# A D V E N T

## Environmental Services, Inc.

# Soil Sampling Report

# Ino Landspreading Site #1

Susienka Road, Keystone Township, Wisconsin Bayfield County

Advent Project No. 200044.01

**Prepared for:** NorthStar Environmental Construction Chetek, Wisconsin

July 2000

July 7, 2000

Fran Siemers NorthStar Environmental Construction P.O. Box 675 Chetek, WI 54728-0675

Re: Soil Sampling Report, Ino Landspreading Site #1, Susienka Road, Keystone Township, Bayfield County, Wisconsin. Advent Project No. 200044.01.

Dear Fran:

I have enclosed the soil sampling report for the Ino Landspreading Site #1, Susienka Road, Township of Keystone, Bayfield County, Wisconsin. We recommend no additional testing or remediation at these sites.

Results of the soil sampling indicate that petroleum contamination has been remediated to levels below the Wisconsin Department of Natural Resources' (WDNR's) generic residual contaminant levels (RCLs) as outlined in NR 720.09 (4).

If you have any questions, you can reach me at 715-831-1530.

Sincerely,

Michael K. Neal, Professional Hydrologist Geomorphologist – Eau Claire Office

Enclosure

Advent Environmental Services, Inc.

P.O. Box 277 Mequon, WI 53092-0277 Fax 414-371-5021 1-800-880-1998 414-371-5020 5110 Fairview Dr., Suite A Eau Claire, WI 54701 Fax 715-831-1531 1-800-530-1520 715-831-1530

# Soil Sampling Report

### Ino Landspreading Site#1 Susienka Road, Keystone Township, Bayfield County, Wisconsin

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

1: chut Date: 100

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

DUMIN Date: MICHELLE L ম্ব FREIND annual anna a'

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### **EXECUTIVE SUMMARY**

Advent Environmental Services, Inc., has completed soil sampling for the Ino Landspreading Site #1 at Susienka Road, Keystone Township, Bayfield County, Wisconsin, and we recommend no additional testing or remediation at these sites. The low contaminant levels of petroleum volatile organic compounds (PVOCs), gasoline range organics (GROs), and diesel range organics (DROs) in the soil will not leach and cause groundwater contamination to exceed the NR 140 enforcement standard (ES). The low contaminant levels do not represent a health hazard by direct contact.

Landspreading and bioremediation has successfully remediated the soil to levels below Wisconsin Department of Natural Resources (WDNR) NR 720 generic residual contaminant levels (RCLs). Laboratory analyses of soil samples collected from the site confirm that all of the soil with PVOCs concentrations above their generic RCLs, and GROs, and DROs above the 250 parts per million (ppm) limit have been remediated.

NorthStar Environmental Construction contracted Advent to collect closure samples documenting the remediation of petroleum-contaminated soil by single application landspreading and bioremediation. These soils were previously stockpiled at the former Clean Soils thermal remediation site in Ino, Wisconsin. We conducted this soil sampling for remediation on May 18, 19, and 25, 2000.

### Site Remediation

# Purpose and Scope of Services

NorthStar Environmental Construction (715-237-3005) contracted Advent to collect closure samples at the Ino Landspreading Site #1, Susienka Road, Keystone Township, Bayfield County, Wisconsin (SW¼, NW¼, Sec. 25, T.47N., R.7W.), to document soil remediation by landspreading and bioremediation. (See Figure 1.)

At Site #1, approximately 4,000 tons of petroleum-contaminated soils were originally excavated from the Quearm Oil facility, 105 W. Sixth Street, Ashland, WI. Soils from the site were transported and stockpiled at the former CleanSoils thermal treatment facility in Ino, WI. NorthStar Environmental obtained written approval from the Wisconsin Department of Natural Resources (WDNR) to landspread this material.

Soils were landspread at a site owned by Margaret Hieb, Route 2, Box 199, Mason, WI 54856. On Site #1, approximately 4,000 tons of contaminated soil were spread over 5.5 acres. The site is east of Hieb Farm buildings. See Figure 2 for site features and soil sample locations.

Advent performed the following services on May 18, 19, and 25, 2000:

- Field screened and collected samples from the landspread soil to document by laboratory analysis the concentrations of petroleum constituents in the material
- Evaluated and interpreted field and laboratory data and prepared a closure report.





# Soil Testing Methods

### Sample Collection Methods

The site was divided into equal grid sectors. Approximately one soil sample was collected for every 100 cubic yards of contaminated soil landspread. Two samples were obtained from each sampling point, one from the treatment zone, which was 0-1 feet below ground surface (bgs), and one from 2 to 3 feet bgs.

At Site #1, there were 30 sample locations. Soil samples were field screened to reduce the number of samples to be analyzed. Fifty percent of the samples were submitted for laboratory analysis and of these, 25% came from samples collected from 2 to 3 feet bgs. Each sample was analyzed for gasoline range organics (GROs), diesel range organics (DROs), and petroleum volatile organic compounds (PVOCs) to confirm contaminated soil treatment.

### Field Screening Methods

We field screened each soil sample with a calibrated photoionization detector (PID – HNU model PI 101, 11.7 eV lamp) using the headspace method and results were reported as instrument units (IUs).

Appendix A includes the procedures followed for collecting and field screening soil samples and for maintaining sample security, identification, integrity, and chain of custody procedures.

### Laboratory Analysis of Soil Methods

Great Lakes Analytical of Oak Creek, Wisconsin (WI Certification #341000330), analyzed the soil samples collected at the Ino Landspreading Site #1 for GROs (WDNR Modified GRO method), DROs (WDNR Modified DRO method), and PVOCs (EPA method 5030/8021). The analytical methods used are approved by the WDNR and outlined in the most recent "LUST and Petroleum Analytical and Quality Assurance Guidance" and Wisconsin Administrative Code Chapter NR 700. Each analytical method follows specific quality control (QC) criteria listed in the "LUST Quality Assurance Plan," also published by the WDNR. This includes the selection and calibration of appropriate instruments and the use of QC samples. Daily performance tests and the demonstration of precision and accuracy in the laboratory are required for certification.

