

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

RECEIVED
CLERK'S OFFICE

OCT 17 2003

STATE OF ILLINOIS
Pollution Control Board

McDONALD'S CORPORATION,

)

Petitioner,

)

)

) PCB 2004-14

v.

) (UST Appeal)

ILLINOIS ENVIRONMENTAL PROTECTION
AGENCY,

)

)

)


Respondent.

)

NOTICE OF FILING AND CERTIFICATE OF SERVICE

The undersigned hereby states on oath that on this 17th day of October, 2003, copies of the JOINT STIPULATION OF FACTS were filed with the Illinois Pollution Control Board and served by First Class Mail, postage pre-paid, upon the parties named on the attached Service List.

McDonald's Corporation

BY: 
its attorney

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SERVICE LIST

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Bradley P. Halloran
Hearing Officer
Illinois Pollution Control Board
James R. Thompson Center, Suite 11-500
100 West Randolph Street
Chicago, Illinois 60601

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JOINT STIPULATION OF FACTS

Petitioner McDonald's Corporation ("McDonald's") and Respondent Illinois Environmental Protection Agency ("IEPA") hereby stipulate to the following facts for the purposes of this proceeding only.

THE PARTIES AND THE SITE

1. The Petitioner in this proceeding is McDonald's Corporation ("McDonald's"), a corporation headquartered in Oak Brook, Illinois.
2. The Respondent in this proceeding is the Illinois Environmental Protection Agency (the "IEPA").
3. The site involved in this proceeding is located at 1120 West 22nd Street in Oak Brook, Illinois (the "Site"). The Site occupies the northeast corner of the intersection formed by 22nd Street and Spring Road. That intersection is the first intersection that drivers encounter after exiting I-88 and entering Oak Brook.
4. Photographs of the Site are attached as Exhibits 1 and 2, and a map showing the location of the Site is attached as Exhibit 3.

PROCEDURAL BACKGROUND

5. This proceeding arises out of a Petition To Appeal which was filed by McDonald's seeking to reverse the IEPA's decision dated June 23, 2003, insofar as that decision denied \$31,515.00 in costs based upon IEPA's determination that "the owner/operator failed to demonstrate [that those costs] were reasonable... ." Ill.Adm.Code Title 35, §105.408(a).
6. The Petition To Appeal was filed within thirty-five days of service of the IEPA's June 23, 2003 decision, thus making the Petition To Appeal timely. Ill.Adm.Code Title 35, §105.408(b).

THE FACTS GIVING RISE TO THIS APPEAL

7. A number of years ago, the soil at the Site became contaminated with hydrocarbons as a result of spills or leaks that occurred in connection with the operation of a gasoline filling and service station (since demolished) at the Site. Two IEPA Incident Numbers have been assigned to the Site: Incident Number 902922 and Incident Number 952344. McDonald's was not involved in the operation of the gasoline filling and service station.
8. McDonald's, which purchased and is the current owner of the Site, has undertaken the remediation of the Site. The Corrective Action Plan for the remediation of the Site was approved by the IEPA in May, 2002.
9. The remediation of the Site is now completed, and the IEPA has granted a "no further action" letter to McDonald's. *See, e.g.*, Exhibits 1 and 2 (photographs of the Site).
10. Generally speaking, the remediation of the Site involved the removal of contaminated soil from the Site and the replacement of the contaminated soil with clean fill in accordance with the Corrective Action Plan approved by the IEPA.

11. After officials from the Village of Oak Brook ("Oak Brook") became aware of the remediation of the Site and that the remediation required clean fill, Oak Brook requested that McDonald's use backfill soil that Oak Brook owned as clean fill at the Site. That soil (the "backfill soil") was located in a soil pile on 31st Street in Oak Brook and had to be removed from that location.
12. Oak Brook's backfill soil was offered to McDonald's at no cost to McDonald's. Consequently, the only cost to McDonald's relating to the use of the backfill soil as fill at the Site (assuming that the backfill soil was suitable for that purpose) was the cost of removing the backfill soil from the soil pile on 31st Street and transporting it to and properly placing it at the Site on 22nd Street.
13. The potential for using the backfill soil as fill was then discussed between Carmen Yung, an employee of McDonald's remediation contractor, MACTEC Engineering and Consulting of Georgia, Inc. ("MACTEC"), and Ms. Valerie Davis of the IEPA in November, 2002. In that conversation, Ms. Davis of the IEPA told Ms. Yung of MACTEC that the IEPA would consider the backfill soil to be acceptable as fill at the Site if assurances could be provided which confirmed that the backfill soil did not come from a contaminated source. In addition, the IEPA also requested that one sample of the backfill soil be collected and tested for priority pollutants. *See* February 22, 2002 Report, attached as Exhibit 4.
14. The Village of Oak Brook then confirmed in writing that to the best of its knowledge, the backfill soil did not come from a contaminated source.
15. In accordance with the IEPA's request, a sample of the backfill soil was taken and tested. The results of the test of the sample of backfill soil showed that the backfill soil was suitable for use as fill at the Site. *See* February 22, 2002 Report, attached as Exhibit 4.

16. MACTEC had recommended that the backfill soil be continuously screened prior to its use as fill at the Site, and the backfill soil was initially continuously screened before it was used at the Site. That screening did not detect any elevated PID readings or visual or olfactory signs of contamination. MACTEC then contacted Ms. Davis of IEPA concerning the screening. Due to the time and cost of continuous screening, Ms. Davis recommended that additional soil samples be collected and tested in lieu of the continuous screening. *See* February 22, 2002 Report, attached as Exhibit 4, p. 3.
17. Nine additional samples of the backfill soil were therefore taken and tested, and were found (with one exception relating to arsenic concentration) to be within the most stringent TACO Tier 1 soil remediation objectives. MACTEC therefore concluded that the backfill soil was not contaminated.
18. The remaining backfill soil was then loaded at the 31st Street location and transported to the Site for use as fill.
19. After backfill soil arrived at the Site, the backfill soil was placed in the excavations as fill and then rolled over by a sheepsfoot roller.

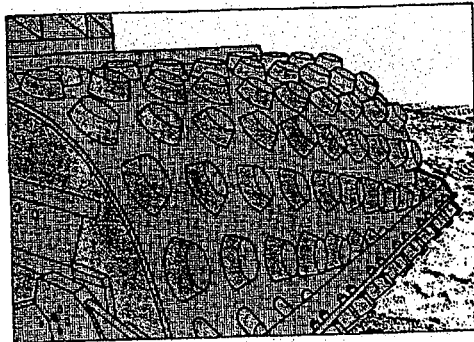


Illustration of sheepsfoot roller.

20. McDonald's used the sheepsfoot roller to roll over the backfill soil after the backfill soil was placed into excavations at the Site solely to compact the fill sufficiently to prevent voids and severe settlement.
21. McDonald's wished to avoid the presence of voids and the possibility of severe settlement because voids and severe settlements would cause the surface of the Site to sink below grade at the Site.
22. If the surface of the Site were to sink below grade, it would be necessary to bring additional fill to the Site to once again restore the surface of the Site to grade.
23. The use of the sheepsfoot roller on the fill after the placement of the backfill soil at the Site was referred to by McDonald's excavation contractor as "compaction."
24. In-place density testing is typically conducted after the compaction of fill whenever fill is compacted for the purpose of readying a site for construction on the compacted fill. The results of the in-place density testing are used to determine if the fill has been compacted to a density that is sufficient to support the anticipated construction.
25. No in-place density testing of the backfill soil after it was placed at the Site and rolled over with a sheepsfoot roller has ever been conducted.
26. The placement of the backfill soil at the Site, including the thickness of the lifts (i.e., layers) employed during the placement of the backfill soil, was not designed, conducted, intended or engineered for the purpose of insuring that the backfill soil would provide a sufficient base for later construction at the Site.

27. In its submission of LUST Fund reimbursement requests to the IEPA, McDonald's included bills from a subcontractor for the loading, transportation, placement and compaction of the soil at the Site. At the request of IEPA, McDonald's remediation and excavation contractors calculated that the cost of the "compaction" included in those bills – i.e., the cost of rolling the sheepsfoot roller on the backfill soil after it was placed at the Site – was in total \$31,515.00.

**THE PARTIAL DENIAL OF McDONALD'S APPLICATION
FOR REIMBURSEMENT FROM THE LUST FUND**

28. McDonald's applied to the Illinois Leaking Underground Storage Tank Fund (the "LUST Fund") for reimbursement of the cost of remediating the Site. That application for reimbursement included what was later calculated to be \$31,515.00 for the cost of the "compaction."
29. In a final decision dated May 12, 2003 from IEPA to McDonald's, IEPA deducted from the approved costs of reimbursement the \$31,515.00 cost of the "compaction" of the backfill soil at the Site.
30. McDonald's did not appeal the May 12, 2003 final decision.
31. In response to the IEPA's May 12, 2003 letter, McDonald's remediation contractor, MACTEC Engineering and Consulting of Georgia, Inc. ("MACTEC"), sent a letter to IEPA dated May 20, 2003. That letter is attached as Exhibit 5.
32. MACTEC's May 20, 2003 letter indicated that the purpose of the "compaction" was to "prevent voids [in] and severe settlement" of the backfill soil that was being used as fill, that the "compaction" was therefore properly part of the soil placement process.

33. MACTEC's May 20, 2003 letter also indicated that use of crushed stone instead of the backfill soil as fill would have raised the total cost of the remediation by approximately \$50,000 above the total cost which was the basis for McDonald's reimbursement request.
34. MACTEC's May 20, 2003 letter also stated that the use of Oak Brook's backfill soil as fill instead of crushed stone "helped the Village of Oak Brook to dispose of their unwanted soil and turned it into use." The letter also stated that McDonald's "should not be penalized by employing cost saving and environmental conservation methods in site remediation when McDonald's could have obtained full reimbursement if crushed stone was used as backfill material."
35. MACTEC's May 20, 2003 letter served as a request for reimbursement of \$1,684.19 in costs related to furnishing and installing limestone and \$31,515.00 in costs related to compaction of backfill. The costs and justification for the request for reimbursement are set forth in the May 20, 2003 letter. The letter indicates that those costs are sought for reimbursement.
36. In a final decision dated June 23, 2003, IEPA deducted \$31,515.00 in "costs that the owner/operator failed to demonstrate were reasonable (Section 22.18b(d)(4)(C) of the Environmental Protection Act)." The Illinois EPA identified three invoices that formed the bases for the deduction of costs. The Illinois EPA characterized those costs as being "ineligible costs for compaction." *See* Exhibit 6, attached.
37. In arriving at its final decision dated June 23, 2003 and for purposes of this appeal, IEPA did not and does not contest the fact that the compaction of the backfill soil was properly part of the soil placement process.

McDonald's Corporation

BY: _____
their attorney

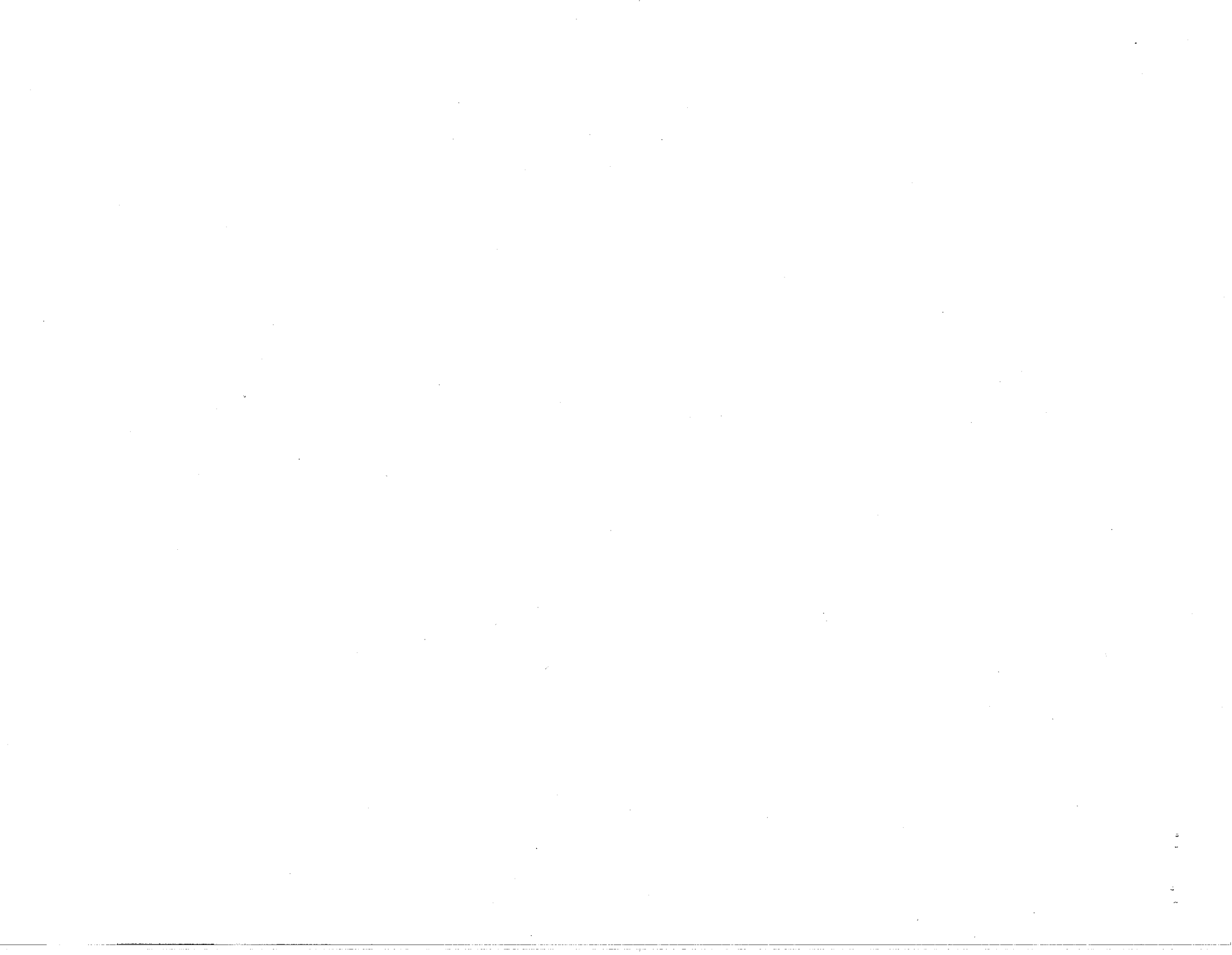
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Illinois Environmental Protection Agency

