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SUBSURFACE ENVIRONMENTAL INVESTIGATION REPORT WILOW GLENN GOLF COURSE NS GREAT LAKES IL

2/1/2003

C.H. GUERNSEY & COMPANY

576

SUBSURFACE ENVIRONMENTAL INVESTIGATION REPORT

Willow Glen Golf Course
Naval Training Center Great Lakes
Rt. 137 Great Lakes, IL
Engineering Field Activity, Midwest

CHG Project No. OK07573016-0434

Prepared by:

C. H. GUERNSEY & COMPANY

Carey B. Miller, CPG, CES, CEM
Senior Project Manager/Environmental Geologist
Illinois Licensed Professional Geologist No. 196-000172

February 2003

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February 2003

CERTIFICATION PAGE

Willow Glen Golf Course
Naval Training Center
Rt. 137 Great Lakes, IL
Engineering Field Activity, Midwest

CHG Project No. OK07573016-0434

I certify under penalty of law that I am a Geologist experienced in hydrogeologic investigations. The investigation described in this report was performed by a Geologist experienced in hydrogeologic investigations. The information submitted herein, to the best of my knowledge and belief, is true, accurate, and complete. I am aware that there are significant penalties for submitting false information.

Carey B. Miller, CPG, CES, CEM, CPG
Illinois Licensed Professional Geologist No. 196-000172

02/12/03
Date

EXECUTIVE SUMMARY

C.H. Guernsey & Company (GUERNSEY) was tasked, by the Engineering Field Activity, Midwest (EFAMW), to perform a subsurface environmental investigation at the Willow Glen Golf Course located at the Naval Training Center, Great Lakes, IL (Site). This investigation was to consist of the installation of 22 soil bores (SBs) in order to locate possible underlying landfill material.

On February 6 and 7, 2003, GUERNSEY personnel, in association with Mid-America Drilling Services, Inc., installed 22 SBs (SB-43 through SB-62) at predetermined locations on the Site utilizing geoprobe technology. Each SB penetrated to a depth of approximately four feet below the ground surface.

Of the 22 SBs installed during this investigation, eight encountered landfill material. The landfill material varied in depth from 0.25 feet to 4 feet below the ground surface. The landfill material encountered in the SBs consisted of an assortment of black cinders, wood, concrete, gravel, and clay.

Per Navy instructions, soil samples were not obtained for headspace analysis or laboratory analysis.

Based on the current grading plans and information contained within this report, some areas of proposed cuts will require alteration to comply with the Navy's direction that no cuts are to be made where landfill is present. Of the eight cuts, only one requires no alternation. Detailed recommendations are provided in Section 5.0 of this report. It is recommended that prior to performing any additional excavation activities not covered in this report, a more detailed investigation be conducted in the proposed excavation areas.

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1.0 INTRODUCTION

1.1 SCOPE AND PURPOSE

C.H. Guernsey & Company (GUERNSEY) was tasked, by the Engineering Field Activity, Midwest (EFAMW), to perform a subsurface environmental investigation at the Willow Glen Golf Course (Site) located at the Naval Training Center, Great Lakes, IL (NTC). A copy of the Scope of Services is provided in Appendix A. This investigation consisted of the installation of 22 soil bores (SBs) in order to locate possible underlying landfill material in areas of proposed cuts outside known landfill extents.

This report describes the installation of the SBs, provides findings from the field activities, and provides recommendations based on the findings.

1.2 SITE LOCATION AND DESCRIPTION

The Site is the current location of the Willow Glen Golf Course and is located approximately ½ mile east of Rt. 41 on Buckley Road, Great Lakes, Illinois (Figure 1).

2.0 FIELD ACTIVITIES

2.1 SOIL BORING LOCATIONS

The locations of the SBs are in areas where construction activities and/or proposed cuts may penetrate into underlying landfill material. Due to the number and location of soil bores that detected landfill material in a previous subsurface investigation, it was determined that the known extent of the landfill may not be correct. The grading plans for the redesign of the back-nine holes depicts cuts outside the known landfill extent in the general area of the driving range and Holes #10 and #18. For the purpose of discussion and recommendation within this report, GUERNSEY has assigned each cut a designation of 'Cut-A' through 'Cut-H.'

In accordance with the January 28, 2003 request for proposal, GUERSNEY provided a recommendation for an additional 22 SBs to investigate these areas. The number and location of the SBs were agreed upon by the Navy and are depicted on the Site Map (Figure 2). GUERNSEY personnel utilized the Soil Boring Installation Plan and the Location Map to field-spot the boring locations on February 6, 2003. A copy of the Soil Boring Installation Plan is provided in Appendix B. A photographic log of field activities is presented in Appendix C.

2.2 INSTALLATION OF SOIL BORES

Prior to field activities, the Navy Technical Representative (NTR) coordinated with the Navy Public Works Center (PWC) to locate underground utilities in the general vicinity of the soil bores. The site was cleared for drilling at 0900 on Friday, February 7, 2003.

On February 7, 2003, GUERNSEY personnel, in association with Mid-America Drilling Services, Inc., installed 22 SBs (SB-43 through SB-62) at predetermined locations on the Site utilizing geoprobe technology (Appendix C, Photograph 1). Each SB penetrated to a depth of approximately four feet below the ground surface. The on-site geologist supervised the soil bore installation activities and prepared a Soil Bore Log for each of the 22 soil bores. The logs depict the soil type; thickness of the soil units; depth to ground water (if encountered); and type of landfill material encountered (if any). Per direction from the NTR, any soil removed from the soil bores during the installation activities, was returned to the boreholes.

The locations of the SBs are depicted on Figure 2. The Soil Bore Logs are provided in Appendix D.

2.3 COLLECTION OF SOIL SAMPLES

Per Navy direction, no samples were obtained for headspace analysis or laboratory analysis.

3.0 FINDINGS

3.1 SOIL SAMPLES

Of the 22 SBs installed during this investigation, 8 encountered landfill material. Figure 2, Site Map, depicts the soil bore locations where landfill materials were identified. Additionally, the soil bore logs in Appendix D provide information about the type and depth of landfill materials encountered at each soil bore location. The landfill material varied in depth from 0.25 feet to 4 feet below the ground surface. The landfill material encountered in the SBs consisted of an assortment of black cinders, concrete, gravel, and clay and was similar in nature to those materials encountered during previous SB activities at the Site. Photographs of some soil samples and landfill materials are contained in Appendix C.

4.0 CONCLUSIONS

Based on the information contained within this report, GUERNSEY concludes the following:

- Of the 22 SBs installed during this investigation, 8 encountered waste, debris, and/or other material congruent with those identified in the previous investigation. The landfill material generally contained less and fewer types of debris than samples obtained during the January 2003 subsurface investigation. Other non-debris landfill materials present in the SBs were similar if not identical in nature to the landfill materials previously encountered at the Site. Therefore, GUERNSEY concludes that the materials identified in this investigation provide evidence that the extent of the landfill is greater than previously delineated. The SBs exhibiting landfill materials were distributed throughout the general sampling area.
- The landfill material varied in depth from 0.25 feet to 4 feet below the ground surface.
- The landfill material encountered in the SBs consisted of an assortment of black cinders, wood, concrete, gravel, and clay.

5.0 RECOMMENDATIONS

GUERNSEY has analyzed the grading plans for Willow Glen Golf Course in conjunction with the information contained within this report. Figure 2 depicts the proposed cuts and the depth to landfill material, where encountered. The NTC Environmental Department has directed that no cuts should be made in areas with underlying landfill material. Based upon theses conditions, GUERNSEY provides the following recommendations for the areas of proposed cuts at the Site:

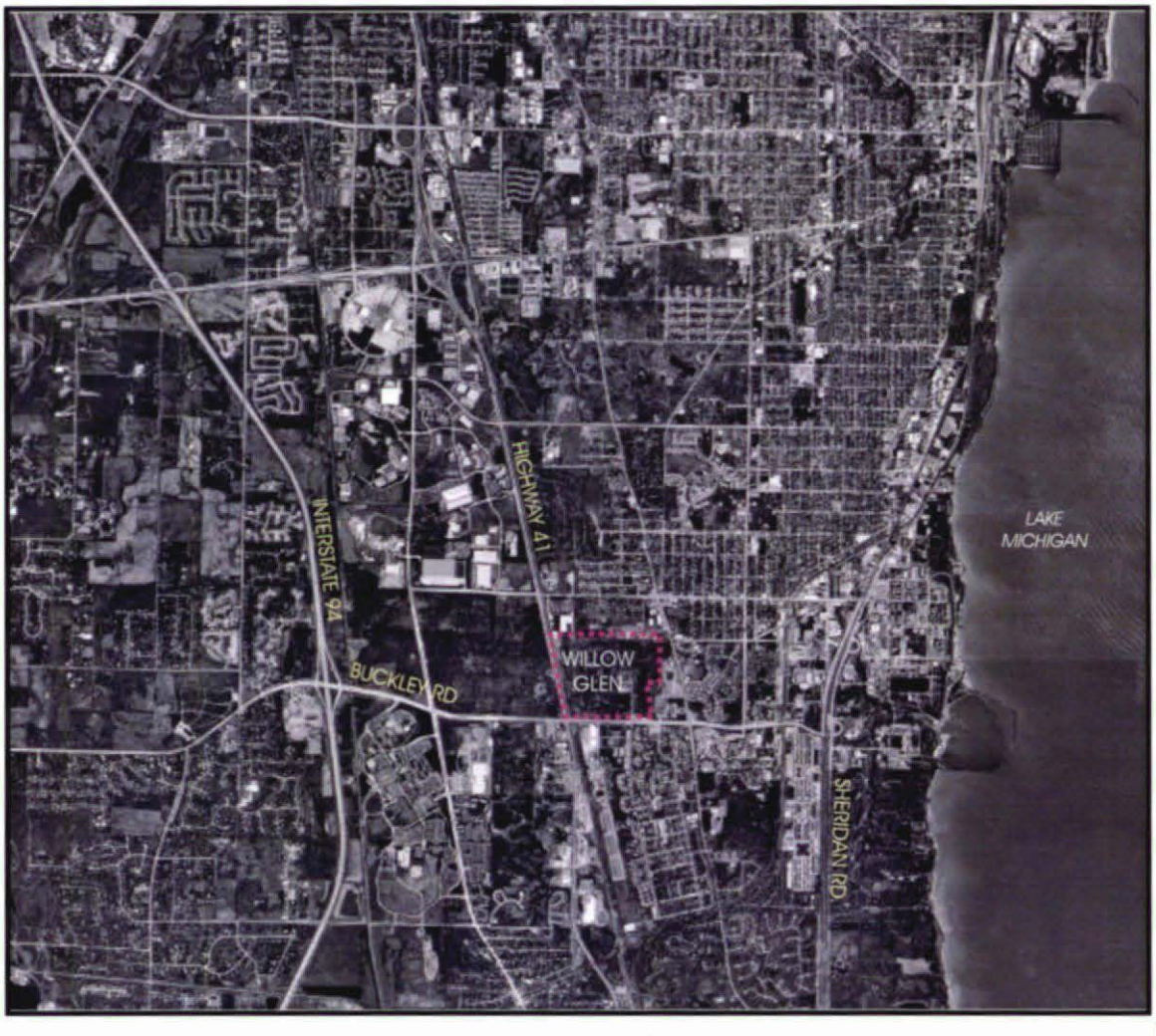
- Cut A – The point at which the proposed 102-foot contour connects with the existing 102-foot contour should be revised so that SB-45 is outside the area of excavation.
- Cut B – No landfill was encountered in this area, therefore, the current design does not present any concern.
- Cut C – The proposed 103-foot and 104-foot contour lines should be revised so that SB-51 is outside the area of excavation.
- Cut D – The proposed cuts in this area cannot be made due to the presence of landfill material at SB-53 and SB-52. The contours in this area should be revised to maintain the existing grade or provide fill only.
- Cut E – The proposed cut cannot be made in this area due to the presence of landfill material in SB-50. Any changes in this area should be restricted to fill only.
- Cut F – The current grading plans require adjustment to avoid any excavation at SB-57. The proposed 102-foot contour line should be revised so that SB-57 is outside the area of excavation.
- Cut G – The current grading plans require adjustment to avoid any excavation at SB-60. The proposed 102-foot contour line should be revised so that SB-60 is outside the area of excavation.
- Cut H – The current plans require adjustment to avoid any excavation at SB-63. The proposed 103-foot and 104-foot contour lines should be revised so that SB-63 is outside the area of excavation.

If at any time during the project it is determined that additional excavation is required, GUERNSEY recommends that additional subsurface investigations be conducted in the proposed excavation areas.

FIGURES

ILLINOIS STATE MAP

LOCAL AREA MAP



WILLOW GLEN GOLF COURSE & VICINITY

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ALL MAPS

C.H. GUERNSEY & COMPANY
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5555 North Grand Boulevard
Oklahoma City, OK 73112-5507
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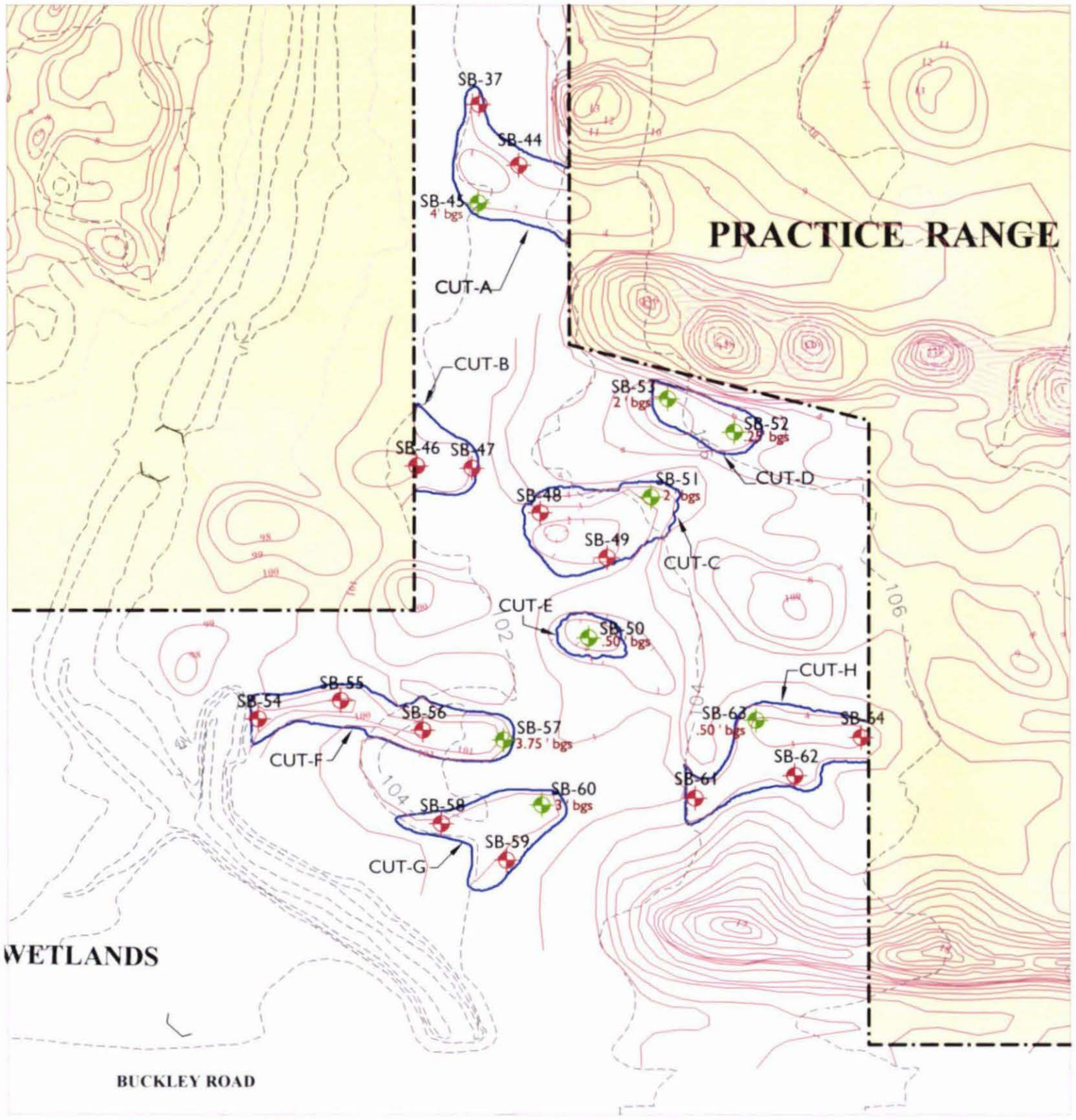
GUERNSEY

SITE LOCATION MAP

WILLOW GLEN GOLF COURSE ENVIRONMENTAL INVESTIGATIONS
NAVAL TRAINING CENTER, GREAT LAKES, ILLINOIS

PREPARED BY	JLH
APPROVED BY	KS
DATE	FEBRUARY 2003
JOB NO	0K07573016

FIGURE
1



LEGEND

- EXISTING CONTOUR (2' INTERVAL)
- PROPOSED CONTOUR
- CUT-D — GENERAL AREA OF PROPOSED CUT
- SB-57 — SOIL BORE LOCATION (LANDFILL MATERIAL ENCOUNTERED)
- SB-62 — SOIL BORE LOCATION (NO LANDFILL ENCOUNTERED)
- 2 ' bgs — DEPTH TO LANDFILL MATERIAL-BELOW GROUND SURFACE (bgs)
- KNOWN LANDFILL EXTENTS (DAMES & MOORE, 1991)

GRAPHIC SCALE

100 0 50 100 200

(IN FEET)
1 inch = 100 ft.