See Appendix B for soil sample chain of custody documentation and laboratory results.

# Soil Testing Results

### **Field Screening**

Field screening of soil samples produced PID responses ranging from less than 1 IU to 10 IUs. Table 1 represents the field screening data for the site.

### Laboratory Analyses

None of the soil samples collected from Site #1 had GRO, DRO, or PVOC concentrations exceeding the NR 720 generic RCLs. Figure 2 illustrates sampling locations and site features. Table 2 presents the analytical results of samples from the site.

Appendix B presents copies of laboratory data reports.

TABLE 1 (page 1 of 2) FIELD SCREENING RESULTS - SOIL INO LANDSPREADING SITE #1, INO, WISCONSIN							
Sample	Depth	PID					
S-1A	0-1	< 1					
S-1B	2-3	< 1					
S-2A	0-1	< 1					
S-2B	2-3	< 1					
S-3A	0-1	< 1					
S-3B	2-3	< 1					
S-4A	0-1	< 1					
S-4B	2-3	<1					
S-5A	0-1	< 1					
S-5B	2-3	< 1					
S-6A	0-1	< 1					
S-6B	2-3	< 1					
S-7A	0-1	< 1					
S-7B	2-3	< 1					
S-8A	0-1	< 1					
S-8B	2-3	< 1					
S-9A	0-1	10					
S-9B	2-3	< 1					
S-10A	0-1	< 1					
S-10B	2-3	< 1					
S-11A	0-1	< 1					
S-11B	2-3	< 1					
S-12A	0-1	< 1					
S-12B	2-3	< 1					
S-13A	0-1	< 1					
S-13B	2-3	< 1					
S-14A	0-1	<1					
S-14B	2-3	< 1					
S-15A	0-1	< 1					
S-15B	2-3	<1					

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TABLE 1 (page 2 of 2) FIELD SCREENING RESULTS - SOIL								
INO LANDSPREADING SITE #1, INO, WISCONSIN								
Sample	Depth	PID						
S-16A	0-1	< 1						
S-16B	2-3	< 1						
S-17A	0-1	< 1						
S-17B	2-3	< 1						
S-18A	0-1	< 1						
S-18B	2-3	< 1						
S-19A	0-1	< 1						
S-19B	2-3	< 1						
S-20A	0-1	< 1						
S-20B	2-3	< 1						
S-21A	0-1	<1						
S-21B	2-3	<1						
S-22A	0-1	< 1						
S-22B	2-3	<1						
S-23A	0-1	< 1						
S-23B	2-3	< 1						
S-24A	0-1	< 1						
S-24B	2-3	< 1						
S-25A	0-1	< 1						
S-25B	2-3	< 1						
S-26A	0-1	5						
S-26B	2-3	< 1						
S-27A	0-1	< 1						
S-27B	2-3	< 1						
S-28A	0-1	<1						
S-28B	2-3	< 1						
S-29A	0-1	<1						
S-29B	2-3	<1						
S-30A	0-1	<1						
S-30B	2-3	< 1						

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		AN/		TABLE 2 (pa ESULTS - SC	age 1 of 2) DIL - CLOSUI		5						
		Samples											
	NR 720 RCLs	S-2B	S-3A	S-6B	S-8A	S-9A	S-10B	S-12A	MEOH BLANK #1				
Depth (feet)		2-3	0-1	2-3	0-1	0-1	2-3	0-1					
PID (Instrument units)		< 1	<1	< 1	< 1	10	< 1	< 1					
GROs (ppm)	250	ND	ND	ND	ND	6.07	ND	ND	ND				
DROs (ppm)	250	ND	ND	11.9	ND	115 3	ND	ND					
PVOCs (ppb)	Intagon	Chyloca	R OK		-	X							
Benzene	25 <sup>1</sup>	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25				
Ethylbenzene	2,900	< 25	< 25	< 25	< 25	71.6	< 25	< 25	< 25				
MTBE		< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25				
Toluene	1,500	< 25	< 25	< 25	< 25	296	< 25	< 25	< 25				
1,2,4-TMB		< 25	< 25	< 25	< 25	143	< 25	< 25	< 25				
1,3,5-TMB		< 25	< 25	< 25	< 25	89	< 25	< 25	< 25				
Total Xylenes	4,100	< 25	< 25	< 25	< 25	427	< 25	< 25	< 25				

TMB = trimethylbenzene

MTBE = methyl-tert-butyl-ether

ND = not detected

<sup>1</sup> Laboratory detection limit exceeds case closeout limit due to methanol preservation.

# TABLE 2 (page 2 of 2)ANALYTICAL RESULTS - SOIL - CLOSURE SAMPLESINO LANDSPREADING SITE #1, INO, WISCONSIN

	NR 720 RCLs					Samples				
		S-14A	S-16B	S-19A	S-22A	S-23B	S-26A	S-28A	S-29B	MEOH BLANK #2
Depth (feet)		0-1	2-3	0-1	0-1	2-3	0-1	0-1	2-3	
PID (Instrument units)		< 1	<1	< 1	< 1	< 1	5	< 1	< 1	
GROs (ppm)	250	ND -	ND	ND	ND	ND	ND	ND	ND	ND
DROs (ppm)	250	6.77	10.6	14.4	15.3	15	12.8	8.98	8.88	
PVOCs (ppb)	······································		<u> </u>	•	· · · · · · · · · · · · · · · · · · ·					
Benzene	25 <sup>1</sup>	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Ethylbenzene	2,900	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
MTBE		< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Toluene	1,500	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,2,4-TMB		< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,3,5-TMB		< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Total Xylenes	4,100	< 25	< 25	< 25	< 25	40.8	< 25	< 25	< 25	< 25

TMB = trimethylbenzene

MTBE = methyl-tert-butyl-ether

ND = not detected

<sup>1</sup> Laboratory detection limit exceeds case closeout limit due to methanol preservation.