BY: _____
their attorney

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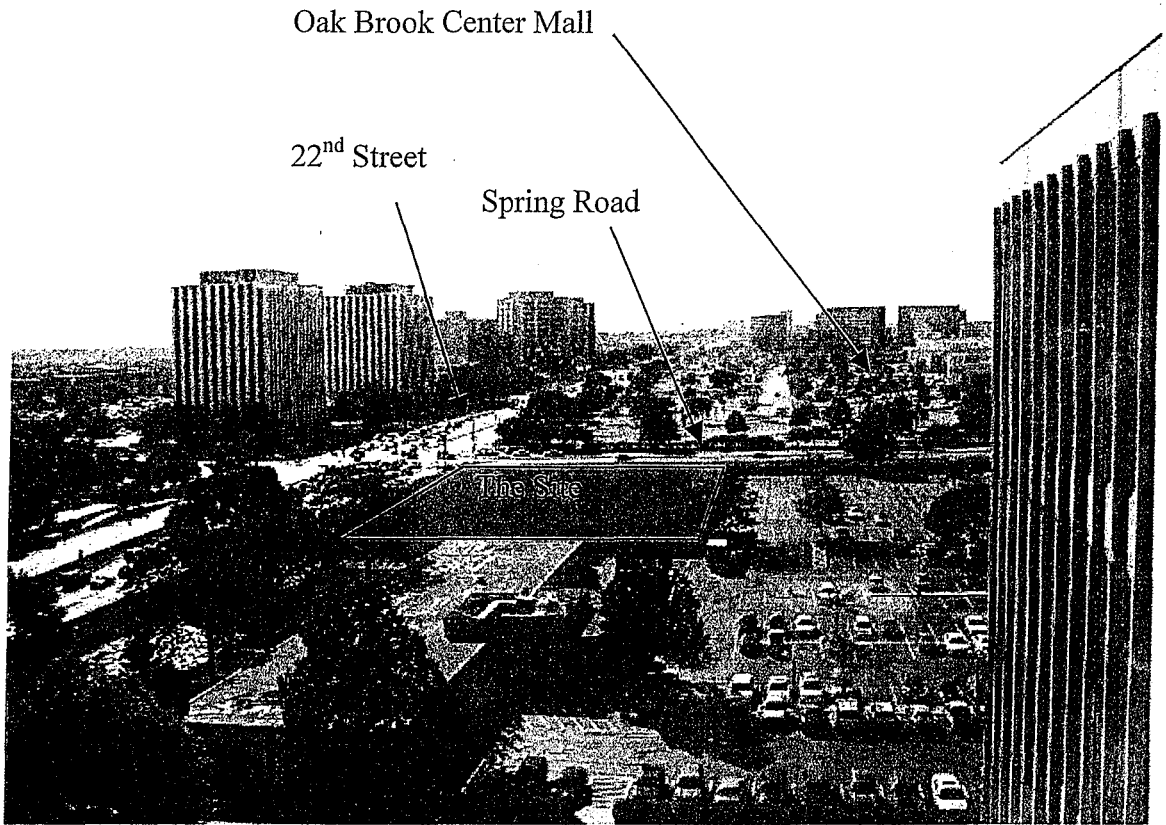


EXHIBIT 1:

Taken 9/18/2003

Looking West-Southwest from an upper floor of the office building to the east of the Site



EXHIBIT 2:

Taken 9/18/2003

Looking southwest from Northeast corner of Site

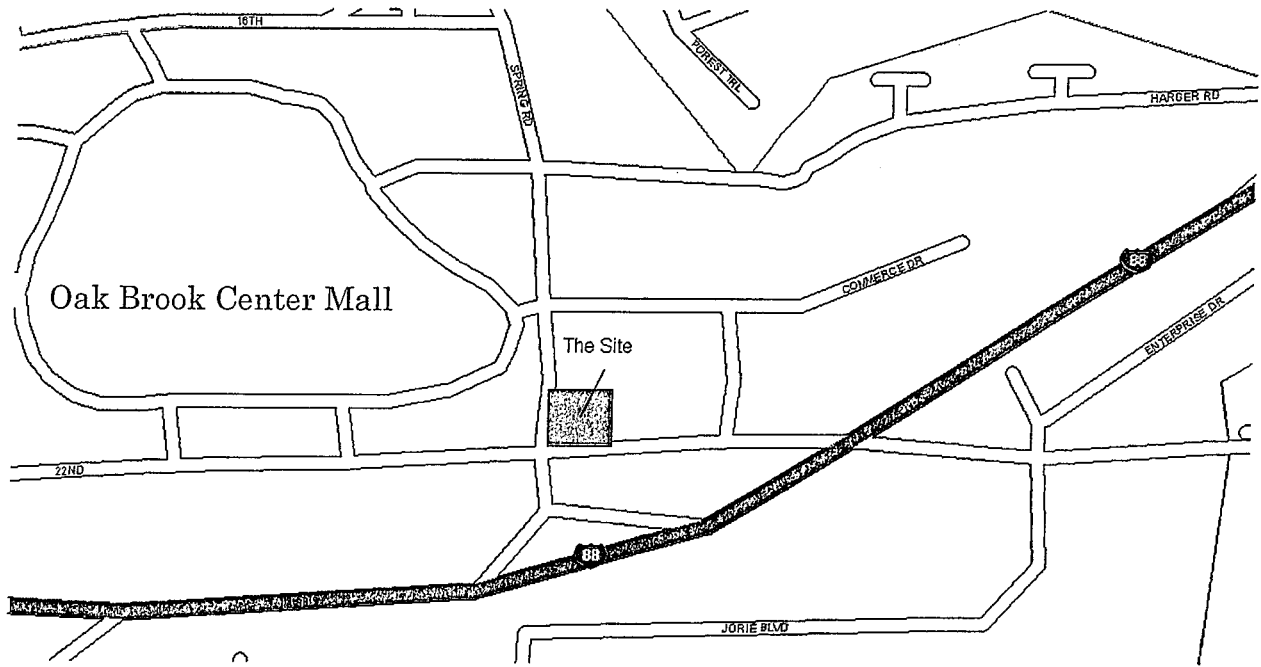
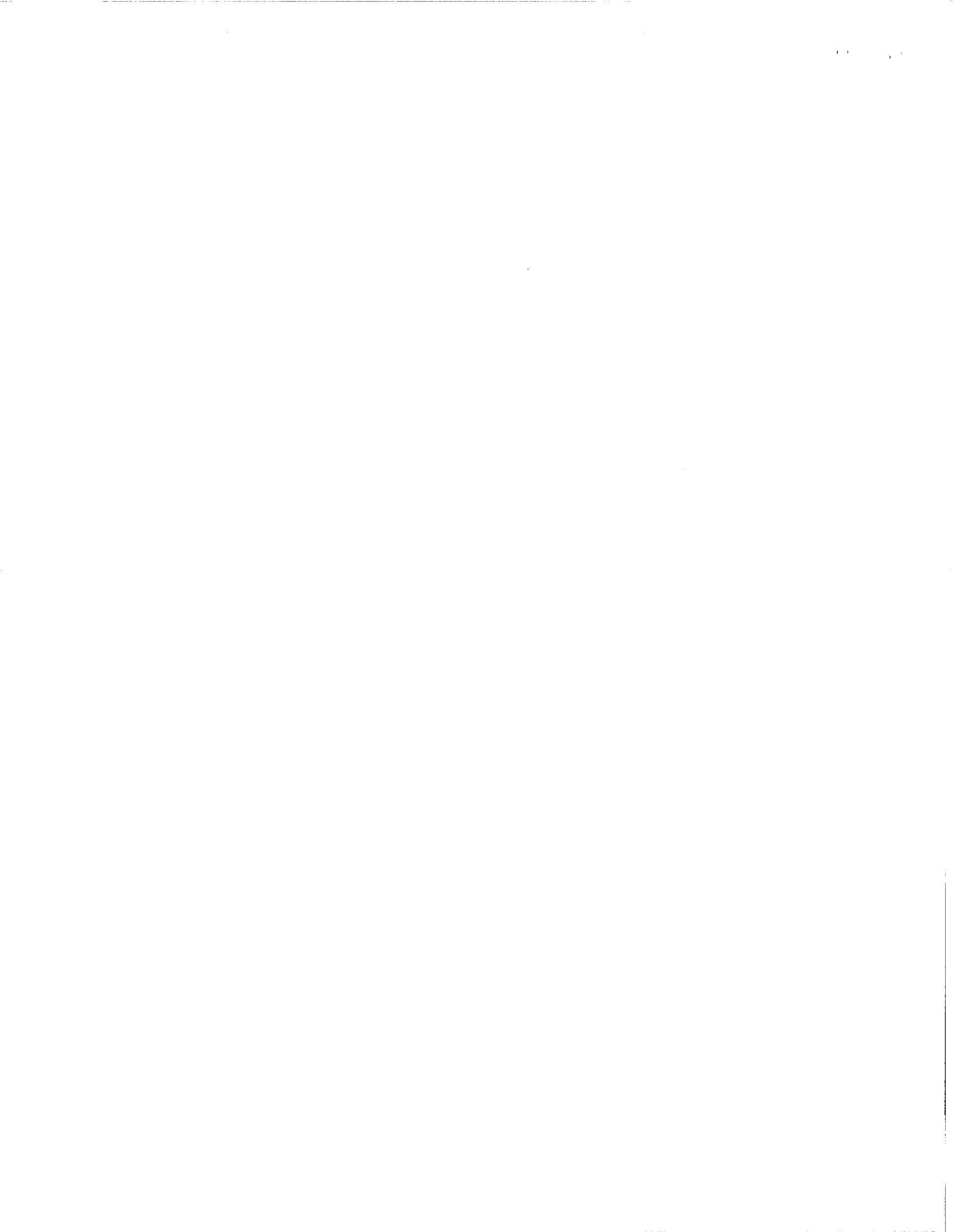
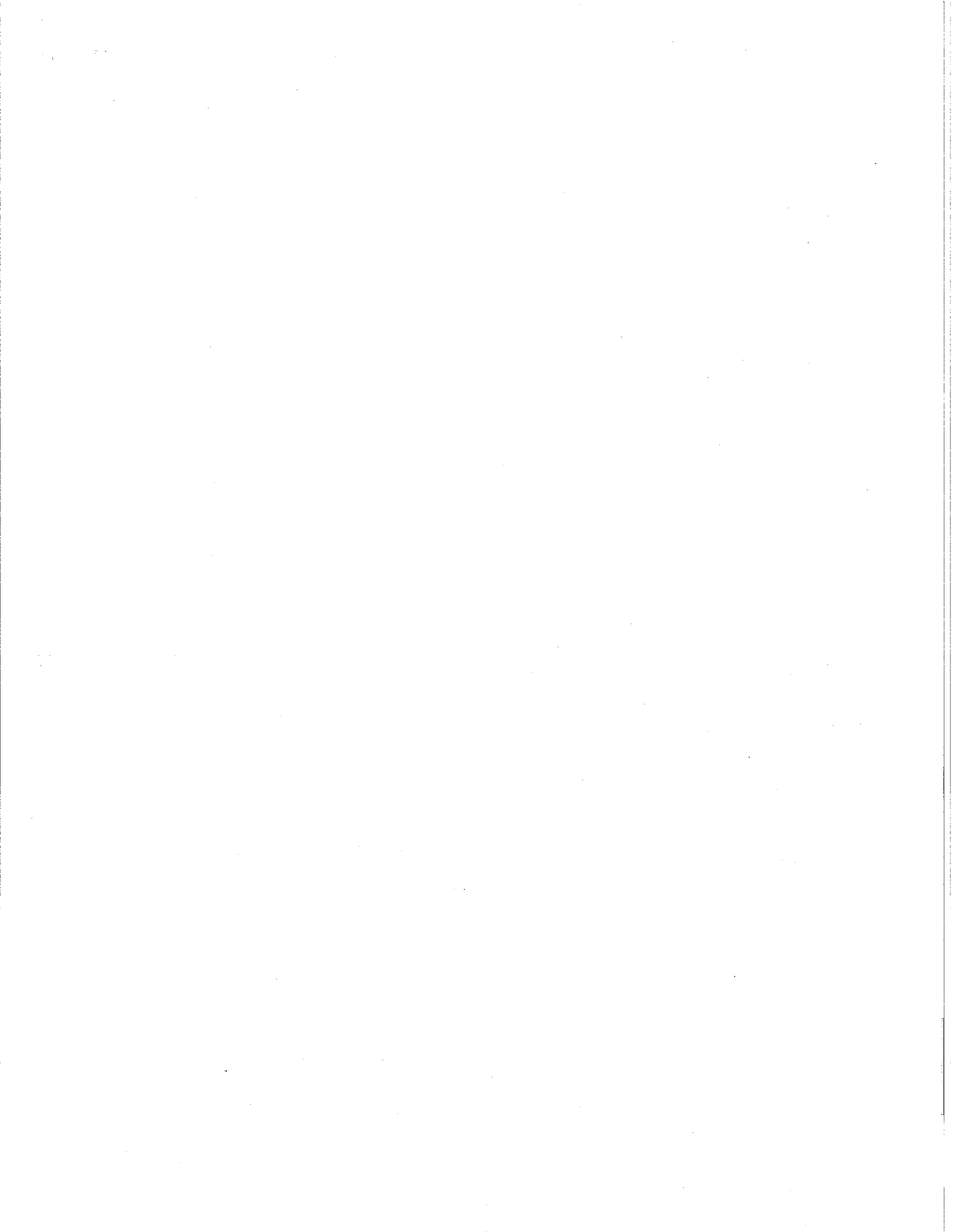
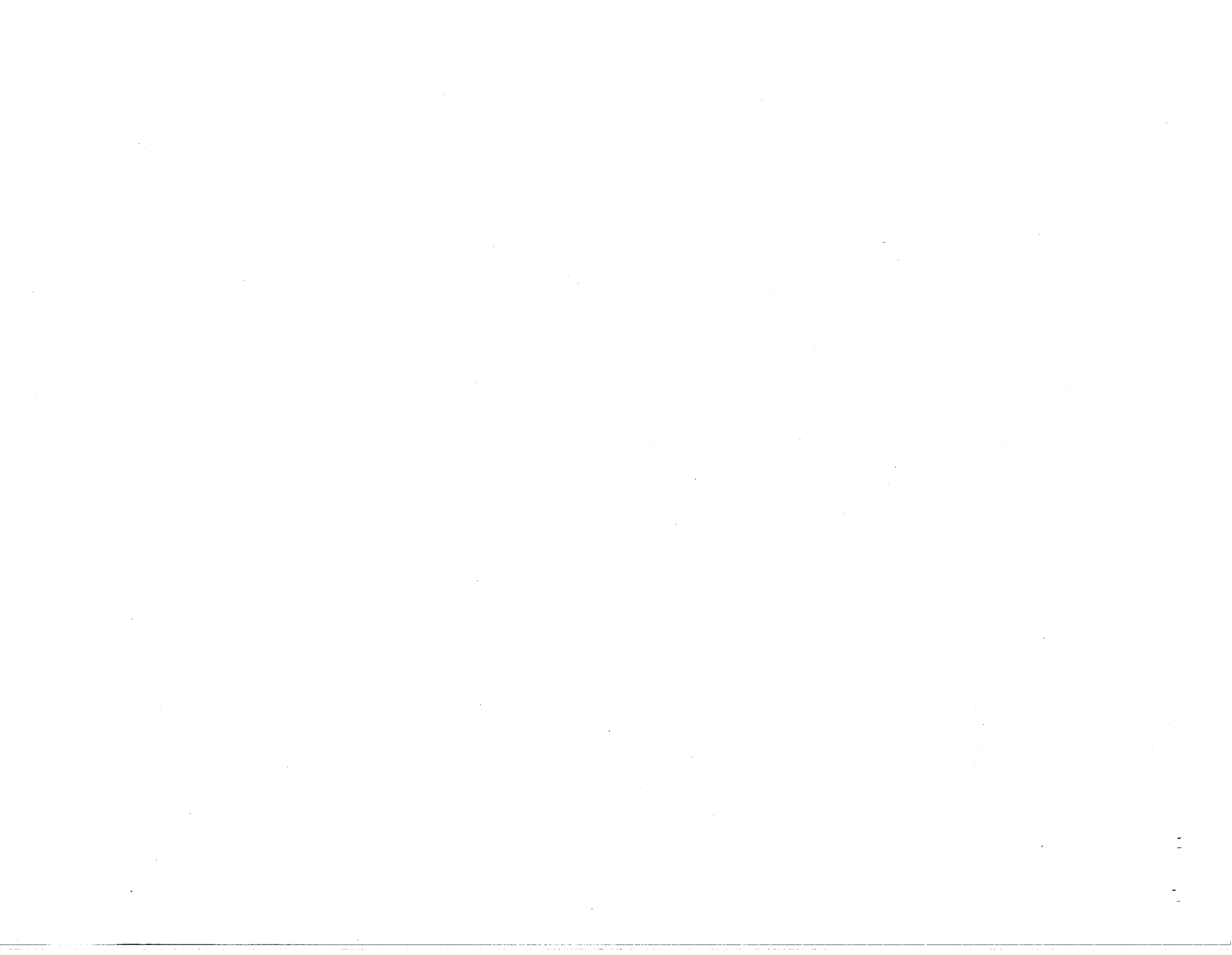