NORTH

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405-416-8100 www.chguernsey.com
GUERNSEY

SITE MAP

WILLOW GLEN GOLF COURSE ENVIRONMENTAL INVESTIGATIONS
NAVAL TRAINING CENTER, GREAT LAKES, ILLINOIS

DRAWN BY: JLH
APPROVED BY: CBM
DATE: FEBRUARY 17, 2003
JOB NO: 060757305-0434

FIGURE 2

Mon 17 Feb 2003 - 8:46am
I:\OK\757\soil bores\Grading Plans_1.5\preplaces_phase_

APPENDIX A

SCOPE OF SERVICES

SCOPE OF SERVICES

Environmental Investigations
Willow Glen Golf Course
Naval Training Center, Great Lakes, IL

January 29, 2003

Pursuant to the Scope of Work and a conference call on January 28, 2003, C.H. Guernsey & Company (GUERNSEY) is pleased to provide this scope of services and cost estimate (Proposal) for the modification to contract N68950-99-D-0186/Delivery Order 0016 Modification 03. This Proposal is in response to the Request for Proposal to conduct soil borings in a continuing effort to identify potential subsurface landfill materials at the Willow Glen Golf Course Site (Project Site).

SCOPE OF WORK

GUERNSEY has been tasked to analyze the final grading plans for the modifications to the back nine holes at the Project Site to identify areas of cuts outside the landfill extents. As requested, this proposal identifies those areas and provides a recommendation for the installation of additional soil bores. With the identification of landfill materials in GUERNSEY's recent sampling activities, it has been suggested that areas outside but in close proximity to the known landfill limits be sampled as well.

Figure 1 depicts GUERNSEY's recommendations on the locations of soil bores. Cuts are represented on the final grading plans in three major areas. These areas include Hole 10, Hole 18, and the western edge of the driving range. The cuts identified on the grading plans are for the purposes of improved drainage in these areas of the Project Site. Once the Navy has approved the soil boring locations and a Notice to Proceed has been issued, GUERNSEY will commence sampling activities. As specified in the RFP and barring unforeseen weather conditions, results from the soil borings will be provided to the Navy within 10 days of contract adjudication. ***GUERNSEY shall not be held responsible for delays incurred due to unforeseen weather or site conditions.***

Utilizing a 2" vehicle-mounted geoprobe, GUERNSEY will conduct soil borings at the Willow Glen Golf Course at the approved locations. A Boring Plan and Location Map will be generated prior to any sampling activities for the Project. Upon approval of the Boring Plan and Location Map, GUERNSEY will commence with field-spotting and sampling activities.

GUERNSEY will utilize a local drilling company to perform the soil borings at the Project Site. Well logs will be generated at each sampling location. No headspace analyses will be performed for this project. No samples will be taken of environmental media for the purposes of laboratory analysis; however, if requested GUERNSEY may provide the Navy Technical Representative (NTR) with samples of any encountered landfill media.

A GUERNSEY technical professional will analyze the Boring Plan and Location Map and field-spot the boring locations at the Project Site utilizing a global positioning system (GPS) instrument. Upon completion of field-spotting activities, borehole installation will begin. For the purposes of this proposal, it has been assumed that all 22 boreholes will be installed in one workday. This figure is largely dependant on weather, site conditions, subsurface conditions, efficiency of fieldwork associated with each hole, and the reliability of the drill rig.

GUERNSEY has identified specific tasks required to complete this project. These tasks have been discussed briefly above. The following provides more detail associated with each task. ***It should be noted on accompanying spreadsheets that airfare and 8 hours total travel time have been included in the costs for Task 2. Per Diem and vehicle expenses have been separated between Task 2 and Task 3.***

- **Task 1: Revise Boring Plan and Location Map**

As with previous fieldwork, a Boring Plan should be prepared detailing the proposed Project activities. The Boring Plan will discuss methodologies, quality assurance/quality control (QA/QC) techniques, soil bore locations, and other pertinent information. A detailed map will be included in the Boring Plan.

The Boring Plan will be submitted electronically to the NTR for review and concurrence with the proposed technical approach.

- **Task 2: Conduct Field Survey to Spot Sampling Locations**

Prior to activities at the Project Site, the Boring Plan and Location Map will be utilized to determine reference points on the existing Project Site. Once reference points have been determined, coordinates will then be identified for each proposed sampling location. A global positioning system (GPS) device will be used in the field to aid in the accurate identification of proposed sample locations on the Project Site. ***A GUERNSEY representative will utilize up to one full day to locate and flag each sampling location identified in the Boring Plan.***

- **Task 3: Conduct Sampling**

As discussed previously, all borings will be performed using a vehicle-mounted 2" diameter geoprobe. GUERNSEY will provide a geologist on-site to identify strata, observe and note groundwater conditions if encountered, and oversee all soil boring activities. For the purposes of this proposal it has been assumed that the Navy will approve 22 borings to assess the presence of landfill material in the general location of Hole 10, Hole 18, and the Driving Range. Borings will be made as noted on Figure 1 unless field conditions require slight deviations. This approach should provide knowledge of the nature and extent of underlying material in the general area of the proposed cuts. GUERNSEY will conduct borings to either a depth of 4 feet, or a depth of 2 feet below projected cuts, whichever is greater. Should underlying geology and/or

landfill materials prove too dense for the geoprobe at any one sample location, sample locations may need to be adjusted in the field.

Boring logs will be generated to depict soil type and thickness encountered at each boring location. Any soil removed during borehole installation will be returned to the boreholes once fieldwork has been completed. The Navy shall provide GUERNSEY with a means for proper disposal of sampling sleeves and other waste materials generated during borehole installation. ***GUERNSEY has included one and one half days of labor and one full day of geoprobe time for soil borings.***

We, GUERNSEY, reserve the right to add costs if necessary in association with a possible extension of the project due to weather or other unexpected conditions beyond our control. Should additional days be required, such costs would include labor and expenses for the GUERNSEY representative on site, as well as additional daily geoprobe costs. Should any such circumstance arise or be foreseen, GUERNSEY will notify the Navy immediately.

- **Task 4: Generate Summary Report**

GUERNSEY will compile the information gathered from the field and from bore logs and prepare a Summary Report. Text, tables, figures, and appendices necessary to convey the findings of the Project will be developed. The Summary Report will generally be presented as follows:

  - Executive Summary
  - Introduction
  - Site Description
  - Study Methodology
  - Findings
  - Conclusions and Recommendations
  - Appendices (laboratory data, photographs, field notes, etc.)

Upon completion, GUERNSEY will submit six copies of the Summary Report. Should additional copies of the Summary Report be necessary, such efforts will be considered out-of-scope.

- **Task 5: Participate in Teleconferences**

GUERNSEY will participate in teleconferences, as necessary, to discuss the results of fieldwork, conclusions of the Summary Reports, and provide recommendations to the Navy for the Project Site. This task includes hours incurred by GUERNSEY environmental personnel during the January 28, 2003 conference call, and anticipated hours for future teleconferences regarding this sampling effort.

APPENDIX B

SOIL BORING INSTALLATION PLAN

SOIL BORING INSTALLATION PLAN
PHASE 2 SOIL BORES

For:

Willow Glen Golf Course
Great Lakes Naval Training Center
Great Lakes, IL

Prepared by:

C.H. GUERNSEY & COMPANY
5555 North Grand Boulevard
Oklahoma City, OK 73112-5507
(405) 416-8100

January 2003

SOIL BORING INSTALLATION PLAN

Willow Glen Golf Course
Great Lakes Naval Training Center, IL

INDTRODUCTION

C.H. Guernsey & Company (GUERNSEY) has been tasked, by the Engineering Field Activity, Midwest (EFAMW), to perform a additional subsurface environmental investigation at the Willow Glen Golf Course located at the Naval Training Center, Great Lakes, IL (Site). This investigation will consist of the installation of 22 soil bores in order to confirm that underlying soils in areas of proposed cuts are devoid of landfill material. Figure 1 depicts the location of the Site. Figure 2 depicts the locations of the soil bores.

METHODOLOGY

SOIL BORING LOCATIONS

The locations of the soil bores are in areas where construction activities and/or proposed cuts are outside of known land fill limits. Based on the results of prior soil bore activities, the known extents of the landfill have come into question. The soil bore locations are in the general area of drainage improvements to Hole #10, Hole #18, and the area immediately west of the driving range. The soil bore locations have been predetermined and are depicted on the Location Map. GUERNSEY personnel will analyze the Soil Boring Installation Plan and the Location Map to field-spot the boring locations. Upon completion of the field-spotting activities, soil bore installation activities will begin. ***It is the responsibility of the Navy to located and mark, any and all utility lines and/or other obstacles that may hinder the installation activities prior to the arrival of GUERNSEY personnel.***

SOIL BORE INSTALATION

Twenty-two soil bores will be installed at predetermined locations on the Site utilizing geoprobe technology. Each soil bore will penetrate to a maximum depth of four feet below the ground surface. In the event the underlying geology and/or landfill material prove too dense for the geoprobe at any one-sample location, the geoprobe unit will be moved a short distance and a replacement boring will be installed.

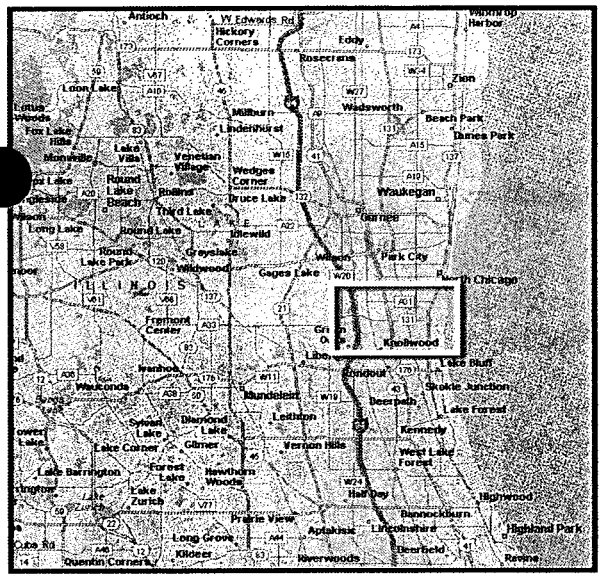
The on-site geologist will supervise the soil bore installation activities and prepare a soil bore log for each of the 22 soil bores. The logs will depict the soil type; thickness of the soil units; depth to ground water (if encountered); and a description of landfill material encountered (if any).

Per Navy instructions, any soil removed during from the soil bores during the installation activities will be returned to the boreholes. Navy will provide GUERNSEY

personnel with a means for proper disposal of waste generated during soil bore installation activities. *No samples will be taken for analytical purposes during field activities.*

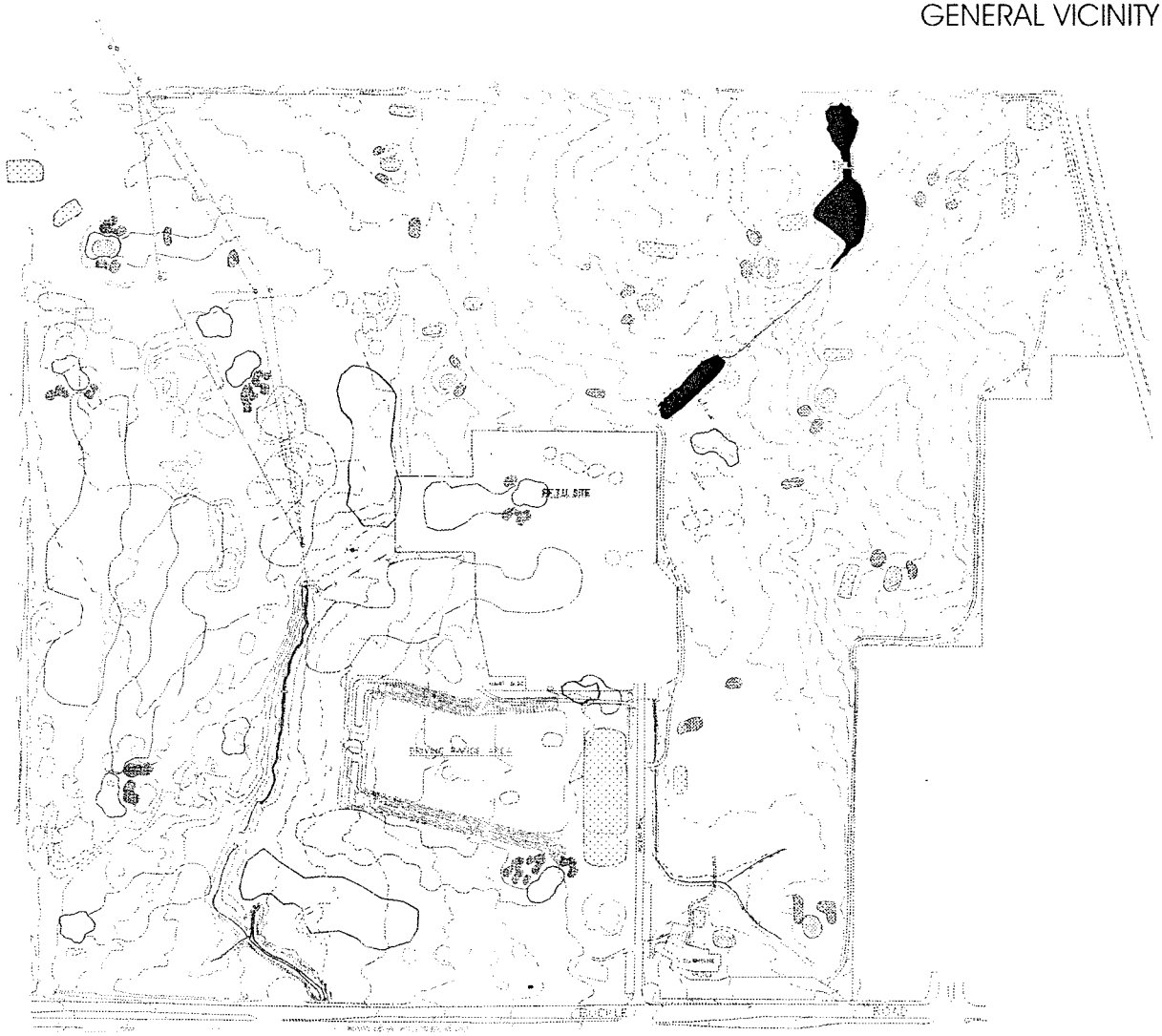
SUMMARY REPORT

GUERNSEY will compile the information gathered from the field activities and prepare a Summary Report. This report will include an executive summary, introduction, site description, study methodology, findings, conclusions and recommendations, and associated appendices (laboratory data, photographs, etc.)



LOCAL AREA MAP

GENERAL VICINITY MAP



NOT TO SCALE

WILLOW GLEN GOLF COURSE SITE MAP

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Oklahoma City, OK 73112-5507
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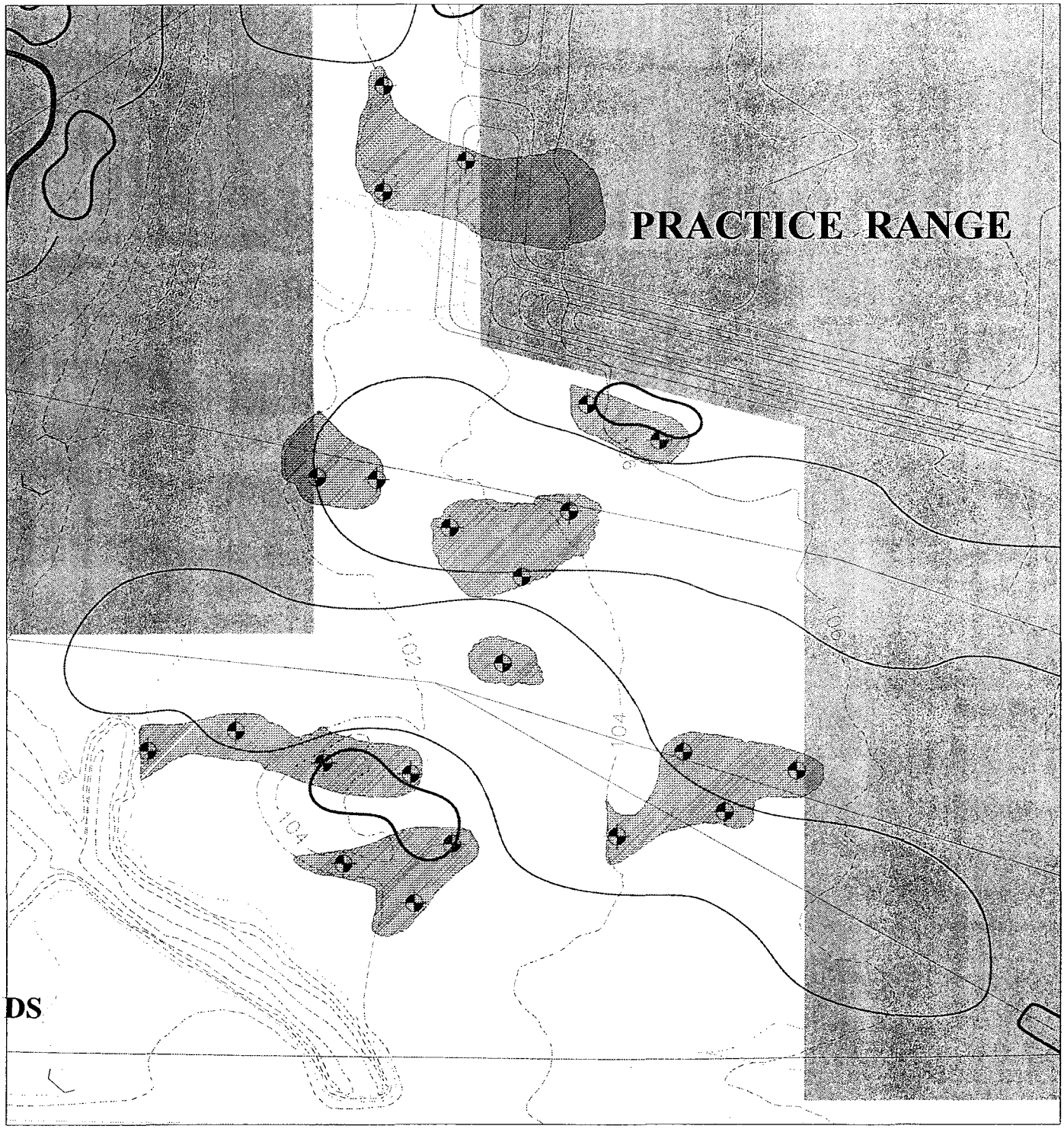
SITE LOCATION MAP