# Conclusions and Recommendations

### Conclusions

Landspreading and bioremediation has successfully remediated petroleum-contaminated soil at the site to levels below the WDNR NR 720 generic RCLs. Based on the remaining low GRO, DRO, and PVOC levels, the soil will apparently not affect groundwater quality and does not pose a threat to health by direct contact.

### **Recommendations**

Advent recommends no further investigation or remediation at the site.

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### APPENDIX A

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Standard Sampling Procedures and Chain of Custody Procedures

### SAMPLING AND FIELD SCREENING PROCEDURES

### Soil Sampling Procedures

We collected subsurface soil samples with a hand auger. Adequate soil was collected and split into a sample for field screening and a sample for laboratory analysis, if needed. Soil collected from the hand auger was taken from the inside of a soil mass to prevent the collection of crosscontaminated soil that may have come in contact with the auger.

The following headspace methodologies were used for PID field screening of soil samples:

- 1. The PID was calibrated at the site according to the manufacturer's specifications before beginning field operations. Results of the calibration were recorded on a calibration log sheet.
- 2. Headspace samples were collected in clean glass jars.
- 3. The jars were half-filled and sealed with heavy-gauge aluminum foil immediately after sampling.
- 4. Once the headspace samples were sealed, the samples were agitated for at least 30 seconds to break up soil clods and release vapors.
- 5. After being agitated, the samples were placed out of direct sunlight and allowed to equilibrate to approximately  $70^{\circ}$  F.
- 6. Following equilibration, the headspace samples were analyzed by inserting the tip of the PID probe through a single, small hole in the foil seal to a position halfway between the seal and sample surface. The highest instrument reading was then recorded.

### Soil Samples Submitted for Laboratory Analysis

Soil samples submitted for laboratory analysis were collected as split samples from the same location as the samples for field screening. Soil samples submitted were transferred into the appropriate containers depending on the laboratory analysis needed.

ANALYTE	CONTAINER TYPE	FIELD PRESERVATIVE
DRO	2-oz. TLC* jar	none
GRO	2-oz. TLC jar	Methanol
PVOC	2-oz. TLC jar	Methanol

\*TLC = Teflon-lined cap

Samples were then sealed and cooled to 4°C for transport to the laboratory. All collected samples were labeled with the following information:

- Site name
- Sample number
- Collection date and time
- Requested analysis
- Other applicable information (e.g., PID readings, odors)

### Chain of Custody Procedures

This section describes procedures used for sample identification and chain of custody. The purpose of these procedures is to ensure security and integrity of the sample from collection through transportation, storage, and analysis.

Sample identification documents were carefully prepared so that sample identification and chain of custody were maintained and sample disposition was controlled. Sample identification documents included the following:

- Field notebooks
- Sample labels
- Chain of custody records

Each sample was labeled, chemically or physically preserved, and sealed immediately after collection. To minimize handling of sample containers, a label was filled out before sample collection. The sample label was completed using waterproof ink and then firmly affixed to the sample container. The sample label provided the following information:

- Sample number
- Sample location
- Collection time and date
- Required analysis
- Sampler name

Immediately following sample collection, the Advent sampler completed a chain of custody record in triplicate.

### Transfer of Custody Shipment

We packed the samples and chain of custody record in an ice-filled cooler. When transferring samples, the individuals relinquishing and receiving them signed, dated, and noted the time on the chain of custody record. This record documents sample custody.

### Laboratory Custody Procedures

A designated sample custodian accepted custody of the shipped samples and verified that the sample identification numbers matched those on the chain of custody record. The laboratory retained a copy of this record until analyses were complete. The record was then transferred to Advent and is maintained with the analytical results in the project file.

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### APPENDIX B

### Laboratory Results and Chain of Custody Documentation



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140 East Ryan Road Oak Creek, Wisconsin 53154 Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

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June 7, 2000

M. Neal Advent Environmental Services - Eau Claire 5110 Fairview Dr., Suite A Eau Claire, WI 54701

**RE: Ino Landspreading** 

Dear M. Neal

Enclosed are the results of analyses for sample(s) received by the laboratory on May 22, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Satal Patel Project Manager

WDNR Cert # 341000330



140 East Ryan Road Oak Creek, Wisconsin 53154

### Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Advent Environmental Services - Eau Claire	Project:	Ino Landspreading	 	Sampled:	5/19/00
5110 Fairview Dr., Suite A	Project Number:	200044.01		Received:	5/22/00
Eau Claire, WI 54701	Project Manager:	M. Neal	 	Reported:	6/7/00 10:15

### ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MeOH Blank #1	W005101-01	MeOH Blank	5/19/00
S-2B	W005101-02	Soil (WI)	5/19/00
S-3A	W005101-03	Soil (WI)	5/19/00
S-6B	W005101-04	Soil (WI)	5/19/00
S-8A	. W005101-05	Soil (WI)	5/19/00
S-9A	W005101-06	Soil (WI)	5/19/00
S-10B	W005101-07	Soil (WI)	5/19/00
S-12A	W005101-08	Soil (WI)	5/19/00
S-14A	W005101-09	Soil (WI)	5/19/00
S-16B	W005101-10	Soil (WI)	5/19/00
S-19A	W005101-11	Soil (WI)	5/19/00
S-22A	W005101-12	Soil (WI)	5/19/00
S-23B	W005101-13	Soil (WI)	5/19/00
S-26A	W005101-14	Soil (WI)	5/19/00
S-28A	W005101-15	Soil (WI)	5/19/00
S-29B	W005101-16	Soil (WI)	5/19/00
MeOH Blank #2	W005101-17	MeOH Blank	5/19/00

Great Lakes Analytical-Oak Creek

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.