Exhibit 3: Map showing approximate location of the Site









February 10, 2003

Mr. Den Koide
McDonald's Corporation
2111 McDonald's Drive
Oak Brook, Illinois 60523

**Subject: Report of Soil Sampling of the Village of Oak Brook's Soil Pile
McDonald's Corporation Property Located at 1120 West 22nd Street,
Oak Brook, Illinois
IEPA Incident Nos. 902922 & 952344
LAW Proposal No. 52099-0-0000-0499
LAW Project No. 52000-2-2681-09**

Dear Mr. Koide:

Mactec Engineering and Consulting of Georgia, Inc., (MACTEC) is pleased to submit this *Report of Soil Sampling of the Village of Oak Brook's Soil Pile* in connection with the soil remediation project at McDonald's Corporation (McDonald's) property located at 1120 West 22nd Street in Oak Brook, Illinois (subject property). Our work was performed in general accordance with the scope of work described in MACTEC's Contract Change Order dated December 2, 2002 and our *Recommendations on Evaluating the Village of Oak Brook's Soil Pile* dated January 3, 2003 and approved by McDonald's. The following report includes the background information, field activities, physical and analytical results, and conclusion and recommendations.

Background Information

The subject property is currently a vacant tract of land owned by McDonald's Corporation undergoing soil remediation under the Illinois Environmental Protection Agency (IEPA)'s leaking underground storage tank (LUST) program. The subject project was formerly developed with a retail petroleum distribution and auto repair facility that subsequently ceased operation and was demolished around 1995. The four USTs at the subject property (one 4,000-gallon gasoline, one 6,000-gallon gasoline, one 8,000-gallon gasoline and one 550-gallon used oil) and associated piping were excavated and removed on November 14, 1995. Two LUST incident numbers associated with the former UST systems were obtained for the subject property.

MACTEC Engineering and Consulting, Inc.
1200 Jorie Blvd., Suite 230 • Oak Brook, IL 60523
630-571-2162 • Fax: 630-571-0439

Subsurface assessments consisting of soil and groundwater sampling at the subject property were performed from 1991 to 2000. Based on the results of the subsurface assessments, it was estimated that approximately 12,000 cubic yards of soils were impacted by releases from the former USTs.

On February 27, 2002, LAW (currently MACTEC) prepared and submitted a Revised Corrective Action Plan (CAP) and Budget Proposal to the Illinois Environmental Protection Agency (IEPA) based on findings of our July 2000 limited subsurface assessment. In the revised CAP, soil excavation and disposal was the recommended method for soil remediation. The IEPA via their May 3, 2002 letter conditionally approved our Revised CAP.

Soil excavation activities began at the subject property on December 5, 2002.

During a site meeting among representatives from R.W. Collins, the soil removal contractor, MACTEC, Village of Oak Brook and McDonald's on November 21, 2002, the use of soil from soil piles owned by the Village of Oak Brook as backfill material at the subject property was discussed. McDonald's has requested MACTEC to conduct soil sampling of the soil piles and to present additional estimated cost associated with using the soil from the Village of Oak Brook instead of the originally proposed crushed stone as backfill material. On November 22, 2002, Ms. Carmen Yung of MACTEC contacted Ms. Valerie Davis, project manager of IEPA, Leaking Underground Storage Tank Program regarding sampling and use of the soil pile as backfill material at the subject site. Ms. Valerie Davis told MACTEC that the IEPA would consider the soil from the Village of Oak Brook as acceptable backfill if assurance can be provided to confirm that the soil did not come from a contaminated source. In addition, the IEPA will also require that one soil sample be collected from the soil piles and tested for total priority pollutants.

The Village of Oak Brook via their November 22, 2002 letter to McDonald's, stated that to the best of their knowledge, the soil pile does not contain any contaminants, that the soil is a temporary stockpile of the soil excavated for the Village of Oak Brook library when it was built about two years ago and the recent Village Hall expansion.

FIELD ACTIVITIES

On November 26, 2002, MACTEC personnel collected one composite soil sample from the Village of Oak Brook's soil pile using a hand auger. The composite soil sample was collected from five different locations from the soil pile. Three soil samples were collected from the east side of the soil pile and two soil samples were collected from the top of the soil pile. Due to the presence of large pieces of stone or concrete at various sampling locations, refusal was encountered at various sampling locations. These sampling locations were subsequently abandoned and new sampling locations were chosen for sampling. The five soil samples were collected at approximately four to five feet below the surface of the soil pile. The hand-auger used for this sampling was washed with Alconox solution and rinsed with distilled water prior to use at each location. The soil samples were then composited into one soil sample (designated as soil pile 1), put into laboratory-provided containers, packed with ice and shipped to Prairie Analytical Systems, Inc. in Springfield, Illinois with the chain-of-custody for laboratory analyses of total priority pollutants.

Due to the size of the soil pile (more than 15,000 cubic yards according to the Village of Oak Brook), that the soil inside the soil piles could not be readily accessible and checked for signs of contamination and that only one soil sample was collected for laboratory analyses, MACTEC recommended that, as a minimum, MACTEC personnel be on-site screening the soil with a Photoionization Hnu detector (PID) and checking the soil for visual and olfactory signs of contamination at the time that the soil is being excavated and loaded to the trucks for transportation to the subject property for use.

On-site screening of the soil pile was subsequently performed from December 30, 2002 to January 3, 2003. Soil was collected from the soil pile into resealable Ziploc bags randomly. Soil collected was allowed to warm up for 5 to 10 minutes. PID headspace readings were then obtained by inserting the PID probe in the Ziploc bags. Based on our on-site screening, no elevated PID readings nor visual and olfactory signs of contamination were reported.

On January 3, 2003, Ms. Carmen Yung of MACTEC contacted Ms. Valerie Davis of the IEPA regarding continuing on-site screening of the soil pile. Due to the length of time and cost involved for continuing on-site screening, Ms. Valerie Davis suggested that additional soil samples from the soil pile be collected and tested instead of continued on-site screening. (Refer to MACTEC's *Recommendations on Evaluating the Village of Oak Brook's Soil Pile*, dated January 3, 2003)

On January 9, 2003, MACTEC personnel collected additional samples from the soil pile. Nine soil samples were collected from nine locations at approximately four to five feet below the surface using a hand auger. The hand-auger used for this sampling was washed with Alconox solution and rinsed with distilled water prior to be used at each location. The soil samples were then composited into three soil samples (designated as soil pile 2 through 4), put into laboratory-provided containers, packed with ice and shipped to Prairie Analytical Systems, Inc. in Springfield, Illinois with the chain-of-custody for laboratory analyses of total priority pollutants.

PHYSICAL AND ANALYTICAL RESULTS

The soil encountered during collection of samples consists of sand and gravel, broken pieces of concrete and brown to grey silty clay.

Analytical results of the soil sample collected from the soil pile are compared to the most stringent IEPA Tier 1 soil remediation objectives promulgated in 35 Illinois Administrative Code Part 742, Tiered Approach to Corrective Action Objectives (TACO).

Various volatile organic compounds (VOCs) including 1,2,3-Trichloropropane at 0.0234 milligrams per kilogram (mg/kg) and toluene at 0.00625 mg/kg were reported in sample 3 and methylene chloride at 0.0083 mg/kg was reported in sample 4. However, their concentrations are all below the most stringent TACO Tier 1 soil remediation objectives. VOCs were not detected in soil sample 1 and 2. Detected VOC concentrations are summarized in Table 1.

Semi-VOCs, PCBs, pesticides, herbicides were not detected above the laboratory detection limits in the four soil samples collected.

Various metals including arsenic, barium, chromium, copper, lead, nickel and zinc were detected above the laboratory detection limits but their concentrations were either below the most stringent Tier 1 soil remediation objectives or the IEPA established background concentrations for inorganic chemicals with the exception of arsenic concentration reported in soil sample 2 at 13.7 mg/kg which slightly exceeded the IEPA established background concentration for arsenic at 13 mg/kg. Metal concentrations detected are summarized in Table 2.

Laboratory data sheets are included as Attachment A.

CONCLUSIONS AND RECOMMENDATIONS

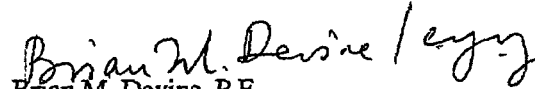
Based on our on-site screening results that no elevated PID readings nor visual or olfactory signs of contamination were reported and the analytical results of the four soil samples collected that showed that only one soil sample had arsenic concentration very slightly above the IEPA background concentration, we conclude that the soil at locations where the soil samples were collected was not contaminated.

We appreciate the opportunity to provide continued environmental consulting services to McDonald's. We are committed to providing the expertise you require for the successful completion of this project. Should you have any questions regarding this report, please do not hesitate to contact us.

Sincerely,

MACTEC Engineering and Consulting of Georgia, Inc.
F/k/a LAW Engineering and Environmental Services, Inc.


Carmen Y. Yung
Senior Environmental Professional


Brian M. Devine, P.E.
Principal

Attachment: Table 1
 Table 2
 Attachment A – Laboratory Data Sheets

TABLES

Table 1: Summary of Detected Volatile Organic Compounds in Soil Samples

Sample Identification	Soil Pile 1	Soil Pile 2	Soil Pile 3	Soil Pile 4	Tier 1 Soil Remediation Objective ¹
Sample Date	11/26/02	01/09/03	01/09/03	01/09/03	
Sample Depth (feet)	(4-5)	(4-5)	(4-5)	(4-5)	
Parameter (mg/kg)					
1,2,3-Trichloropropane	ND	ND	0.0234	ND	NE
Toluene	ND	ND	0.00625	ND	12
Methylene Chloride	ND	ND	ND	0.0083	0.02

Notes:

1

The most conservative Tier 1 soil remediation objective for residential properties as presented in the Tiered Approach to Cleanup Objectives (TACO) in 35 Illinois Administrative Code (IAC) 35 Part 742, Appendix B, Table A

mg/kg:

Milligrams per kilogram (ppm)

ND:

Not Detected Above Method Detection Limit

NE:

No soil remediation objective established

Prepared By:

2/4/2-5-2003

Checked By:

BMD/2-7-2003

Table 2: Summary of Detected Metal Constituents in Soil Samples

Sample Identification	Soil Pile 1	Soil Pile 2	Soil Pile 3	Soil Pile 4	Background Concentrations ²	Ingestion/ Inhalation ¹
Sample Date	11/26/02	01/09/03	01/09/03	01/09/03		
Sample Depth (feet)	(4-5)	(4-5)	(4-5)	(4-5)		
Parameter (mg/kg)						
Antimony	ND	NA	NA	NA	4.0	31
Arsenic	9.26	13.7	10.9	10.9	13	0.4
Barium	NA	41.7	40.9	55.6	110	5,500
Beryllium	ND	NA	NA	NA	0.59	0
Cadmium	ND	ND	ND	ND	0.6	78
Chromium (total)	7.33	14.5	8.09	9.64	16.2	390
Copper	17.5	NA	NA	NA	19.6	2900
Lead	18.4	24	20.2	23.3	36	400
Mercury	ND	ND	ND	ND	0.06	10
Nickel	20.9	NA	NA	NA	NE	1,600
Selenium	ND	ND	ND	ND	NE	390
Silver	ND	ND	ND	ND	NE	390
Thallium	ND	NA	NA	NA	NE	6.3
Zinc	44.4	NA	NA	NA	NE	23,000

Notes:

- 1 The most conservative cleanup objective for the ingestion and inhalation exposure route as presented in the Tiered Approach to Cleanup Objectives (TACO) in 35 Illinois Administrative Code (IAC) 35 Part 742, Appendix B Table A.
- 2 Concentrations of Inorganic Chemicals in Background Soils - Counties Within Metropolitan Statistical Areas, TACO, 35 IAC Part 742, Appendix A, Table G.

mg/kg: Milligrams per kilogram (ppm)

NA: Not Analyzed

ND: Not Detected Above Method Detection Limit

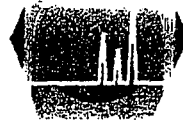
BOLD: Indicates concentration above remediation objective but below the background concentration

13.7 Indicates concentration above both the remediation objective and the background concentration

Prepared By: CYY/12-5-2003
Checked By: BMD/12-7-2003

ATTACHMENT A – LABORATORY DATA SHEETS

Prairie



Analytical
Systems, INCORPORATED

December 16, 2002

Ms. Carmen Yung
Law Environmental & Engineering Services
5440 N. Cumberland Ave
Chicago, IL 60656

1265 Capital Airport Drive
Springfield, IL 62707-8490

Phone: 217-753-1148
FAX: 217-753-1152

RE: McDonald's 52000-2-2681

PAS Order No.: 02 1123

Dear Ms. Carmen Yung:

Prairie Analytical Systems, Inc. received 1 sample on 11/27/2002 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria.