WILLOW GLEN GOLF COURSE
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED BY: JH
APPROVED BY: CM
DATE: JANUARY 2, 2003
JOB NO: OK07573016

FIGURE
1



SCALE: 1" = 100'

LEGEND

- PROPOSED SOIL BORE LOCATION
- APPROXIMATE AREA OF CUT
- LANDFILL

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Oklahoma City, OK 73112-5507
405-416-8100
GUERNSEY

PROPOSED SOIL BORE LOCATIONS

WILLOW GLEN GOLF COURSE
NAVAL TRAINING CENTER GREAT LAKES, IL

PREPARED BY: JLH
APPROVED BY: CBM
DATE: JANUARY 29, 2003
JOB NO: OK07573016

FIGURE
2

APPENDIX C

PHOTOGRAPHS

Photo 1: Geoprobe rig

Photo 2: Soil Bore 52

Photo 3: Soil Bore 60

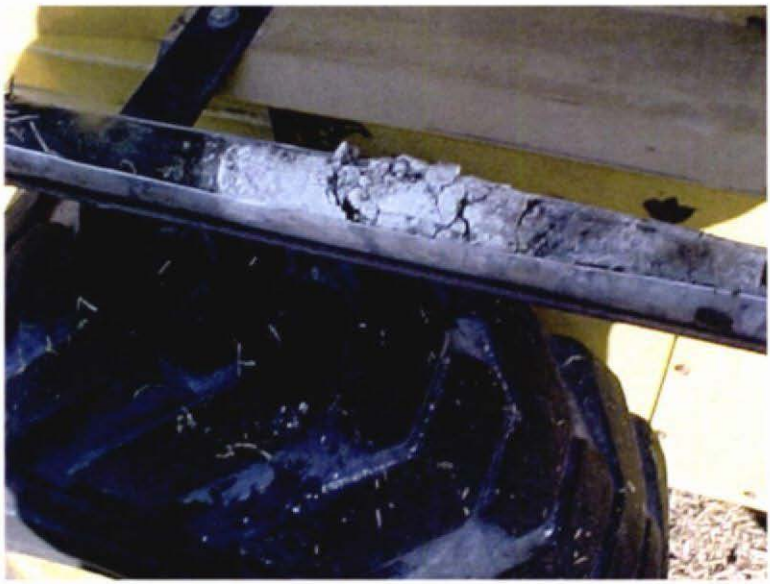


Photo 4: Soil Bore 63

APPENDIX D

SOIL BORING LOGS

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-1**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Black to dark gray color, frozen LANDFILL MATERIAL: Clay, black to dark gray color, some small gravel, moist, no odor			0		0

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-2**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, some small gravel, moist, frozen					0
		GC	CLAY AND SAND: Dark brown color, large gravel, no odor					
			LANDFILL MATERIAL: Clay, black to dark brown color, dry, loose, no odor, clay at 4 ft					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-3**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		GC	CLAY: Dark brown to yellow brown color, some small gravel, moist, no odor					0

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-4**

TOTAL DEPTH:-3

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, frozen					0
		GC	CLAY: Dark brown to yellow brown color			0		
			LANDFILL MATERIAL: Black cinder, wood material, sample collected for lab					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-5**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	⧖ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, frozen to 6 inches					0
		GC	CLAY: Yellow to brown color, some small gravel, moist, lean, no odor					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-6**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

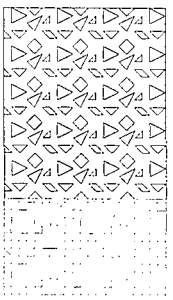
DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, frozen to 6 inches					0
		GC	CLAY AND SAND: Dark brown to yellow brown color, small to large gravel, dry, no odor					
			LANDFILL MATERIAL: Black cinders, no odor					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-7**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		GW	GRAVEL: Yellow brown color, medium to large gravel, some silty clay					0
			LANDFILL MATERIAL: Black color, cinders, dry, no odor					
		GC	CLAY: Dark brown to yellow color, moist, lean, no odor, some wood fragments at 4 ft					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-8**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen					0
		GC	CLAY: Yellow brown color, lean, moist, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-9**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		GC	CLAY: Yellow brown color, moist, lean, no odor					0
			LANDFILL MATERIAL: Black color, cinders, some gravel, very moist, no odor					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-10**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen					0
		GC	CLAY: Yellow brown color, moist, lean, small to large gravel					
			LANDFILL MATERIAL: Yellow brown color clay, black cinders, moist, no odor					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-11**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Silty clay loam, frozen					0
		GC	CLAY: Yellow brown color, moist, lean, small to large gravel, no odor					
			LANDFILL MATERIAL: Black cinders, clay black, broken glass, paper, and some wood fragments					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-12**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown, silty clay loam, frozen					0
		GC	CLAY: Yellow brown color, lean, moist, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-13**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen to .5 ft, small to large gravel					0
		GC	CLAY: Yellow brown color, lean, moist, no odor					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-14**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, some small gravel					0
		GC	CLAY: Yellow brown color, lean, moist, no odor					
			LANDFILL MATERIAL: Black cinders, some clay, small gravel, dry, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-15**

TOTAL DEPTH:-3

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Silty clay loam, frozen LANDFILL MATERIAL: Black cinders, some small gravel, some clay, broken glass and bricks, no odor, sample taken					0

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-16**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay, frozen					0
		GC	CLAY: Yellow brown color, lean, some small gravel, moist					
			LANDFILL MATERIAL: Black cinders, some clay, some small to large gravel, bricks at 3 ft					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-17**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen LANDFILL MATERIAL: Black cinders, saturated at 2.5 ft, broken glass at 3.5 ft					0

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-18**

TOTAL DEPTH:**-3.5**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC GC	TOPSOIL CLAY: Yellow brown color, lean, some small gravel, moist LANDFILL MATERIAL: Black cinders, some clay, dry, broken glass and bricks at 3 ft					0

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-19**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen					0
		GC	CLAY: Yellow brown color, lean, some small gravel, moist					
			LANDFILL MATERIAL: Black cinders, very moist					
		GC	CLAY: Yellow brown to gray color, lean, moist, no odor					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-20**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen					0
		GC	CLAY: Yellow brown color, lean, moist, no odor					
			LANDFILL MATERIAL: Black cinders, broken glass, moist, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-21**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen					0
		GC	CLAY: Yellow brown color, lean, moist					
			LANDFILL MATERIAL: Black to rust color cinders, broken glass, no odor					
		GC	CLAY: Yellow brown color, lean moist, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-22**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		GC	CLAY: Yellow brown color, lean, moist, no odor					0
			LANDFILL MATERIAL: Black cinders, dry, no odor, rocks, concrete, wire nails, sample taken					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-23**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown, silty clay loam, frozen					0
		GC	CLAY: Yellow brown color, some small to large gravel, lean, no odor			0.1		
			LANDFILL MATERIAL: Black cinders, broken glass					
		GC	CLAY: Yellow brown color, lean, moist, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-24**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown, silty clay loam, frozen					0
		GC	CLAY: Yellow brown color, some small gravel, lean, moist, no odor					
		GC	CLAY: Black color, some small to medium gravel, moist					
			LANDFILL MATERIAL: Black cinders, brick, broken glass, dry					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-25**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown, silty clay loam, frozen					0
		GC	CLAY: Yellow brown color, lean, moist, no odor					
			LANDFILL MATERIAL: Black cinders, some clay, small to large gravel, dry, no odor					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-26**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown, silty clay loam, frozen					0
		GC	CLAY: Yellow brown color, small to large gravel, lean, moist, no odor					
		GC	CLAY: Black color, moist, lean, no odor					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-27**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC GC	TOPSOIL CLAY: Yellow brown color, some small gravel, lean, moist, no odor LANDFILL MATERIAL: Black cinders, clay, some gravel, pieces of metal at 4 ft					0

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-28**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SW	SAND: Medium to large grain sand, sand trap					0
		GC	CLAY: Yellow brown color, lean, some small gravel, no odor					
			LANDFILL MATERIAL: Black cinders, very moist to saturated at 4 ft, some small to medium gravel, sample collected					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-29**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		GC	CLAY: Dark brown color, silty clay loam, moist, lean, no odor					0
			LANDFILL MATERIAL: Black cinders, very moist to saturated			0		

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-30**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown, clay loam, lean, moist, frozen to .5 ft					0
		GC	CLAY: Yellow brown color, lean, moist, some small gravel, no odor					
			LANDFILL MATERIAL: Black cinders, fiberboard, metal, very moist, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-31**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen, no odor					0
		GC	CLAY: Yellow brown color, lean, moist, some small to large gravel					
			LANDFILL MATERIAL: Black cinders, saturated, small to large gravel					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-32**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/14/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL					0
		GC	CLAY: Yellow brown color, lean, moist, no odor					
			LANDFILL MATERIAL: Black cinders, clay, very moist, no odor					
		GC	CLAY: Yellow brown color, lean, moist, some small to medium gravel, no odor					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-33**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/15/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL					0
		GC	CLAY: Yellow brown color,moist, lean, no odor, some small gravel					
		GC	CLAY AND SAND: Yellow brown color, moist, lean, no odor, some small gravel			0.1		

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-34**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/15/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen to 6 inches, moist					0
		GC	CLAY: Yellow brown color, lean, moist, some small to large gravel, no odor					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-35**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/15/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen to 6 inches, moist					0
		GC	CLAY: Yellow brown color, lean, moist, some small to large gravel, no odor					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-36**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/15/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen to 6 inches, moist					0
		GC	CLAY: Yellow brown color, lean, moist, some small to large gravel, no odor					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-37**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/15/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen to 6 inches, moist					0
		GC	CLAY: Yellow brown color, lean, moist, some small to large gravel, no odor					
		GC	CLAY AND SILT: Black color, loose, dry, no odor, possible fill material					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-38**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/15/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen to 6 inches, moist					0
			LANDFILL MATERIAL: Black cinders, dry, no odor					
		GC	CLAY: Yellow brown color, lean, moist, some small to large gravel, no odor			0		

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-39**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/15/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC GC	TOPSOIL CLAY: Yellow brown color, lean, moist, no odor, some small to large gravel					0

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-40**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/15/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen to 6 inches					0
		GC	CLAY: Yellow brown color, lean, moist, no odor, some small to large gravel					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-41**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/15/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam,					0
		GC	CLAY: Yellow brown color, lean, moist, no odor, some small to large gravel					
		GC	CLAY: Dark brown to black color, large quantities of small to large gravel, broken glass, sample collected					

SOIL BORE/MONITORING WELL LOG

BOREHOLE NO.: **SB-42**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Jack Zilz**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **1/15/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen to 6 inches					0
		GC	CLAY: Yellow brown color, lean, moist, some small to large gravel, no odor					
		GC	LANDFILL MATERIAL: Clay, yellow brown to black color, some small to large gravel, plastic, cloth, wood fragments, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-43**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, moist					0
		GC	CLAY: Yellow brown color, moist, lean, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-44**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, no odor					0
		GC	CLAY: Yellow brown color, moist, lean, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-45**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown, silty clay loam, no odor					0
		GC	CLAY: Yellow brown color, moist, lean, no odor					
			LANDFILL MATERIAL: Black cinders to sandy clay, small to large gravel, no odor					
			CLAY: Yellow brown color, moist, lean, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-46**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen, no odor					0
		GC	CLAY: Yellow brown color, lean, moist, no odor, some gravel, mud at 2 ft					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-47**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen, no odor					0
		GC	CLAY: Yellow brown color, lean, moist, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-48**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen, no odor					0
		GC	CLAY: Yellow brown color, lean, moist, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-49**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen, no odor					0
		GC	CLAY: Yellow brown color, moist, lean, no odor					
		GC	CLAY AND SAND: Yellow brown color, saturated, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-50**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen, no odor					0
			LANDFILL MATERIAL: Clay and black cinders, frozen, no odor, lean					
		GC	CLAY: Yellow brown color, moist, lean, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-51**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen, no odor					0
		GC	CLAY: Yellow brown color, lean, moist, some small gravel					
			LANDFILL MATERIAL: Black clay, lean, moist, no odor, possible landfill material					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-52**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, LANDFILL MATERIAL: Dark brown to black clay, some gravel, possible landfill material					0
		GC	CLAY: Yellow brown color, lean, moist, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-53**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen, no odor					0
		GC	CLAY: Dark brown color, lean, moist, some small gravel, no odor					
			LANDFILL MATERIAL: Black clay, lean, moist, no odor, possible landfill material					
		GC	CLAY: Yellow brown color, moist, lean, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-54**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen, no odor					0
		GC	CLAY: Yellow brown color, lean, moist, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-55**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS:**Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen, no odor					0
		GC	CLAY: Yellow brown color, lean, moist, some small gravel, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-56**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen, no odor					0
		GC	CLAY: Yellow brown color, lean, moist, some small to large gravel, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-57**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen, no odor					0
		GC	CLAY: Yellow brown color, lean, moist, some small gravel, no odor					
			LANDFILL MATERIAL: Black clay, lean, moist,					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-58**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		GC	CLAY: Dark brown to black color, lean, moist, no odor, frozen to 1.5 ft					0
		GC	CLAY: Yellow brown color, lean, moist, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-59**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen					0
		GC	CLAY: Yellow brown color, lean, moist, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-60**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen					0
		GC	CLAY: Yellow brown color, lean, moist, no odor					
			LANDFILL MATERIAL: Black clay, cinders, some wood					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-61**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, some medium gravel, frozen					0
		GC	CLAY: Yellow brown color, lean, moist, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-62**

TOTAL DEPTH:**-4**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

Page 1 of 1

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, some small to medium gravel, frozen					0
		GC	CLAY: Yellow brown color, lean, moist, some small gravel, no odor					

SOIL BORE/MONITORING WELL LOG

GUERNSEY

BOREHOLE NO.: **SB-63**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen					0
			LANDFILL MATERIAL: Tan to white color, small to large gravel, possible concrete.					
		GC	CLAY: Yellow brown color, lean, moist, no odor					