Satal Patel, Project Manager



Advent Environmental Services - Eau	Project:	Ino Landsp	oreading		Sampled:	5/19/00			
5110 Fairview Dr., Suite A	Pro	ject Number:	200044.01			Received:	5/22/00		
Eau Claire, WI 54701	Proj	ect Manager:	M. Neal			Reported:	6/7/00 10:1	5	
Diesel Range Organics (DRO) by WDNR DRO Great Lakes AnalyticalOak Creek									
	Batch	Date	Date	Specific	Reporting			7	
Analyte	Number	Prepared	Analyzed	Method	Limit	Result	Units	Notes*	
<u>S-2B</u> Diesel Range Organics (DRO)	0050082	5/30/00	<u>W00510</u> 5/30/00	<u>01-02</u> WDNR DRO	6.16	ND	<u>Soil (WI)</u> mg/kg dry	<u>G4</u>	
<u>S-3A</u> Diesel Range Organics (DRO)	0050082	5/30/00	<u>W00510</u> 5/30/00	<u>01-03</u> WDNR DRO	7.01	ND	<u>Soil (WI)</u> mg/kg dry	<u>G4</u>	
<u>S-6B</u> Diesel Range Organics (DRO)	0050082	5/30/00	<u>W00510</u> 5/30/00	<u>01-04</u> WDNR DRO	6.26	11.9	<u>Soil (WI)</u> mg/kg dry	<u>G4</u> T10,T15 T6	
<u>S-8A</u> Diesel Range Organics (DRO)	0050082	5/30/00	<u>W00510</u> 5/30/00	<u>01-05</u> WDNR DRO	6.27	ND	<u>Soil (WI)</u> mg/kg dry	<u>G4</u>	
<u>S-9A</u> Diesel Range Organics (DRO)	0050082	5/30/00	<u>W0051</u> 5/30/00	<u>01-06</u> WDNR DRO	5.51	115	<u>Soil (WI)</u> mg/kg dry	<u>G4</u> T10,T11 T15	
<u>S-10B</u> Diesel Range Organics (DRO)	0050082	5/30/00	<u>W0051</u> 5/30/00	<u>01-07</u> WDNR DRO	6.36	ND	<u>Soil (WI)</u> mg/kg dry	<u>G4</u>	
<u>S-12A</u> Diesel Range Organics (DRO)	0050082	5/30/00	<u>W0051</u> 5/30/00	01-08 WDNR DRO	7.22	ND	<u>Soil (WI)</u> mg/kg dry	<u>G4</u>	
<u>S-14A</u> Diesel Range Organics (DRO)	0050082	5/30/00	<u>W0051</u> 5/30/00	<u>01-09</u> WDNR DRO	6.46	6.77	<u>Soil (WI)</u> mg/kg dry	<u>G4</u> T10,T15,T6	
<u>S-16B</u> Diesel Range Organics (DRO)	0050082	5/30/00	<u>W0051</u> 5/30/00	01-10 WDNR DRO	6.56	10.6	<u>Soil (WI)</u> mg/kg dry	<u>G4</u> T10,T15,T6	
<u>S-19A</u> Diesel Range Organics (DRO)	0050082	5/30/00	<u>W0051</u> 5/31/00	<u>01-11</u> WDNR DRO	5.89	14.4	<u>Soil (WI)</u> mg/kg dry	<u>G4</u> T10,T15,T6	
<u>S-22A</u> Diesel Range Organics (DRO)	0050082	5/30/00	<u>W0051</u> 5/30/00	<u>01-12</u> WDNR DRO	6.51	15.3	<u>Soil (WI)</u> mg/kg dry	<u>G4</u> T10,T15,T6	
<u>S-23B</u> Diesel Range Organics (DRO)	0050082	5/30/00	<u>W0051</u> 5/30/00	<u>01-13</u> WDNR DRO	6.47	15.0	<u>Soil (WI)</u> mg/kg dry	<u>G4</u> T10,T15,T6	
<u>S-26A</u> Diesel Range Organics (DRO)	0050082	5/30/00	<u>W0051</u> 5/30/00	01-14 WDNR DRO	6.11	12.8	<u>Soil (WI)</u> mg/kg dry	<u>G4</u> T10,T15,T6	

Great Lakes Analytical-Oak Creek

\*Refer to end of report for text of notes and definitions.

Satal Patel, Project Manager



140 East Ryan Road Oak Creek, Wisconsin 53154

### Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Advent Environmental Services - Eau Claire	Project:	Ino Landspreading	Sam	pled: 5/19/00
5110 Fairview Dr., Suite A	Project Number:	200044.01	Rece	ived: 5/22/00
Eau Claire, WI 54701	Project Manager:	M. Neal	Repc	rted: 6/7/00 10:15
	Diesel Range O Great Lal	Prganics (DRO) by W kes AnalyticalOak (	DNR DRO Ereek	
Batc	h Date	Date Specific	Reporting	

Analyte	Number	Prepared	Analyzed	Method	Limit	Result	Units	Notes*
<u>S-28A</u> Diesel Range Organics (DRO)	0050082	5/30/00	<u>W0051</u> 5/30/00	01-15 WDNR DRO	6.45	8.98	<u>Soil (WI)</u> mg/kg dry	<u>G4</u> T10,T15,T6
<u>S-29B</u> Diesel Range Organics (DRO)	0050082	5/30/00	<u>W0051</u> 5/30/00	<u>01-16</u> WDNR DRO	6.23	8.88	<u>Soil (WI)</u> mg/kg dry	<u>G4</u> T10,T15,T6

Great Lakes Analytical--Oak Creek

Batal Patel, Project Manager



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### Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

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Advent Environmental Services - Eau Claire	Project:	Ino Landspreading	Sampled: 5/19/00	٦
5110 Fairview Dr., Suite A	Project Number:	200044.01	Received: 5/22/00	
Eau Claire, WI 54701	Project Manager:	M. Neal	Reported: 6/7/00 10:15	