This report shall not be reproduced, except in full, without the prior written consent of Prairie Analytical Systems, Inc.

If you have any questions, please feel free to call me at (217) 753-1148.

Sincerely,

J-P Rouanet
Laboratory Director

Client	LAW ENGINEERING				Client Project	McDONALD'S 52000-2-2681					
Address	5440 N. CUMBERLAND AVE.				Project Location	1120 W 22ND ST., DAK BROOK, IL					
City, State Zip Code	CHICAGO, IL 60656				Sampler(s) / Phone No.	CARMEN YUNG 1630-328-0420					
Phone / Facsimile No.	630-328-0420 1630-420-0913				Turnaround Time	Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Date Required: DEC 4, 2002					
Contact Person	CARMEN YUNG				P.O. # or Invoice To	CARMEN YUNG					
Sample Description (10 Characters Only)	Sampling		Container		M/P	Analysis and / or Method Requested (If there are any questions, please call.)	PAS Sample Number				
	Date	Time	Size	Type / No.	Code		Accepted / Rejected				
SOIL PILE 1	11-26	11:00A	40Z	14	SOIL	Total priority pollutants VOCs SVOCs PCBs pesticides herbicides 8 RCRA metals (total)	A [] R []				
			Terra Core	13	SOIL		A [] R []				
				1	1		A [] R []				
				1	1		A [] R []				
				1	1		A [] R []				
				1	1		A [] R []				
				1	1		A [] R []				
				1	1		A [] R []				
				1	1		A [] R []				
				1	1		A [] R []				
¹ Size of Container	40 mL		125 mL		250 mL		500 mL		1000 mL		O - Other (Specify)
² Type of Container	G - Glass (Clear)		AG - Glass (Amber)		P - HDPE		VC - Volatile Core		SC - Soil Core		O - Other (Specify)
³ M = Matrix Code	A - Aqueous		DW - Drinking Water		NA - Non-aqueous Liquid		SE - Saline Water		S - Solids		O - Other (Specify)
⁴ P = Preservative Code	A - None		B - HNO ₃		C - H ₂ SO ₄		D - NaOH		E - HCl		O - Other (Specify)
Relinquished By:			Date	Time	Received By:			Date	Time	Method of Shipment	
CARMEN YUNG			11-26	4:00P	[Signature]			11-27-02	2:30	Fed EX	
Special Instructions:											PAS Project Code:

Prairie Analytical Systems, Inc.

Date: 16-Dec-02

CLIENT: Law Environmental & Engineering Services
 Project: McDonald's 52000-2-2681

Lab Order: 0211123

Lab ID: 0211123-001

Collection Date: 11/26/2002

Client Sample ID: Soil Pile 1

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PRIORITY POLLUTANT METALS ANALYSIS		E200.8		(SW3050B)		Analyst: MCL
Antimony	U	2.70		mg/Kg-dry	10	12/3/2002 11:51:00 PM
Arsenic	9.26	2.70		mg/Kg-dry	10	12/3/2002 11:51:00 PM
Beryllium	U	2.70		mg/Kg-dry	10	12/3/2002 11:51:00 PM
Cadmium	U	2.70		mg/Kg-dry	10	12/3/2002 11:51:00 PM
Chromium	7.33	2.70		mg/Kg-dry	10	12/3/2002 11:51:00 PM
Copper	17.5	5.40		mg/Kg-dry	10	12/3/2002 11:51:00 PM
Lead	18.4	2.70		mg/Kg-dry	10	12/4/2002 3:30:00 PM
Mercury	U	0.540		mg/Kg-dry	10	12/3/2002 11:51:00 PM
Nickel	20.9	2.70		mg/Kg-dry	10	12/3/2002 11:51:00 PM
Selenium	U	2.70		mg/Kg-dry	10	12/3/2002 11:51:00 PM
Silver	U	2.70		mg/Kg-dry	10	12/3/2002 11:51:00 PM
Thallium	U	2.70		mg/Kg-dry	10	12/4/2002 3:30:00 PM
Zinc	44.4	5.40		mg/Kg-dry	10	12/3/2002 11:51:00 PM
SEMIVOLATILES ANALYSIS		SW8270C		(SW3550B)		Analyst: JA
1,2,4-Trichlorobenzene	U	389		µg/Kg-dry	1	12/4/2002 1:17:00 PM
1,2-Dichlorobenzene	U	389		µg/Kg-dry	1	12/4/2002 1:17:00 PM
1,3-Dichlorobenzene	U	389		µg/Kg-dry	1	12/4/2002 1:17:00 PM
1,4-Dichlorobenzene	U	389		µg/Kg-dry	1	12/4/2002 1:17:00 PM
2,4,5-Trichlorophenol	U	389		µg/Kg-dry	1	12/4/2002 1:17:00 PM
2,4,6-Trichlorophenol	U	389		µg/Kg-dry	1	12/4/2002 1:17:00 PM
2,4-Dichlorophenol	U	389		µg/Kg-dry	1	12/4/2002 1:17:00 PM
2,4-Dimethylphenol	U	389		µg/Kg-dry	1	12/4/2002 1:17:00 PM
2,4-Dinitrophenol	U	1940		µg/Kg-dry	1	12/4/2002 1:17:00 PM
2,4-Dinitrotoluene	U	777		µg/Kg-dry	1	12/4/2002 1:17:00 PM
2,6-Dinitrotoluene	U	389		µg/Kg-dry	1	12/4/2002 1:17:00 PM
2-Chloronaphthalene	U	389		µg/Kg-dry	1	12/4/2002 1:17:00 PM
2-Chlorophenol	U	389		µg/Kg-dry	1	12/4/2002 1:17:00 PM
2-Methylnaphthalene	U	389		µg/Kg-dry	1	12/4/2002 1:17:00 PM
2-Methylphenol	U	389		µg/Kg-dry	1	12/4/2002 1:17:00 PM
2-Nitroaniline	U	1940		µg/Kg-dry	1	12/4/2002 1:17:00 PM
2-Nitrophenol	U	389		µg/Kg-dry	1	12/4/2002 1:17:00 PM
3 & 4-Methylphenol	U	777		µg/Kg-dry	1	12/4/2002 1:17:00 PM
3,3'-Dichlorobenzidine	U	777		µg/Kg-dry	1	12/4/2002 1:17:00 PM
3-Nitroaniline	U	1940		µg/Kg-dry	1	12/4/2002 1:17:00 PM
4,6-Dinitro-2-methylphenol	U	1940		µg/Kg-dry	1	12/4/2002 1:17:00 PM
4-Bromophenyl phenyl ether	U	389		µg/Kg-dry	1	12/4/2002 1:17:00 PM
4-Chloro-3-methylphenol	U	777		µg/Kg-dry	1	12/4/2002 1:17:00 PM
4-Chloroaniline	U	777		µg/Kg-dry	1	12/4/2002 1:17:00 PM
4-Chlorophenyl phenyl ether	U	389		µg/Kg-dry	1	12/4/2002 1:17:00 PM

CLIENT: Law Environmental & Engineering Services
 Project: McDonald's 52000-2-2681

Lab Order: 0211123

SEMIVOLATILES ANALYSIS

SW8270C (SW3550B)

Analyst: JA

4-Nitroaniline	U	777	µg/Kg-dry	1	12/4/2002 1:17:00 PM
4-Nitrophenol	U	1940	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Acenaphthene	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Acenaphthylene	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Anthracene	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Benzo(a)anthracene	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Benzo(a)pyrene	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Benzo(b)fluoranthene	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Benzo(g,h,i)perylene	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Benzo(k)fluoranthene	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Benzoic acid	U	1940	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Benzyl alcohol	U	777	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Bis(2-chloroethoxy)methane	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Bis(2-chloroethyl)ether	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Bis(2-chloroisopropyl)ether	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Bis(2-ethylhexyl)phthalate	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Butyl benzyl phthalate	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Carbazole	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Chrysene	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Di-n-butyl phthalate	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Di-n-octyl phthalate	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Dibenz(a,h)anthracene	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Dibenzofuran	U	1940	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Diethyl phthalate	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Dimethyl phthalate	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Fluoranthene	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Fluorene	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Hexachlorobenzene	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Hexachlorobutadiene	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Hexachlorocyclopentadiene	U	777	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Hexachloroethane	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Indeno(1,2,3-cd)pyrene	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Isophorone	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
N-Nitrosodi-n-propylamine	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
N-Nitrosodiphenylamine	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Naphthalene	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Nitrobenzene	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Pentachlorophenol	U	1940	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Phenanthrene	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Phenol	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM
Pyrene	U	389	µg/Kg-dry	1	12/4/2002 1:17:00 PM

VOLATILES ANALYSIS

SW8260B

Analyst: BP

1,1,1,2-Tetrachloroethane	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
1,1,1-Trichloroethane	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM

Prairie Analytical Systems, Inc.

Date: 16-Dec-02

CLIENT: Law Environmental & Engineering Services Lab Order: 0211123
 Project: McDonald's 52000-2-2681

VOLATILES ANALYSIS		SW8260B		Analyst: BP	
1,1,2,2-Tetrachloroethane	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
1,1,2-Trichloroethane	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
1,1-Dichloroethane	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
1,1-Dichloroethene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
1,1-Dichloropropene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
1,2,3-Trichlorobenzene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
1,2,3-Trichloropropane	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
1,2,4-Trichlorobenzene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
1,2,4-Trimethylbenzene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
1,2-Dibromo-3-chloropropane	U	11.7	µg/Kg-dry	1	12/3/2002 1:15:00 PM
1,2-Dibromoethane	U	11.7	µg/Kg-dry	1	12/3/2002 1:15:00 PM
1,2-Dichlorobenzene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
1,2-Dichloroethane	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
1,2-Dichloropropane	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
1,3,5-Trimethylbenzene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
1,3-Dichlorobenzene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
1,3-Dichloropropane	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
1,4-Dichlorobenzene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
2,2-Dichloropropane	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
2-Butanone	U	11.7	µg/Kg-dry	1	12/3/2002 1:15:00 PM
2-Chloroethyl vinyl ether	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
2-Chlorotoluene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
2-Hexanone	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
4-Chlorotoluene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
4-Methyl-2-pentanone	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Acetone	U	58.3	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Acetonitrile	U	58.3	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Acrolein	U	58.3	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Acrylonitrile	U	58.3	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Benzene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Bromobenzene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Bromochloromethane	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Bromodichloromethane	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Bromoform	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Bromomethane	U	11.7	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Butylbenzene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Carbon disulfide	U	11.7	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Carbon tetrachloride	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Chlorobenzene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Chloroethane	U	11.7	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Chloroform	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Chloromethane	U	11.7	µg/Kg-dry	1	12/3/2002 1:15:00 PM
cis-1,2-Dichloroethene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
cis-1,3-Dichloropropene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Dibromochloromethane	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM

Prairie Analytical Systems, Inc.

Date: 16-Dec-02

CLIENT: Law Environmental & Engineering Services
 Project: McDonald's 52000-2-2681

Lab Order: 0211123

VOLATILES ANALYSIS

SW8260B

Analyst: BP

Dibromomethane	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Dichlorodifluoromethane	U	11.7	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Ethylbenzene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Hexachlorobutadiene	U	11.7	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Isopropylbenzene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Methyl tert-butyl ether	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Methylene chloride	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Naphthalene	U	14.0	µg/Kg-dry	1	12/3/2002 1:15:00 PM
p-Isopropyltoluene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Propylbenzene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
sec-Butylbenzene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Styrene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
tert-Butylbenzene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Tetrachloroethene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Toluene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
trans-1,2-Dichloroethene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
trans-1,3-Dichloropropene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Trichloroethene	U	5.83	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Trichlorofluoromethane	U	11.7	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Vinyl acetate	U	11.7	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Vinyl chloride	U	11.7	µg/Kg-dry	1	12/3/2002 1:15:00 PM
Xylenes, Total	U	17.5	µg/Kg-dry	1	12/3/2002 1:15:00 PM

ORGANOCHLORINE PESTICIDES ANALYSIS

SW8081A

Analyst: SUB

4,4'-DDD	U	0.003	µg/Kg-dry	1	12/5/2002
4,4'-DDE	U	0.003	µg/Kg-dry	1	12/5/2002
4,4'-DDT	U	0.006	µg/Kg-dry	1	12/5/2002
Aldrin	U	0.003	µg/Kg-dry	1	12/5/2002
alpha-BHC	U	0.002	µg/Kg-dry	1	12/5/2002
beta-BHC	U	0.003	µg/Kg-dry	1	12/5/2002
Chlordane	U	0.009	µg/Kg-dry	1	12/5/2002
delta-BHC	U	0.003	µg/Kg-dry	1	12/5/2002
Dieldrin	U	0.003	µg/Kg-dry	1	12/5/2002
Endosulfan I	U	0.003	µg/Kg-dry	1	12/5/2002
Endosulfan II	U	0.011	µg/Kg-dry	1	12/5/2002
Endosulfan sulfate	U	0.005	µg/Kg-dry	1	12/5/2002
Endrin	U	0.004	µg/Kg-dry	1	12/5/2002
Endrin aldehyde	U	0.004	µg/Kg-dry	1	12/5/2002
gamma-BHC	U	0.004	µg/Kg-dry	1	12/5/2002
Heptachlor	U	0.003	µg/Kg-dry	1	12/5/2002
Heptachlor epoxide	U	0.003	µg/Kg-dry	1	12/5/2002
Methoxychlor	U	0.007	µg/Kg-dry	1	12/5/2002
Toxaphene	U	0.076	µg/Kg-dry	1	12/5/2002

POLYCHLORINATED BIPHENYLS ANALYSIS

SW8082

Analyst: SUB

Aroclor 1016	U	0.688	µg/Kg-dry	1	12/5/2002
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Prairie Analytical Systems, Inc.