SOIL BORE/MONITORING WELL LOG

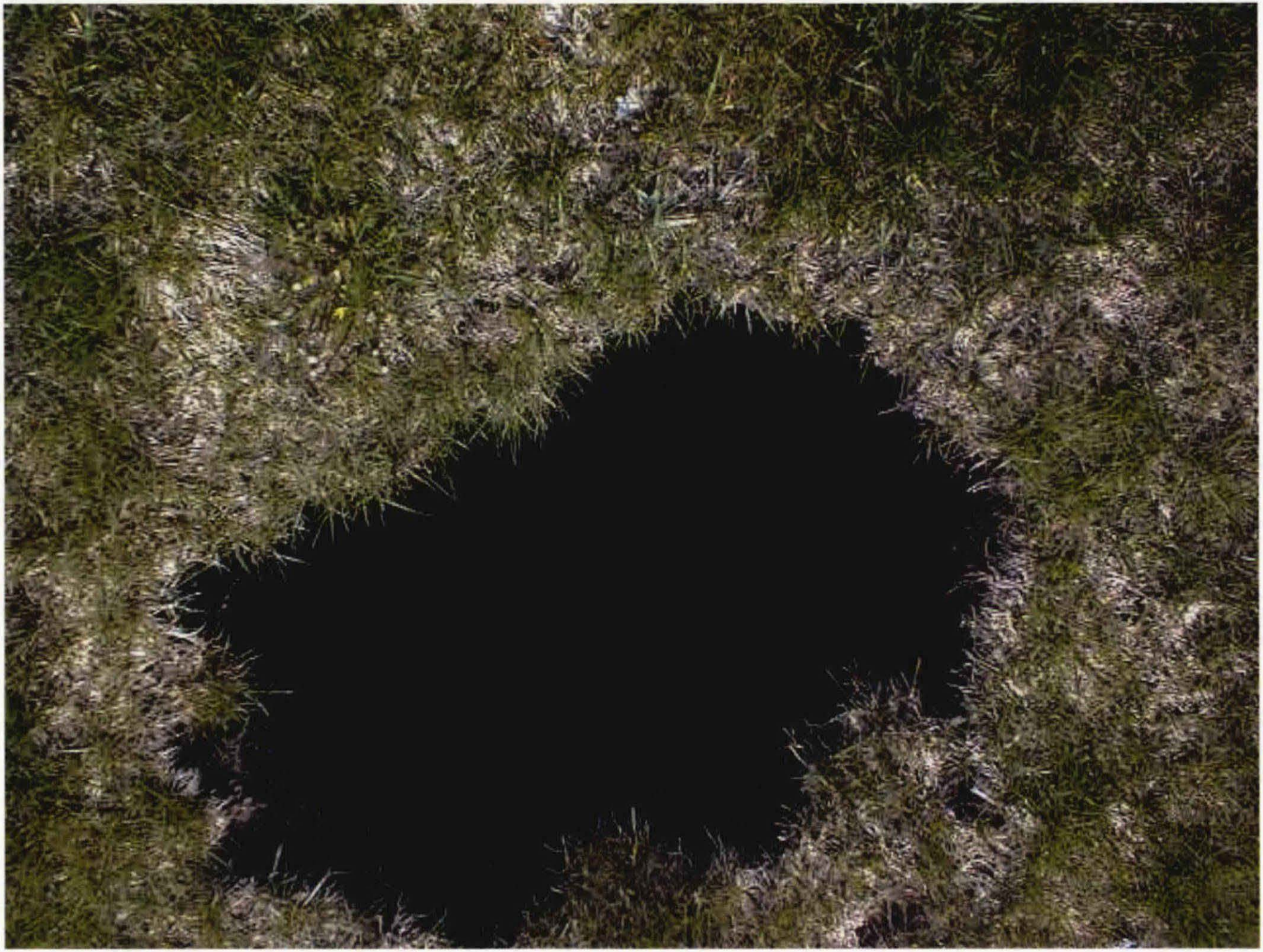
GUERNSEY

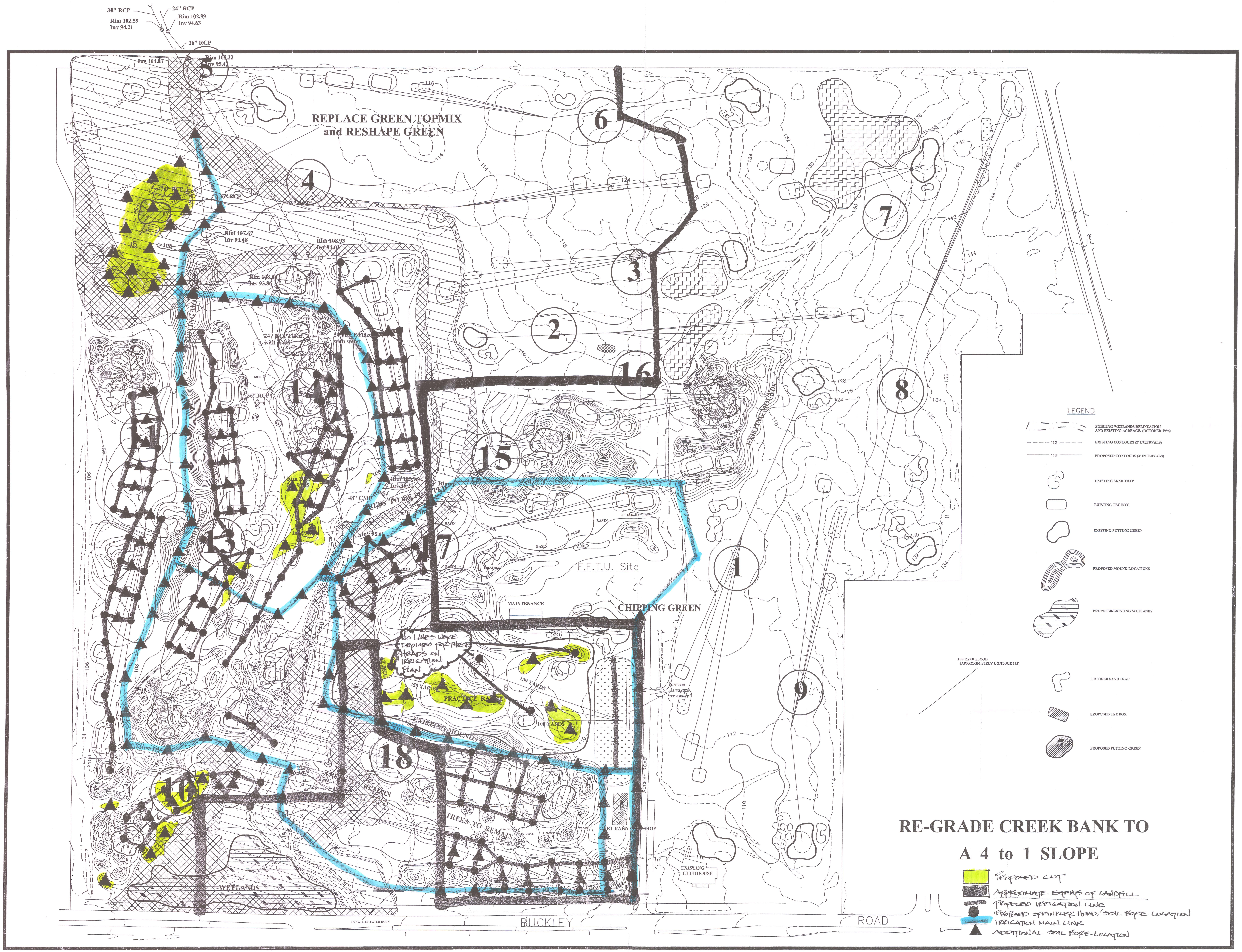
BOREHOLE NO.: **SB-64**

TOTAL DEPTH:-4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Willow Glen Golf Course**	DRILLING CO.: **Mid-America**
SITE LOCATION: **GLNTC, IL**	DRILLER: **Brian Lunardon**
JOB NO.: **OK07573016-0434**	RIG TYPE: **Geoprobe**
LOGGED BY: **Carey Miller and Angela Riddles**	METHOD OF DRILLING: **Direct Push**
PROJECT MANAGER: **Jimmie Hammontree**	SAMPLING METHODS: **Direct Push**
DATES DRILLED: **2/7/03**	HAMMER WT./DROP **Geoprobe**
NOTES:	▽ Water level during drilling ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMP. #	Blows / ft.	PID ppm	WELL COMPLETION	WELL DESCRIPTION
0		SC	TOPSOIL: Dark brown color, silty clay loam, frozen					0
		GC	CLAY: Yellow brown color, lean, moist, some small to large gravel, no odor					





Willow Glen Golf Course

GRADING PLANS

DRAWING NUMBER
5382090

SCALE: 1" = 100'

DRAWN: FEBRUARY 8, 2002

REVISED: NOVEMBER 10, 20

SHEET:
3 OF 17

APPENDIX E

LABORATORY REPORT

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

23 January 2003

Carey Miller
Guernsey
5555 N. Grand Blvd.
Oklahoma City, OK 73112
RE: Willow Glen Golf Course

Enclosed are the results of analyses for samples received by the laboratory on 01/15/03. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Great Lakes Analytical

Andy Johnson
Project Manager

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

rnsey	Project: Willow Glen Golf Course	
3555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-4	B301154-01	Soil	01/14/03 09:30	01/15/03 10:17
SB-15	B301154-02	Soil	01/14/03 10:55	01/15/03 10:17
SB-22	B301154-03	Soil	01/14/03 12:22	01/15/03 10:17
SB-28	B301154-04	Soil	01/14/03 13:50	01/15/03 10:17
SB-41	B301154-05	Soil	01/15/03 09:17	01/15/03 10:17

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Andy Johnson

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL
1380 Busch Parkway
Buffalo Grove, Illinois 60089
Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

ɔrnsey	Project: Willow Glen Golf Course	
..555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Total Metals by EPA 6000/7000 Series Methods

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 (B301154-01) Soil Sampled: 01/14/03 09:30 Received: 01/15/03 10:17									
Mercury	**0.0569**	0.0482	mg/kg dry	1	3010359	01/22/03	01/22/03	EPA 7471A	QC
Arsenic	ND	2.41	"	"	3010338	01/21/03	01/22/03	EPA 6010B	QC
Barium	**166**	30.1	"	"	"	"	"	"	QC
Cadmium	ND	0.603	"	"	"	"	"	"	
Chromium	**10.8**	0.603	"	"	"	"	"	"	
Lead	**17.4**	1.21	"	"	"	"	"	"	
Selenium	ND	3.01	"	"	"	"	"	"	QC
Silver	ND	3.01	"	"	"	"	"	"	
SB-15 (B301154-02) Soil Sampled: 01/14/03 10:55 Received: 01/15/03 10:17									
Mercury	**0.695**	0.268	mg/kg dry	6	3010359	01/22/03	01/22/03	EPA 7471A	QC
Arsenic	ND	2.23	"	1	3010338	01/21/03	01/22/03	EPA 6010B	QC
Barium	**223**	27.9	"	"	"	"	"	"	QC
Cadmium	ND	0.559	"	"	"	"	"	"	
Chromium	**15.0**	0.559	"	"	"	"	"	"	
Lead	**358**	1.12	"	"	"	"	"	"	
nium	ND	2.79	"	"	"	"	"	"	QC
ver	ND	2.79	"	"	"	"	"	"	
SB-22 (B301154-03) Soil Sampled: 01/14/03 12:22 Received: 01/15/03 10:17									
Mercury	**0.0770**	0.0537	mg/kg dry	1	3010359	01/22/03	01/22/03	EPA 7471A	QC
Arsenic	**4.30**	2.68	"	"	3010338	01/21/03	01/22/03	EPA 6010B	QC
Barium	**47.0**	33.5	"	"	"	"	"	"	QC
Cadmium	ND	0.671	"	"	"	"	"	"	
Chromium	**8.79**	0.671	"	"	"	"	"	"	
Lead	**33.8**	1.34	"	"	"	"	"	"	
Selenium	ND	3.35	"	"	"	"	"	"	QC
Silver	ND	3.35	"	"	"	"	"	"	

reat Lakes Analytical--Buffalo Grove

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Andy Johnson

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL
1380 Busch Parkway
Buffalo Grove, Illinois 60089
Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

ɔrnsey	Project: Willow Glen Golf Course	
ɔ055 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Total Metals by EPA 6000/7000 Series Methods

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-28 (B301154-04) Soil	**Sampled: 01/14/03 13:50**	**Received: 01/15/03 10:17**							
Mercury	**0.415**	0.0859	mg/kg dry	1	3010359	01/22/03	01/22/03	EPA 7471A	QC
Arsenic	ND	4.30	"	"	3010338	01/21/03	01/22/03	EPA 6010B	QC
Barium	**64.5**	53.7	"	"	"	"	"	"	QC
Cadmium	ND	1.07	"	"	"	"	"	"	
Chromium	**16.2**	1.07	"	"	"	"	"	"	
Lead	**19.9**	2.15	"	"	"	"	"	"	
Selenium	ND	5.37	"	"	"	"	"	"	QC
Silver	ND	5.37	"	"	"	"	"	"	
SB-41 (B301154-05) Soil	**Sampled: 01/15/03 09:17**	**Received: 01/15/03 10:17**							
Mercury	**0.0539**	0.0476	mg/kg dry	1	3010359	01/22/03	01/22/03	EPA 7471A	QC
Arsenic	ND	2.38	"	"	3010338	01/21/03	01/22/03	EPA 6010B	QC
Barium	**55.7**	29.7	"	"	"	"	"	"	QC
Cadmium	ND	0.594	"	"	"	"	"	"	
Chromium	**9.93**	0.594	"	"	"	"	"	"	
Lead	**14.5**	1.19	"	"	"	"	"	"	
ɛnium	ND	2.97	"	"	"	"	"	"	QC
ver	ND	2.97	"	"	"	"	"	"	

reat Lakes Analytical--Buffalo Grove

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Andy Johnson

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL
1380 Busch Parkway
Buffalo Grove, Illinois 60089
Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

ɛrnsey	Project: Willow Glen Golf Course	
5555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Volatile Organic Compounds by EPA Method 5035/8260B

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 (B301154-01RE1) Soil Sampled: 01/14/03 09:30 Received: 01/15/03 10:17									**O2, QC**
Acetone	ND	30.1	ug/kg dry	1	3010341	01/21/03	01/22/03	5035/8260B	
Benzene	ND	6.03	"	"	"	"	"	"	
Bromodichloromethane	ND	6.03	"	"	"	"	"	"	
Bromoform	ND	6.03	"	"	"	"	"	"	
Bromomethane	ND	6.03	"	"	"	"	"	"	
2-Butanone	ND	12.1	"	"	"	"	"	"	
Carbon disulfide	ND	6.03	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.03	"	"	"	"	"	"	
Chlorobenzene	ND	6.03	"	"	"	"	"	"	
Chlorodibromomethane	ND	6.03	"	"	"	"	"	"	
Chloroethane	ND	6.03	"	"	"	"	"	"	
Chloroform	ND	6.03	"	"	"	"	"	"	
Chloromethane	ND	6.03	"	"	"	"	"	"	
1,1-Dichloroethane	ND	6.03	"	"	"	"	"	"	
1,2-Dichloroethane	ND	6.03	"	"	"	"	"	"	
1,1-Dichloroethene	ND	6.03	"	"	"	"	"	"	
1,2-Dichloroethene	ND	6.03	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	6.03	"	"	"	"	"	"	
1,2-Dichloropropane	ND	6.03	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	3.62	"	"	"	"	"	"	
Ethylbenzene	ND	6.03	"	"	"	"	"	"	
2-Hexanone	ND	12.1	"	"	"	"	"	"	
Methylene chloride	ND	6.03	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	12.1	"	"	"	"	"	"	
Styrene	ND	6.03	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	6.03	"	"	"	"	"	"	
Tetrachloroethene	ND	6.03	"	"	"	"	"	"	
Toluene	ND	6.03	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	6.03	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	6.03	"	"	"	"	"	"	
Trichloroethene	ND	6.03	"	"	"	"	"	"	
Trichlorofluoromethane	ND	6.03	"	"	"	"	"	"	
Vinyl acetate	ND	12.1	"	"	"	"	"	"	
Vinyl chloride	ND	6.03	"	"	"	"	"	"	
Total Xylenes	ND	12.1	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*126 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*158 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*98.5 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*63.0 %*	*66.3-119*		"	"	"	"	L

reat Lakes Analytical--Buffalo Grove

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Andy Johnson

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL
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rnsey	Project: Willow Glen Golf Course	
5555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Volatile Organic Compounds by EPA Method 5035/8260B

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-15 (B301154-02RE1) Soil Sampled: 01/14/03 10:55 Received: 01/15/03 10:17									**QC**
Acetone	ND	27.9	ug/kg dry	1	3010341	01/21/03	01/22/03	5035/8260B	
Benzene	ND	5.59	"	"	"	"	"	"	
Bromodichloromethane	ND	5.59	"	"	"	"	"	"	
Bromoform	ND	5.59	"	"	"	"	"	"	
Bromomethane	ND	5.59	"	"	"	"	"	"	
2-Butanone	ND	11.2	"	"	"	"	"	"	
Carbon disulfide	ND	5.59	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.59	"	"	"	"	"	"	
Chlorobenzene	ND	5.59	"	"	"	"	"	"	
Chlorodibromomethane	ND	5.59	"	"	"	"	"	"	
Chloroethane	ND	5.59	"	"	"	"	"	"	
Chloroform	ND	5.59	"	"	"	"	"	"	
Chloromethane	ND	5.59	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.59	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.59	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.59	"	"	"	"	"	"	
1,2-Dichloroethene	ND	5.59	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.59	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.59	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	3.35	"	"	"	"	"	"	
Ethylbenzene	ND	5.59	"	"	"	"	"	"	
2-Hexanone	ND	11.2	"	"	"	"	"	"	
Methylene chloride	ND	5.59	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	11.2	"	"	"	"	"	"	
Styrene	ND	5.59	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.59	"	"	"	"	"	"	
Tetrachloroethene	ND	5.59	"	"	"	"	"	"	
Toluene	ND	5.59	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.59	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.59	"	"	"	"	"	"	
Trichloroethene	ND	5.59	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.59	"	"	"	"	"	"	
Vinyl acetate	ND	11.2	"	"	"	"	"	"	
Vinyl chloride	ND	5.59	"	"	"	"	"	"	
Total Xylenes	ND	11.2	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*119 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*98.9 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*73.8 %*	*66.3-119*		"	"	"	"	

reat Lakes Analytical--Buffalo Grove

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Andy Johnson

Andy Johnson, Project Manager

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:rnsey	Project: Willow Glen Golf Course	
5555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Volatile Organic Compounds by EPA Method 5035/8260B

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-22 (B301154-03RE1) Soil Sampled: 01/14/03 12:22 Received: 01/15/03 10:17									**O2, QC**
Acetone	ND	33.5	ug/kg dry	1	3010341	01/21/03	01/22/03	5035/8260B	
Benzene	ND	6.71	"	"	"	"	"	"	
Bromodichloromethane	ND	6.71	"	"	"	"	"	"	
Bromoform	ND	6.71	"	"	"	"	"	"	
Bromomethane	ND	6.71	"	"	"	"	"	"	
2-Butanone	ND	13.4	"	"	"	"	"	"	
Carbon disulfide	ND	6.71	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.71	"	"	"	"	"	"	
Chlorobenzene	ND	6.71	"	"	"	"	"	"	
Chlorodibromomethane	ND	6.71	"	"	"	"	"	"	
Chloroethane	ND	6.71	"	"	"	"	"	"	
Chloroform	ND	6.71	"	"	"	"	"	"	
Chloromethane	ND	6.71	"	"	"	"	"	"	
1,1-Dichloroethane	ND	6.71	"	"	"	"	"	"	
1,2-Dichloroethane	ND	6.71	"	"	"	"	"	"	
1,1-Dichloroethene	ND	6.71	"	"	"	"	"	"	
1,2-Dichloroethene	ND	6.71	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	6.71	"	"	"	"	"	"	
1,2-Dichloropropane	ND	6.71	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	4.02	"	"	"	"	"	"	
Ethylbenzene	ND	6.71	"	"	"	"	"	"	
2-Hexanone	ND	13.4	"	"	"	"	"	"	
Methylene chloride	ND	6.71	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	13.4	"	"	"	"	"	"	
Styrene	ND	6.71	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	6.71	"	"	"	"	"	"	
Tetrachloroethene	ND	6.71	"	"	"	"	"	"	
Toluene	ND	6.71	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	6.71	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	6.71	"	"	"	"	"	"	
Trichloroethene	ND	6.71	"	"	"	"	"	"	
Trichlorofluoromethane	ND	6.71	"	"	"	"	"	"	
Vinyl acetate	ND	13.4	"	"	"	"	"	"	
Vinyl chloride	ND	6.71	"	"	"	"	"	"	
Total Xylenes	ND	13.4	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*141 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*162 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*90.5 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*33.8 %*	*66.3-119*		"	"	"	"	L