### Gasoline Range Organics (GRO) by WDNR GRO Great Lakes Analytical--Oak Creek

	Batch	Date	Date	Specific	Reporting			
Analyte	Number	Prepared	Analyzed	Method	Limit	Result	Units	Notes*
MeOH Blank #1 Gasoline Range Organics (GRO)	0060002	6/1/00	<u>W00510</u>	) <u>1-01</u> WDNR GRO	5.00	NΓ	<u>McOH Blank</u> mg/l	
Ousonne Kunge organies (orto)	0000002	0/1/00	0/1/00	n Drik Gito	5.00	ND	ing i	
<u>S-2B</u> Gasoline Range Organics (GRO)	0050087	5/30/00	<u>W00510</u> 6/1/00	) <u>1-02</u> WDNR GRO	6.16	ND	<u>Soil (WI)</u> mg/kg dry	
S-3A Geoline Range Organics (GRO)	0050087	5/30/00	<u>W00510</u>	<u>)1-03</u> WIDNE GRO	701		<u>Soil (WI)</u>	
Gasonne Kange Organies (OKO)	0050087	5150100	0/5/00	WDAR ORO	7.01	ND	ing/kg ury .	
<u>S-6B</u> Gasoline Range Organics (GRO)	0050087	5/30/00	<u>W00510</u> 6/2/00	0 <u>1-04</u> WDNR GRO	6.26	ND	<u>Soil (WI)</u> mg/kg dry	
<u>S-8A</u> Gasoline Range Organics (GRO)	0050087	5/30/00	<u>W00510</u> 6/2/00	<u>)1-05</u> WDNR GRO	6.27	ND	<u>Soil (WI)</u> mg/kg dry	
<u>S-9A</u> Gasoline Range Organics (GRO)	0050087	5/30/00	<u>W00510</u> 6/2/00	01-06 WDNR GRO	5.51	6.07	<u>Soil (WI)</u> mg/kg dry	T1,T4
<u>S-10B</u> Gasoline Range Organics (GRO)	0050087	<b>5/30/</b> 00	<u>W00510</u> 6/2/00	<u>)1-07</u> WDNR GRO	6.36	ND	<u>Soil (WI)</u> mg/kg dry	
<u>S-12A</u> Gasoline Range Organics (GRO)	0050087	5/30/00	<u>W00510</u> 6/2/00	0 <u>1-08</u> WDNR GRO	7.22	ND	<u>Soil (WI)</u> mg/kg dry	
<u>S-14A</u> Gasoline Range Organics (GRO)	0050087	<b>5/3</b> 0/00	<u>W00510</u> 6/2/00	01-09 WDNR GRO	6.46	ND	<u>Soil (WI)</u> mg/kg dry	
<u>S-16B</u> Gasoline Range Organics (GRO)	0050087	5/30/00	<u>W00510</u> 6/2/00	01-10 WDNR GRO	6.56	ND	<u>Soil (WN)</u> mg/kg dry	
<u>S-19A</u> Gasoline Range Organics (GRO)	0050087	5/30/00	<u>W00510</u> 6/2/00	0 <u>1-11</u> WDNR GRO	5.89	ND	<u>Soil (WI)</u> mg/kg dry	
<u>S-22A</u> Gasoline Range Organics (GRO)	0050087	<b>5/30/</b> 00	<u>W00510</u> 6/2/00	01-12 WDNR GRO	6.51	ND	<u>Soil (WI)</u> mg/kg dry	
<u>S-23B</u> -Gasoline Range Organics (GRO)	0050087	5/30/00	<u>W00510</u> 6/2/00	01-13 WDNR GRO	6.47	ND	<u>Soil (WI)</u> mg/kg dry	

-Great Lakes Analytical--Oak Creek

Satal Patel, Froject Manager



140 East Ryan Road Oak Creek, Wisconsin 53154

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Advent Environmental Services - Eau Claire	Project:	Ino Landspreading	Sampled: 5/19/00
5110 Fairview Dr., Suite A	Project Number:	200044.01	Received: 5/22/00
Eau Claire, WI 54701	Project Manager:	M. Neal	Reported: 6/7/00 10:15

### Gasoline Range Organics (GRO) by WDNR GRO Great Lakes Analytical-Oak Creek

	Batch	Date	Date	Specific	Reporting		]
Analyte	Number	Prepared	Analyzed	Method	Limit	Result	Units Notes*
<u>S-26A</u>			<u>W00510</u>	<u>1-14</u>			Soil (WI)
Gasoline Range Organics (GRO)	0050087	5/30/00	6/2/00	WDNR GRO	6.11	ND	mg/kg dry
<u>S-28A</u>			<u>W00510</u>	<u>1-15</u>			Soil (WI)
Gasoline Range Organics (GRO)	0050087	5/30/00	6/2/00	WDNR GRO	6.45	ND	mg/kg dry
<u>S-29B</u>			<u>W00510</u>	<u>1-16</u>			<u>Soil (WI)</u>
Gasoline Range Organics (GRO)	0050087	5/30/00	6/2/00	WDNR GRO	6.23	ND	mg/kg dry
McOH Blank #2			<u>W00510</u>	<u>1-17</u>			MeOH Blank
Gasoline Range Organics (GRO)	0060002	6/1/00	6/1/00	WDNR GRO	5.00	ND	mg/l