Date: 16-Dec-02

CLIENT: Law Environmental & Engineering Services
Project: McDonald's 52000-2-2681

Lab Order: 0211123

POLYCHLORINATED BIPHENYLS ANALYSIS		SW8082			Analyst: SUB
Aroclor 1221	U	0.688	µg/Kg-dry	1	12/5/2002
Aroclor 1232	U	0.688	µg/Kg-dry	1	12/5/2002
Aroclor 1242	U	0.688	µg/Kg-dry	1	12/5/2002
Aroclor 1248	U	0.688	µg/Kg-dry	1	12/5/2002
Aroclor 1254	U	0.688	µg/Kg-dry	1	12/5/2002
Aroclor 1260	U	0.688	µg/Kg-dry	1	12/5/2002

HERBICIDES ANALYSIS		SW8151A			Analyst: SUB
2,4,5-T	U	23.2	µg/Kg-dry	1	12/5/2002
2,4,5-TP (Silvex)	U	23.2	µg/Kg-dry	1	12/5/2002
2,4-D	U	232	µg/Kg-dry	1	12/5/2002
2,4-DB	U	232	µg/Kg-dry	1	12/5/2002
Dalapon	U	462	µg/Kg-dry	1	12/5/2002
Dicamba	U	23.2	µg/Kg-dry	1	12/5/2002
Dichlorprop	U	232	µg/Kg-dry	1	12/5/2002
Dinoseb	U	116	µg/Kg-dry	1	12/5/2002
MCPA	U	4620	µg/Kg-dry	1	12/5/2002
MCPP	U	4620	µg/Kg-dry	1	12/5/2002
Pentachlorophenol	U	23.2	µg/Kg-dry	1	12/5/2002

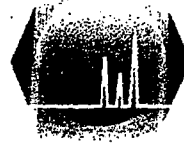
PERCENT MOISTURE ANALYSIS		D2216			Analyst: RN
Percent Moisture	14.3	0.01	wt%	1	12/3/2002

Prairie Analytical Systems, Inc.

Qualifiers:

- B - Analyte detected in the associated method blank.
- E - Value above quantitation range.
- H - Analysis performed past holding time.
- HT - Sample received past holding time.
- J - Analyte detected between RL and MDL.
- R - RPD outside acceptance limits.
- S - Spike recovery outside acceptance limits.
- U - Analyte not detected (i.e. less than RL or MDL).

Prairie



Analytical
Systems, INCORPORATED

Testing Laboratory

January 29, 2003

Ms. Carmen Yung
Law Environmental & Engineering Services
5440 N. Cumberland Ave
Chicago, IL 60656

RE: McDonalds 52000-2-2681-10

Dear Ms. Carmen Yung:

Prairie Analytical Systems, Inc. received 3 samples on 1/10/2003 for the analyses presented in the following report.

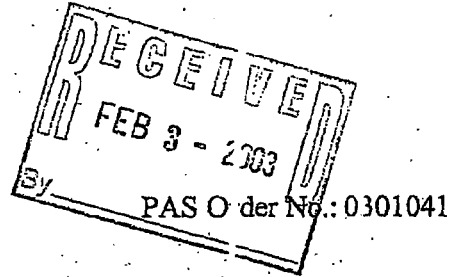
All applicable quality control procedures met method specific acceptance criteria.

This report shall not be reproduced, except in full, without the prior written consent of Prairie Analytical Systems, Inc.

If you have any questions, please feel free to call me at (217) 753-1148.

Sincerely,

Michael D. Bronny
Project Manager



1265 Capital Airport Drive
Springfield, IL 62707-8490

Phone: 217-753-1148
FAX: 217-753-1152

Prairie Analytical Systems, Inc.

Date: 29-Jan-03

CLIENT: Law Environmental & Engineering Service
 Project: McDonalds 52000-2-2681-10

Lab Order: 0301041

Lab ID: 0301041-001

Collection Date: 1/9/2003

Client Sample ID: soil pile 2

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS ANALYSIS		E200.8		(SW3050B)		Analyst: MCL
Arsenic	13.7	2.05		mg/Kg-dry	10	1/14/2003 6:51:00 PM
Barium	41.7	2.05		mg/Kg-dry	10	1/14/2003 6:51:00 PM
Cadmium	U	2.05		mg/Kg-dry	10	1/14/2003 6:51:00 PM
Chromium	14.5	10.2		mg/Kg-dry	50	1/14/2003 8:19:00 PM
Lead	24.0	2.05		mg/Kg-dry	10	1/14/2003 6:51:00 PM
Mercury	U	0.410		mg/Kg-dry	10	1/14/2003 6:51:00 PM
Selenium	U	2.05		mg/Kg-dry	10	1/14/2003 6:51:00 PM
Silver	U	2.05		mg/Kg-dry	10	1/14/2003 6:51:00 PM
SEMIVOLATILES ANALYSIS		SW8270C		(SW3550B)		Analyst: JA
1,2,4-Trichlorobenzene	U	392		µg/Kg-dry	1	1/14/2003 4:59:00 AM
1,2-Dichlorobenzene	U	392		µg/Kg-dry	1	1/14/2003 4:59:00 AM
1,3-Dichlorobenzene	U	392		µg/Kg-dry	1	1/14/2003 4:59:00 AM
1,4-Dichlorobenzene	U	392		µg/Kg-dry	1	1/14/2003 4:59:00 AM
2,4,5-Trichlorophenol	U	392		µg/Kg-dry	1	1/14/2003 4:59:00 AM
2,4,6-Trichlorophenol	U	392		µg/Kg-dry	1	1/14/2003 4:59:00 AM
2,4-Dichlorophenol	U	392		µg/Kg-dry	1	1/14/2003 4:59:00 AM
2,4-Dimethylphenol	U	392		µg/Kg-dry	1	1/14/2003 4:59:00 AM
2,4-Dinitrophenol	U	1960		µg/Kg-dry	1	1/14/2003 4:59:00 AM
2,4-Dinitrotoluene	U	785		µg/Kg-dry	1	1/14/2003 4:59:00 AM
2,6-Dinitrotoluene	U	392		µg/Kg-dry	1	1/14/2003 4:59:00 AM
2-Chloronaphthalene	U	392		µg/Kg-dry	1	1/14/2003 4:59:00 AM
2-Chlorophenol	U	392		µg/Kg-dry	1	1/14/2003 4:59:00 AM
2-Methylnaphthalene	U	392		µg/Kg-dry	1	1/14/2003 4:59:00 AM
2-Methylphenol	U	392		µg/Kg-dry	1	1/14/2003 4:59:00 AM
2-Nitroaniline	U	1960		µg/Kg-dry	1	1/14/2003 4:59:00 AM
2-Nitrophenol	U	392		µg/Kg-dry	1	1/14/2003 4:59:00 AM
3 & 4-Methylphenol	U	785		µg/Kg-dry	1	1/14/2003 4:59:00 AM
3,3'-Dichlorobenzidine	U	785		µg/Kg-dry	1	1/14/2003 4:59:00 AM
3-Nitroaniline	U	1960		µg/Kg-dry	1	1/14/2003 4:59:00 AM
4,6-Dinitro-2-methylphenol	U	1960		µg/Kg-dry	1	1/14/2003 4:59:00 AM
4-Bromophenyl phenyl ether	U	392		µg/Kg-dry	1	1/14/2003 4:59:00 AM
4-Chloro-3-methylphenol	U	785		µg/Kg-dry	1	1/14/2003 4:59:00 AM
4-Chloroaniline	U	785		µg/Kg-dry	1	1/14/2003 4:59:00 AM
4-Chlorophenyl phenyl ether	U	392		µg/Kg-dry	1	1/14/2003 4:59:00 AM
4-Nitroaniline	U	785		µg/Kg-dry	1	1/14/2003 4:59:00 AM
4-Nitrophenol	U	1960		µg/Kg-dry	1	1/14/2003 4:59:00 AM
Acenaphthene	U	392		µg/Kg-dry	1	1/14/2003 4:59:00 AM
Acenaphthylene	U	392		µg/Kg-dry	1	1/14/2003 4:59:00 AM
Aniline	U	392		µg/Kg-dry	1	1/14/2003 4:59:00 AM

Prairie Analytical Systems, Inc.

Date: 29-Jan-03

CLIENT: Law Environmental & Engineering Service
 Project: McDonalds 52000-2-2681-10

Lab Order: 0301041

SEMIVOLATILES ANALYSIS

		SW8270C	(SW3550B)		Analyst: JA
Anthracene	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Benzo(a)anthracene	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Benzo(a)pyrene	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Benzo(b)fluoranthene	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Benzo(g,h,i)perylene	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Benzo(k)fluoranthene	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Benzoic acid	U	1960	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Benzyl alcohol	U	785	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Bis(2-chloroethoxy)methane	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Bis(2-chloroethyl)ether	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Bis(2-chloroisopropyl)ether	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Bis(2-ethylhexyl)phthalate	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Butyl benzyl phthalate	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Carbazole	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Chrysene	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Di-n-butyl phthalate	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Di-n-octyl phthalate	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Dibenz(a,h)anthracene	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Dibenzofuran	U	1960	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Diethyl phthalate	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Dimethyl phthalate	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Fluoranthene	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Fluorene	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Hexachlorobenzene	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Hexachlorobutadiene	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Hexachlorocyclopentadiene	U	785	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Hexachloroethane	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Indeno(1,2,3-cd)pyrene	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Isophorone	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
N-Nitrosodi-n-propylamine	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
N-Nitrosodimethylamine	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
N-Nitrosodiphenylamine	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Naphthalene	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Nitrobenzene	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Pentachlorophenol	U	1960	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Phenanthrene	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Phenol	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Pyrene	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM
Pyridine	U	392	µg/Kg-dry	1	1/14/2003 4:59:00 AM

ORGANOCHLORINE PESTICIDES ANALYSIS

		SW8270C	(SW3550B)		Analyst: JA
4,4'-DDD	U	23.7	µg/Kg-dry	1	1/23/2003 2:40:00 PM
4,4'-DDE	U	41.6	µg/Kg-dry	1	1/23/2003 2:40:00 PM
4,4'-DDT	U	23.7	µg/Kg-dry	1	1/23/2003 2:40:00 PM
Alachlor	U	17.8	µg/Kg-dry	1	1/23/2003 2:40:00 PM

Prairie Analytical Systems, Inc.

Date: 29-Jan-03

CLIENT: Law Environmental & Engineering Service
Project: McDonalds 52000-2-2681-10

Lab Order: 0301041

ORGANOCHLORINE PESTICIDES ANALYSIS

		SW8270C	(SW3550B)	Analyst: JA
Aldrin	U	23.7	µg/Kg-dry 1	1/23/2003 2:40:00 PM
alpha-BHC		17.8	µg/Kg-dry 1	1/23/2003 2:40:00 PM
alpha-Chlordane	U	23.7	µg/Kg-dry 1	1/23/2003 2:40:00 PM
Atrazine	U	17.8	µg/Kg-dry 1	1/23/2003 2:40:00 PM
beta-BHC	U	17.8	µg/Kg-dry 1	1/23/2003 2:40:00 PM
Chlorobenzilate	U	23.7	µg/Kg-dry 1	1/23/2003 2:40:00 PM
DCPA	U	17.8	µg/Kg-dry 1	1/23/2003 2:40:00 PM
delta-BHC	U	23.7	µg/Kg-dry 1	1/23/2003 2:40:00 PM
Dieldrin	U	35.6	µg/Kg-dry 1	1/23/2003 2:40:00 PM
Endosulfan I	U	47.5	µg/Kg-dry 1	1/23/2003 2:40:00 PM
Endosulfan II	U	29.7	µg/Kg-dry 1	1/23/2003 2:40:00 PM
Endosulfan sulfate	U	23.7	µg/Kg-dry 1	1/23/2003 2:40:00 PM
Endrin	U	41.6	µg/Kg-dry 1	1/23/2003 2:40:00 PM
Endrin aldehyde	U	35.6	µg/Kg-dry 1	1/23/2003 2:40:00 PM
Endrin ketone	U	0	µg/Kg-dry 1	1/23/2003 2:40:00 PM
gamma-BHC	U	23.7	µg/Kg-dry 1	1/23/2003 2:40:00 PM
gamma-Chlordane	U	23.7	µg/Kg-dry 1	1/23/2003 2:40:00 PM
Heptachlor	U	17.8	µg/Kg-dry 1	1/23/2003 2:40:00 PM
Heptachlor epoxide	U	23.7	µg/Kg-dry 1	1/23/2003 2:40:00 PM
Methoxychlor	U	23.7	µg/Kg-dry 1	1/23/2003 2:40:00 PM
Permethrin	U	23.7	µg/Kg-dry 1	1/23/2003 2:40:00 PM
Simazine	U	23.7	µg/Kg-dry 1	1/23/2003 2:40:00 PM
Toxaphene	U	59.4	µg/Kg-dry 1	1/23/2003 2:40:00 PM
trans-Nonachlor	U	23.7	µg/Kg-dry 1	1/23/2003 2:40:00 PM

VOLATILES ANALYSIS

		SW8260B		Analyst: BP
1,1,1,2-Tetrachloroethane	U	5.90	µg/Kg-dry 1	1/22/2003 1:13:00 PM
1,1,1-Trichloroethane	U	5.90	µg/Kg-dry 1	1/22/2003 1:13:00 PM
1,1,2,2-Tetrachloroethane	U	5.90	µg/Kg-dry 1	1/22/2003 1:13:00 PM
1,1,2-Trichloroethane	U	5.90	µg/Kg-dry 1	1/22/2003 1:13:00 PM
1,1-Dichloroethane	U	5.90	µg/Kg-dry 1	1/22/2003 1:13:00 PM
1,1-Dichloroethene	U	5.90	µg/Kg-dry 1	1/22/2003 1:13:00 PM
1,1-Dichloropropene	U	5.90	µg/Kg-dry 1	1/22/2003 1:13:00 PM
1,2,3-Trichlorobenzene	U	5.90	µg/Kg-dry 1	1/22/2003 1:13:00 PM
1,2,3-Trichloropropane	U	5.90	µg/Kg-dry 1	1/22/2003 1:13:00 PM
1,2,4-Trichlorobenzene	U	5.90	µg/Kg-dry 1	1/22/2003 1:13:00 PM
1,2,4-Trimethylbenzene	U	5.90	µg/Kg-dry 1	1/22/2003 1:13:00 PM
1,2-Dibromo-3-chloropropane	U	11.8	µg/Kg-dry 1	1/22/2003 1:13:00 PM
1,2-Dibromoethane	U	11.8	µg/Kg-dry 1	1/22/2003 1:13:00 PM
1,2-Dichlorobenzene	U	5.90	µg/Kg-dry 1	1/22/2003 1:13:00 PM
1,2-Dichloroethane	U	5.90	µg/Kg-dry 1	1/22/2003 1:13:00 PM
1,2-Dichloropropane	U	5.90	µg/Kg-dry 1	1/22/2003 1:13:00 PM
1,3,5-Trimethylbenzene	U	5.90	µg/Kg-dry 1	1/22/2003 1:13:00 PM
1,3-Dichlorobenzene	U	5.90	µg/Kg-dry 1	1/22/2003 1:13:00 PM
1,3-Dichloropropane	U	5.90	µg/Kg-dry 1	1/22/2003 1:13:00 PM

Prairie Analytical Systems, Inc.

