNDS (EPA 8021)**

Analyte	Method Detection Limit $\mu\text{g}/\text{kg}$	Practical Quantitation Limit $\mu\text{g}/\text{kg}$	WDNR Reporting Limit $\mu\text{g}/\text{kg}$ Wet Weight	Sample Results $\mu\text{g}/\text{kg}$ Dry Weight
Benzene.....	4.8	15	25	N.D.
Ethyl Benzene.....	5.0	16	25	N.D.
Methyl-t-Butyl Ether.....	12	37	25	N.D.
Toluene.....	7.0	22	25	N.D.
124 Trimethylbenzene.....	8.9	28	25	N.D.
135 Trimethylbenzene.....	8.2	26	25	N.D.
Xylene.....	4.9	16	25	N.D.

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

**GREAT LAKES ANALYTICAL**

 Kevin W. Keeley  
 Laboratory Director

Braun Intertec, Inc.  
3315 N. 124th Street, Suite N  
Brookfield, WI 53005  
Attention: Brenda Boyce

Client Project ID: Strategic Materials  
Sample Descript: Soil: N-1  
Analysis Method: EPA 5030/8021  
Lab Number: 612-0551

Sampled: Dec 3, 1996  
Received: Dec 4, 1996  
Analyzed: 12/5-9, 1996  
Reported: Dec 13, 1996

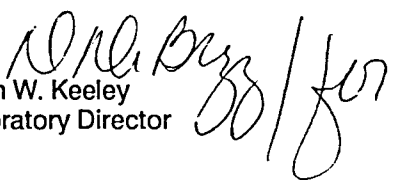
**WDNR PETROLEUM VOLATILE ORGANIC COMPOUNDS (EPA 8021)**

Analyte	Method Detection Limit µg/kg	Practical Quantitation Limit µg/kg	WDNR Reporting Limit µg/kg Wet Weight	Sample Results µg/kg Dry Weight
Benzene.....	4.8	15	25	N.D.
Ethyl Benzene.....	5.0	16	25	N.D.
Methyl-t-Butyl Ether.....	12	37	25	N.D.
Toluene.....	7.0	22	25	60
124 Trimethylbenzene.....	8.9	28	25	N.D.
135 Trimethylbenzene.....	8.2	26	25	47
Xylene.....	4.9	16	25	140

Analytes reported as N.D. were not present above the WDNR Reporting Limit IN WET WEIGHT as specified in Release News, Volume 4, Number 3, July 1994.

GREAT LAKES ANALYTICAL

Kevin W. Keeley  
Laboratory Director





**CHAIN OF CUSTODY REPORT**

Client: Braun Intertec Bill To: \_\_\_\_\_ TAT: 5 DAY 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.  
 Address: 3315 N. 124th Address: \_\_\_\_\_ DATE RESULTS NEEDED: 12/11/96  
Brookfield, WI 53005 TEMPERATURE UPON RECEIPT: ON ICE  
 Report to: B. Boyce Phone #: (414) 783-0888 State & Program: \_\_\_\_\_ Phone #: ( ) Fax #: ( )  
 AIR BILL NO. GLA pla

PROJECT: <u>Strategic Materials</u> AMPLIFIER: <u>Boyce</u> O/Quote #:	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	PRESERVATIVES	NO. CONTAINERS	TYPE CONTAINERS	ANALYSIS TYPE				SAMPLE CONTROL			LABORATORY ID NUMBER
							DRO	GRO	PVOC	Lead	CRACKED/BROKEN	IMPROPERLY SEALED	GOOD CONDITION	
FIELD ID, LOCATION														
<u>Ba-1 (8')</u>	<u>12-3-96</u>	<u>10:00 am</u>	<u>Soil</u>	<u>MEOH</u>	<u>3</u>									<u>6120547</u>
<u>E-1 (4')</u>	↓	↓	↓	↓	↓									<u>6120548</u>
<u>W-1 (4')</u>	↓	↓	↓	↓	↓									<u>6120549</u>
<u>S-1 (4')</u>	↓	↓	↓	↓	↓									<u>6120550</u>
<u>N-1 (5')</u>	↓	↓	↓	↓	↓									<u>6120551</u>

RELINQUISHED: Brenda Boyce DATE: 12-4-96 TIME: 8:30 RECEIVED: [Signature] DATE: 12/4/96 TIME: 9PM  
 RELINQUISHED: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ RECEIVED: K. Kell DATE: 12/4/96 TIME: 1500