Great Lakes Analytical-Oak Creek

Satal Patel, Project Manager



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Advent Environmental Services	- Eau Claire	Project:	Ino Landsp	oreading		Sampled:	5/19/00	
5110 Fairview Dr., Suite A	Pro	ject Number:	200044.01			Received:	5/22/00	
Eau Claire, WI 54701	Proj	ect Manager:	M. Neal		······································	Reported:	6/7/00 10:15	
	Petroleum Vo	latile Organ Great Lal	ic Compo ces Analyt	unds (PVOC) ical—Oak Cre	by Method 8021B ek			
	Batch	Date	Date	Surrogate	Reporting	·		
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
McOH Blank #1			W0051	01-01			McOH Blan	k
Benzene	0060002	6/1/00	6/1/00	<u> </u>	25.0	ND	ug/l	<u></u>
Ethylbenzene	พ	"			25.0	ND	"	
Methyl tert-butyl ether	"	**	н		25.0	ND		
Toluene	n	17	11		25.0	ND	••	
1.2.4-Trimethylbenzene	"	Ħ	n		25.0	ND	**	
1 3 5-Trimethylbenzene	*	11	n		25.0	ND	**	
Total Xylenes	н	11	и		25.0	ND		
Surrogate: 4-BFB	"	"	"	80.0-120		104	%	•
l -								
<u>S-2B</u>			<u>W0051</u>	<u>01-02</u>			<u>Soil (WI)</u>	
Benzene	0050087	5/30/00	6/1/00		25.0	ND	ug/kg dry	
Ethylbenzene	n	n	11		25.0	ND		
Methyl tert-butyl ether	n	в	0		25.0	ND	**	
Toluene	"	41	н		25.0	ND	**	
1,2,4-Trimethylbenzene		н	н		25.0	ND	*	
1,3,5-Trimethylbenzene	"	11	н		25.0	ND	**	
Total Xylenes	n	и	11		25.0	ND	11	
Surrogate: 4-BFB	"	"	"	80.0-120		104	%	
<b>-</b> 5.34			W0051	01-03			Soil (WD)	
Benzene	0050087	5/30/00	6/5/00	01-05	25.0	NID	ualka day	
Ethylbenzene	"	H	"		25.0		"	
Mathyl tert-butyl ether	n	"	и		25.0	ND		
Toluono	11				25.0	ND	"	
10 d Trimethylhonzono	u				25.0		"	
1,2,4-11 methylbenzene		н	н		25.0	IND NUX	"	
Tetel Vulence					25.0		**	
Total Aylenes				80.0.100	25.0	ND		
Surrogale: 4-DID	•			a0.0-120		80.3	70	
-S-6B	• •		W0051	01-04		<del>-</del> ,	Soil (WD	
Benzene	0050087	5/30/00	6/2/00		25.0	ND	ug/kg drv	
Ethylbenzene	"	1			25.0	ND	" "	
Methyl tert-butyl ether	н		u		25.0	ND	n	
Toluene	"				25.0	ND	u	

Great Lakes Analytical-Oak Creek

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80.0-120

\*Refer to end of report for text of notes and definitions.

ND

ND

ND

103

25.0

25.0

25.0

11

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Satal Patel, Project Manager

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

Total Xylenes

Surrogate: 4-BFB

Page 6 of 12



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Advent Environmental Services	- Eau Claire	Project:	Ino Landsp	breading		Sampled:	5/19/00	
5110 Fairview Dr., Suite A	Pro	ject Number:	200044.01			Received:	5/22/00	÷
Eau Claire, WI 54701	Proj	ect Manager:	M. Neal			Reported:	6/7/00 10:15	
	Petroleum Vo	latile Organ Great Lal	nic Compo kes Analyti	unds (PVOC)   icalOak Cree	by Method 8021 ek	В		
	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
<u>S-8A</u>			<u>W0051</u>	<u>01-05</u>	٠		<u>Soil (WI)</u>	
Benzene	0050087	5/30/00	6/2/00		25.0	ND	ug/kg dry	
Ethylbenzene	М	н	"		25.0	ND	•	
Methyl tert-butyl ether	и	61	"		25.0	ND	н	
Toluene	11	81	н		25.0	ND	h	
1,2,4-Trimethylbenzene	*	н	**		25.0	ND		
1.3.5-Trimethylbenzene	н	н			25.0	ND		
Total Xylenes	H	11			25.0	ND	н	
Surrogate: 4-BFB	"		"	80.0-120		87.6	%	·
<u>S-9A</u>			<u>W0051</u>	01-06			<u>Soil (WI)</u>	
Benzene	0050087	5/30/00	6/2/00		25.0	106	ug/kg dry	
Ethylbenzene	u		н	*	25,0	71.6	м	
Methyl tert-butyl ether	"	"	"		25.0	ND	11	
Toluene	н		н		25.0	296	n	
1 2 4-Trimethylbenzene	n		н		25.0	143	10	
1 3 5-Trimethylbenzene	"	11	"		25.0	89.0		
Total Yvlanes		**			25.0	427		
Surrogata: A-BEB	н	"	"	80 0-120	25.0	110	0/	
Burrogaie. 4-Di D				00.0-120		110	70	
<u>5-10B</u>			<u>W0051</u>	<u>01-07</u>			Soil (WI)	
Benzene	0050087	5/30/00	6/2/00		25.0	ND	ug/kg dry	
Ethvlbenzene	n		н		25.0	ND	n	
Methyl tert-butyl ether	. н		н		25.0	ND	и.	
Toluene	н		н		25.0	ND	n	
1.2.4 Trimethylbenzene	11		н		25.0			
1,2,4-IIIIIIculyIbenzene	11	н			25.0	NID	н	
Total Yulayas					25.0	ND		
Surrogata: A-BEB				80.0.120	25.0	05.3	0/	
Surrogaie. 4-DrD	•			00.0-720		75.5	20	
5-12A	<b>.</b>		W0051	01-08			Soil (WI)	
Benzene	0050087	5/30/00	6/2/00		25.0	ND	ug/kg drv	
Ethylbenzene	"		1		25.0	ND	H	
Methyl tert-butyl ether	Ħ		H		25.0	ND	н	
Toluene			"		25.0	NT	"	
2 A Trimethylbenzene					25.0			
1,2,4-11 meury i Denzene	"	H	H		25.0			
1,5,5-1 fineuryloenzene			"		25.0		н	
				00.0 / 20	25.0	ND		
urrogate: 4-BFB				80.0-120		97.5	70	

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.

atal Patel, Project Manager



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Advent Environmental Services -	Eau Claire	Project:	Ino Landsp	oreading		Sampled:	5/19/00	
5110 Fairview Dr., Suite A	Pro	ject Number:	200044.01			Received:	5/22/00	
Eau Claire, WI 54701	Proj	ect Manager:	M. Neal			Reported:	6/7/00 10:15	
	Petroleum Vo	latile Orgar Great Lal	nic Compo ces Analyti	unds (PVOC) icalOak Cree	by Method 8021B ek	3	· · · · · ·	
	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
<u>S-14A</u>	005000	<i>c 100 100</i>	<u>W0051</u>	01-09	25.0	ND	Soil (WI)	
Benzene	0050087	5/30/00	6/2/00		25.0	ND	ug/kg dry	
Ethylbenzene	"				25.0	ND		
Methyl tert-butyl ether	"	n			25.0	ND		
Toluene	tr	n	"		25.0	ND		
1,2,4-Trimethylbenzene	"				25.0	ND	•	
1,3,5-Trimethylbenzene	u	)t	н		25.0	ND	65	
Total Xylenes	11	*	0		25.0	ND	"	
Surrogate: 4-BFB	<i>"</i>	"	"	80.0-120		107	%	
C 1/D			WOOSI	01 10			Sell OVD	
<u>S-10B</u>	000000	<i>c 100 100</i>	<u>w0051</u>	01-10	25.0		<u>Soil (WI)</u>	
Benzene	0050087	5/30/00	6/2/00		25.0	ND	ug/kg ary	
Ethylbenzene					25.0	ND		
Methyl tert-butyl ether					25.0	. ND		
Toluene	"	"			25.0	ND		
1,2,4-Trimethylbenzene	11	n	"		25.0	ND		
1,3,5-Trimethylbenzene	"	**	"		25.0	ND	и	
Total Xylenes	**	**	H		25.0	ND	"	
Surrogate: 4-BFB	**	"	"	80.0-120		98.3	%	
S-19A			W0051	01-11			Sail (WD	
Benzene	0050087	5/30/00	6/2/00	01-11	25.0	ND	ug/kg dry	
Ethylbenzene	*	"	9		25.0	ND	"	
Methyl tert, butyl ether		n	"		25.0	ND		
Toluono			"		25.0	ND		
10 A Trimethulbenzene					25.0		11	
1,2,4-11ineutyloenzene	11				25.0	ND	"	
T, 5, 5-11 methyloenzene					25.0			
Surrogate: A-RFR				80 0-120	23.0	07.1	%	·
barrogane. The D				00.0 120		27.4	70	
<u>S-22A</u>			<u>W0051</u>	01-12			<u>Soil (WI)</u>	
Benzene	0050087	5/30/00	6/2/00		25.0	ND	ug/kg dry	
Ethylbenzene	**	**	*		25.0	ND	N	
Methyl tert-butyl ether	11	*	н		25.0	ND	n	
Toluene	н	u	n		25.0	ND	*	
1,2,4-Trimethylbenzene	**	"	"		25.0	ND	11	
1,3,5-Trimethylbenzene		11	"		25.0	ND	**	
Total Xylenes		н			25.0	ND	••	
Surrogate: 4-BFB	"	"	"	80.0-120		92.4	%	<del></del>

Great Lakes Analytical--Oak Creek

Satal Patel, Project Manager



Advent Environmental Services - Eau Claire	Project:	Ino Landspreading	Sampled:	5/19/00
5110 Fairview Dr., Suite A	Project Number:	200044.01	Received:	5/22/00
Eau Claire, WI 54701	Project Manager:	M. Neal	Reported:	6/7/00 10:15

### Petroleum Volatile Organic Compounds (PVOC) by Method 8021B Great Lakes Analytical--Oak Creek

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
							······	
<u>S-23B</u>			<u>W0051</u>	<u>01-13</u>			Soil (WI)	
Benzene	0050087	5/30/00	6/2/00		25.0	ND	ug/kg dry	
Ethylbenzene	11	*	"		25.0	ND	*1	
Methyl tert-butyl ether					25.0	ND	"	
Toluene		"	••		25.0	ND	"	
1,2,4-Trimethylbenzene	**	"			25.0	ND	n	
1,3,5-Trimethylbenzene	"	н	41		25.0	ND	н	
Total Xylenes	"	n	11		25.0	40.8	n	
Surrogate: 4-BFB	"	"		80.0-120		106	%	····
<u>S-26A</u>			W0051	0 <u>1-14</u>			Soil (WI)	
Benzene	0050087	5/30/00	6/2/00		25.0	ND	ug/kg dry	
Ethylbenzene	*	11	н		25.0	ND	"	
Methyl tert-butyl ether	**	11	<b>n</b> '		25.0	ND		
Toluene		87	11		25.0	ND		
1.2.4-Trimethylbenzene	11	H			25.0	ND		
1.3.5-Trimethylbenzene	11	**	**		25.0	ND	u	
Total Xylenes	u				25.0	ND	14	
Surrogate: 4-BFB	"	"		80.0-120		102	%	
S-28A			W0051	01-15			Soil (WD	
Benzene	0050087	5/30/00	6/2/00		25.0	ND	ug/kg drv	
Ethylbenzene	11		*		25.0	ND	#	
Methyl tert-butyl ether	"				25.0	ND		
Toluene	"				25.0	ND	"	
1 2 4-Trimethylbenzene	"		••		25.0	ND	n	
1 3.5-Trimethylbenzene	"	18	**		25.0	ND	n	
Total Xylenes		**	**		25.0	ND		
Surrogate: 4-BFB		· //	"	80.0-120		99.2	%	
C 40 D	۹ <b>۴</b>		111005	<b></b>				
<u>S-29B</u>			<u>W0051</u>	01-16			<u>Soil (WI)</u>	
Benzene	0050087	5/30/00	6/2/00		25.0	ND	ug/kg dry	
Ethylbenzene		"			25.0	ND	"	
Methyl tert-butyl ether	H	11			25.0	ND	"	
Toluene	"		**		25.0	ND	"	
1,2,4-Trimethylbenzene	n	u			25.0	ND	11	
1,3,5-Trimethylbenzene	"	н			25.0	ND	"	
Total Xylenes	"	94	**		25.0	ND	"	
Surrogate: 4-BFB	"	n	"	80.0-120		/ 104	%	_