Date: 29-Jan-03

CLIENT: Law Environmental & Engineering Service
Project: McDonalds 52000-2-2681-10

Lab Order: 0301041

VOLATILES ANALYSIS

SW8260B

Analyst: BP

1,4-Dichlorobenzene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
2,2-Dichloropropane	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
2-Butanone	U	11.8	µg/Kg-dry	1	1/22/2003 1:13:00 PM
2-Chloroethyl vinyl ether	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
2-Chlorotoluene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
2-Hexanone	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
4-Chlorotoluene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
4-Methyl-2-pentanone	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Acetone	U	59.0	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Acetonitrile	U	59.0	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Acrolein	U	59.0	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Acrylonitrile	U	59.0	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Benzene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Bromobenzene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Bromochloromethane	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Bromodichloromethane	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Bromoform	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Bromomethane	U	11.8	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Butylbenzene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Carbon disulfide	U	11.8	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Carbon tetrachloride	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Chlorobenzene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Chloroethane	U	11.8	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Chloroform	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Chloromethane	U	11.8	µg/Kg-dry	1	1/22/2003 1:13:00 PM
cis-1,2-Dichloroethene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
cis-1,3-Dichloropropene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Dibromochloromethane	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Dibromomethane	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Dichlorodifluoromethane	U	11.8	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Ethylbenzene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Hexachlorobutadiene	U	11.8	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Isopropylbenzene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Methyl tert-butyl ether	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Methylene chloride	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Naphthalene	U	14.2	µg/Kg-dry	1	1/22/2003 1:13:00 PM
p-Isopropyltoluene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Propylbenzene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
sec-Butylbenzene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Styrene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
tert-Butylbenzene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Tetrachloroethene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Toluene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
trans-1,2-Dichloroethene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
trans-1,3-Dichloropropene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM

Prairie Analytical Systems, Inc.

Date: 29-Jan-03

CLIENT: Law Environmental & Engineering Service
Project: McDonalds 52000-2-2681-10

Lab Order: 0301041

VOLATILES ANALYSIS

SW8260B

Analyst: BP

Trichloroethene	U	5.90	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Trichlorofluoromethane	U	11.8	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Vinyl acetate	U	11.8	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Vinyl chloride	U	11.8	µg/Kg-dry	1	1/22/2003 1:13:00 PM
Xylenes, Total	U	17.7	µg/Kg-dry	1	1/22/2003 1:13:00 PM

POLYCHLORINATED BIPHENYLS ANALYSIS

SW8082

Analyst: SUB

Aroclor 1016	U	0.590	µg/Kg-dry	1	1/23/2003
Aroclor 1221	U	0.590	µg/Kg-dry	1	1/23/2003
Aroclor 1232	U	0.590	µg/Kg-dry	1	1/23/2003
Aroclor 1242	U	0.590	µg/Kg-dry	1	1/23/2003
Aroclor 1248	U	0.590	µg/Kg-dry	1	1/23/2003
Aroclor 1254	U	0.590	µg/Kg-dry	1	1/23/2003
Aroclor 1260	U	0.590	µg/Kg-dry	1	1/23/2003

HERBICIDES ANALYSIS

SW8151A

Analyst: SUB

2,4,5-T	U	19.7	µg/Kg-dry	1	1/23/2003
2,4,5-TP (Silvex)	U	19.7	µg/Kg-dry	1	1/23/2003
2,4-D	U	197	µg/Kg-dry	1	1/23/2003
2,4-DB	U	197	µg/Kg-dry	1	1/23/2003
Dalapon	U	393	µg/Kg-dry	1	1/23/2003
Dicamba	U	19.7	µg/Kg-dry	1	1/23/2003
Dichlorprop	U	197	µg/Kg-dry	1	1/23/2003
Dinoseb	U	98.3	µg/Kg-dry	1	1/23/2003
MCPA	U	3930	µg/Kg-dry	1	1/23/2003
MCPP	U	3930	µg/Kg-dry	1	1/23/2003
Pentachlorophenol	U	19.7	µg/Kg-dry	1	1/23/2003

Prairie Analytical Systems, Inc.

Date: 29-Jan-03

CLIENT: Law Environmental & Engineering Service
 Project: McDonalds 52000-2-2681-10

Lab Order: 0301041

Lab ID: 0301041-002

Collection Date: 1/9/2003

Client Sample ID: soil pile 3

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS ANALYSIS		E200.8		(SW3050B)		Analyst: MCL
Arsenic	10.9	2.30		mg/Kg-dry	10	1/14/2003 6:57:00 PM
Barium	40.9	2.30		mg/Kg-dry	10	1/14/2003 6:57:00 PM
Cadmium	U	2.30		mg/Kg-dry	10	1/14/2003 6:57:00 PM
Chromium	8.09	2.30		mg/Kg-dry	10	1/14/2003 6:57:00 PM
Lead	20.2	2.30		mg/Kg-dry	10	1/14/2003 6:57:00 PM
Mercury	U	0.459		mg/Kg-dry	10	1/14/2003 6:57:00 PM
Selenium	U	2.30		mg/Kg-dry	10	1/14/2003 6:57:00 PM
Silver	U	2.30		mg/Kg-dry	10	1/14/2003 6:57:00 PM
SEMIVOLATILES ANALYSIS		SW8270C		(SW3550B)		Analyst: JA
1,2,4-Trichlorobenzene	U	405		µg/Kg-dry	1	1/14/2003 5:34:00 AM
1,2-Dichlorobenzene	U	405		µg/Kg-dry	1	1/14/2003 5:34:00 AM
1,3-Dichlorobenzene	U	405		µg/Kg-dry	1	1/14/2003 5:34:00 AM
1,4-Dichlorobenzene	U	405		µg/Kg-dry	1	1/14/2003 5:34:00 AM
2,4,5-Trichlorophenol	U	405		µg/Kg-dry	1	1/14/2003 5:34:00 AM
2,4,6-Trichlorophenol	U	405		µg/Kg-dry	1	1/14/2003 5:34:00 AM
2,4-Dichlorophenol	U	405		µg/Kg-dry	1	1/14/2003 5:34:00 AM
2,4-Dimethylphenol	U	405		µg/Kg-dry	1	1/14/2003 5:34:00 AM
2,4-Dinitrophenol	U	2030		µg/Kg-dry	1	1/14/2003 5:34:00 AM
2,4-Dinitrotoluene	U	810		µg/Kg-dry	1	1/14/2003 5:34:00 AM
2,6-Dinitrotoluene	U	405		µg/Kg-dry	1	1/14/2003 5:34:00 AM
2-Chloronaphthalene	U	405		µg/Kg-dry	1	1/14/2003 5:34:00 AM
2-Chlorophenol	U	405		µg/Kg-dry	1	1/14/2003 5:34:00 AM
2-Methylnaphthalene	U	405		µg/Kg-dry	1	1/14/2003 5:34:00 AM
2-Methylphenol	U	405		µg/Kg-dry	1	1/14/2003 5:34:00 AM
2-Nitroaniline	U	2030		µg/Kg-dry	1	1/14/2003 5:34:00 AM
2-Nitrophenol	U	405		µg/Kg-dry	1	1/14/2003 5:34:00 AM
3 & 4-Methylphenol	U	810		µg/Kg-dry	1	1/14/2003 5:34:00 AM
3,3'-Dichlorobenzidine	U	810		µg/Kg-dry	1	1/14/2003 5:34:00 AM
3-Nitroaniline	U	2030		µg/Kg-dry	1	1/14/2003 5:34:00 AM
4,6-Dinitro-2-methylphenol	U	2030		µg/Kg-dry	1	1/14/2003 5:34:00 AM
4-Bromophenyl phenyl ether	U	405		µg/Kg-dry	1	1/14/2003 5:34:00 AM
4-Chloro-3-methylphenol	U	810		µg/Kg-dry	1	1/14/2003 5:34:00 AM
4-Chloroaniline	U	810		µg/Kg-dry	1	1/14/2003 5:34:00 AM
4-Chlorophenyl phenyl ether	U	405		µg/Kg-dry	1	1/14/2003 5:34:00 AM
4-Nitroaniline	U	810		µg/Kg-dry	1	1/14/2003 5:34:00 AM
4-Nitrophenol	U	2030		µg/Kg-dry	1	1/14/2003 5:34:00 AM
Acenaphthene	U	405		µg/Kg-dry	1	1/14/2003 5:34:00 AM
Acenaphthylene	U	405		µg/Kg-dry	1	1/14/2003 5:34:00 AM
Aniline	U	405		µg/Kg-dry	1	1/14/2003 5:34:00 AM

Prairie Analytical Systems, Inc.

Date: 29-Jan-03

CLIENT: Law Environmental & Engineering Service
 Project: McDonalds 52000-2-2681-10

Lab Order: 0301041

SEMIVOLATILES ANALYSIS

		SW8270C	(SW3550B)	Analyst: JA
Anthracene	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Benzo(a)anthracene	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Benzo(a)pyrene	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Benzo(b)fluoranthene	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Benzo(g,h,i)perylene	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Benzo(k)fluoranthene	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Benzoic acid	U	2030	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Benzyl alcohol	U	810	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Bis(2-chloroethoxy)methane	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Bis(2-chloroethyl)ether	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Bis(2-chloroisopropyl)ether	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Bis(2-ethylhexyl)phthalate	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Butyl benzyl phthalate	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Carbazole	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Chrysene	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Di-n-butyl phthalate	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Di-n-octyl phthalate	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Dibenz(a,h)anthracene	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Dibenzofuran	U	2030	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Diethyl phthalate	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Dimethyl phthalate	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Fluoranthene	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Fluorene	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Hexachlorobenzene	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Hexachlorobutadiene	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Hexachlorocyclopentadiene	U	810	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Hexachloroethane	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Indeno(1,2,3-cd)pyrene	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Isophorone	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
N-Nitrosodi-n-propylamine	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
N-Nitrosodimethylamine	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
N-Nitrosodiphenylamine	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Naphthalene	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Nitrobenzene	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Pentachlorophenol	U	2030	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Phenanthrene	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Phenol	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Pyrene	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM
Pyridine	U	405	µg/Kg-dry	1 1/14/2003 5:34:00 AM

ORGANOCHLORINE PESTICIDES ANALYSIS

		SW8270C	(SW3550B)	Analyst: JA
4,4'-DDD	U	24.4	µg/Kg-dry	1 1/23/2003 2:04:00 PM
4,4'-DDE	U	42.7	µg/Kg-dry	1 1/23/2003 2:04:00 PM
4,4'-DDT	U	24.4	µg/Kg-dry	1 1/23/2003 2:04:00 PM
Alachlor	U	18.3	µg/Kg-dry	1 1/23/2003 2:04:00 PM

Prairie Analytical Systems, Inc.

Date: 29-Jan-03

CLIENT: Law Environmental & Engineering Service
 Project: McDonalds 52000-2-2681-10

Lab Order: 0301041

ORGANOCHLORINE PESTICIDES ANALYSIS		SW8270C	(SW3550B)	Analyst: JA	
Aldrin	U	24.4	µg/Kg-dry	1	1/23/2003 2:04:00 PM
alpha-BHC	U	18.3	µg/Kg-dry	1	1/23/2003 2:04:00 PM
alpha-Chlordane	U	24.4	µg/Kg-dry	1	1/23/2003 2:04:00 PM
Atrazine	U	18.3	µg/Kg-dry	1	1/23/2003 2:04:00 PM
beta-BHC	U	18.3	µg/Kg-dry	1	1/23/2003 2:04:00 PM
Chlorobenzilate	U	24.4	µg/Kg-dry	1	1/23/2003 2:04:00 PM
DGPA	U	18.3	µg/Kg-dry	1	1/23/2003 2:04:00 PM
delta-BHC	U	24.4	µg/Kg-dry	1	1/23/2003 2:04:00 PM
Dieldrin	U	36.6	µg/Kg-dry	1	1/23/2003 2:04:00 PM
Endosulfan I	U	48.8	µg/Kg-dry	1	1/23/2003 2:04:00 PM
Endosulfan II	U	30.5	µg/Kg-dry	1	1/23/2003 2:04:00 PM
Endosulfan sulfate	U	24.4	µg/Kg-dry	1	1/23/2003 2:04:00 PM
Endrin	U	42.7	µg/Kg-dry	1	1/23/2003 2:04:00 PM
Endrin aldehyde	U	36.6	µg/Kg-dry	1	1/23/2003 2:04:00 PM
Endrin ketone	U	0	µg/Kg-dry	1	1/23/2003 2:04:00 PM
gamma-BHC	U	24.4	µg/Kg-dry	1	1/23/2003 2:04:00 PM
gamma-Chlordane	U	24.4	µg/Kg-dry	1	1/23/2003 2:04:00 PM
Heptachlor	U	18.3	µg/Kg-dry	1	1/23/2003 2:04:00 PM
Heptachlor epoxide	U	24.4	µg/Kg-dry	1	1/23/2003 2:04:00 PM
Methoxychlor	U	24.4	µg/Kg-dry	1	1/23/2003 2:04:00 PM
Permethrin	U	24.4	µg/Kg-dry	1	1/23/2003 2:04:00 PM
Simazine	U	24.4	µg/Kg-dry	1	1/23/2003 2:04:00 PM
Toxaphene	U	61.0	µg/Kg-dry	1	1/23/2003 2:04:00 PM
trans-Nonachlor	U	24.4	µg/Kg-dry	1	1/23/2003 2:04:00 PM

VOLATILES ANALYSIS		SW8260B	Analyst: BP		
1,1,1,2-Tetrachloroethane	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
1,1,1-Trichloroethane	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
1,1,2,2-Tetrachloroethane	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
1,1,2-Trichloroethane	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
1,1-Dichloroethane	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
1,1-Dichloroethene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
1,1-Dichloropropene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
1,2,3-Trichlorobenzene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
1,2,3-Trichloropropane	23.4	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
1,2,4-Trichlorobenzene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
1,2,4-Trimethylbenzene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
1,2-Dibromo-3-chloropropane	U	12.2	µg/Kg-dry	1	1/22/2003 2:21:00 PM
1,2-Dibromoethane	U	12.2	µg/Kg-dry	1	1/22/2003 2:21:00 PM
1,2-Dichlorobenzene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
1,2-Dichloroethane	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
1,2-Dichloropropane	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
1,3,5-Trimethylbenzene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
1,3-Dichlorobenzene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
1,3-Dichloropropane	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM

Prairie Analytical Systems, Inc.