:eat Lakes Analytical--Buffalo Grove

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Andy Johnson

Andy Johnson, Project Manager

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:rnsey	Project: Willow Glen Golf Course	
..555 N. Grand Blvd.	Project Number: N/A	Reported:
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Volatile Organic Compounds by EPA Method 5035/8260B

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-28 (B301154-04RE1) Soil Sampled: 01/14/03 13:50 Received: 01/15/03 10:17									**O2, QC**
Acetone	ND	42.0	ug/kg dry	1	3010341	01/21/03	01/22/03	5035/8260B	
Benzene	ND	8.39	"	"	"	"	"	"	
Bromodichloromethane	ND	8.39	"	"	"	"	"	"	
Bromoform	ND	8.39	"	"	"	"	"	"	
Bromomethane	ND	8.39	"	"	"	"	"	"	
2-Butanone	ND	16.8	"	"	"	"	"	"	
Carbon disulfide	ND	8.39	"	"	"	"	"	"	
Carbon tetrachloride	ND	8.39	"	"	"	"	"	"	
Chlorobenzene	ND	8.39	"	"	"	"	"	"	
Chlorodibromomethane	ND	8.39	"	"	"	"	"	"	
Chloroethane	ND	8.39	"	"	"	"	"	"	
Chloroform	ND	8.39	"	"	"	"	"	"	
Chloromethane	ND	8.39	"	"	"	"	"	"	
1,1-Dichloroethane	ND	8.39	"	"	"	"	"	"	
1,2-Dichloroethane	ND	8.39	"	"	"	"	"	"	
1,1-Dichloroethene	ND	8.39	"	"	"	"	"	"	
1,2-Dichloroethene	ND	8.39	"	"	"	"	"	"	
is-1,2-Dichloroethene	ND	8.39	"	"	"	"	"	"	
1,2-Dichloropropane	ND	8.39	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	5.04	"	"	"	"	"	"	
Ethylbenzene	ND	8.39	"	"	"	"	"	"	
2-Hexanone	ND	16.8	"	"	"	"	"	"	
Methylene chloride	ND	8.39	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	16.8	"	"	"	"	"	"	
Styrene	ND	8.39	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	8.39	"	"	"	"	"	"	
Tetrachloroethene	ND	8.39	"	"	"	"	"	"	
Toluene	ND	8.39	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	8.39	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	8.39	"	"	"	"	"	"	
Trichloroethene	ND	8.39	"	"	"	"	"	"	
Trichlorofluoromethane	ND	8.39	"	"	"	"	"	"	
Vinyl acetate	ND	16.8	"	"	"	"	"	"	
Vinyl chloride	ND	8.39	"	"	"	"	"	"	
Total Xylenes	ND	16.8	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*129 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*185 %*	*61.8-168*		"	"	"	"	H
Surrogate: Toluene-d8		*116 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*54.6 %*	*66.3-119*		"	"	"	"	L

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ɛrnsey	Project: Willow Glen Golf Course	
ɔ55 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Volatile Organic Compounds by EPA Method 5035/8260B

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-41 (B301154-05RE1) Soil Sampled: 01/15/03 09:17 Received: 01/15/03 10:17									**QC**
Acetone	ND	23.4	ug/kg dry	1	3010341	01/21/03	01/22/03	5035/8260B	
Benzene	ND	4.68	"	"	"	"	"	"	
Bromodichloromethane	ND	4.68	"	"	"	"	"	"	
Bromoform	ND	4.68	"	"	"	"	"	"	
Bromomethane	ND	4.68	"	"	"	"	"	"	
2-Butanone	ND	9.36	"	"	"	"	"	"	
Carbon disulfide	ND	4.68	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.68	"	"	"	"	"	"	
Chlorobenzene	ND	4.68	"	"	"	"	"	"	
Chlorodibromomethane	ND	4.68	"	"	"	"	"	"	
Chloroethane	ND	4.68	"	"	"	"	"	"	
Chloroform	ND	4.68	"	"	"	"	"	"	
Chloromethane	ND	4.68	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.68	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.68	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.68	"	"	"	"	"	"	
1,2-Dichloroethene	ND	4.68	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.68	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.68	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	2.81	"	"	"	"	"	"	
Ethylbenzene	ND	4.68	"	"	"	"	"	"	
2-Hexanone	ND	9.36	"	"	"	"	"	"	
Methylene chloride	ND	4.68	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	9.36	"	"	"	"	"	"	
Styrene	ND	4.68	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.68	"	"	"	"	"	"	
Tetrachloroethene	ND	4.68	"	"	"	"	"	"	
Toluene	ND	4.68	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.68	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.68	"	"	"	"	"	"	
Trichloroethene	ND	4.68	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.68	"	"	"	"	"	"	
Vinyl acetate	ND	9.36	"	"	"	"	"	"	
Vinyl chloride	ND	4.68	"	"	"	"	"	"	
Total Xylenes	ND	9.36	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*103 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.4 %*	*66.3-119*		"	"	"	"	

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ɔrnsey	Project: Willow Glen Golf Course	
ɔ55 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Semivolatile Organic Compounds by EPA Method 8270C

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 (B301154-01) Soil Sampled: 01/14/03 09:30 Received: 01/15/03 10:17									
Acenaphthene	ND	121	ug/kg dry	1	3010232	01/15/03	01/20/03	EPA 8270C	
Acenaphthylene	ND	121	"	"	"	"	"	"	
Aniline	ND	121	"	"	"	"	"	"	
Anthracene	**309**	121	"	"	"	"	"	"	
Benzoic acid	ND	603	"	"	"	"	"	"	
Benz (a) anthracene	**1430**	121	"	"	"	"	"	"	
Benzo (a) pyrene	**1400**	69.9	"	"	"	"	"	"	
Benzo (b) fluoranthene	**1260**	121	"	"	"	"	"	"	
Benzo (ghi) perylene	**923**	121	"	"	"	"	"	"	
Benzo (k) fluoranthene	**1090**	121	"	"	"	"	"	"	
Benzyl alcohol	ND	121	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	121	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	121	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	121	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	398	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	121	"	"	"	"	"	"	
yl benzyl phthalate	ND	121	"	"	"	"	"	"	
hloroaniline	ND	121	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	121	"	"	"	"	"	"	
2-Chloronaphthalene	ND	121	"	"	"	"	"	"	
2-Chlorophenol	ND	121	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	121	"	"	"	"	"	"	
Chrysene	**1480**	121	"	"	"	"	"	"	
Dibenz (a,h) anthracene	**214**	69.9	"	"	"	"	"	"	
Dibenzofuran	ND	121	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	121	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	121	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	121	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	603	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	121	"	"	"	"	"	"	
Diethyl phthalate	ND	121	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	121	"	"	"	"	"	"	
Dimethyl phthalate	ND	121	"	"	"	"	"	"	
Di-n-butyl phthalate	**889**	398	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	603	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	603	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	121	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	121	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	121	"	"	"	"	"	"	
Fluoranthene	**3120**	121	"	"	"	"	"	"	
Fluorene	ND	121	"	"	"	"	"	"	
Hexachlorobenzene	ND	121	"	"	"	"	"	"	

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rnsey	Project: Willow Glen Golf Course	
555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Semivolatile Organic Compounds by EPA Method 8270C

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 (B301154-01) Soil Sampled: 01/14/03 09:30 Received: 01/15/03 10:17									
Hexachlorobutadiene	ND	121	ug/kg dry	1	3010232	01/15/03	01/20/03	EPA 8270C	
Hexachlorocyclopentadiene	ND	121	"	"	"	"	"	"	
Hexachloroethane	ND	121	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**845**	121	"	"	"	"	"	"	
Isophorone	ND	121	"	"	"	"	"	"	
2-Methylnaphthalene	ND	121	"	"	"	"	"	"	
o-Cresol	ND	121	"	"	"	"	"	"	
m,p-Cresols	ND	121	"	"	"	"	"	"	
Naphthalene	ND	121	"	"	"	"	"	"	
2-Nitroaniline	ND	603	"	"	"	"	"	"	
3-Nitroaniline	ND	603	"	"	"	"	"	"	
4-Nitroaniline	ND	603	"	"	"	"	"	"	
Nitrobenzene	ND	121	"	"	"	"	"	"	
2-Nitrophenol	ND	121	"	"	"	"	"	"	
4-Nitrophenol	ND	603	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	121	"	"	"	"	"	"	
Nitrosodiphenylamine	ND	121	"	"	"	"	"	"	
Pentachlorophenol	ND	603	"	"	"	"	"	"	
Phenanthrene	**1080**	121	"	"	"	"	"	"	
Phenol	ND	121	"	"	"	"	"	"	
Pyrene	**2240**	121	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	121	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	603	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	121	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*52.0 %*	*10.2-110*		"	"	"	"	
Surrogate: Phenol-d6		*60.3 %*	*11.1-110*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*52.2 %*	*10-110*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*50.2 %*	*10-110*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*51.7 %*	*18.3-110*		"	"	"	"	
Surrogate: p-Terphenyl-d14		*49.3 %*	*32.5-143*		"	"	"	"	

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rnsey	Project: Willow Glen Golf Course	
555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Semivolatile Organic Compounds by EPA Method 8270C

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-15 (B301154-02) Soil Sampled: 01/14/03 10:55 Received: 01/15/03 10:17									
Acenaphthene	ND	112	ug/kg dry	1	3010232	01/15/03	01/20/03	EPA 8270C	
Acenaphthylene	ND	112	"	"	"	"	"	"	
Aniline	ND	112	"	"	"	"	"	"	
Anthracene	ND	112	"	"	"	"	"	"	
Benzoic acid	ND	559	"	"	"	"	"	"	
Benz (a) anthracene	ND	112	"	"	"	"	"	"	
Benzo (a) pyrene	ND	64.8	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	112	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	112	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	112	"	"	"	"	"	"	
Benzyl alcohol	ND	112	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	112	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	112	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	112	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	369	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	112	"	"	"	"	"	"	
yl benzyl phthalate	ND	112	"	"	"	"	"	"	
hloroaniline	ND	112	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	112	"	"	"	"	"	"	
2-Chloronaphthalene	ND	112	"	"	"	"	"	"	
2-Chlorophenol	ND	112	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	112	"	"	"	"	"	"	
Chrysene	ND	112	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	64.8	"	"	"	"	"	"	
Dibenzofuran	ND	112	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	112	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	112	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	112	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	559	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	112	"	"	"	"	"	"	
Diethyl phthalate	ND	112	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	112	"	"	"	"	"	"	
Dimethyl phthalate	ND	112	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	369	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	559	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	559	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	112	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	112	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	112	"	"	"	"	"	"	
Fluoranthene	ND	112	"	"	"	"	"	"	
Fluorene	ND	112	"	"	"	"	"	"	
Hexachlorobenzene	ND	112	"	"	"	"	"	"	

reat Lakes Analytical--Buffalo Grove

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Andy Johnson

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL
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Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

rnsey	Project: Willow Glen Golf Course	
555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Semivolatile Organic Compounds by EPA Method 8270C

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-15 (B301154-02) Soil Sampled: 01/14/03 10:55 Received: 01/15/03 10:17									
Hexachlorobutadiene	ND	112	ug/kg dry	1	3010232	01/15/03	01/20/03	EPA 8270C	
Hexachlorocyclopentadiene	ND	112	"	"	"	"	"	"	
Hexachloroethane	ND	112	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	112	"	"	"	"	"	"	
Isophorone	ND	112	"	"	"	"	"	"	
2-Methylnaphthalene	ND	112	"	"	"	"	"	"	
o-Cresol	ND	112	"	"	"	"	"	"	
m,p-Cresols	ND	112	"	"	"	"	"	"	
Naphthalene	ND	112	"	"	"	"	"	"	
2-Nitroaniline	ND	559	"	"	"	"	"	"	
3-Nitroaniline	ND	559	"	"	"	"	"	"	
4-Nitroaniline	ND	559	"	"	"	"	"	"	
Nitrobenzene	ND	112	"	"	"	"	"	"	
2-Nitrophenol	ND	112	"	"	"	"	"	"	
4-Nitrophenol	ND	559	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	112	"	"	"	"	"	"	
Nitrosodiphenylamine	ND	112	"	"	"	"	"	"	
Pentachlorophenol	ND	559	"	"	"	"	"	"	
Phenanthrene	ND	112	"	"	"	"	"	"	
Phenol	ND	112	"	"	"	"	"	"	
Pyrene	ND	112	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	112	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	559	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	112	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*29.9 %*	*10.2-110*		"	"	"	"	
Surrogate: Phenol-d6		*37.8 %*	*11.1-110*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*32.3 %*	*10-110*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*26.7 %*	*10-110*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*35.9 %*	*18.3-110*		"	"	"	"	
Surrogate: p-Terphenyl-d14		*32.3 %*	*32.5-143*		"	"	"	"	L

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Andy Johnson

Andy Johnson, Project Manager

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ɛrnsey	Project: Willow Glen Golf Course	
3555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Semivolatile Organic Compounds by EPA Method 8270C

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-22 (B301154-03) Soil Sampled: 01/14/03 12:22 Received: 01/15/03 10:17									
Acenaphthene	ND	134	ug/kg dry	1	3010232	01/15/03	01/20/03	EPA 8270C	
Acenaphthylene	ND	134	"	"	"	"	"	"	
Aniline	ND	134	"	"	"	"	"	"	
Anthracene	ND	134	"	"	"	"	"	"	
Benzoic acid	ND	671	"	"	"	"	"	"	
Benz (a) anthracene	ND	134	"	"	"	"	"	"	
Benzo (a) pyrene	ND	77.8	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	134	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	134	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	134	"	"	"	"	"	"	
Benzyl alcohol	ND	134	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	134	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	134	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	134	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	443	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	134	"	"	"	"	"	"	
yl benzyl phthalate	ND	134	"	"	"	"	"	"	
hloroaniline	ND	134	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	134	"	"	"	"	"	"	
2-Chloronaphthalene	ND	134	"	"	"	"	"	"	
2-Chlorophenol	ND	134	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	134	"	"	"	"	"	"	
Chrysene	ND	134	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	77.8	"	"	"	"	"	"	
Dibenzofuran	ND	134	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	134	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	134	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	134	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	671	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	134	"	"	"	"	"	"	
Diethyl phthalate	ND	134	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	134	"	"	"	"	"	"	
Dimethyl phthalate	ND	134	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	443	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	671	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	671	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	134	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	134	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	134	"	"	"	"	"	"	
Fluoranthene	ND	134	"	"	"	"	"	"	
Fluorene	ND	134	"	"	"	"	"	"	
Hexachlorobenzene	ND	134	"	"	"	"	"	"	

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Andy Johnson

Andy Johnson, Project Manager

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rnsey	Project: Willow Glen Golf Course	
5555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Semivolatile Organic Compounds by EPA Method 8270C

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-22 (B301154-03) Soil Sampled: 01/14/03 12:22 Received: 01/15/03 10:17									
Hexachlorobutadiene	ND	134	ug/kg dry	1	3010232	01/15/03	01/20/03	EPA 8270C	
Hexachlorocyclopentadiene	ND	134	"	"	"	"	"	"	
Hexachloroethane	ND	134	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	134	"	"	"	"	"	"	
Isophorone	ND	134	"	"	"	"	"	"	
2-Methylnaphthalene	ND	134	"	"	"	"	"	"	
o-Cresol	ND	134	"	"	"	"	"	"	
m,p-Cresols	ND	134	"	"	"	"	"	"	
Naphthalene	ND	134	"	"	"	"	"	"	
2-Nitroaniline	ND	671	"	"	"	"	"	"	
3-Nitroaniline	ND	671	"	"	"	"	"	"	
4-Nitroaniline	ND	671	"	"	"	"	"	"	
Nitrobenzene	ND	134	"	"	"	"	"	"	
2-Nitrophenol	ND	134	"	"	"	"	"	"	
4-Nitrophenol	ND	671	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	134	"	"	"	"	"	"	
Nitrosodiphenylamine	ND	134	"	"	"	"	"	"	
Pentachlorophenol	ND	671	"	"	"	"	"	"	
Phenanthrene	ND	134	"	"	"	"	"	"	
Phenol	ND	134	"	"	"	"	"	"	
Pyrene	ND	134	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	134	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	671	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	134	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*22.1 %*	*10.2-110*		"	"	"	"	
Surrogate: Phenol-d6		*26.4 %*	*11.1-110*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*25.6 %*	*10-110*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*15.7 %*	*10-110*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*11.1 %*	*18.3-110*		"	"	"	"	L
Surrogate: p-Terphenyl-d14		*6.11 %*	*32.5-143*		"	"	"	"	L

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Andy Johnson, Project Manager

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rnsey
535 N. Grand Blvd.
Oklahoma City OK, 73112

Project: Willow Glen Golf Course
Project Number: N/A
Project Manager: Carey Miller