Great Lakes Analytical--Oak Creek

Satal Patel, Project Manager



Advent Environmental Services - Eau Claire	Project:	Ino Landspreading	Sampled: 5/19/00
5110 Fairview Dr., Suite A	Project Number:	200044.01	Received: 5/22/00
Eau Claire, WI 54701	Project Manager:	M. Neal	Reported: 6/7/00 10:15

### Petroleum Volatile Organic Compounds (PVOC) by Method 8021B Great Lakes Analytical--Oak Creek

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
MeOH Blank #2			<u>W00510</u>	1-17			MeOH Blank	
Benzene	0060002	6/1/00	6/1/00		25.0	ND	ug/l	
Ethylbenzene	"	H			25.0	ND	и	
Methyl tert-butyl ether	11	W			25.0	ND	н	
Toluene	"				25.0	ND		
1,2,4-Trimethylbenzene			н		25.0	ND	н	
1,3,5-Trimethylbenzene	н				25.0	ND		
Total Xylenes	"	"			25.0	ND	۰ .	
Surrogate: 4-BFB	"	"		80.0-120		104	%	

Great Lakes Analytical-Oak Creek

Satal Patel, Project Manager



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Advent Environmental Services - Eau Claire	Project:	Ino Landspreading	Sampled:	5/19/00
5110 Fairview Dr., Suite A	Project Number:	200044.01	Received:	5/22/00
Eau Claire, WI 54701	Project Manager:	M. Neal	Reported:	6/7/00 10:15

### Dry Weight Determination Great Lakes Analytical-Oak Creek

Sample Name	Lab ID	Matrix	 	Result	Units
S-2B	W005101-02	Soil (WI)		81.1	%
S-3A	W005101-03	Soil (WI)		71.4	%
S-6B	W005101-04	Soil (WI)		79.8	%
S-8A	W005101-05	Soil (WI)		79.7	%
S-9A	W005101-06	Soil (WI)		90.8	%
S-10B	W005101-07	Soil (WI)		78.6	%
S-12A	W005101-08	Soil (WI)		69.2	%
S-14A	W005101-09	Soil (WI)		77.4	%
S-16B	W005101-10	Soil (WI)		76.2	%
S-19A	W005101-11	Soil (WI)		84.9	%
S-22A	W005101-12	Soil (WI)		76.9	%
S-23B	W005101-13	Soil (WI)		77.2	%
S-26A	W005101-14	Soil (WI)		81.9	%
S-28A	W005101-15	Soil (WI)		77.6	%
S-29B	W005101-16	Soil (WI)	11 <b>H</b>	80.2	%
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Great Lakes Analytical-Oak Creek

Satal Patel, Project Manager



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### 140 East Ryan Road Oak Creek, Wisconsin 53154

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Advent E	Invironmental Services - Eau Cl	aire Project:	Ino Landspreading	Sampled: 5/19/00	
5110 Fai	rview Dr., Suite A	Project Number:	200044.01	Received: 5/22/00	
Eau Clair	re, WI 54701	Project Manager:	M. Neal	Reported: 6/7/00 10:15	
		No	otes and Definitions		,
#	Note				
G4	The laboratory control spike	recoveries associated with	this sample were below the lab	pratory's established acceptance criteria.	
TI	Gas Pattern				
Ť10	Diesel Range				
T11	Motor Oil Range				
T15	Late Elevated Baseline				
T4	Gas Range				
-T6	Early Peaks				
DET	Analyte DETECTED				
סאך	Analyte NOT DETECTED a	t or above the reporting li	nit		
NR	Not Reported				
∎dry	Sample results reported on a	dry weight basis			
Recov.	Recovery				
RPD	Relative Percent Difference				
				e e e	
					-

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Great Lakes Analytical-Oak Creek

Satal Patel, Project Manager





1380 Busch Parkway Buffalo Grove, IL 60089-4505 (847) 808-7766 FAX (847) 808-7772

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20725 Watertown Road Brookfield, WI 53501 (414) 798-1030 FAX (414) 798-1066

Client: Acumt			Bill To: Advant					TAT	TAT: 5 DAY 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.												
Address: Epu CLATC, WI			Addi	Address: Equ Clarre, WI							DAT	DATE RESULTS NEEDED:									
											TEN	TEMPERATURE UPON RECEIPT:									
Report to: M. Alea / Phone #: Fax #: (	<del>, e 8, - 2,</del>	07530	State Prog	State & Phone #: ( ) Program: Fax #: ( )							AIR	AIR BILL NO.									
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Sampler: Mrchael K. Neal		0	م /	/	Salling		SANS.	(m)		\$	- <u> </u> -				/ /	/ /			NTR		
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CHAIN OF CUSTODY REPORT

1380 Busch Parkway Buffalo Grove, IL 60089-4505 (847) 808-7766 FAX (847) 808-7772

20725 Watertown Road Brookfield, WI 53501 (414) 798-1030 FAX (414) 798-1066

	·	Stadad
Client: Advent	Bill TO: Advent	TAT: 5 DAY 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
Address: EAU CLATTE, WI	Address: EAU CLAIRE, WI	DATE RESULTS NEEDED:
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Report to: M. Non / Phone #: 75 83/1530 Fax #: ()	State & Phone #: ( ) Program: Fax #: ( )	AIR BILL NO.
Project: Ino Landsprending		
Sampler: Mrchael K. Neal		CONTROL
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