Date: 29-Jan-03

CLIENT: Law Environmental & Engineering Service
 Project: McDonalds 52000-2-2681-10

Lab Order: 0301041

VOLATILES ANALYSIS

SW8260B

Analyst: BP

1,4-Dichlorobenzene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
2,2-Dichloropropane	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
2-Butanone	U	12.2	µg/Kg-dry	1	1/22/2003 2:21:00 PM
2-Chloroethyl vinyl ether	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
2-Chlorotoluene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
2-Hexanone	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
4-Chlorotoluene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
4-Methyl-2-pentanone	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Acetone	U	61.1	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Acetonitrile	U	61.1	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Acrolein	U	61.1	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Acrylonitrile	U	61.1	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Benzene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Bromobenzene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Bromochloromethane	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Bromodichloromethane	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Bromoform	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Bromomethane	U	12.2	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Butylbenzene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Carbon disulfide	U	12.2	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Carbon tetrachloride	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Chlorobenzene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Chloroethane	U	12.2	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Chloroform	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Chloromethane	U	12.2	µg/Kg-dry	1	1/22/2003 2:21:00 PM
cis-1,2-Dichloroethene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
cis-1,3-Dichloropropene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Dibromochloromethane	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Dibromomethane	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Dichlorodifluoromethane	U	12.2	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Ethylbenzene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Hexachlorobutadiene	U	12.2	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Isopropylbenzene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Methyl tert-butyl ether	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Methylene chloride	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Naphthalene	U	14.7	µg/Kg-dry	1	1/22/2003 2:21:00 PM
p-Isopropyltoluene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Propylbenzene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
sec-Butylbenzene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Styrene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
tert-Butylbenzene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Tetrachloroethene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Toluene	6.25	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
trans-1,2-Dichloroethene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
trans-1,3-Dichloropropene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM

Prairie Analytical Systems, Inc.

Date: 29-Jan-03

CLIENT: Law Environmental & Engineering Service
Project: McDonalds 52000-2-2681-10

Lab Order: 0301041

VOLATILES ANALYSIS

SW8260B

Analyst: BP

Trichloroethene	U	6.11	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Trichlorofluoromethane	U	12.2	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Vinyl acetate	U	12.2	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Vinyl chloride	U	12.2	µg/Kg-dry	1	1/22/2003 2:21:00 PM
Xylenes, Total	U	18.3	µg/Kg-dry	1	1/22/2003 2:21:00 PM

POLYCHLORINATED BIPHENYLS ANALYSIS

SW8082

Analyst: SUB

Aroclor 1016	U	0.598	µg/Kg-dry	1	1/15/2003
Aroclor 1221	U	0.598	µg/Kg-dry	1	1/15/2003
Aroclor 1232	U	0.598	µg/Kg-dry	1	1/15/2003
Aroclor 1242	U	0.598	µg/Kg-dry	1	1/15/2003
Aroclor 1248	U	0.598	µg/Kg-dry	1	1/15/2003
Aroclor 1254	U	0.598	µg/Kg-dry	1	1/15/2003
Aroclor 1260	U	0.598	µg/Kg-dry	1	1/15/2003

HERBICIDES ANALYSIS

SW8151A

Analyst: SUB

2,4,5-T	U	28.0	µg/Kg-dry	1	1/15/2003
2,4,5-TP (Silvex)	U	28.0	µg/Kg-dry	1	1/15/2003
2,4-D	U	280	µg/Kg-dry	1	1/15/2003
2,4-DB	U	280	µg/Kg-dry	1	1/15/2003
Dalapon	U	558	µg/Kg-dry	1	1/15/2003
Dicamba	U	28.0	µg/Kg-dry	1	1/15/2003
Dichlorprop	U	280	µg/Kg-dry	1	1/15/2003
Dinoseb	U	139	µg/Kg-dry	1	1/15/2003
MCPA	U	5590	µg/Kg-dry	1	1/15/2003
MCPP	U	5590	µg/Kg-dry	1	1/15/2003
Pentachlorophenol	U	28.0	µg/Kg-dry	1	1/15/2003

PERCENT MOISTURE ANALYSIS

D2216

Analyst: RN

Percent Moisture	18.1	0.01	wt%	1	1/13/2003
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Prairie Analytical Systems, Inc.

Date: 29-Jan-03

CLIENT: Law Environmental & Engineering Service
Project: McDonalds 52000-2-2681-10

Lab Order: 0301041

Lab ID: 0301041-003

Collection Date: 1/9/2003

Client Sample ID: soil pile 4

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS ANALYSIS						
		E200.8		(SW3050B)		Analyst: MCL
Arsenic	10.9	2.60		mg/Kg-dry	10	1/14/2003 7:03:00 PM
Barium	55.6	2.60		mg/Kg-dry	10	1/14/2003 7:03:00 PM
Cadmium	U	2.60		mg/Kg-dry	10	1/14/2003 7:03:00 PM
Chromium	9.64	2.60		mg/Kg-dry	10	1/14/2003 7:03:00 PM
Lead	23.3	2.60		mg/Kg-dry	10	1/14/2003 7:03:00 PM
Mercury	U	0.520		mg/Kg-dry	10	1/14/2003 7:03:00 PM
Selenium	U	2.60		mg/Kg-dry	10	1/14/2003 7:03:00 PM
Silver	U	2.60		mg/Kg-dry	10	1/14/2003 7:03:00 PM
SEMIVOLATILES ANALYSIS						
		SW8270C		(SW3550B)		Analyst: JA
1,2,4-Trichlorobenzene	U	397		µg/Kg-dry	1	1/14/2003 3:13:00 AM
1,2-Dichlorobenzene	U	397		µg/Kg-dry	1	1/14/2003 3:13:00 AM
1,3-Dichlorobenzene	U	397		µg/Kg-dry	1	1/14/2003 3:13:00 AM
1,4-Dichlorobenzene	U	397		µg/Kg-dry	1	1/14/2003 3:13:00 AM
2,4,5-Trichlorophenol	U	397		µg/Kg-dry	1	1/14/2003 3:13:00 AM
2,4,6-Trichlorophenol	U	397		µg/Kg-dry	1	1/14/2003 3:13:00 AM
2,4-Dichlorophenol	U	397		µg/Kg-dry	1	1/14/2003 3:13:00 AM
2,4-Dimethylphenol	U	397		µg/Kg-dry	1	1/14/2003 3:13:00 AM
2,4-Dinitrophenol	U	1980		µg/Kg-dry	1	1/14/2003 3:13:00 AM
2,4-Dinitrotoluene	U	794		µg/Kg-dry	1	1/14/2003 3:13:00 AM
2,6-Dinitrotoluene	U	397		µg/Kg-dry	1	1/14/2003 3:13:00 AM
2-Chloronaphthalene	U	397		µg/Kg-dry	1	1/14/2003 3:13:00 AM
2-Chlorophenol	U	397		µg/Kg-dry	1	1/14/2003 3:13:00 AM
2-Methylnaphthalene	U	397		µg/Kg-dry	1	1/14/2003 3:13:00 AM
2-Methylphenol	U	397		µg/Kg-dry	1	1/14/2003 3:13:00 AM
2-Nitroaniline	U	1980		µg/Kg-dry	1	1/14/2003 3:13:00 AM
2-Nitrophenol	U	397		µg/Kg-dry	1	1/14/2003 3:13:00 AM
3 & 4-Methylphenol	U	794		µg/Kg-dry	1	1/14/2003 3:13:00 AM
3,3'-Dichlorobenzidine	U	794		µg/Kg-dry	1	1/14/2003 3:13:00 AM
3-Nitroaniline	U	1980		µg/Kg-dry	1	1/14/2003 3:13:00 AM
4,6-Dinitro-2-methylphenol	U	1980		µg/Kg-dry	1	1/14/2003 3:13:00 AM
4-Bromophenyl phenyl ether	U	397		µg/Kg-dry	1	1/14/2003 3:13:00 AM
4-Chloro-3-methylphenol	U	794		µg/Kg-dry	1	1/14/2003 3:13:00 AM
4-Chloroaniline	U	794		µg/Kg-dry	1	1/14/2003 3:13:00 AM
4-Chlorophenyl phenyl ether	U	397		µg/Kg-dry	1	1/14/2003 3:13:00 AM
4-Nitroaniline	U	794		µg/Kg-dry	1	1/14/2003 3:13:00 AM
4-Nitrophenol	U	1980		µg/Kg-dry	1	1/14/2003 3:13:00 AM
Acenaphthene	U	397		µg/Kg-dry	1	1/14/2003 3:13:00 AM
Acenaphthylene	U	397		µg/Kg-dry	1	1/14/2003 3:13:00 AM
Aniline	U	397		µg/Kg-dry	1	1/14/2003 3:13:00 AM

Prairie Analytical Systems, Inc.

Date: 29-Jan-03

CLIENT: Law Environmental & Engineering Service
Project: McDonalds 52000-2-2681-10

Lab Order: 0301041

SEMIVOLATILES ANALYSIS

		SW8270C	(SW3550B)	Analyst: JA
Anthracene	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Benzo(a)anthracene	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Benzo(a)pyrene	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Benzo(b)fluoranthene	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Benzo(g,h,i)perylene	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Benzo(k)fluoranthene	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Benzoic acid	U	1980	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Benzyl alcohol	U	794	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Bis(2-chloroethoxy)methane	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Bis(2-chloroethyl)ether	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Bis(2-chloroisopropyl)ether	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Bis(2-ethylhexyl)phthalate	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Butyl benzyl phthalate	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Carbazole	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Chrysene	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Di-n-butyl phthalate	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Di-n-octyl phthalate	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Dibenz(a,h)anthracene	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Dibenzofuran	U	1980	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Diethyl phthalate	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Dimethyl phthalate	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Fluoranthene	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Fluorene	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Hexachlorobenzene	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Hexachlorobutadiene	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Hexachlorocyclopentadiene	U	794	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Hexachloroethane	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Indeno(1,2,3-cd)pyrene	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Isophorone	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
N-Nitrosodi-n-propylamine	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
N-Nitrosodimethylamine	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
N-Nitrosodiphenylamine	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Naphthalene	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Nitrobenzene	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Pentachlorophenol	U	1980	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Phenanthrene	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Phenol	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Pyrene	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM
Pyridine	U	397	µg/Kg-dry	1 1/14/2003 3:13:00 AM

ORGANOCHLORINE PESTICIDES ANALYSIS

		SW8270C	(SW3550B)	Analyst: JA
4,4'-DDD	U	23.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM
4,4'-DDE	U	41.6	µg/Kg-dry	1 1/23/2003 3:15:00 PM
4,4'-DDT	U	23.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM
Alachlor	U	17.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM

Prairie Analytical Systems, Inc.

Date: 29-Jan-03

CLIENT: Law Environmental & Engineering Service
 Project: McDonalds 52000-2-2681-10

Lab Order: 0301041

ORGANOCHLORINE PESTICIDES ANALYSIS		SW8270C	(SW3550B)	Analyst: JA
Aldrin	U	23.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM
alpha-BHC	U	17.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM
alpha-Chlordane	U	23.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM
Atrazine	U	17.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM
beta-BHC	U	17.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM
Chlorobenzilate	U	23.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM
DCPA	U	17.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM
delta-BHC	U	23.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM
Dieldrin	U	35.6	µg/Kg-dry	1 1/23/2003 3:15:00 PM
Endosulfan I	U	47.5	µg/Kg-dry	1 1/23/2003 3:15:00 PM
Endosulfan II	U	29.7	µg/Kg-dry	1 1/23/2003 3:15:00 PM
Endosulfan sulfate	U	23.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM
Endrin	U	41.6	µg/Kg-dry	1 1/23/2003 3:15:00 PM
Endrin aldehyde	U	35.6	µg/Kg-dry	1 1/23/2003 3:15:00 PM
Endrin ketone	U	0	µg/Kg-dry	1 1/23/2003 3:15:00 PM
gamma-BHC	U	23.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM
gamma-Chlordane	U	23.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM
Heptachlor	U	17.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM
Heptachlor epoxide	U	23.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM
Methoxychlor	U	23.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM
Permethrin	U	23.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM
Simazine	U	23.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM
Toxaphene	U	59.4	µg/Kg-dry	1 1/23/2003 3:15:00 PM
trans-Nonachlor	U	23.8	µg/Kg-dry	1 1/23/2003 3:15:00 PM

VOLATILES ANALYSIS		SW8260B	Analyst: BP
1,1,1,2-Tetrachloroethane	U	5.98	µg/Kg-dry 1 1/22/2003 1:47:00 PM
1,1,1-Trichloroethane	U	5.98	µg/Kg-dry 1 1/22/2003 1:47:00 PM
1,1,2,2-Tetrachloroethane	U	5.98	µg/Kg-dry 1 1/22/2003 1:47:00 PM
1,1,2-Trichloroethane	U	5.98	µg/Kg-dry 1 1/22/2003 1:47:00 PM
1,1-Dichloroethane	U	5.98	µg/Kg-dry 1 1/22/2003 1:47:00 PM
1,1-Dichloroethene	U	5.98	µg/Kg-dry 1 1/22/2003 1:47:00 PM
1,1-Dichloropropene	U	5.98	µg/Kg-dry 1 1/22/2003 1:47:00 PM
1,2,3-Trichlorobenzene	U	5.98	µg/Kg-dry 1 1/22/2003 1:47:00 PM
1,2,3-Trichloropropane	U	5.98	µg/Kg-dry 1 1/22/2003 1:47:00 PM
1,2,4-Trichlorobenzene	U	5.98	µg/Kg-dry 1 1/22/2003 1:47:00 PM
1,2,4-Trimethylbenzene	U	5.98	µg/Kg-dry 1 1/22/2003 1:47:00 PM
1,2-Dibromo-3-chloropropane	U	12.0	µg/Kg-dry 1 1/22/2003 1:47:00 PM
1,2-Dibromoethane	U	12.0	µg/Kg-dry 1 1/22/2003 1:47:00 PM
1,2-Dichlorobenzene	U	5.98	µg/Kg-dry 1 1/22/2003 1:47:00 PM
1,2-Dichloroethane	U	5.98	µg/Kg-dry 1 1/22/2003 1:47:00 PM
1,2-Dichloropropane	U	5.98	µg/Kg-dry 1 1/22/2003 1:47:00 PM
1,3,5-Trimethylbenzene	U	5.98	µg/Kg-dry 1 1/22/2003 1:47:00 PM
1,3-Dichlorobenzene	U	5.98	µg/Kg-dry 1 1/22/2003 1:47:00 PM
1,3-Dichloropropane	U	5.98	µg/Kg-dry 1 1/22/2003 1:47:00 PM

Prairie Analytical Systems, Inc.