Reported:
01/23/03 15:57

Semivolatile Organic Compounds by EPA Method 8270C

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-28 (B301154-04) Soil Sampled: 01/14/03 13:50 Received: 01/15/03 10:17									
Acenaphthene	ND	215	ug/kg dry	1	3010232	01/15/03	01/20/03	EPA 8270C	
Acenaphthylene	ND	215	"	"	"	"	"	"	
Aniline	ND	215	"	"	"	"	"	"	
Anthracene	ND	215	"	"	"	"	"	"	
Benzoic acid	ND	1070	"	"	"	"	"	"	
Benz (a) anthracene	ND	215	"	"	"	"	"	"	
Benzo (a) pyrene	ND	125	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	215	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	215	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	215	"	"	"	"	"	"	
Benzyl alcohol	ND	215	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	215	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	215	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	215	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	709	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	215	"	"	"	"	"	"	
yl benzyl phthalate	ND	215	"	"	"	"	"	"	
hloroaniline	ND	215	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	215	"	"	"	"	"	"	
2-Chloronaphthalene	ND	215	"	"	"	"	"	"	
2-Chlorophenol	ND	215	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	215	"	"	"	"	"	"	
Chrysene	ND	215	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	125	"	"	"	"	"	"	
Dibenzofuran	ND	215	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	215	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	215	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	215	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	1070	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	215	"	"	"	"	"	"	
Diethyl phthalate	ND	215	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	215	"	"	"	"	"	"	
Dimethyl phthalate	ND	215	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	709	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1070	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1070	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	215	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	215	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	215	"	"	"	"	"	"	
Fluoranthene	ND	215	"	"	"	"	"	"	
Fluorene	ND	215	"	"	"	"	"	"	
Hexachlorobenzene	ND	215	"	"	"	"	"	"	

eat Lakes Analytical--Buffalo Grove

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Andy Johnson

Andy Johnson, Project Manager

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:rnsey	Project: Willow Glen Golf Course	
.555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Semivolatile Organic Compounds by EPA Method 8270C

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-28 (B301154-04) Soil Sampled: 01/14/03 13:50 Received: 01/15/03 10:17									
Hexachlorobutadiene	ND	215	ug/kg dry	1	3010232	01/15/03	01/20/03	EPA 8270C	
Hexachlorocyclopentadiene	ND	215	"	"	"	"	"	"	
Hexachloroethane	ND	215	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	215	"	"	"	"	"	"	
Isophorone	ND	215	"	"	"	"	"	"	
2-Methylnaphthalene	ND	215	"	"	"	"	"	"	
o-Cresol	ND	215	"	"	"	"	"	"	
m,p-Cresols	ND	215	"	"	"	"	"	"	
Naphthalene	ND	215	"	"	"	"	"	"	
2-Nitroaniline	ND	1070	"	"	"	"	"	"	
3-Nitroaniline	ND	1070	"	"	"	"	"	"	
4-Nitroaniline	ND	1070	"	"	"	"	"	"	
Nitrobenzene	ND	215	"	"	"	"	"	"	
2-Nitrophenol	ND	215	"	"	"	"	"	"	
4-Nitrophenol	ND	1070	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	215	"	"	"	"	"	"	
Nitrosodiphenylamine	ND	215	"	"	"	"	"	"	
Pentachlorophenol	ND	1070	"	"	"	"	"	"	
Phenanthrene	ND	215	"	"	"	"	"	"	
Phenol	ND	215	"	"	"	"	"	"	
Pyrene	ND	215	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	215	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1070	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	215	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*26.4 %*	*10.2-110*		"	"	"	"	
Surrogate: Phenol-d6		*31.6 %*	*11.1-110*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*21.1 %*	*10-110*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*9.26 %*	*10-110*		"	"	"	"	L
Surrogate: 2,4,6-Tribromophenol		*18.9 %*	*18.3-110*		"	"	"	"	
Surrogate: p-Terphenyl-d14		*2.58 %*	*32.5-143*		"	"	"	"	L

reat Lakes Analytical--Buffalo Grove

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Andy Johnson

Andy Johnson, Project Manager

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ɛrnsey	Project: Willow Glen Golf Course	
ɔ555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Semivolatile Organic Compounds by EPA Method 8270C

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-41 (B301154-05) Soil Sampled: 01/15/03 09:17 Received: 01/15/03 10:17									
Acenaphthene	ND	119	ug/kg dry	1	3010232	01/15/03	01/20/03	EPA 8270C	
Acenaphthylene	ND	119	"	"	"	"	"	"	
Aniline	ND	119	"	"	"	"	"	"	
Anthracene	ND	119	"	"	"	"	"	"	
Benzoic acid	ND	594	"	"	"	"	"	"	
Benz (a) anthracene	ND	119	"	"	"	"	"	"	
Benzo (a) pyrene	ND	69.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	119	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	119	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	119	"	"	"	"	"	"	
Benzyl alcohol	ND	119	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	119	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	119	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	119	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	392	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	119	"	"	"	"	"	"	
yl benzyl phthalate	ND	119	"	"	"	"	"	"	
hloroaniline	ND	119	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	119	"	"	"	"	"	"	
2-Chloronaphthalene	ND	119	"	"	"	"	"	"	
2-Chlorophenol	ND	119	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	119	"	"	"	"	"	"	
Chrysene	ND	119	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	69.0	"	"	"	"	"	"	
Dibenzofuran	ND	119	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	119	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	119	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	119	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	594	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	119	"	"	"	"	"	"	
Diethyl phthalate	ND	119	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	119	"	"	"	"	"	"	
Dimethyl phthalate	ND	119	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	392	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	594	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	594	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	119	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	119	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	119	"	"	"	"	"	"	
Fluoranthene	ND	119	"	"	"	"	"	"	
Fluorene	ND	119	"	"	"	"	"	"	
Hexachlorobenzene	ND	119	"	"	"	"	"	"	

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:rnsey	Project: Willow Glen Golf Course	
3555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Semivolatile Organic Compounds by EPA Method 8270C

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-41 (B301154-05) Soil Sampled: 01/15/03 09:17 Received: 01/15/03 10:17									
Hexachlorobutadiene	ND	119	ug/kg dry	1	3010232	01/15/03	01/20/03	EPA 8270C	
Hexachlorocyclopentadiene	ND	119	"	"	"	"	"	"	
Hexachloroethane	ND	119	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	119	"	"	"	"	"	"	
Isophorone	ND	119	"	"	"	"	"	"	
2-Methylnaphthalene	ND	119	"	"	"	"	"	"	
o-Cresol	ND	119	"	"	"	"	"	"	
m,p-Cresols	ND	119	"	"	"	"	"	"	
Naphthalene	ND	119	"	"	"	"	"	"	
2-Nitroaniline	ND	594	"	"	"	"	"	"	
3-Nitroaniline	ND	594	"	"	"	"	"	"	
4-Nitroaniline	ND	594	"	"	"	"	"	"	
Nitrobenzene	ND	119	"	"	"	"	"	"	
2-Nitrophenol	ND	119	"	"	"	"	"	"	
4-Nitrophenol	ND	594	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	119	"	"	"	"	"	"	
Nitrosodiphenylamine	ND	119	"	"	"	"	"	"	
Pentachlorophenol	ND	594	"	"	"	"	"	"	
Phenanthrene	ND	119	"	"	"	"	"	"	
Phenol	ND	119	"	"	"	"	"	"	
Pyrene	ND	119	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	119	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	594	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	119	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*52.7 %*	*10.2-110*		"	"	"	"	
Surrogate: Phenol-d6		*60.6 %*	*11.1-110*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*45.8 %*	*10-110*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*41.1 %*	*10-110*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*53.9 %*	*18.3-110*		"	"	"	"	
Surrogate: p-Terphenyl-d14		*43.7 %*	*32.5-143*		"	"	"	"	

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rnsey	Project: Willow Glen Golf Course	
3555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Percent Solids

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 (B301154-01) Soil	**Sampled: 01/14/03 09:30**	**Received: 01/15/03 10:17**							
% Solids	**83.0**	0.0100	%	1	3010246	01/16/03	01/17/03	5035 7.5	
SB-15 (B301154-02) Soil	**Sampled: 01/14/03 10:55**	**Received: 01/15/03 10:17**							
% Solids	**89.5**	0.0100	%	1	3010246	01/16/03	01/17/03	5035 7.5	
SB-22 (B301154-03) Soil	**Sampled: 01/14/03 12:22**	**Received: 01/15/03 10:17**							
% Solids	**74.6**	0.0100	%	1	3010246	01/16/03	01/17/03	5035 7.5	
SB-28 (B301154-04) Soil	**Sampled: 01/14/03 13:50**	**Received: 01/15/03 10:17**							
% Solids	**46.5**	0.0100	%	1	3010246	01/16/03	01/17/03	5035 7.5	
SB-41 (B301154-05) Soil	**Sampled: 01/15/03 09:17**	**Received: 01/15/03 10:17**							
% Solids	**84.1**	0.0100	%	1	3010246	01/16/03	01/17/03	5035 7.5	

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rnsey	Project: Willow Glen Golf Course	
5555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Total Metals by EPA 6000/7000 Series Methods - Quality Control
Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3010338 - EPA 3050B										
Blank (3010338-BLK1)				Prepared: 01/21/03 Analyzed: 01/22/03						
Arsenic	ND	2.00	mg/kg wet							
Barium	ND	25.0	"							
Cadmium	ND	0.500	"							
Chromium	ND	0.500	"							
Lead	ND	1.00	"							
Selenium	ND	2.50	"							
Silver	ND	2.50	"							
LCS (3010338-BS1)				Prepared: 01/21/03 Analyzed: 01/22/03						
Arsenic	105	2.00	mg/kg wet	106		99.1	90-113			
Barium	208	25.0	"	200		104	85-106			
Cadmium	211	0.500	"	200		106	87-110			
omium	202	0.500	"	200		101	85-107			
	206	1.00	"	201		102	84-109			
Selenium	56.6	2.50	"	56.0		101	86-112			
Silver	194	2.50	"	200		97.0	86-107			
Matrix Spike (3010338-MS1)		**Source: B301154-01**		Prepared: 01/21/03 Analyzed: 01/22/03						
Arsenic	71.2	2.41	mg/kg dry	124	ND	57.4	59-120			L
Barium	255	30.1	"	234	166	38.0	47-155			L
Cadmium	174	0.603	"	234	ND	74.4	59-116			
Chromium	191	0.603	"	234	10.8	77.0	69-110			
Lead	188	1.21	"	235	17.4	72.6	52-125			
Selenium	40.9	3.01	"	65.5	ND	62.4	49-125			
Silver	177	3.01	"	234	ND	75.6	62-123			
Matrix Spike Dup (3010338-MSD1)		**Source: B301154-01**		Prepared: 01/21/03 Analyzed: 01/22/03						
Arsenic	89.1	2.41	mg/kg dry	125	ND	71.3	59-120	22.3	17	H
Barium	295	30.1	"	236	166	54.7	47-155	14.5	17	
Cadmium	174	0.603	"	236	ND	73.7	59-116	0.00	9	
Chromium	193	0.603	"	236	10.8	77.2	69-110	1.04	10	
Lead	188	1.21	"	238	17.4	71.7	52-125	0.00	14	
Selenium	49.6	3.01	"	66.2	ND	74.9	49-125	19.2	15	H
Silver	186	3.01	"	236	ND	78.8	62-123	4.96	10	

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nsey	Project: Willow Glen Golf Course	
35 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3010359 - EPA 7471A										
Blank (3010359-BLK1)				Prepared & Analyzed: 01/22/03						
Mercury	ND	0.0400	mg/kg wet							
LCS (3010359-BS1)				Prepared & Analyzed: 01/22/03						
Mercury	0.124	0.0400	mg/kg wet	0.120		103	71.9-126			
Matrix Spike (3010359-MS1)		**Source: B301154-01**		Prepared & Analyzed: 01/22/03						
Mercury	0.190	0.0482	mg/kg dry	0.142	0.0569	93.7	38.3-154			
Matrix Spike Dup (3010359-MSD1)		**Source: B301154-01**		Prepared & Analyzed: 01/22/03						
Mercury	0.220	0.0482	mg/kg dry	0.145	0.0569	112	38.3-154	14.6	9.52	H

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rnsey	Project: Willow Glen Golf Course	
3555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Volatile Organic Compounds by EPA Method 5035/8260B - Quality Control

Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3010341 - EPA 5035B [P/T]										
Blank (3010341-BLK1)			Prepared & Analyzed: 01/21/03							
Acetone	ND	25.0	ug/kg wet							
Benzene	ND	5.00	"							
Bromodichloromethane	ND	5.00	"							
Bromoform	ND	5.00	"							
Bromomethane	ND	5.00	"							
2-Butanone	ND	10.0	"							
Carbon disulfide	ND	5.00	"							
Carbon tetrachloride	ND	5.00	"							
Chlorobenzene	ND	5.00	"							
Chlorodibromomethane	ND	5.00	"							
Chloroethane	ND	5.00	"							
Chloroform	ND	5.00	"							
romethane	ND	5.00	"							
Dichloroethane	ND	5.00	"							
1,2-Dichloroethane	ND	5.00	"							
1,1-Dichloroethene	ND	5.00	"							
cis-1,2-Dichloroethene	ND	5.00	"							
trans-1,2-Dichloroethene	ND	5.00	"							
1,2-Dichloropropane	ND	5.00	"							
1,3-Dichloropropene (cis + trans)	ND	3.00	"							
Ethylbenzene	ND	5.00	"							
2-Hexanone	ND	10.0	"							
Methylene chloride	ND	5.00	"							
4-Methyl-2-pentanone	ND	10.0	"							
Styrene	ND	5.00	"							
1,1,2,2-Tetrachloroethane	ND	5.00	"							
Tetrachloroethene	ND	5.00	"							
Toluene	ND	5.00	"							
1,1,1-Trichloroethane	ND	5.00	"							
1,1,2-Trichloroethane	ND	5.00	"							
Trichloroethene	ND	5.00	"							
Trichlorofluoromethane	ND	5.00	"							
Vinyl acetate	ND	10.0	"							
Vinyl chloride	ND	5.00	"							
Total Xylenes	ND	10.0	"							

reat Lakes Analytical--Buffalo Grove

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5555 N. Grand Blvd.
Oklahoma City OK, 73112

Project: Willow Glen Golf Course
Project Number: N/A
Project Manager: Carey Miller

Reported:
01/23/03 15:57

Volatile Organic Compounds by EPA Method 5035/8260B - Quality Control
Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3010341 - EPA 5035B [P/T]										
Blank (3010341-BLK1)			Prepared & Analyzed: 01/21/03							
Surrogate: Dibromofluoromethane	*49.6*		*ug/kg wet*	*50.0*		*99.2*	*73.8-142*			
Surrogate: 1,2-Dichloroethane-d4	*52.6*		"	*50.0*		*105*	*61.8-168*			
Surrogate: Toluene-d8	*48.7*		"	*50.0*		*97.4*	*70.1-131*			
Surrogate: 4-Bromofluorobenzene	*48.3*		"	*50.0*		*96.6*	*66.3-119*			
LCS (3010341-BS1)			Prepared & Analyzed: 01/21/03							
Acetone	ND	25.0	ug/kg wet	50.0			10-239			L
Benzene	56.4	5.00	"	50.0		113	61.7-149			
Bromodichloromethane	61.6	5.00	"	50.0		123	90.7-135			
Bromoform	61.8	5.00	"	50.0		124	61.1-146			
Bromomethane	56.9	5.00	"	50.0		114	10-229			
2-Butanone	66.5	10.0	"	50.0		133	12.4-247			
Carbon disulfide	62.0	5.00	"	50.0		124	10-175			
Carbon tetrachloride	59.2	5.00	"	50.0		118	78.5-146			
Chlorobenzene	55.3	5.00	"	50.0		111	70.3-146			
Chlorodibromomethane	57.1	5.00	"	50.0		114	87.5-130			
Chloroethane	58.0	5.00	"	50.0		116	14.2-217			
Chloroform	56.1	5.00	"	50.0		112	77.1-140			
Chloromethane	53.3	5.00	"	50.0		107	32.7-151			
1,1-Dichloroethane	56.4	5.00	"	50.0		113	52.8-145			
1,2-Dichloroethane	58.7	5.00	"	50.0		117	87-136			
1,1-Dichloroethene	56.6	5.00	"	50.0		113	64.2-144			
cis-1,2-Dichloroethene	59.2	5.00	"	50.0		118	63.3-154			
trans-1,2-Dichloroethene	109	5.00	"	50.0		218	54.5-144			H
1,2-Dichloropropane	57.0	5.00	"	50.0		114	66.3-148			
1,3-Dichloropropene (cis + trans)	126	3.00	"	100		126	70-120			H
Ethylbenzene	56.2	5.00	"	50.0		112	63.3-150			
2-Hexanone	63.1	10.0	"	50.0		126	26.2-214			
Methylene chloride	95.4	5.00	"	50.0		191	21.5-162			H
4-Methyl-2-pentanone	63.4	10.0	"	50.0		127	36.6-203			
Styrene	57.3	5.00	"	50.0		115	63.8-145			
1,1,2,2-Tetrachloroethane	65.0	5.00	"	50.0		130	55.1-162			
Tetrachloroethene	57.3	5.00	"	50.0		115	64.4-146			
Toluene	56.9	5.00	"	50.0		114	66.6-144			
1,1,1-Trichloroethane	56.8	5.00	"	50.0		114	80-151			
1,1,2-Trichloroethane	61.9	5.00	"	50.0		124	74-143			

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5555 N. Grand Blvd.
Oklahoma City OK, 73112

Project: Willow Glen Golf Course
Project Number: N/A
Project Manager: Carey Miller