Date: 29-Jan-03

CLIENT: Law Environmental & Engineering Service
Project: McDonalds 52000-2-2681-10

Lab Order: 0301041

VOLATILES ANALYSIS

SW8260B

Analyst: BP

1,4-Dichlorobenzene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
2,2-Dichloropropane	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
2-Butanone	U	12.0	µg/Kg-dry	1	1/22/2003 1:47:00 PM
2-Chloroethyl vinyl ether	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
2-Chlorotoluene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
2-Hexanone	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
4-Chlorotoluene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
4-Methyl-2-pentanone	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Acetone	U	59.8	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Acetonitrile	U	59.8	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Acrolein	U	59.8	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Acrylonitrile	U	59.8	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Benzene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Bromobenzene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Bromochloromethane	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Bromodichloromethane	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Bromoform	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Bromomethane	U	12.0	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Butylbenzene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Carbon disulfide	U	12.0	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Carbon tetrachloride	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Chlorobenzene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Chloroethane	U	12.0	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Chloroform	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Chloromethane	U	12.0	µg/Kg-dry	1	1/22/2003 1:47:00 PM
cis-1,2-Dichloroethene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
cis-1,3-Dichloropropene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Dibromochloromethane	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Dibromomethane	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Dichlorodifluoromethane	U	12.0	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Ethylbenzene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Hexachlorobutadiene	U	12.0	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Isopropylbenzene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Methyl tert-butyl ether	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Methylene chloride	8.83	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Naphthalene	U	14.4	µg/Kg-dry	1	1/22/2003 1:47:00 PM
p-Isopropyltoluene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Propylbenzene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
sec-Butylbenzene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Styrene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
tert-Butylbenzene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Tetrachloroethene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Toluene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
trans-1,2-Dichloroethene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
trans-1,3-Dichloropropene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM

Prairie Analytical Systems, Inc.

Date: 29-Jan-03

CLIENT: Law Environmental & Engineering Service
Project: McDonalds 52000-2-2681-10

Lab Order: 0301041

VOLATILES ANALYSIS

SW8260B

Analyst: BP

Trichloroethene	U	5.98	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Trichlorofluoromethane	U	12.0	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Vinyl acetate	U	12.0	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Vinyl chloride	U	12.0	µg/Kg-dry	1	1/22/2003 1:47:00 PM
Xylenes, Total	U	17.9	µg/Kg-dry	1	1/22/2003 1:47:00 PM

POLYCHLORINATED BIPHENYLS ANALYSIS

SW8082

Analyst: SUB

Aroclor 1016	U	0.598	µg/Kg-dry	1	1/23/2003
Aroclor 1221	U	0.598	µg/Kg-dry	1	1/23/2003
Aroclor 1232	U	0.598	µg/Kg-dry	1	1/23/2003
Aroclor 1242	U	0.598	µg/Kg-dry	1	1/23/2003
Aroclor 1248	U	0.598	µg/Kg-dry	1	1/23/2003
Aroclor 1254	U	0.598	µg/Kg-dry	1	1/23/2003
Aroclor 1260	U	0.598	µg/Kg-dry	1	1/23/2003

HERBICIDES ANALYSIS

SW8151A

Analyst: SUB

2,4,5-T	U	20.0	µg/Kg-dry	1	1/23/2003
2,4,5-TP (Silvex)	U	20.0	µg/Kg-dry	1	1/23/2003
2,4-D	U	200	µg/Kg-dry	1	1/23/2003
2,4-DB	U	200	µg/Kg-dry	1	1/23/2003
Dalapon	U	398	µg/Kg-dry	1	1/23/2003
Dicamba	U	20.0	µg/Kg-dry	1	1/23/2003
Dichlorprop	U	200	µg/Kg-dry	1	1/23/2003
Dinoseb	U	99.6	µg/Kg-dry	1	1/23/2003
MCPA	U	3980	µg/Kg-dry	1	1/23/2003
MCPP	U	3980	µg/Kg-dry	1	1/23/2003
Pentachlorophenol	U	20.0	µg/Kg-dry	1	1/23/2003

Prairie Analytical Systems, Inc.

Qualifiers:

- B - Analyte detected in the associated method blank.
- E - Value above quantitation range.
- H - Analysis performed past holding time.
- HT - Sample received past holding time.
- J - Analyte detected between RL and MDL.
- R - RPD outside acceptance limits.
- S - Spike recovery outside acceptance limits.
- U - Analyte not detected (i.e. less than RL or MDL).

APPENDIX C
Letter from Village of Oak Brook



**Village of
Oak Brook**

1200 Oak Brook Road
Oak Brook, IL 60523-2255

Website
www.oak-brook.org

Administration
630.990.3000
FAX 630.990.0876

**Community
Development**
630.990.3045
FAX 630.990.3985

**Engineering
Department**
630.990.3010
FAX 630.990.3985

Fire Department
630.990.3040
FAX 630.990.2392

Police Department
630.990.2358
FAX 630.990.7484

**Public Works
Department**
630.990.3044
FAX 630.472.0223

**Oak Brook
Public Library**

1112 Oak Brook Road
Oak Brook, IL 60523-4623
630.990.2222
FAX 630.990.0170

Oak Brook Sports Core

Bath & Tennis Club
700 Oak Brook Road
Oak Brook, IL 60523-4600
630.990.3020
FAX 630.990.1002

Golf Club
2606 York Road
Oak Brook, IL 60523-4602
630.990.3032
FAX 630.990.0245

November 22, 2002

Mr. Ed Sagan
McDonald's Corporation
2915 Jorie Boulevard
Oak Brook, IL 60523

RE: Oak Brook Sled Hill Dirt Pile

Dear Ed:

This letter will confirm that, to the best of my knowledge, the soil within the Oak Brook sled hill dirt pile by the Library does not contain any contaminants. The soil is a temporary stockpile of the excavation for the Library when it was built about 2 years ago and for the recent Village Hall Expansion.

If I can be of further service, please call.

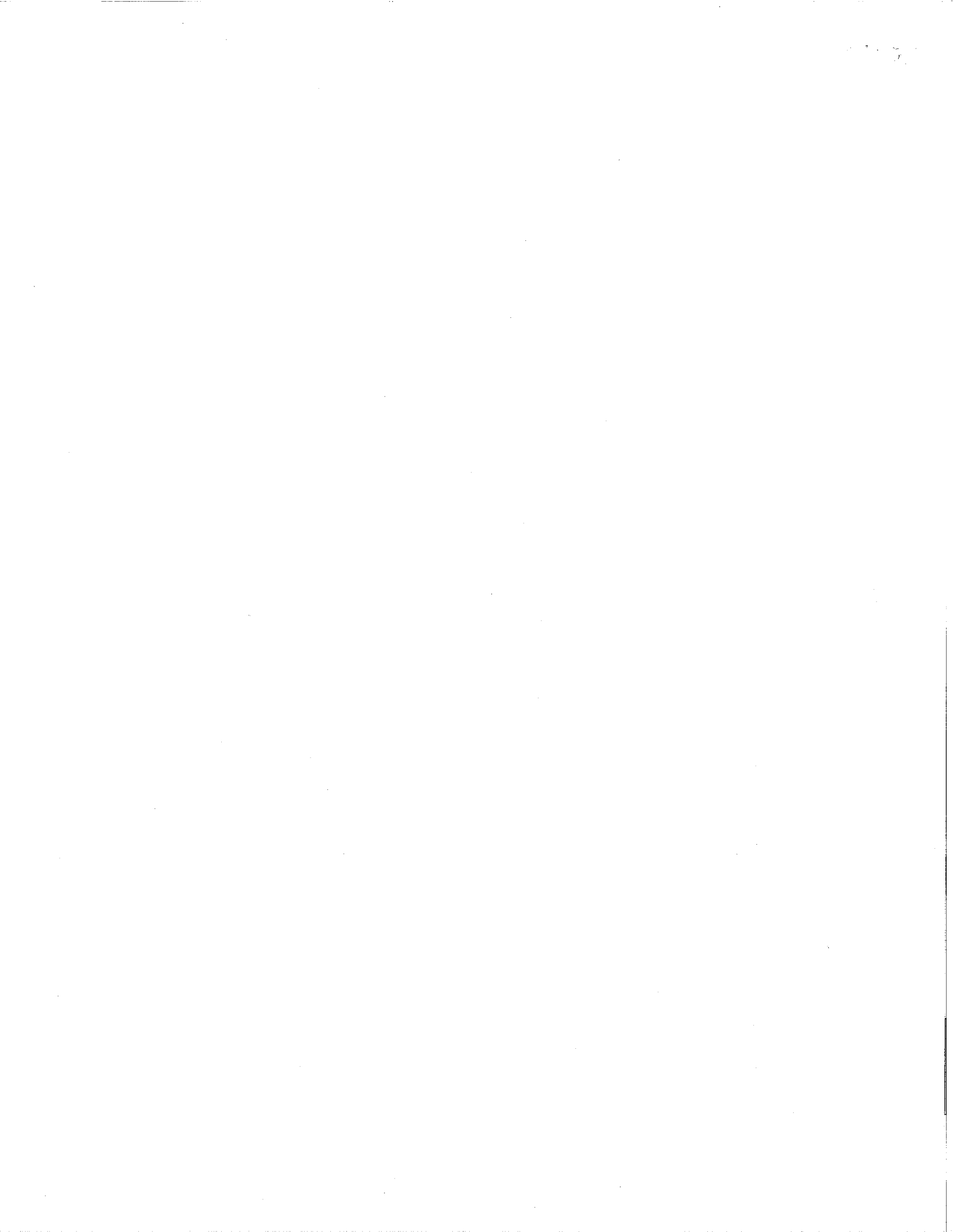
Sincerely,

Dale L. Durfey, Jr., P.E.,
Village Engineer

DLD/etk

cc: Michael A. Crotty, Acting Village Manager

sagan sled hill





May 20, 2003

Illinois Environmental Protection Agency
Bureau of Land - #24
LUST Claims Unit
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Attention: Mr. Douglas E. Oakley

Subject: **Claims for Reimbursement under LUST Fund**
LPC #0434705070 – DuPage County
McDonald's Corporation
1120 West 22nd Street, Oak Brook, Illinois
IEPA Incident Nos. 902922 & 952344
MACTEC Project No. 52000-2-2681-08

Dear Mr. Oakley::

Reference is made to the two Illinois Environmental Protection Agency (IEPA)'s letters, both dated May 12, 2003 addressed to McDonald's Corporation (McDonald's) regarding McDonald's requests for reimbursement of corrective action costs from the Illinois Underground Storage Tank Fund for the above-referenced facility. In the Agency's letter, \$1,234.19 associated with furnishing and installing limestone for the property and \$31,965.00 associated with compaction of fill material and transportation of CA-1 crushed stone, were deducted from the costs of reimbursement.

Based on the telephone conversations between Ms. Carmen Yung of Mactec Engineering and Consulting of Georgia, Inc., (MACTEC) and Ms. Lieura Hackman of the IEPA on May 15, 2003 and between Ms. Carmen Yung and Ms. Valerie Davis of the IEPA on May 16, 2003, MACTEC is submitting the following information for your consideration:

\$1,234.19 and \$450 – Cost for Furnishing and Installing Limestone for the Property (R.W. Collins Invoices #113255)

Crushed stone was used to provide temporary paving over the entrance and exit ways of the subject property and the Village of Oak Brook's soil pile located at 31st Street in Oak Brook to facilitate

MACTEC Engineering and Consulting, Inc.
1200 Jorie Blvd., Suite 230 • Oak Brook, IL 60523
630-571-2162 • Fax 630-571-0439

EXHIBIT 5

movement of trucks during excavation and transportation of contaminated soil and backfill soil. The crushed stone was later used as backfill material for part of the excavated areas (to provide support to the asphalt driveway). Since it was used as backfill material, the cost for transportation and placing of the limestone at the Village of Oak Brook's soil pile should be eligible for reimbursement.

\$31,515 – Cost for Compaction

The Village of Oak Brook's soil pile located at 31st Street in Oak Brook was loaded to trucks and transported to and placed at the subject property as backfill material (which was described in R.W. Collin's invoices as "Load clay fill at source pile, haul to 22nd St., place and compact with sheepsfoot roller").

The backfill soils, after being placed in the excavations were rolled over by a sheepsfoot roller a few times in order to prevent voids and severe settlement. The "compaction" performed at the site was part of the soil placement process and should not be treated as compaction according to the industry standard (which would require slower placement in thin lifts, in-place density testing and higher costs). Therefore, we feel that the above cost should be eligible for reimbursement.

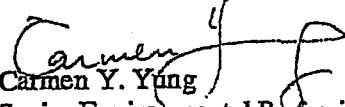
Moreover, the cost of using the Village of Oak Brook's soil pile as backfill material including loading, transportation and placement at \$15.00 per cubic yard is substantially lower than the cost of using crushed stone at \$18.00 per cubic yard. In total, McDonald's has saved more than \$50,000 by using the Village of Oak Brook's soil instead of crushed stone. Also, by using the Village of Oak Brook's soil, McDonald's has helped the Village of Oak Brook to dispose of their unwanted soil and turned it into use. McDonald's should not be penalized by employing cost saving and environmental conservation methods in site remediation when McDonald's could have obtained full reimbursement if crushed stone was used as backfill material.


It is therefore requested that the above costs be included for reimbursement.

Should you have any questions regarding this submittal or require any additional information, please feel free to contact Ms. Carmen Yung at 630-328-0420.

Sincerely,

MACTEC Engineering and Consulting of Georgia, Inc.


Carmen Y. Yung
Senior Environmental Professional


Brian M. Devine, P.E.
Principal

Cc: Den Koide, McDonald's



Page 2

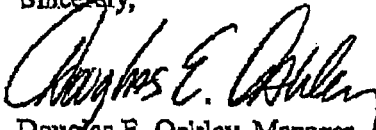
Dorothy Gunn, Clerk
Illinois Pollution Control Board
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, Illinois 60601
312/814-3620

For information regarding the filing of an extension, please contact:

Illinois Environmental Protection Agency
Division of Legal Counsel
1021 North Grand Avenue East
Springfield, Illinois 62794-9276
217/782-5544

If you have any questions, please contact Lieura Hackman or myself at 217/782-6762.

Sincerely,



Douglas E. Oakley, Manager
LUST Claims Unit
Planning & Reporting Section
Bureau of Land

DEO:LH:ct\031987.doc

cc: MATEC Engineering & Consulting, Inc.

Attachment A
Accounting Deductions

Re: LPC #0434705070 -- DuPage County
Oak Brook/McDonald's Corporation
1120 West 22nd Street
LUST Incident No. 902922
LUST FISCAL FILE

Item # Description of Deductions

1. \$31,515.00, deduction in costs that the owner/operator failed to demonstrate were reasonable (Section 22.18b(d)(4)(C) of the Environmental Protection Act).

A deduction in the amount of \$7,680.00 was made on the R.W. Collins invoice numbered 1132324 for the ineligible costs for compaction.

A deduction in the amount of \$2,025.00 was made on the R.W. Collins invoice numbered 113255 for the ineligible costs for compaction.

A deduction in the amount of \$21,810.00 was made on the R.W. Collins invoice numbered #113293 for the ineligible costs for compaction.

LH:ct031988.doc