Reported:
01/23/03 15:57

Volatile Organic Compounds by EPA Method 5035/8260B - Quality Control
Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3010341 - EPA 5035B [P/T]										
LCS (3010341-BS1)				Prepared & Analyzed: 01/21/03						
Trichloroethene	58.2	5.00	ug/kg wet	50.0		116	66-149			
Trichlorofluoromethane	53.2	5.00	"	50.0		106	10-203			
Vinyl acetate	47.7	10.0	"	50.0		95.4	10-177			
Vinyl chloride	62.1	5.00	"	50.0		124	47.4-139			
Total Xylenes	154	10.0	"	150		103	60.2-145			
Surrogate: Dibromofluoromethane	*57.7*		"	*50.0*		*115*	*73.8-142*			
Surrogate: 1,2-Dichloroethane-d4	*56.2*		"	*50.0*		*112*	*61.8-168*			
Surrogate: Toluene-d8	*48.7*		"	*50.0*		*97.4*	*70.1-131*			
Surrogate: 4-Bromofluorobenzene	*48.5*		"	*50.0*		*97.0*	*66.3-119*			
LCS Dup (3010341-BSD1)				Prepared & Analyzed: 01/21/03						
Acetone	ND	25.0	ug/kg wet	50.0			10-239		147	L
Benzene	53.1	5.00	"	50.0		106	61.7-149	6.03	38.3	
Bromodichloromethane	59.4	5.00	"	50.0		119	90.7-135	3.64	33.1	
Bromoform	60.2	5.00	"	50.0		120	61.1-146	2.62	38.4	
Bromomethane	47.5	5.00	"	50.0		95.0	10-229	18.0	72	
2-Butanone	66.4	10.0	"	50.0		133	12.4-247	0.150	91.4	
Carbon disulfide	59.1	5.00	"	50.0		118	10-175	4.79	68.6	
Carbon tetrachloride	55.5	5.00	"	50.0		111	78.5-146	6.45	38.4	
Chlorobenzene	52.6	5.00	"	50.0		105	70.3-146	5.00	35.2	
Chlorodibromomethane	55.9	5.00	"	50.0		112	87.5-130	2.12	38.7	
Chloroethane	48.2	5.00	"	50.0		96.4	14.2-217	18.5	82.3	
Chloroform	53.6	5.00	"	50.0		107	77.1-140	4.56	43.1	
Chloromethane	43.7	5.00	"	50.0		87.4	32.7-151	19.8	59.5	
1,1-Dichloroethane	54.4	5.00	"	50.0		109	52.8-145	3.61	46.7	
1,2-Dichloroethane	57.4	5.00	"	50.0		115	87-136	2.24	42	
1,1-Dichloroethene	54.2	5.00	"	50.0		108	64.2-144	4.33	44.1	
cis-1,2-Dichloroethene	55.5	5.00	"	50.0		111	63.3-154	6.45	42.5	
trans-1,2-Dichloroethene	104	5.00	"	50.0		208	54.5-144	4.69	40.1	H
1,2-Dichloropropane	54.7	5.00	"	50.0		109	66.3-148	4.12	34.4	
1,3-Dichloropropene (cis + trans)	121	3.00	"	100		121	70-120	4.05	20	H
Ethylbenzene	54.1	5.00	"	50.0		108	63.3-150	3.81	36.8	
2-Hexanone	57.6	10.0	"	50.0		115	26.2-214	9.11	78.7	
Methylene chloride	62.8	5.00	"	50.0		126	21.5-162	41.2	49.4	
4-Methyl-2-pentanone	60.3	10.0	"	50.0		121	36.6-203	5.01	58.7	
Styrene	54.9	5.00	"	50.0		110	63.8-145	4.28	38.5	

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rnsey	Project: Willow Glen Golf Course	
3555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Volatile Organic Compounds by EPA Method 5035/8260B - Quality Control
Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3010341 - EPA 5035B [P/T]										
LCS Dup (3010341-BSD1)				Prepared & Analyzed: 01/21/03						
1,1,2,2-Tetrachloroethane	63.5	5.00	ug/kg wet	50.0		127	55.1-162	2.33	45	
Tetrachloroethene	54.4	5.00	"	50.0		109	64.4-146	5.19	46.5	
Toluene	53.8	5.00	"	50.0		108	66.6-144	5.60	38.7	
1,1,1-Trichloroethane	53.0	5.00	"	50.0		106	80-151	6.92	45.4	
1,1,2-Trichloroethane	59.3	5.00	"	50.0		119	74-143	4.29	37.8	
Trichloroethene	54.9	5.00	"	50.0		110	66-149	5.84	42.2	
Trichlorofluoromethane	46.5	5.00	"	50.0		93.0	10-203	13.4	63.6	
Vinyl acetate	48.3	10.0	"	50.0		96.6	10-177	1.25	79.5	
Vinyl chloride	52.0	5.00	"	50.0		104	47.4-139	17.7	57.7	
Total Xylenes	147	10.0	"	150		98.0	60.2-145	4.65	38.5	
Surrogate: Dibromofluoromethane	*58.0*		"	*50.0*		*116*	*73.8-142*			
Surrogate: 1,2-Dichloroethane-d4	*55.4*		"	*50.0*		*111*	*61.8-168*			
rogate: Toluene-d8	*49.2*		"	*50.0*		*98.4*	*70.1-131*			
rogate: 4-Bromofluorobenzene	*48.7*		"	*50.0*		*97.4*	*66.3-119*			

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rnsey
3555 N. Grand Blvd.
Oklahoma City OK, 73112

Project: Willow Glen Golf Course
Project Number: N/A
Project Manager: Carey Miller

Reported:
01/23/03 15:57

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3010232 - EPA 3550B										
Blank (3010232-BLK1)				Prepared: 01/15/03 Analyzed: 01/20/03						
Acenaphthene	ND	100	ug/kg wet							
Acenaphthylene	ND	100	"							
Aniline	ND	100	"							
Anthracene	ND	100	"							
Benzoic acid	ND	500	"							
Benz (a) anthracene	ND	100	"							
Benzo (a) pyrene	ND	58.0	"							
Benzo (b) fluoranthene	ND	100	"							
Benzo (ghi) perylene	ND	100	"							
Benzo (k) fluoranthene	ND	100	"							
Benzyl alcohol	ND	100	"							
Bis(2-chloroethoxy)methane	ND	100	"							
?-chloroethyl)ether	ND	100	"							
,2-chloroisopropyl)ether	ND	100	"							
Bis(2-ethylhexyl)phthalate	ND	330	"							
4-Bromophenyl phenyl ether	ND	100	"							
Butyl benzyl phthalate	ND	100	"							
4-Chloroaniline	ND	100	"							
4-Chloro-3-methylphenol	ND	100	"							
2-Chloronaphthalene	ND	100	"							
2-Chlorophenol	ND	100	"							
4-Chlorophenyl phenyl ether	ND	100	"							
Chrysene	ND	100	"							
Dibenz (a,h) anthracene	ND	58.0	"							
Dibenzofuran	ND	100	"							
1,2-Dichlorobenzene	ND	100	"							
1,3-Dichlorobenzene	ND	100	"							
1,4-Dichlorobenzene	ND	100	"							
3,3'-Dichlorobenzidine	ND	500	"							
2,4-Dichlorophenol	ND	100	"							
Diethyl phthalate	ND	100	"							
2,4-Dimethylphenol	ND	100	"							
Dimethyl phthalate	ND	100	"							
Di-n-butyl phthalate	ND	330	"							
4,6-Dinitro-2-methylphenol	ND	500	"							

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rnsey	Project: Willow Glen Golf Course	
3555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3010232 - EPA 3550B										
Blank (3010232-BLK1)				Prepared: 01/15/03 Analyzed: 01/20/03						
2,4-Dinitrophenol	ND	500	ug/kg wet							
2,4-Dinitrotoluene	ND	100	"							
2,6-Dinitrotoluene	ND	100	"							
Di-n-octyl phthalate	ND	100	"							
Fluoranthene	ND	100	"							
Fluorene	ND	100	"							
Hexachlorobenzene	ND	100	"							
Hexachlorobutadiene	ND	100	"							
Hexachlorocyclopentadiene	ND	100	"							
Hexachloroethane	ND	100	"							
Indeno (1,2,3-cd) pyrene	ND	100	"							
Isophorone	ND	100	"							
ethylnaphthalene	ND	100	"							
esol	ND	100	"							
m,p-Cresols	ND	100	"							
Naphthalene	ND	100	"							
2-Nitroaniline	ND	500	"							
3-Nitroaniline	ND	500	"							
4-Nitroaniline	ND	500	"							
Nitrobenzene	ND	100	"							
2-Nitrophenol	ND	100	"							
4-Nitrophenol	ND	500	"							
N-Nitrosodi-n-propylamine	ND	100	"							
N-Nitrosodiphenylamine	ND	100	"							
Pentachlorophenol	ND	500	"							
Phenanthrene	ND	100	"							
Phenol	ND	100	"							
Pyrene	ND	100	"							
1,2,4-Trichlorobenzene	ND	100	"							
2,4,5-Trichlorophenol	ND	500	"							
2,4,6-Trichlorophenol	ND	100	"							
Surrogate: 2-Fluorophenol	*1870*		"	*3370*		*55.5*	*10.2-110*			
Surrogate: Phenol-d6	*2010*		"	*3370*		*59.6*	*11.1-110*			
Surrogate: Nitrobenzene-d5	*991*		"	*1690*		*58.6*	*10-110*			
Surrogate: 2-Fluorobiphenyl	*1040*		"	*1690*		*61.5*	*10-110*			

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:rnsey	Project: Willow Glen Golf Course	
3555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3010232 - EPA 3550B										
Blank (3010232-BLK1)				Prepared: 01/15/03 Analyzed: 01/20/03						
Surrogate: 2,4,6-Tribromophenol	*2030*		*ug/kg wet*	*3370*		*60.2*	*18.3-110*			
Surrogate: p-Terphenyl-d14	*883*		"	*1690*		*52.2*	*32.5-143*			
LCS (3010232-BS1)				Prepared: 01/15/03 Analyzed: 01/20/03						
Acenaphthene	1260	100	ug/kg wet	1500		84.0	38.3-110			
Acenaphthylene	1250	100	"	1500		83.3	39.3-110			
Aniline	798	100	"	1670		47.8	10-110			
Anthracene	1250	100	"	1500		83.3	41.8-110			
Benzoic acid	1390	500	"	1670		83.2	10-110			
Benz (a) anthracene	1270	100	"	1500		84.7	41.1-110			
Benzo (a) pyrene	1350	58.0	"	1500		90.0	43.7-117			
Benzo (b) fluoranthene	1520	100	"	1500		101	42.9-121			
Benzo (ghi) perylene	1720	100	"	1500		115	17.5-123			
Benzo (k) fluoranthene	1130	100	"	1500		75.3	40.6-124			
Benzyl alcohol	1220	100	"	1670		73.1	31.5-110			
Bis(2-chloroethoxy)methane	1230	100	"	1500		82.0	36.8-110			
Bis(2-chloroethyl)ether	1130	100	"	1500		75.3	21.3-110			
Bis(2-chloroisopropyl)ether	1060	100	"	1500		70.7	14.7-120			
Bis(2-ethylhexyl)phthalate	1370	330	"	1500		91.3	29.2-162			
4-Bromophenyl phenyl ether	1410	100	"	1500		94.0	42.6-110			
Butyl benzyl phthalate	1230	100	"	1500		82.0	16.3-191			
4-Chloroaniline	418	100	"	1670		25.0	10-110			
4-Chloro-3-methylphenol	1310	100	"	1670		78.4	34.3-110			
2-Chloronaphthalene	1240	100	"	1500		82.7	38.3-110			
2-Chlorophenol	1160	100	"	1670		69.5	19.5-110			
4-Chlorophenyl phenyl ether	1330	100	"	1500		88.7	42.4-122			
Chrysene	1330	100	"	1500		88.7	12.2-121			
Dibenz (a,h) anthracene	1610	58.0	"	1500		107	19-144			
Dibenzofuran	1300	100	"	1670		77.8	36-118			
1,2-Dichlorobenzene	1120	100	"	1500		74.7	28.8-110			
1,3-Dichlorobenzene	1130	100	"	1500		75.3	33.5-110			
1,4-Dichlorobenzene	1180	100	"	1500		78.7	37.2-110			
3,3'-Dichlorobenzidine	864	500	"	1670		51.7	10-110			
2,4-Dichlorophenol	1330	100	"	1670		79.6	33.4-110			
Diethyl phthalate	1210	100	"	1500		80.7	44.8-110			
2,4-Dimethylphenol	1200	100	"	1670		71.9	27.9-110			

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rnsey	Project: Willow Glen Golf Course	
3555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3010232 - EPA 3550B										
LCS (3010232-BS1)				Prepared: 01/15/03 Analyzed: 01/20/03						
Dimethyl phthalate	1250	100	"	1500		83.3	41.8-110			
Di-n-butyl phthalate	1300	330	"	1500		86.7	44.7-110			
4,6-Dinitro-2-methylphenol	1510	500	"	1670		90.4	10-110			
2,4-Dinitrophenol	1660	500	"	1670		99.4	10-110			
2,4-Dinitrotoluene	1270	100	"	1500		84.7	46.5-110			
2,6-Dinitrotoluene	1320	100	"	1500		88.0	44.8-110			
Di-n-octyl phthalate	1480	100	"	1500		98.7	21.4-130			
Fluoranthene	1320	100	"	1500		88.0	30.6-116			
Fluorene	1310	100	"	1500		87.3	44.7-112			
Hexachlorobenzene	1360	100	"	1500		90.7	46.8-110			
Hexachlorobutadiene	1290	100	"	1500		86.0	39.7-110			
Hexachlorocyclopentadiene	1340	100	"	1500		89.3	11.3-110			
achloroethane	1100	100	"	1500		73.3	40.8-110			
no (1,2,3-cd) pyrene	1690	100	"	1500		113	10-166			
Isophorone	1080	100	"	1500		72.0	31.4-110			
2-Methylnaphthalene	1230	100	"	1670		73.7	35.2-113			
o-Cresol	1260	100	"	1670		75.4	33.3-110			
m,p-Cresols	1250	100	"	1670		74.9	34.4-110			
Naphthalene	1210	100	"	1500		80.7	35.6-110			
2-Nitroaniline	1310	500	"	1670		78.4	42.6-111			
3-Nitroaniline	819	500	"	1670		49.0	31.3-110			
4-Nitroaniline	1250	500	"	1670		74.9	34.8-110			
Nitrobenzene	1240	100	"	1500		82.7	37.4-110			
2-Nitrophenol	1270	100	"	1670		76.0	30.2-110			
4-Nitrophenol	1430	500	"	1670		85.6	18.7-115			
N-Nitrosodi-n-propylamine	994	100	"	1500		66.3	25.8-121			
N-Nitrosodiphenylamine	1220	100	"	1500		81.3	42.6-110			
Pentachlorophenol	1310	500	"	1670		78.4	10-110			
Phenanthrene	1290	100	"	1500		86.0	44.4-110			
Phenol	1180	100	"	1670		70.7	28-110			
Pyrene	1350	100	"	1500		90.0	10-207			
1,2,4-Trichlorobenzene	1220	100	"	1500		81.3	37.9-110			
2,4,5-Trichlorophenol	1420	500	"	1670		85.0	24.8-110			
2,4,6-Trichlorophenol	1400	100	"	1670		83.8	28.9-113			
Surrogate: 2-Fluorophenol	*1830*		"	*3330*		*55.0*	*10.2-110*			

reat Lakes Analytical--Buffalo Grove

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rnsey	Project: Willow Glen Golf Course	
355 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3010232 - EPA 3550B										
LCS (3010232-BS1)				Prepared: 01/15/03 Analyzed: 01/20/03						
Surrogate: Phenol-d6	*1880*		*ug/kg wet*	*3330*		*56.5*	*11.1-110*			
Surrogate: Nitrobenzene-d5	*937*		"	*1670*		*56.1*	*10-110*			
Surrogate: 2-Fluorobiphenyl	*950*		"	*1670*		*56.9*	*10-110*			
Surrogate: 2,4,6-Tribromophenol	*2130*		"	*3330*		*64.0*	*18.3-110*			
Surrogate: p-Terphenyl-d14	*938*		"	*1670*		*56.2*	*32.5-143*			
Matrix Spike (3010232-MS1)		**Source: B301150-02**		Prepared: 01/15/03 Analyzed: 01/20/03						
Acenaphthene	1080	114	ug/kg dry	1710	ND	63.2	26.9-111			
Acenaphthylene	1060	114	"	1710	ND	62.0	29.5-110			
Aniline	741	114	"	1900	ND	39.0	10-110			
Anthracene	1210	114	"	1710	ND	70.8	25.7-110			
Benzoic acid	638	569	"	1900	ND	33.6	10-110			
Benz (a) anthracene	1200	114	"	1710	ND	70.2	22.7-114			
o (a) pyrene	1210	66.0	"	1710	ND	70.8	23.9-119			
zo (b) fluoranthene	1300	114	"	1710	ND	76.0	24.1-115			
Benzo (ghi) perylene	1640	114	"	1710	ND	95.9	10-236			
Benzo (k) fluoranthene	966	114	"	1710	ND	56.5	17.9-125			
Benzyl alcohol	1050	114	"	1900	ND	55.3	28.4-110			
Bis(2-chloroethoxy)methane	1010	114	"	1710	ND	59.1	25-110			
Bis(2-chloroethyl)ether	931	114	"	1710	ND	54.4	23-110			
Bis(2-chloroisopropyl)ether	845	114	"	1710	ND	49.4	16.4-110			
Bis(2-ethylhexyl)phthalate	1550	376	"	1710	157	81.5	30.4-157			
4-Bromophenyl phenyl ether	1320	114	"	1710	ND	77.2	23-119			
Butyl benzyl phthalate	1200	114	"	1710	ND	70.2	21.2-181			
4-Chloroaniline	746	114	"	1900	ND	39.3	10-110			
4-Chloro-3-methylphenol	1200	114	"	1900	ND	63.2	31.9-112			
2-Chloronaphthalene	999	114	"	1710	ND	58.4	29.1-110			
2-Chlorophenol	896	114	"	1900	ND	47.2	22.9-110			
4-Chlorophenyl phenyl ether	1190	114	"	1710	ND	69.6	15.5-135			
Chrysene	1270	114	"	1710	ND	74.3	10-143			
Dibenz (a,h) anthracene	1550	66.0	"	1710	ND	90.6	10-151			
Dibenzofuran	1160	114	"	1900	ND	61.1	10-134			
1,2-Dichlorobenzene	813	114	"	1710	ND	47.5	19.5-110			
1,3-Dichlorobenzene	801	114	"	1710	ND	46.8	26.7-110			
1,4-Dichlorobenzene	847	114	"	1710	ND	49.5	23.8-110			
3,3'-Dichlorobenzidine	1090	569	"	1900	ND	57.4	10-110			

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3355 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3010232 - EPA 3550B										
Matrix Spike (3010232-MS1)	**Source: B301150-02**		Prepared: 01/15/03 Analyzed: 01/20/03							
2,4-Dichlorophenol	1030	114	ug/kg dry	1900	ND	54.2	27.3-110			
Diethyl phthalate	1210	114	"	1710	ND	70.8	34.5-110			
2,4-Dimethylphenol	984	114	"	1900	ND	51.8	26.3-110			
Dimethyl phthalate	1240	114	"	1710	ND	72.5	34.9-110			
Di-n-butyl phthalate	1250	376	"	1710	ND	73.1	31.2-110			
4,6-Dinitro-2-methylphenol	1460	569	"	1900	ND	76.8	10-124			
2,4-Dinitrophenol	1290	569	"	1900	ND	67.9	10-110			
2,4-Dinitrotoluene	1260	114	"	1710	ND	73.7	35.8-110			
2,6-Dinitrotoluene	1300	114	"	1710	ND	76.0	33-111			
Di-n-octyl phthalate	1380	114	"	1710	ND	80.7	10-123			
Fluoranthene	1180	114	"	1710	ND	69.0	10-124			
Fluorene	1210	114	"	1710	ND	70.8	29.8-118			
ıchlorobenzene	1240	114	"	1710	ND	72.5	24.9-110			
.achlorobutadiene	858	114	"	1710	ND	50.2	17.2-110			
Hexachlorocyclopentadiene	766	114	"	1710	ND	44.8	10-110			
Hexachloroethane	766	114	"	1710	ND	44.8	18.3-110			
Indeno (1,2,3-cd) pyrene	1600	114	"	1710	ND	93.6	10-196			
Isophorone	922	114	"	1710	ND	53.9	24.6-110			
2-Methylnaphthalene	953	114	"	1900	ND	50.2	10-127			
o-Cresol	1030	114	"	1900	ND	54.2	25.5-110			
m,p-Cresols	1040	114	"	1900	ND	54.7	22.8-114			
Naphthalene	905	114	"	1710	ND	52.9	14.6-110			
2-Nitroaniline	1340	569	"	1900	ND	70.5	31.5-118			
3-Nitroaniline	1100	569	"	1900	ND	57.9	24.7-110			
4-Nitroaniline	1320	569	"	1900	ND	69.5	22.8-112			
Nitrobenzene	977	114	"	1710	ND	57.1	19.3-110			
2-Nitrophenol	1040	114	"	1900	ND	54.7	22.8-110			
4-Nitrophenol	1380	569	"	1900	ND	72.6	10.6-131			
N-Nitrosodi-n-propylamine	859	114	"	1710	ND	50.2	20.1-121			
N-Nitrosodiphenylamine	1250	114	"	1710	ND	73.1	35.3-110			
Pentachlorophenol	1020	569	"	1900	ND	53.7	14.5-110			
Phenanthrene	1240	114	"	1710	ND	72.5	34.7-110			
Phenol	989	114	"	1900	ND	52.1	27.3-110			
Pyrene	1350	114	"	1710	ND	78.9	10-212			
1,2,4-Trichlorobenzene	857	114	"	1710	ND	50.1	26.1-110			

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;rnsey	Project: Willow Glen Golf Course	
3555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3010232 - EPA 3550B										
Matrix Spike (3010232-MS1)		**Source: B301150-02**		Prepared: 01/15/03		Analyzed: 01/20/03				
2,4,5-Trichlorophenol	1200	569	ug/kg dry	1900	ND	63.2	15.9-118			
2,4,6-Trichlorophenol	1190	114	"	1900	ND	62.6	17.5-120			
Surrogate: 2-Fluorophenol	*1360*		"	*3800*		*35.8*	*10.2-110*			
Surrogate: Phenol-d6	*1490*		"	*3800*		*39.2*	*11.1-110*			
Surrogate: Nitrobenzene-d5	*692*		"	*1900*		*36.4*	*10-110*			
Surrogate: 2-Fluorobiphenyl	*631*		"	*1900*		*33.2*	*10-110*			
Surrogate: 2,4,6-Tribromophenol	*1600*		"	*3800*		*42.1*	*18.3-110*			
Surrogate: p-Terphenyl-d14	*833*		"	*1900*		*43.8*	*32.5-143*			
Matrix Spike Dup (3010232-MSD1)		**Source: B301150-02**		Prepared: 01/15/03		Analyzed: 01/20/03				
Acenaphthene	1320	114	ug/kg dry	1710	ND	77.2	26.9-111	20.0	41.6	
Acenaphthylene	1310	114	"	1710	ND	76.6	29.5-110	21.1	41.3	
Aniline	1010	114	"	1890	ND	53.4	10-110	30.7	59.6	
racene	1340	114	"	1710	ND	78.4	25.7-110	10.2	43.3	
.zoic acid	1020	569	"	1890	ND	54.0	10-110	46.1	53.4	
Benz (a) anthracene	1330	114	"	1710	ND	77.8	22.7-114	10.3	55.9	
Benzo (a) pyrene	1380	66.0	"	1710	ND	80.7	23.9-119	13.1	49.3	
Benzo (b) fluoranthene	1610	114	"	1710	ND	94.2	24.1-115	21.3	62.2	
Benzo (ghi) perylene	1770	114	"	1710	ND	104	10-236	7.62	64.5	
Benzo (k) fluoranthene	1110	114	"	1710	ND	64.9	17.9-125	13.9	54.3	
Benzyl alcohol	1380	114	"	1890	ND	73.0	28.4-110	27.2	46	
Bis(2-chloroethoxy)methane	1350	114	"	1710	ND	78.9	25-110	28.8	50.6	
Bis(2-chloroethyl)ether	1260	114	"	1710	ND	73.7	23-110	30.0	45.6	
Bis(2-chloroisopropyl)ether	1170	114	"	1710	ND	68.4	16.4-110	32.3	46.5	
Bis(2-ethylhexyl)phthalate	1570	376	"	1710	157	82.6	30.4-157	1.28	46.2	
4-Bromophenyl phenyl ether	1480	114	"	1710	ND	86.5	23-119	11.4	40.2	
Butyl benzyl phthalate	1330	114	"	1710	ND	77.8	21.2-181	10.3	38.5	
4-Chloroaniline	784	114	"	1890	ND	41.5	10-110	4.97	42	
4-Chloro-3-methylphenol	1370	114	"	1890	ND	72.5	31.9-112	13.2	41.8	
2-Chloronaphthalene	1300	114	"	1710	ND	76.0	29.1-110	26.2	44.7	
2-Chlorophenol	1270	114	"	1890	ND	67.2	22.9-110	34.5	48.6	
4-Chlorophenyl phenyl ether	1390	114	"	1710	ND	81.3	15.5-135	15.5	46.4	
Chrysene	1410	114	"	1710	ND	82.5	10-143	10.4	53.1	
Dibenz (a,h) anthracene	1730	66.0	"	1710	ND	101	10-151	11.0	53.6	
Dibenzofuran	1370	114	"	1890	ND	72.5	10-134	16.6	39.5	
1,2-Dichlorobenzene	1200	114	"	1710	ND	70.2	19.5-110	38.5	43.6	

reat Lakes Analytical--Buffalo Grove

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Andy Johnson

Andy Johnson, Project Manager

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:rnsey	Project: Willow Glen Golf Course	
5555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3010232 - EPA 3550B										
Matrix Spike Dup (3010232-MSD1)	**Source: B301150-02**			Prepared: 01/15/03 Analyzed: 01/20/03						
1,3-Dichlorobenzene	1200	114	ug/kg dry	1710	ND	70.2	26.7-110	39.9	47.7	
1,4-Dichlorobenzene	1260	114	"	1710	ND	73.7	23.8-110	39.2	58.8	
3,3'-Dichlorobenzidine	1090	569	"	1890	ND	57.7	10-110	0.00	52.8	
2,4-Dichlorophenol	1390	114	"	1890	ND	73.5	27.3-110	29.8	52.8	
Diethyl phthalate	1310	114	"	1710	ND	76.6	34.5-110	7.94	38.6	
2,4-Dimethylphenol	1280	114	"	1890	ND	67.7	26.3-110	26.1	73.9	
Dimethyl phthalate	1350	114	"	1710	ND	78.9	34.9-110	8.49	38.7	
Di-n-butyl phthalate	1380	376	"	1710	ND	80.7	31.2-110	9.89	38.6	
4,6-Dinitro-2-methylphenol	1600	569	"	1890	ND	84.7	10-124	9.15	57.1	
2,4-Dinitrophenol	1520	569	"	1890	ND	80.4	10-110	16.4	28.6	
2,4-Dinitrotoluene	1360	114	"	1710	ND	79.5	35.8-110	7.63	34.5	
2,6-Dinitrotoluene	1420	114	"	1710	ND	83.0	33-111	8.82	39.5	
-octyl phthalate	1560	114	"	1710	ND	91.2	10-123	12.2	61.7	
,ranthene	1310	114	"	1710	ND	76.6	10-124	10.4	38.5	
Fluorene	1390	114	"	1710	ND	81.3	29.8-118	13.8	42	
Hexachlorobenzene	1410	114	"	1710	ND	82.5	24.9-110	12.8	54.4	
Hexachlorobutadiene	1310	114	"	1710	ND	76.6	17.2-110	41.7	58.9	
Hexachlorocyclopentadiene	1200	114	"	1710	ND	70.2	10-110	44.2	62.8	
Hexachloroethane	1150	114	"	1710	ND	67.3	18.3-110	40.1	62.6	
Indeno (1,2,3-cd) pyrene	1740	114	"	1710	ND	102	10-196	8.38	67.4	
Isophorone	1180	114	"	1710	ND	69.0	24.6-110	24.5	52.1	
2-Methylnaphthalene	1270	114	"	1890	ND	67.2	10-127	28.5	51	
o-Cresol	1400	114	"	1890	ND	74.1	25.5-110	30.5	65	
m,p-Cresols	1380	114	"	1890	ND	73.0	22.8-114	28.1	62.1	
Naphthalene	1280	114	"	1710	ND	74.9	14.6-110	34.3	49.3	
2-Nitroaniline	1470	569	"	1890	ND	77.8	31.5-118	9.25	38.9	
3-Nitroaniline	1090	569	"	1890	ND	57.7	24.7-110	0.913	32.8	
4-Nitroaniline	1390	569	"	1890	ND	73.5	22.8-112	5.17	40.4	
Nitrobenzene	1350	114	"	1710	ND	78.9	19.3-110	32.1	58.6	
2-Nitrophenol	1390	114	"	1890	ND	73.5	22.8-110	28.8	47.9	
4-Nitrophenol	1450	569	"	1890	ND	76.7	10.6-131	4.95	48.4	
N-Nitrosodi-n-propylamine	1100	114	"	1710	ND	64.3	20.1-121	24.6	49.1	
N-Nitrosodiphenylamine	1370	114	"	1710	ND	80.1	35.3-110	9.16	43.5	
Pentachlorophenol	1200	569	"	1890	ND	63.5	14.5-110	16.2	53.9	
Phenanthrene	1370	114	"	1710	ND	80.1	34.7-110	9.96	41.5	

:eat Lakes Analytical--Buffalo Grove

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ɛrnsey	Project: Willow Glen Golf Course	
ɔ555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3010232 - EPA 3550B										
Matrix Spike Dup (3010232-MSD1)	**Source: B301150-02**			Prepared: 01/15/03		Analyzed: 01/20/03				
Phenol	1310	114	ug/kg dry	1890	ND	69.3	27.3-110	27.9	50.8	
Pyrene	1490	114	"	1710	ND	87.1	10-212	9.86	59.7	
1,2,4-Trichlorobenzene	1270	114	"	1710	ND	74.3	26.1-110	38.8	51	
2,4,5-Trichlorophenol	1460	569	"	1890	ND	77.2	15.9-118	19.5	44.8	
2,4,6-Trichlorophenol	1470	114	"	1890	ND	77.8	17.5-120	21.1	46.6	
Surrogate: 2-Fluorophenol	*1920*		"	*3780*		*50.8*	*10.2-110*			
Surrogate: Phenol-d6	*1990*		"	*3780*		*52.6*	*11.1-110*			
Surrogate: Nitrobenzene-d5	*953*		"	*1890*		*50.4*	*10-110*			
Surrogate: 2-Fluorobiphenyl	*805*		"	*1890*		*42.6*	*10-110*			
Surrogate: 2,4,6-Tribromophenol	*1810*		"	*3780*		*47.9*	*18.3-110*			
Surrogate: p-Terphenyl-d14	*876*		"	*1890*		*46.3*	*32.5-143*			

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ernsey
5555 N. Grand Blvd.
Oklahoma City OK, 73112

Project: Willow Glen Golf Course
Project Number: N/A
Project Manager: Carey Miller

Reported:
01/23/03 15:57

Percent Solids - Quality Control
Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3010246 - General Prep										
Blank (3010246-BLK1)				Prepared: 01/16/03 Analyzed: 01/17/03						
% Solids	ND	0.0100	%							
Blank (3010246-BLK2)				Prepared: 01/16/03 Analyzed: 01/17/03						
% Solids	0.298	0.0100	%							
Blank (3010246-BLK3)				Prepared: 01/16/03 Analyzed: 01/17/03						
% Solids	ND	0.0100	%							
Blank (3010246-BLK4)				Prepared: 01/16/03 Analyzed: 01/17/03						
% Solids	ND	0.0100	%							
Duplicate (3010246-DUP1)				Prepared: 01/16/03 Analyzed: 01/17/03						
% Solids	86.2	0.0100	%						20	
Duplicate (3010246-DUP2)				Prepared: 01/16/03 Analyzed: 01/17/03						
olids	87.8	0.0100	%						20	
Duplicate (3010246-DUP3)				Prepared: 01/16/03 Analyzed: 01/17/03						
% Solids	63.9	0.0100	%						20	
Duplicate (3010246-DUP4)				Prepared: 01/16/03 Analyzed: 01/17/03						
% Solids	81.8	0.0100	%						20	

reat Lakes Analytical--Buffalo Grove

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ɐrnsey	Project: Willow Glen Golf Course	
ɔ555 N. Grand Blvd.	Project Number: N/A	**Reported:**
Oklahoma City OK, 73112	Project Manager: Carey Miller	01/23/03 15:57

Notes and Definitions

O2	One or more internal standard recoveries were below the method specified acceptance criteria.
QC	The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
L	This quality control measurement is below the laboratory established limit.
H	This quality control measurement is above the laboratory established limit.

Great Lakes Analytical--Buffalo Grove Wisconsin DNR Certification Lab ID: 999917160

Great Lakes Analytical--Buffalo Grove NELAP Primary Accreditation: Illinois #10026

Great Lakes Analytical--Buffalo Grove NELAP Secondary Accreditation: New Jersey #IL001

reat Lakes Analytical--Oak Creek, WI Wisconsin DNR Certification Lab ID: 341000330

reat Lakes Analytical--Buffalo Grove

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GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

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Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

Client: Guernsey
Address: 5555 N Grand Blvd
OKC, OK 73112
Report to: Carey Miller | Phone #: (405) 416-8323
E-mail: Carey.miller@ch[illegible]com | Fax #: (405) 416-8114

Bill To: Same
Address:
State & Program:
Phone #: ( ) Fax #: ( )

TAT: (STD) 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
☐ YES - TAT is critical
☐ NO - TAT is not critical
DATE RESULTS NEEDED:
Received: ☑ Ice ☐ ambient ☐ refrigerator
Temp. Upon Receipt: 1.9°C
Deliverable Package: ☐ STD ☐ Other
Delivery Method: GLA ☐ Client ☑ Shipped ☐ Courier ☐

Project Name: Willow Glen Golf Course
Project #/PO#:
Sampler: Carey Miller

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used: MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	DO NOT DRY-WEIGHT CORRECT RESULTS	SAMPLES FIELD FILTERED ☐YES ☐NO	ANALYSIS TYPE: VOCs	SVOCs	RCRA 8 metals	SAMPLE CONTROL: CRACKED-BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1	SB-4 PID:	1-14-03	9:30	Soil								2			X	X	X			B301154-01
2	SB-4 PID:	1-14-03	9:30	Soil								1			X	X	X			EY~~02~~
3	SB-15 PID:	1-14-03	10:55	Soil								3			X	X	X			EY~~03~~ C
4	SB-22 PID:	1-14-03	12:22	Soil								3			X	X	X			EY~~04~~ 0
5	SB-28 PID:	1-14-03	1:50	Soil								3			X	X	X			EY~~05~~ 0
6	SB-41 PID:	1-15-03	9:17	Soil								3			X	X	X			EY~~06~~ 0
7	PID:																			
8	PID:																			
9	PID:																			
10	PID:																			

RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME
Angela Riddle	1-15-03 10:17	[signature]	1-15-03 1017				
RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME

COMMENTS: