



175 N. Corporate Drive
Suite 100
Brookfield, WI 53045

www.geotransinc.com

262-792-1282 FAX 262-792-1310

To: Wisconsin DNR
625 E. County Road Y, Suite 700
Oshkosh, WI 54901-9731

Date: 12/11/01
Subject: FF/NN Landfill,
Ripon

Attn: Jennie Pelczar

Job. No. N734

We are sending the following: Herewith Under Separate Cover

# of Copies	Item
1	Analytical Results, private well testing

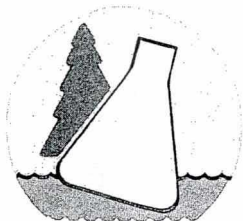
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By: Jenny De Mars



MASTERFILE COPY
PROJECT # N734
CC: GLD

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

Dec. 5, 2001

Mr. Gerald DeMers
GeoTrans Inc.
175 North Corporate Drive #100
Brookfield, WI 53045-5802

Dear Mr. DeMers,

Enclosed is your analytical report for samples received on November 21, 2001. I just wanted to take this opportunity to welcome you to Northern Lake Service and thank you for your business. I hope that you will come to appreciate the high level of data quality and client service that NLS clients have enjoyed for over 27 years.

We at NLS pride ourselves on providing a wide array of analytical laboratory services, from sample collection, through analysis, to complex data-package generation. If you are curious about other services we offer, please visit our website at www.northernlakeservice.com.

Because analytical reports differ among laboratories, I have included a sheet explaining our report format and the information found on it.

If you have further questions please feel free to contact one of our client service representatives, Andy or Tracy.

Gerald, I'm sure that you will be pleased with our level of service. We look forward to a long, mutually-beneficial professional relationship with GeoTrans.

Sincerely,

R.T. Krueger
President

Northern Lake Service, Inc.

Explanation of NLS data report

Our analytical report format contains a lot of required information and can be somewhat confusing. This sheet is provided to explain the items included.

The report lists two numbers near the upper right-hand corner, the NLS project number, which is specific to this batch of samples and the NLS client number, which is your account number and can be referenced if you have billing questions.

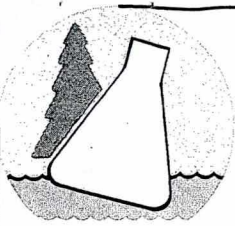
Many of the items on the report are self-explanatory – Parameter, Result, Units – while others may not be. The dilution column indicates whether or not the sample was diluted for analysis. This information is helpful if a technical interpretation of the data is necessary. LOD (limit of detection) and LOQ (limit of quantitation) are statistically determined limits that we are required to report. (If both numbers are the same it indicates that an arbitrary reporting limit is used for this parameter.) “ND” in the results column indicates that the value is less than the LOD and a result in brackets indicates that the value is between LOD and LOQ and of less certain quantitation. Date of analysis, methodology and a Wisconsin laboratory certification number complete the report. If the lab ID number is not 721026460, it indicates that this analysis was performed by another laboratory.

Most organic parameters will show “see attached” in the results column and are reported on a separate report at the end of the project. The format for these results is very similar to the main report.

Northern Lake Service, Inc.

Analytical Laboratory and Environmental Services
400 North Lake Avenue Crandon, WI 54520 • 715.478.2777
www.northernlakeservice.com





NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298
Tel: (715) 478-2777 • Fax: (715) 478-3060

November 30, 2001

Mr. Jerry DeMers
Geo Trans, Inc.
175 North Corporate Drive, # 100
Brookfield, WI 53045

Dear Mr. DeMers:

In compliance with Wisconsin Administrative Code NR 149.21(9), the intent of this letter is to advise you of exceedances of Maximum Contaminant Levels and/or Action Levels on drinking water samples collected 11/19/01.

Sample ID	Analyte	Concentration	Exceedance	Limit
Ehster	Vinyl Chloride	7.0 ug/L	MCL	0.2 ug/L

Please forward this information to your DNR contact person.

Sincerely,


Steve Mlejnek, Lab Manager
NORTHERN LAKE SERVICE, INC.

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GeoTrans, Inc.
A TETRA TECH COMPANY

175 N Corporate Dr, Ste 100
Brookfield WI 53045
262-792-1282

Analysis Request and Chain of Custody Record

Proj Mgr: Jerry DeMers

Project No. N734	Client/Project Name FF/NN Landfill	Project Location Ripon, WI
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Field Sample No./ Identification	Date and Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, Etc.)	Preservative	ANALYSIS REQUESTED	LABORATORY REMARKS
Altman	11-19-01 14:30	✓		6-40mL glass	GW	⊖	Bacteria, total dissolved solids Calcium, magnesium, sulfate, manganese, chloride, iron, hardness, alkalinity, pH	270421
Ehster	11-19-01 14:02	✓		↓	↓	↓		270422

Samplers: (Signature) H. Yamtz	Relinquished by: (Signature) A. DeMers	Date: 11/20/01 Time: 14:15	Received by: (Signature)	Date: _____ Time: _____	Intact
Affiliation GeoTrans	Relinquished by: (Signature)	Date: _____ Time: _____	Received by: (Signature)	Date: _____ Time: _____	Intact
	Relinquished by: (Signature)	Date: _____ Time: _____	Received by: (Signature)	Date: _____ Time: _____	Intact

SAMPLER REMARKS: all vials previously contained HCl. Triple-rinsed with DI water.	Received for laboratory: (Signature) [Signature]	Date: 11/21/01 Time: 12:15	Laboratory No.
SEAL #	Data Results to:		

Andrew Price



GeoTrans, Inc.
A TETRA TECH COMPANY

175 N. Corporate Dr. Ste 100
Brookfield WI 53045
262-797-1282

Analysis Request and Chain of Custody Record

Project Mgr - Jerry Demers ←

Project No. N734	Client/Project Name FF/NN Landfill	Project Location Ripon, WI - DRINKING WATER SAMPLES
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Field Sample No./ Identification	Date and Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, Etc.)	Preservative	ANALYSIS REQUESTED	LABORATORY REMARKS
Baneck	11-19-01 13:35	✓		3-40mL ^{glass}	GW	HCL	VOC 8260	270409
Enster	11-19-01 12:45	✓		↓	↓	↓	↓	270410
Gaastra	11-19-01 13:30	✓		↓	↓	↓	↓	270411
Hadel	11-19-01 13:50	✓		↓	↓	↓	↓	270412
Miller	11-19-01 11:51	✓		↓	↓	↓	↓	270413
Rohde	11-19-01 11:30	✓		↓	↓	↓	↓	270414
Sauer	11-19-01 15:10	✓		↓	↓	↓	↓	270415
Weiss	11-19-01 12:18	✓		↓	↓	↓	↓	270416
Miller-Dup	11-19-01 11:53	✓		↓	↓	↓	↓	270417

Samplers: (Signature) Nendi Yantis	Relinquished by: (Signature) A. Yantis	Date: 11-19-01 Time: 18:45	Received by: (Signature) Gerald DeMuss	Date: [blank] Time: [blank]	Intact
Affiliation GeoTrans, Inc	Relinquished by: (Signature) Gerald DeMuss	Date: 11-20-01 Time: 10:15 pm	Received by: (Signature) [blank]	Date: [blank] Time: [blank]	Intact
SAMPLER REMARKS: DETECTION LIMIT OF LESS THAN 0.20 ug/l IS REQUIRED FOR VINYL CHLORIDE.	Received for laboratory: (Signature) [Signature]	Date: 11/21/01 Time: 13:45	Data Results to:	Laboratory No.	

Richard Mice

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WI LAB CERTIFICATION NO. 721026460

Printed: 12/03/01 Code: S Page 1 of 2

Client: GeoTrans Inc
Attn: Gerald DeMers

NLS Project: 63831

175 North Corporate Drive #100
Brookfield, WI 53045

NLS Customer: 91576

Project: FF/NN Landfill N734

Baneck NLS ID: 270409

Ref. Line COC Baneck Matrix: DW
Collected: 11/19/01 13:35 Received: 11/21/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
DW Volatile Organics (VOCs) by EPA 524.2	see attached		-			11/29/01	EPA 524.2	721026460

Ehster NLS ID: 270410

Ref. Line COC Ehster Matrix: DW
Collected: 11/19/01 12:45 Received: 11/21/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
DW Volatile Organics (VOCs) by EPA 524.2	see attached		-			11/29/01	EPA 524.2	721026460

Gaastra NLS ID: 270411

Ref. Line COC Gaastra Matrix: DW
Collected: 11/19/01 13:20 Received: 11/21/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
DW Volatile Organics (VOCs) by EPA 524.2	see attached		-			11/29/01	EPA 524.2	721026460

Hadel NLS ID: 270412

Ref. Line COC Hadel Matrix: DW
Collected: 11/19/01 13:50 Received: 11/21/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
DW Volatile Organics (VOCs) by EPA 524.2	see attached		-			11/29/01	EPA 524.2	721026460

Miller NLS ID: 270413

Ref. Line COC Miller Matrix: DW
Collected: 11/19/01 11:51 Received: 11/21/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
DW Volatile Organics (VOCs) by EPA 524.2	see attached		-			11/29/01	EPA 524.2	721026460

Rohde NLS ID: 270414

Ref. Line COC Rohde Matrix: DW
Collected: 11/19/01 11:20 Received: 11/21/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
DW Volatile Organics (VOCs) by EPA 524.2	see attached		-			11/29/01	EPA 524.2	721026460

Sauer NLS ID: 270415

Ref. Line COC Sauer Matrix: DW
Collected: 11/19/01 15:10 Received: 11/21/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
DW Volatile Organics (VOCs) by EPA 524.2	see attached		-			11/29/01	EPA 524.2	721026460

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WI LAB CERTIFICATION NO. 721026460

Printed: 12/03/01 Code: S

Page 2 of 2

Client: GeoTrans Inc
Attn: Gerald DeMers

NLS Project: 63831

175 North Corporate Drive #100
Brookfield, WI 53045

NLS Customer: 91576

Project: FF/NN Landfill N734

Weiss NLS ID: 270416

Ref. Line COC Weiss Matrix: DW
Collected: 11/19/01 12:18 Received: 11/21/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
DW Volatile Organics (VOCs) by EPA 524.2	see attached		-			11/29/01	EPA 524.2	721026460

Miller Dup NLS ID: 270417

Ref. Line COC Miller Dup Matrix: DW
Collected: 11/19/01 11:53 Received: 11/21/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
DW Volatile Organics (VOCs) by EPA 524.2	see attached		-			11/30/01	EPA 524.2	721026460

Altnau NLS ID: 270421

Ref. Line COC Altnau Matrix: DW
Collected: 11/19/01 14:20 Received: 11/21/01

Notes: Noncompliance: Sample(s) received in vials not furnished by NLS. They had been previously preserved with HCL & triple rinsed with DI water. We preserved in-house for necessary analysis.

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Alkalinity, tot. as CaCO3 (unfiltered)	270	mg/L	2	2.8	9.8	11/23/01	SM 2320B	721026460

Ehster NLS ID: 270422

Ref. Line COC Ehster Matrix: DW
Collected: 11/19/01 14:02 Received: 11/21/01

Notes: Noncompliance: Sample(s) received in vials not furnished by NLS. They had been previously preserved with HCL & triple rinsed with DI water. We preserved in-house for necessary analysis.

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Alkalinity, tot. as CaCO3 (unfiltered)	290	mg/L	2	2.8	9.8	11/23/01	SM 2320B	721026460

Values in brackets represent results greater than the LOD but less than or equal to the LOQ and are within a region of "Less-Certain Quantitation". Results greater than the LOQ are considered to be in the region of "Certain Quantitation".

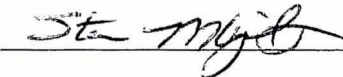
LOD = Limit of Detection
DWB = Dry Weight Basis

LOQ = Limit of Quantitation
NA = Not Applicable

ND = Not Detected
%DWB = (mg/kg DWB) / 10000

1000 ug/L = 1 mg/L

Reviewed by:



Authorized by:
R. T. Krueger
President

ANALYTICAL RESULTS: GCMS 524.2 Safe Drinking Water Analysis (Saturn 3)

Page 1 of 18

Customer: GeoTrans Inc

NLS Project: 63831

Project Description: FF/NN Landfill

Project Title: N734

Template: 524S3

Sample: 270409

Baneck

Collected: 11/19/01

Analyzed: 11/29/01

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL
Benzene	ND	ug/L	1	0.13	0.46	5
Bromobenzene	ND	ug/L	1	0.21	0.70	
Bromochloromethane	ND	ug/L	1	0.19	0.62	
Bromodichloromethane	ND	ug/L	1	0.31	1.1	
Bromoform	ND	ug/L	1	0.46	1.5	
Bromomethane	ND	ug/L	1	0.15	0.50	
n-Butylbenzene	ND	ug/L	1	0.34	1.1	
sec-Butylbenzene	ND	ug/L	1	0.27	0.89	
tert-Butylbenzene	ND	ug/L	1	0.25	0.85	
Carbon Tetrachloride	ND	ug/L	1	0.14	0.45	5
Chlorobenzene	ND	ug/L	1	0.16	0.55	100
Chloroethane	ND	ug/L	1	0.17	0.59	
Chloroform	ND	ug/L	1	0.29	0.97	
Chloromethane	ND	ug/L	1	0.23	0.82	
2-Chlorotoluene	ND	ug/L	1	0.22	0.75	
4-Chlorotoluene	ND	ug/L	1	0.24	0.81	
Dibromochloromethane	ND	ug/L	1	0.35	1.2	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.41	1.4	
1,2-Dibromoethane	ND	ug/L	1	0.22	0.74	
Dibromomethane	ND	ug/L	1	0.19	0.63	
1,2-Dichlorobenzene	ND	ug/L	1	0.30	1.0	600
1,3-Dichlorobenzene	ND	ug/L	1	0.30	1.0	
1,4-Dichlorobenzene	ND	ug/L	1	0.31	1.0	75
Dichlorodifluoromethane	ND	ug/L	1	0.15	0.51	
1,1-Dichloroethane	ND	ug/L	1	0.15	0.50	
1,2-Dichloroethane	ND	ug/L	1	0.18	0.60	5
1,1-Dichloroethene	ND	ug/L	1	0.17	0.56	7
cis-1,2-Dichloroethene	ND	ug/L	1	0.18	0.60	70
trans-1,2-Dichloroethene	ND	ug/L	1	0.12	0.43	100
1,2-Dichloropropane	ND	ug/L	1	0.11	0.36	5
1,3-Dichloropropane	ND	ug/L	1	0.23	0.75	
2,2-Dichloropropane	ND	ug/L	1	0.14	0.46	
1,1-Dichloropropene	ND	ug/L	1	0.12	0.41	
cis-1,3-Dichloropropene	ND	ug/L	1	0.18	0.59	
trans-1,3-Dichloropropene	ND	ug/L	1	0.15	0.50	
Ethylbenzene	ND	ug/L	1	0.17	0.62	700
Hexachlorobutadiene	ND	ug/L	1	0.44	1.5	
Isopropylbenzene	ND	ug/L	1	0.23	0.77	
p-Isopropyltoluene	ND	ug/L	1	0.29	0.98	
Methylene chloride	ND	ug/L	1	0.18	0.62	5
Naphthalene	ND	ug/L	1	0.41	1.4	
Nitrobenzene	ND	ug/L	1	4.5	16	
n-Propylbenzene	ND	ug/L	1	0.22	0.73	
Styrene	ND	ug/L	1	0.21	0.69	100
ortho-Xylene	ND	ug/L	1	0.22	0.72	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.16	0.56	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	0.93	
Tetrachloroethene	ND	ug/L	1	0.17	0.58	5
Toluene	ND	ug/L	1	0.12	0.41	1000
1,2,3-Trichlorobenzene	ND	ug/L	1	0.43	1.4	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.37	1.2	70

ANALYTICAL RESULTS: GCMS 524.2 Safe Drinking Water Analysis (Saturn 3)

Customer: GeoTrans Inc NLS Project: 63831

Project Description: FF/NN Landfill

Project Title: N734

Template: 524S3

Sample: 270409 Baneck

Collected: 11/19/01

Analyzed: 11/29/01

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL
1,1,1-Trichloroethane	ND	ug/L	1	0.16	0.52	200
1,1,2-Trichloroethane	ND	ug/L	1	0.13	0.41	5
Trichloroethene	ND	ug/L	1	0.16	0.54	5
Trichlorofluoromethane	ND	ug/L	1	0.15	0.50	
1,2,3-Trichloropropane	ND	ug/L	1	0.27	0.90	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.29	0.98	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.86	
Vinyl chloride	ND	ug/L	1	0.14	0.48	.2
meta,para-Xylene	ND	ug/L	1	0.42	1.4	10000
MTBE	ND	ug/L	1	0.24	0.82	
4-Bromofluorobenzene (SURR)	83%					
1,2-Dichlorobenzene-d4 (SURR)	85%					

ANALYTICAL RESULTS: GCMS 524.2 Safe Drinking Water Analysis (Saturn 3)

Page 3 of 18

Customer: GeoTrans Inc

NLS Project: 63831

Project Description: FF/NN Landfill

Project Title: N734

Template: 524S3

Sample: 270410

Ehster

Collected: 11/19/01

Analyzed: 11/29/01

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL
Benzene	ND	ug/L	1	0.13	0.46	5
Bromobenzene	ND	ug/L	1	0.21	0.70	
Bromochloromethane	ND	ug/L	1	0.19	0.62	
Bromodichloromethane	ND	ug/L	1	0.31	1.1	
Bromoform	ND	ug/L	1	0.46	1.5	
Bromomethane	ND	ug/L	1	0.15	0.50	
n-Butylbenzene	ND	ug/L	1	0.34	1.1	
sec-Butylbenzene	ND	ug/L	1	0.27	0.89	
tert-Butylbenzene	ND	ug/L	1	0.25	0.85	
Carbon Tetrachloride	ND	ug/L	1	0.14	0.45	5
Chlorobenzene	ND	ug/L	1	0.16	0.55	100
Chloroethane	ND	ug/L	1	0.17	0.59	
Chloroform	ND	ug/L	1	0.29	0.97	
Chloromethane	ND	ug/L	1	0.23	0.82	
2-Chlorotoluene	ND	ug/L	1	0.22	0.75	
4-Chlorotoluene	ND	ug/L	1	0.24	0.81	
Dibromochloromethane	ND	ug/L	1	0.35	1.2	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.41	1.4	
1,2-Dibromoethane	ND	ug/L	1	0.22	0.74	
Dibromomethane	ND	ug/L	1	0.19	0.63	
1,2-Dichlorobenzene	ND	ug/L	1	0.30	1.0	600
1,3-Dichlorobenzene	ND	ug/L	1	0.30	1.0	
1,4-Dichlorobenzene	ND	ug/L	1	0.31	1.0	75
Dichlorodifluoromethane	ND	ug/L	1	0.15	0.51	
1,1-Dichloroethane	ND	ug/L	1	0.15	0.50	
1,2-Dichloroethane	ND	ug/L	1	0.18	0.60	5
1,1-Dichloroethene	ND	ug/L	1	0.17	0.56	7
cis-1,2-Dichloroethene	0.93	ug/L	1	0.18	0.60	70
trans-1,2-Dichloroethene	ND	ug/L	1	0.12	0.43	100
1,2-Dichloropropane	ND	ug/L	1	0.11	0.36	5
1,3-Dichloropropane	ND	ug/L	1	0.23	0.75	
2,2-Dichloropropane	ND	ug/L	1	0.14	0.46	
1,1-Dichloropropene	ND	ug/L	1	0.12	0.41	
cis-1,3-Dichloropropene	ND	ug/L	1	0.18	0.59	
trans-1,3-Dichloropropene	ND	ug/L	1	0.15	0.50	
Ethylbenzene	ND	ug/L	1	0.17	0.62	700
Hexachlorobutadiene	ND	ug/L	1	0.44	1.5	
Isopropylbenzene	ND	ug/L	1	0.23	0.77	
p-Isopropyltoluene	ND	ug/L	1	0.29	0.98	
Methylene chloride	[0.28]	ug/L	1	0.18	0.62	5
Naphthalene	ND	ug/L	1	0.41	1.4	
Nitrobenzene	ND	ug/L	1	4.5	16	
n-Propylbenzene	ND	ug/L	1	0.22	0.73	
Styrene	ND	ug/L	1	0.21	0.69	100
ortho-Xylene	ND	ug/L	1	0.22	0.72	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.16	0.56	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	0.93	
Tetrachloroethene	ND	ug/L	1	0.17	0.58	5
Toluene	ND	ug/L	1	0.12	0.41	1000
1,2,3-Trichlorobenzene	ND	ug/L	1	0.43	1.4	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.37	1.2	70

ANALYTICAL RESULTS: GCMS 524.2 Safe Drinking Water Analysis (Saturn 3)

Page 4 of 18

Customer: GeoTrans Inc

NLS Project: 63831

Project Description: FF/NN Landfill

Project Title: N734

Template: 524S3

Sample: 270410

Ehster

Collected: 11/19/01

Analyzed: 11/29/01

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL
1,1,1-Trichloroethane	ND	ug/L	1	0.16	0.52	200
1,1,2-Trichloroethane	ND	ug/L	1	0.13	0.41	5
Trichloroethene	ND	ug/L	1	0.16	0.54	5
Trichlorofluoromethane	ND	ug/L	1	0.15	0.50	
1,2,3-Trichloropropane	ND	ug/L	1	0.27	0.90	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.29	0.98	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.86	
Vinyl chloride	7.0	ug/L	1	0.14	0.48	.2
meta,para-Xylene	ND	ug/L	1	0.42	1.4	10000
MTBE	ND	ug/L	1	0.24	0.82	
4-Bromofluorobenzene (SURR)	85%					
1,2-Dichlorobenzene-d4 (SURR)	81%					

ANALYTICAL RESULTS: GCMS 524.2 Safe Drinking Water Analysis (Saturn 3)

Page 5 of 18

Customer: GeoTrans Inc

NLS Project: 63831

Project Description: FF/NN Landfill

Project Title: N734

Template: 524S3

Sample: 270411

Gaastra

Collected: 11/19/01

Analyzed: 11/29/01

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL
Benzene	ND	ug/L	1	0.13	0.46	5
Bromobenzene	ND	ug/L	1	0.21	0.70	
Bromochloromethane	ND	ug/L	1	0.19	0.62	
Bromodichloromethane	ND	ug/L	1	0.31	1.1	
Bromoform	ND	ug/L	1	0.46	1.5	
Bromomethane	ND	ug/L	1	0.15	0.50	
n-Butylbenzene	ND	ug/L	1	0.34	1.1	
sec-Butylbenzene	ND	ug/L	1	0.27	0.89	
tert-Butylbenzene	ND	ug/L	1	0.25	0.85	
Carbon Tetrachloride	ND	ug/L	1	0.14	0.45	5
Chlorobenzene	ND	ug/L	1	0.16	0.55	100
Chloroethane	ND	ug/L	1	0.17	0.59	
Chloroform	ND	ug/L	1	0.29	0.97	
Chloromethane	ND	ug/L	1	0.23	0.82	
2-Chlorotoluene	ND	ug/L	1	0.22	0.75	
4-Chlorotoluene	ND	ug/L	1	0.24	0.81	
Dibromochloromethane	ND	ug/L	1	0.35	1.2	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.41	1.4	
1,2-Dibromoethane	ND	ug/L	1	0.22	0.74	
Dibromomethane	ND	ug/L	1	0.19	0.63	
1,2-Dichlorobenzene	ND	ug/L	1	0.30	1.0	600
1,3-Dichlorobenzene	ND	ug/L	1	0.30	1.0	
1,4-Dichlorobenzene	ND	ug/L	1	0.31	1.0	75
Dichlorodifluoromethane	ND	ug/L	1	0.15	0.51	
1,1-Dichloroethane	ND	ug/L	1	0.15	0.50	
1,2-Dichloroethane	ND	ug/L	1	0.18	0.60	5
1,1-Dichloroethene	ND	ug/L	1	0.17	0.56	7
cis-1,2-Dichloroethene	ND	ug/L	1	0.18	0.60	70
trans-1,2-Dichloroethene	ND	ug/L	1	0.12	0.43	100
1,2-Dichloropropane	ND	ug/L	1	0.11	0.36	5
1,3-Dichloropropane	ND	ug/L	1	0.23	0.75	
2,2-Dichloropropane	ND	ug/L	1	0.14	0.46	
1,1-Dichloropropene	ND	ug/L	1	0.12	0.41	
cis-1,3-Dichloropropene	ND	ug/L	1	0.18	0.59	
trans-1,3-Dichloropropene	ND	ug/L	1	0.15	0.50	
Ethylbenzene	ND	ug/L	1	0.17	0.62	700
Hexachlorobutadiene	ND	ug/L	1	0.44	1.5	
Isopropylbenzene	ND	ug/L	1	0.23	0.77	
p-Isopropyltoluene	ND	ug/L	1	0.29	0.98	
Methylene chloride	[0.42]	ug/L	1	0.18	0.62	5
Naphthalene	ND	ug/L	1	0.41	1.4	
Nitrobenzene	ND	ug/L	1	4.5	16	
n-Propylbenzene	ND	ug/L	1	0.22	0.73	
Styrene	ND	ug/L	1	0.21	0.69	100
ortho-Xylene	ND	ug/L	1	0.22	0.72	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.16	0.56	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	0.93	
Tetrachloroethene	ND	ug/L	1	0.17	0.58	5
Toluene	ND	ug/L	1	0.12	0.41	1000
1,2,3-Trichlorobenzene	ND	ug/L	1	0.43	1.4	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.37	1.2	70

ANALYTICAL RESULTS: GCMS 524.2 Safe Drinking Water Analysis (Saturn 3)

Customer: GeoTrans Inc NLS Project: 63831

Project Description: FF/NN Landfill

Project Title: N734

Template: 524S3

Sample: 270411 Gaastra

Collected: 11/19/01

Analyzed: 11/29/01

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL
1,1,1-Trichloroethane	ND	ug/L	1	0.16	0.52	200
1,1,2-Trichloroethane	ND	ug/L	1	0.13	0.41	5
Trichloroethene	ND	ug/L	1	0.16	0.54	5
Trichlorofluoromethane	ND	ug/L	1	0.15	0.50	
1,2,3-Trichloropropane	ND	ug/L	1	0.27	0.90	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.29	0.98	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.86	
Vinyl chloride	ND	ug/L	1	0.14	0.48	.2
meta,para-Xylene	ND	ug/L	1	0.42	1.4	10000
MTBE	ND	ug/L	1	0.24	0.82	
4-Bromofluorobenzene (SURR)	90%					
1,2-Dichlorobenzene-d4 (SURR)	90%					

ANALYTICAL RESULTS: GCMS 524.2 Safe Drinking Water Analysis (Saturn 3)

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Customer: GeoTrans Inc

NLS Project: 63831

Project Description: FF/NN Landfill

Project Title: N734

Template: 524S3

Sample: 270412

Hadel

Collected: 11/19/01

Analyzed: 11/29/01

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL
Benzene	ND	ug/L	1	0.13	0.46	5
Bromobenzene	ND	ug/L	1	0.21	0.70	
Bromochloromethane	ND	ug/L	1	0.19	0.62	
Bromodichloromethane	ND	ug/L	1	0.31	1.1	
Bromoform	ND	ug/L	1	0.46	1.5	
Bromomethane	ND	ug/L	1	0.15	0.50	
n-Butylbenzene	ND	ug/L	1	0.34	1.1	
sec-Butylbenzene	ND	ug/L	1	0.27	0.89	
tert-Butylbenzene	ND	ug/L	1	0.25	0.85	
Carbon Tetrachloride	ND	ug/L	1	0.14	0.45	5
Chlorobenzene	ND	ug/L	1	0.16	0.55	100
Chloroethane	ND	ug/L	1	0.17	0.59	
Chloroform	ND	ug/L	1	0.29	0.97	
Chloromethane	ND	ug/L	1	0.23	0.82	
2-Chlorotoluene	ND	ug/L	1	0.22	0.75	
4-Chlorotoluene	ND	ug/L	1	0.24	0.81	
Dibromochloromethane	ND	ug/L	1	0.35	1.2	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.41	1.4	
1,2-Dibromoethane	ND	ug/L	1	0.22	0.74	
Dibromomethane	ND	ug/L	1	0.19	0.63	
1,2-Dichlorobenzene	ND	ug/L	1	0.30	1.0	600
1,3-Dichlorobenzene	ND	ug/L	1	0.30	1.0	
1,4-Dichlorobenzene	ND	ug/L	1	0.31	1.0	75
Dichlorodifluoromethane	ND	ug/L	1	0.15	0.51	
1,1-Dichloroethane	ND	ug/L	1	0.15	0.50	
1,2-Dichloroethane	ND	ug/L	1	0.18	0.60	5
1,1-Dichloroethene	ND	ug/L	1	0.17	0.56	7
cis-1,2-Dichloroethene	ND	ug/L	1	0.18	0.60	70
trans-1,2-Dichloroethene	ND	ug/L	1	0.12	0.43	100
1,2-Dichloropropane	ND	ug/L	1	0.11	0.36	5
1,3-Dichloropropane	ND	ug/L	1	0.23	0.75	
2,2-Dichloropropane	ND	ug/L	1	0.14	0.46	
1,1-Dichloropropene	ND	ug/L	1	0.12	0.41	
cis-1,3-Dichloropropene	ND	ug/L	1	0.18	0.59	
trans-1,3-Dichloropropene	ND	ug/L	1	0.15	0.50	
Ethylbenzene	ND	ug/L	1	0.17	0.62	700
Hexachlorobutadiene	ND	ug/L	1	0.44	1.5	
Isopropylbenzene	ND	ug/L	1	0.23	0.77	
p-Isopropyltoluene	ND	ug/L	1	0.29	0.98	
Methylene chloride	[0.35]	ug/L	1	0.18	0.62	5
Naphthalene	ND	ug/L	1	0.41	1.4	
Nitrobenzene	ND	ug/L	1	4.5	16	
n-Propylbenzene	ND	ug/L	1	0.22	0.73	
Styrene	ND	ug/L	1	0.21	0.69	100
ortho-Xylene	ND	ug/L	1	0.22	0.72	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.16	0.56	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	0.93	
Tetrachloroethene	ND	ug/L	1	0.17	0.58	5
Toluene	ND	ug/L	1	0.12	0.41	1000
1,2,3-Trichlorobenzene	ND	ug/L	1	0.43	1.4	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.37	1.2	70

ANALYTICAL RESULTS: GCMS 524.2 Safe Drinking Water Analysis (Saturn 3)

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Customer: GeoTrans Inc

NLS Project: 63831

Project Description: FF/NN Landfill

Project Title: N734

Template: 524S3

Sample: 270412

Hadel

Collected: 11/19/01

Analyzed: 11/29/01

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL
1,1,1-Trichloroethane	[0.18]	ug/L	1	0.16	0.52	200
1,1,2-Trichloroethane	ND	ug/L	1	0.13	0.41	5
Trichloroethene	ND	ug/L	1	0.16	0.54	5
Trichlorofluoromethane	ND	ug/L	1	0.15	0.50	
1,2,3-Trichloropropane	ND	ug/L	1	0.27	0.90	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.29	0.98	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.86	
Vinyl chloride	ND	ug/L	1	0.14	0.48	.2
meta,para-Xylene	ND	ug/L	1	0.42	1.4	10000
MTBE	ND	ug/L	1	0.24	0.82	
4-Bromofluorobenzene (SURR)	91%					
1,2-Dichlorobenzene-d4 (SURR)	88%					

ANALYTICAL RESULTS: GCMS 524.2 Safe Drinking Water Analysis (Saturn 3)

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Customer: GeoTrans Inc

NLS Project: 63831

Project Description: FF/NN Landfill

Project Title: N734

Template: 524S3

Sample: 270413

Miller

Collected: 11/19/01

Analyzed: 11/29/01

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL
Benzene	ND	ug/L	1	0.13	0.46	5
Bromobenzene	ND	ug/L	1	0.21	0.70	
Bromochloromethane	ND	ug/L	1	0.19	0.62	
Bromodichloromethane	ND	ug/L	1	0.31	1.1	
Bromoform	ND	ug/L	1	0.46	1.5	
Bromomethane	ND	ug/L	1	0.15	0.50	
n-Butylbenzene	ND	ug/L	1	0.34	1.1	
sec-Butylbenzene	ND	ug/L	1	0.27	0.89	
tert-Butylbenzene	ND	ug/L	1	0.25	0.85	
Carbon Tetrachloride	ND	ug/L	1	0.14	0.45	5
Chlorobenzene	ND	ug/L	1	0.16	0.55	100
Chloroethane	ND	ug/L	1	0.17	0.59	
Chloroform	ND	ug/L	1	0.29	0.97	
Chloromethane	ND	ug/L	1	0.23	0.82	
2-Chlorotoluene	ND	ug/L	1	0.22	0.75	
4-Chlorotoluene	ND	ug/L	1	0.24	0.81	
Dibromochloromethane	ND	ug/L	1	0.35	1.2	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.41	1.4	
1,2-Dibromoethane	ND	ug/L	1	0.22	0.74	
Dibromomethane	ND	ug/L	1	0.19	0.63	
1,2-Dichlorobenzene	ND	ug/L	1	0.30	1.0	600
1,3-Dichlorobenzene	ND	ug/L	1	0.30	1.0	
1,4-Dichlorobenzene	ND	ug/L	1	0.31	1.0	75
Dichlorodifluoromethane	ND	ug/L	1	0.15	0.51	
1,1-Dichloroethane	ND	ug/L	1	0.15	0.50	
1,2-Dichloroethane	ND	ug/L	1	0.18	0.60	5
1,1-Dichloroethene	ND	ug/L	1	0.17	0.56	7
cis-1,2-Dichloroethene	ND	ug/L	1	0.18	0.60	70
trans-1,2-Dichloroethene	ND	ug/L	1	0.12	0.43	100
1,2-Dichloropropane	ND	ug/L	1	0.11	0.36	5
1,3-Dichloropropane	ND	ug/L	1	0.23	0.75	
2,2-Dichloropropane	ND	ug/L	1	0.14	0.46	
1,1-Dichloropropene	ND	ug/L	1	0.12	0.41	
cis-1,3-Dichloropropene	ND	ug/L	1	0.18	0.59	
trans-1,3-Dichloropropene	ND	ug/L	1	0.15	0.50	
Ethylbenzene	ND	ug/L	1	0.17	0.62	700
Hexachlorobutadiene	ND	ug/L	1	0.44	1.5	
Isopropylbenzene	ND	ug/L	1	0.23	0.77	
p-Isopropyltoluene	ND	ug/L	1	0.29	0.98	
Methylene chloride	[0.22]	ug/L	1	0.18	0.62	5
Naphthalene	ND	ug/L	1	0.41	1.4	
Nitrobenzene	ND	ug/L	1	4.5	16	
n-Propylbenzene	ND	ug/L	1	0.22	0.73	
Styrene	ND	ug/L	1	0.21	0.69	100
ortho-Xylene	ND	ug/L	1	0.22	0.72	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.16	0.56	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	0.93	
Tetrachloroethene	ND	ug/L	1	0.17	0.58	5
Toluene	ND	ug/L	1	0.12	0.41	1000
1,2,3-Trichlorobenzene	ND	ug/L	1	0.43	1.4	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.37	1.2	70

ANALYTICAL RESULTS: GCMS 524.2 Safe Drinking Water Analysis (Saturn 3)

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Customer: GeoTrans Inc

NLS Project: 63831

Project Description: FF/NN Landfill

Project Title: N734

Template: 524S3

Sample: 270413

Miller

Collected: 11/19/01

Analyzed: 11/29/01

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL
1,1,1-Trichloroethane	ND	ug/L	1	0.16	0.52	200
1,1,2-Trichloroethane	ND	ug/L	1	0.13	0.41	5
Trichloroethene	ND	ug/L	1	0.16	0.54	5
Trichlorofluoromethane	ND	ug/L	1	0.15	0.50	
1,2,3-Trichloropropane	ND	ug/L	1	0.27	0.90	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.29	0.98	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.86	
Vinyl chloride	ND	ug/L	1	0.14	0.48	.2
meta,para-Xylene	ND	ug/L	1	0.42	1.4	10000
MTBE	ND	ug/L	1	0.24	0.82	
4-Bromofluorobenzene (SURR)	94%					
1,2-Dichlorobenzene-d4 (SURR)	92%					

ANALYTICAL RESULTS: GCMS 524.2 Safe Drinking Water Analysis (Saturn 3)

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Customer: GeoTrans Inc

NLS Project: 63831

Project Description: FF/NN Landfill

Project Title: N734

Template: 524S3

Sample: 270414

Rohde

Collected: 11/19/01

Analyzed: 11/29/01

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL
Benzene	ND	ug/L	1	0.13	0.46	5
Bromobenzene	ND	ug/L	1	0.21	0.70	
Bromochloromethane	ND	ug/L	1	0.19	0.62	
Bromodichloromethane	ND	ug/L	1	0.31	1.1	
Bromoform	ND	ug/L	1	0.46	1.5	
Bromomethane	ND	ug/L	1	0.15	0.50	
n-Butylbenzene	ND	ug/L	1	0.34	1.1	
sec-Butylbenzene	ND	ug/L	1	0.27	0.89	
tert-Butylbenzene	ND	ug/L	1	0.25	0.85	
Carbon Tetrachloride	ND	ug/L	1	0.14	0.45	5
Chlorobenzene	ND	ug/L	1	0.16	0.55	100
Chloroethane	ND	ug/L	1	0.17	0.59	
Chloroform	ND	ug/L	1	0.29	0.97	
Chloromethane	ND	ug/L	1	0.23	0.82	
2-Chlorotoluene	ND	ug/L	1	0.22	0.75	
4-Chlorotoluene	ND	ug/L	1	0.24	0.81	
Dibromochloromethane	ND	ug/L	1	0.35	1.2	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.41	1.4	
1,2-Dibromoethane	ND	ug/L	1	0.22	0.74	
Dibromomethane	ND	ug/L	1	0.19	0.63	
1,2-Dichlorobenzene	ND	ug/L	1	0.30	1.0	600
1,3-Dichlorobenzene	ND	ug/L	1	0.30	1.0	
1,4-Dichlorobenzene	ND	ug/L	1	0.31	1.0	75
Dichlorodifluoromethane	ND	ug/L	1	0.15	0.51	
1,1-Dichloroethane	ND	ug/L	1	0.15	0.50	
1,2-Dichloroethane	ND	ug/L	1	0.18	0.60	5
1,1-Dichloroethene	ND	ug/L	1	0.17	0.56	7
cis-1,2-Dichloroethene	ND	ug/L	1	0.18	0.60	70
trans-1,2-Dichloroethene	ND	ug/L	1	0.12	0.43	100
1,2-Dichloropropane	ND	ug/L	1	0.11	0.36	5
1,3-Dichloropropane	ND	ug/L	1	0.23	0.75	
2,2-Dichloropropane	ND	ug/L	1	0.14	0.46	
1,1-Dichloropropene	ND	ug/L	1	0.12	0.41	
cis-1,3-Dichloropropene	ND	ug/L	1	0.18	0.59	
trans-1,3-Dichloropropene	ND	ug/L	1	0.15	0.50	
Ethylbenzene	ND	ug/L	1	0.17	0.62	700
Hexachlorobutadiene	ND	ug/L	1	0.44	1.5	
Isopropylbenzene	ND	ug/L	1	0.23	0.77	
p-Isopropyltoluene	ND	ug/L	1	0.29	0.98	
Methylene chloride	[0.18]	ug/L	1	0.18	0.62	5
Naphthalene	ND	ug/L	1	0.41	1.4	
Nitrobenzene	ND	ug/L	1	4.5	16	
n-Propylbenzene	ND	ug/L	1	0.22	0.73	
Styrene	ND	ug/L	1	0.21	0.69	100
ortho-Xylene	ND	ug/L	1	0.22	0.72	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.16	0.56	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	0.93	
Tetrachloroethene	ND	ug/L	1	0.17	0.58	5
Toluene	ND	ug/L	1	0.12	0.41	1000
1,2,3-Trichlorobenzene	ND	ug/L	1	0.43	1.4	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.37	1.2	70

ANALYTICAL RESULTS: GCMS 524.2 Safe Drinking Water Analysis (Saturn 3)

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Customer: GeoTrans Inc

NLS Project: 63831

Project Description: FF/NN Landfill

Project Title: N734

Template: 524S3

Sample: 270414

Rohde

Collected: 11/19/01

Analyzed: 11/29/01

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL
1,1,1-Trichloroethane	ND	ug/L	1	0.16	0.52	200
1,1,2-Trichloroethane	ND	ug/L	1	0.13	0.41	5
Trichloroethene	ND	ug/L	1	0.16	0.54	5
Trichlorofluoromethane	ND	ug/L	1	0.15	0.50	
1,2,3-Trichloropropane	ND	ug/L	1	0.27	0.90	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.29	0.98	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.86	
Vinyl chloride	ND	ug/L	1	0.14	0.48	.2
meta,para-Xylene	ND	ug/L	1	0.42	1.4	10000
MTBE	ND	ug/L	1	0.24	0.82	
4-Bromofluorobenzene (SURR)	82%					
1,2-Dichlorobenzene-d4 (SURR)	87%					

ANALYTICAL RESULTS: GCMS 524.2 Safe Drinking Water Analysis (Saturn 3)

Page 13 of 18

Customer: GeoTrans Inc

NLS Project: 63831

Project Description: FF/NN Landfill

Project Title: N734

Template: 524S3

Sample: 270415

Sauer

Collected: 11/19/01

Analyzed: 11/29/01

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL
Benzene	ND	ug/L	1	0.13	0.46	5
Bromobenzene	ND	ug/L	1	0.21	0.70	
Bromochloromethane	ND	ug/L	1	0.19	0.62	
Bromodichloromethane	ND	ug/L	1	0.31	1.1	
Bromoform	ND	ug/L	1	0.46	1.5	
Bromomethane	ND	ug/L	1	0.15	0.50	
n-Butylbenzene	ND	ug/L	1	0.34	1.1	
sec-Butylbenzene	ND	ug/L	1	0.27	0.89	
tert-Butylbenzene	ND	ug/L	1	0.25	0.85	
Carbon Tetrachloride	ND	ug/L	1	0.14	0.45	5
Chlorobenzene	ND	ug/L	1	0.16	0.55	100
Chloroethane	ND	ug/L	1	0.17	0.59	
Chloroform	ND	ug/L	1	0.29	0.97	
Chloromethane	ND	ug/L	1	0.23	0.82	
2-Chlorotoluene	ND	ug/L	1	0.22	0.75	
4-Chlorotoluene	ND	ug/L	1	0.24	0.81	
Dibromochloromethane	ND	ug/L	1	0.35	1.2	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.41	1.4	
1,2-Dibromoethane	ND	ug/L	1	0.22	0.74	
Dibromomethane	ND	ug/L	1	0.19	0.63	
1,2-Dichlorobenzene	ND	ug/L	1	0.30	1.0	600
1,3-Dichlorobenzene	ND	ug/L	1	0.30	1.0	
1,4-Dichlorobenzene	ND	ug/L	1	0.31	1.0	75
Dichlorodifluoromethane	ND	ug/L	1	0.15	0.51	
1,1-Dichloroethane	ND	ug/L	1	0.15	0.50	
1,2-Dichloroethane	ND	ug/L	1	0.18	0.60	5
1,1-Dichloroethene	ND	ug/L	1	0.17	0.56	7
cis-1,2-Dichloroethene	ND	ug/L	1	0.18	0.60	70
trans-1,2-Dichloroethene	ND	ug/L	1	0.12	0.43	100
1,2-Dichloropropane	ND	ug/L	1	0.11	0.36	5
1,3-Dichloropropane	ND	ug/L	1	0.23	0.75	
2,2-Dichloropropane	ND	ug/L	1	0.14	0.46	
1,1-Dichloropropene	ND	ug/L	1	0.12	0.41	
cis-1,3-Dichloropropene	ND	ug/L	1	0.18	0.59	
trans-1,3-Dichloropropene	ND	ug/L	1	0.15	0.50	
Ethylbenzene	ND	ug/L	1	0.17	0.62	700
Hexachlorobutadiene	ND	ug/L	1	0.44	1.5	
Isopropylbenzene	ND	ug/L	1	0.23	0.77	
p-Isopropyltoluene	ND	ug/L	1	0.29	0.98	
Methylene chloride	[0.31]	ug/L	1	0.18	0.62	5
Naphthalene	ND	ug/L	1	0.41	1.4	
Nitrobenzene	ND	ug/L	1	4.5	16	
n-Propylbenzene	ND	ug/L	1	0.22	0.73	
Styrene	ND	ug/L	1	0.21	0.69	100
ortho-Xylene	ND	ug/L	1	0.22	0.72	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.16	0.56	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	0.93	
Tetrachloroethene	ND	ug/L	1	0.17	0.58	5
Toluene	ND	ug/L	1	0.12	0.41	1000
1,2,3-Trichlorobenzene	ND	ug/L	1	0.43	1.4	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.37	1.2	70

ANALYTICAL RESULTS: GCMS 524.2 Safe Drinking Water Analysis (Saturn 3)

Page 14 of 18

Customer: GeoTrans Inc NLS Project: 63831

Project Description: FF/NN Landfill

Project Title: N734

Template: 524S3

Sample: 270415 Sauer

Collected: 11/19/01

Analyzed: 11/29/01

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL
1,1,1-Trichloroethane	ND	ug/L	1	0.16	0.52	200
1,1,2-Trichloroethane	ND	ug/L	1	0.13	0.41	5
Trichloroethene	ND	ug/L	1	0.16	0.54	5
Trichlorofluoromethane	ND	ug/L	1	0.15	0.50	
1,2,3-Trichloropropane	ND	ug/L	1	0.27	0.90	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.29	0.98	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.86	
Vinyl chloride	ND	ug/L	1	0.14	0.48	.2
meta,para-Xylene	ND	ug/L	1	0.42	1.4	10000
MTBE	ND	ug/L	1	0.24	0.82	
4-Bromofluorobenzene (SURR)	92%					
1,2-Dichlorobenzene-d4 (SURR)	91%					

ANALYTICAL RESULTS: GCMS 524.2 Safe Drinking Water Analysis (Saturn 3)

Page 15 of 18

Customer: GeoTrans Inc

NLS Project: 63831

Project Description: FF/NN Landfill

Project Title: N734

Template: 524S3

Sample: 270416

Weiss

Collected: 11/19/01

Analyzed: 11/29/01

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL
Benzene	ND	ug/L	1	0.13	0.46	5
Bromobenzene	ND	ug/L	1	0.21	0.70	
Bromochloromethane	ND	ug/L	1	0.19	0.62	
Bromodichloromethane	ND	ug/L	1	0.31	1.1	
Bromoform	ND	ug/L	1	0.46	1.5	
Bromomethane	ND	ug/L	1	0.15	0.50	
n-Butylbenzene	ND	ug/L	1	0.34	1.1	
sec-Butylbenzene	ND	ug/L	1	0.27	0.89	
tert-Butylbenzene	ND	ug/L	1	0.25	0.85	
Carbon Tetrachloride	ND	ug/L	1	0.14	0.45	5
Chlorobenzene	ND	ug/L	1	0.16	0.55	100
Chloroethane	ND	ug/L	1	0.17	0.59	
Chloroform	ND	ug/L	1	0.29	0.97	
Chloromethane	ND	ug/L	1	0.23	0.82	
2-Chlorotoluene	ND	ug/L	1	0.22	0.75	
4-Chlorotoluene	ND	ug/L	1	0.24	0.81	
Dibromochloromethane	ND	ug/L	1	0.35	1.2	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.41	1.4	
1,2-Dibromoethane	ND	ug/L	1	0.22	0.74	
Dibromomethane	ND	ug/L	1	0.19	0.63	
1,2-Dichlorobenzene	ND	ug/L	1	0.30	1.0	600
1,3-Dichlorobenzene	ND	ug/L	1	0.30	1.0	
1,4-Dichlorobenzene	ND	ug/L	1	0.31	1.0	75
Dichlorodifluoromethane	ND	ug/L	1	0.15	0.51	
1,1-Dichloroethane	ND	ug/L	1	0.15	0.50	
1,2-Dichloroethane	ND	ug/L	1	0.18	0.60	5
1,1-Dichloroethene	ND	ug/L	1	0.17	0.56	7
cis-1,2-Dichloroethene	ND	ug/L	1	0.18	0.60	70
trans-1,2-Dichloroethene	ND	ug/L	1	0.12	0.43	100
1,2-Dichloropropane	ND	ug/L	1	0.11	0.36	5
1,3-Dichloropropane	ND	ug/L	1	0.23	0.75	
2,2-Dichloropropane	ND	ug/L	1	0.14	0.46	
1,1-Dichloropropene	ND	ug/L	1	0.12	0.41	
cis-1,3-Dichloropropene	ND	ug/L	1	0.18	0.59	
trans-1,3-Dichloropropene	ND	ug/L	1	0.15	0.50	
Ethylbenzene	ND	ug/L	1	0.17	0.62	700
Hexachlorobutadiene	ND	ug/L	1	0.44	1.5	
Isopropylbenzene	ND	ug/L	1	0.23	0.77	
p-Isopropyltoluene	ND	ug/L	1	0.29	0.98	
Methylene chloride	[0.34]	ug/L	1	0.18	0.62	5
Naphthalene	ND	ug/L	1	0.41	1.4	
Nitrobenzene	ND	ug/L	1	4.5	16	
n-Propylbenzene	ND	ug/L	1	0.22	0.73	
Styrene	ND	ug/L	1	0.21	0.69	100
ortho-Xylene	ND	ug/L	1	0.22	0.72	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.16	0.56	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	0.93	
Tetrachloroethene	ND	ug/L	1	0.17	0.58	5
Toluene	ND	ug/L	1	0.12	0.41	1000
1,2,3-Trichlorobenzene	ND	ug/L	1	0.43	1.4	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.37	1.2	70

ANALYTICAL RESULTS: GCMS 524.2 Safe Drinking Water Analysis (Saturn 3)

Page 16 of 18

Customer: GeoTrans Inc

NLS Project: 63831

Project Description: FF/NN Landfill

Project Title: N734

Template: 524S3

Sample: 270416 Weiss

Collected: 11/19/01

Analyzed: 11/29/01

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL
1,1,1-Trichloroethane	ND	ug/L	1	0.16	0.52	200
1,1,2-Trichloroethane	ND	ug/L	1	0.13	0.41	5
Trichloroethene	ND	ug/L	1	0.16	0.54	5
Trichlorofluoromethane	ND	ug/L	1	0.15	0.50	
1,2,3-Trichloropropane	ND	ug/L	1	0.27	0.90	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.29	0.98	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.86	
Vinyl chloride	ND	ug/L	1	0.14	0.48	.2
meta,para-Xylene	ND	ug/L	1	0.42	1.4	10000
MTBE	ND	ug/L	1	0.24	0.82	
4-Bromofluorobenzene (SURR)	88%					
1,2-Dichlorobenzene-d4 (SURR)	88%					

ANALYTICAL RESULTS: GCMS 524.2 Safe Drinking Water Analysis (Saturn 3)

Page 17 of 18

Customer: GeoTrans Inc

NLS Project: 63831

Project Description: FF/NN Landfill

Project Title: N734

Template: 524S3

Sample: 270417

Miller Dup

Collected: 11/19/01

Analyzed: 11/30/01

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL
Benzene	ND	ug/L	1	0.13	0.46	5
Bromobenzene	ND	ug/L	1	0.21	0.70	
Bromochloromethane	ND	ug/L	1	0.19	0.62	
Bromodichloromethane	ND	ug/L	1	0.31	1.1	
Bromoform	ND	ug/L	1	0.46	1.5	
Bromomethane	ND	ug/L	1	0.15	0.50	
n-Butylbenzene	ND	ug/L	1	0.34	1.1	
sec-Butylbenzene	ND	ug/L	1	0.27	0.89	
tert-Butylbenzene	ND	ug/L	1	0.25	0.85	
Carbon Tetrachloride	ND	ug/L	1	0.14	0.45	5
Chlorobenzene	ND	ug/L	1	0.16	0.55	100
Chloroethane	ND	ug/L	1	0.17	0.59	
Chloroform	ND	ug/L	1	0.29	0.97	
Chloromethane	ND	ug/L	1	0.23	0.82	
2-Chlorotoluene	ND	ug/L	1	0.22	0.75	
4-Chlorotoluene	ND	ug/L	1	0.24	0.81	
Dibromochloromethane	ND	ug/L	1	0.35	1.2	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.41	1.4	
1,2-Dibromoethane	ND	ug/L	1	0.22	0.74	
Dibromomethane	ND	ug/L	1	0.19	0.63	
1,2-Dichlorobenzene	ND	ug/L	1	0.30	1.0	600
1,3-Dichlorobenzene	ND	ug/L	1	0.30	1.0	
1,4-Dichlorobenzene	ND	ug/L	1	0.31	1.0	75
Dichlorodifluoromethane	ND	ug/L	1	0.15	0.51	
1,1-Dichloroethane	ND	ug/L	1	0.15	0.50	
1,2-Dichloroethane	ND	ug/L	1	0.18	0.60	5
1,1-Dichloroethene	ND	ug/L	1	0.17	0.56	7
cis-1,2-Dichloroethene	ND	ug/L	1	0.18	0.60	70
trans-1,2-Dichloroethene	ND	ug/L	1	0.12	0.43	100
1,2-Dichloropropane	ND	ug/L	1	0.11	0.36	5
1,3-Dichloropropane	ND	ug/L	1	0.23	0.75	
2,2-Dichloropropane	ND	ug/L	1	0.14	0.46	
1,1-Dichloropropene	ND	ug/L	1	0.12	0.41	
cis-1,3-Dichloropropene	ND	ug/L	1	0.18	0.59	
trans-1,3-Dichloropropene	ND	ug/L	1	0.15	0.50	
Ethylbenzene	ND	ug/L	1	0.17	0.62	700
Hexachlorobutadiene	ND	ug/L	1	0.44	1.5	
Isopropylbenzene	ND	ug/L	1	0.23	0.77	
p-Isopropyltoluene	ND	ug/L	1	0.29	0.98	
Methylene chloride	[0.32]	ug/L	1	0.18	0.62	5
Naphthalene	ND	ug/L	1	0.41	1.4	
Nitrobenzene	ND	ug/L	1	4.5	16	
n-Propylbenzene	ND	ug/L	1	0.22	0.73	
Styrene	ND	ug/L	1	0.21	0.69	100
ortho-Xylene	ND	ug/L	1	0.22	0.72	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.16	0.56	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	0.93	
Tetrachloroethene	ND	ug/L	1	0.17	0.58	5
Toluene	ND	ug/L	1	0.12	0.41	1000
1,2,3-Trichlorobenzene	ND	ug/L	1	0.43	1.4	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.37	1.2	70

Customer: GeoTrans Inc

NLS Project: 63831

Project Description: FF/NN Landfill

Project Title: N734

Template: 524S3

Sample: 270417 Miller Dup

Collected: 11/19/01

Analyzed: 11/30/01

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL
1,1,1-Trichloroethane	ND	ug/L	1	0.16	0.52	200
1,1,2-Trichloroethane	ND	ug/L	1	0.13	0.41	5
Trichloroethene	ND	ug/L	1	0.16	0.54	5
Trichlorofluoromethane	ND	ug/L	1	0.15	0.50	
1,2,3-Trichloropropane	ND	ug/L	1	0.27	0.90	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.29	0.98	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.86	
Vinyl chloride	ND	ug/L	1	0.14	0.48	.2
meta,para-Xylene	ND	ug/L	1	0.42	1.4	10000
MTBE	ND	ug/L	1	0.24	0.82	
4-Bromofluorobenzene (SURR)	87%					
1,2-Dichlorobenzene-d4 (SURR)	88%					

Chromatogram Plot

C:\SATURN\DATA\UVELK1129

Date: 11/29/01 09:49:54

Comment: 524_1X LAB BLANK

SATURN 3

Scan: 1 Seg: 1 Group: 0 Retention: 0.00 RIC: 0

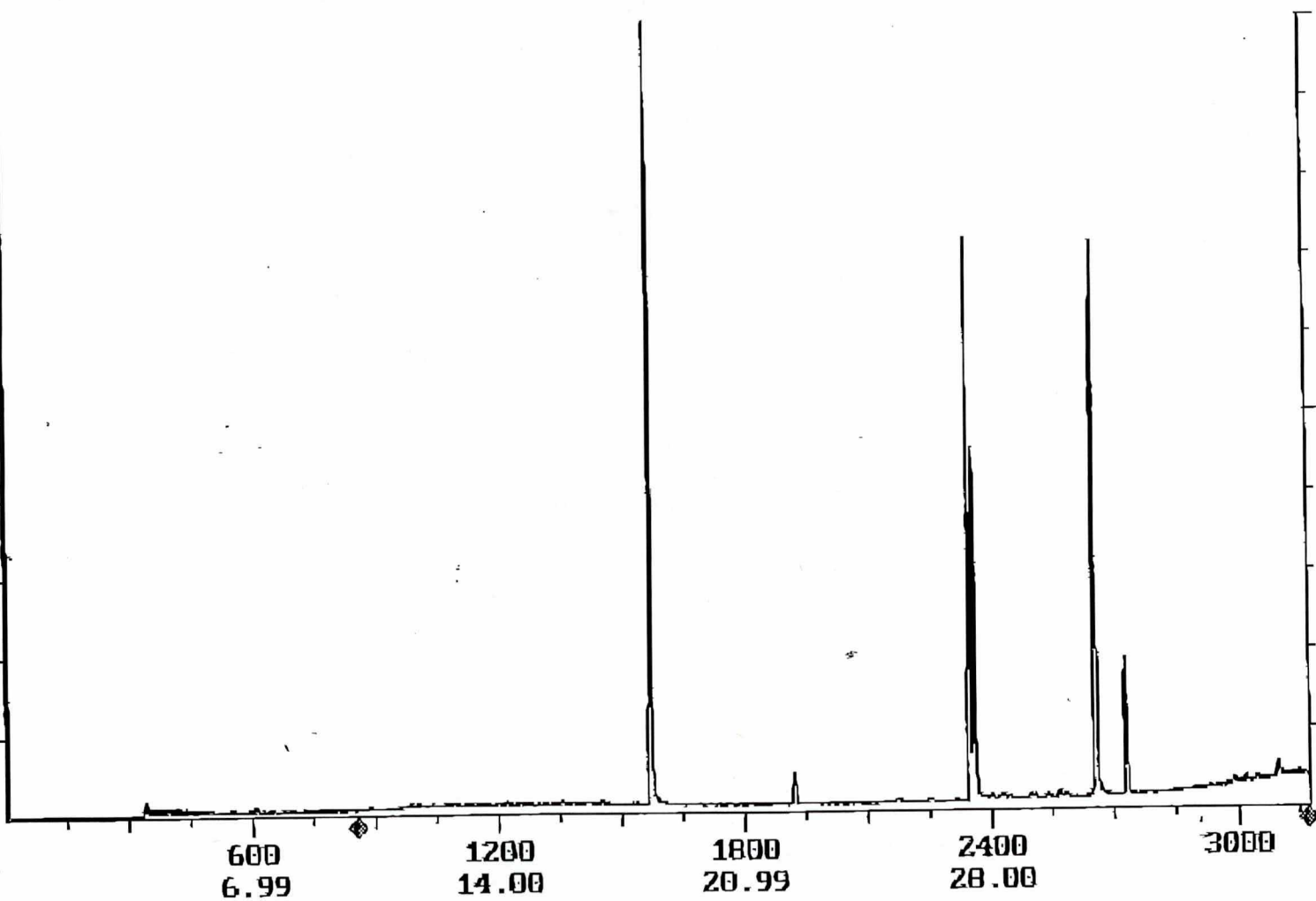
Masses: 0-0

Plotted: 1 to 3171 Range: 1 to 3171

100% = 166655

100%

TOT



Post-It Fax Note		7671
To	Senny R. Icar	
Co./Dept	VDRK-05KSL	
Phone #		
Fax #	920-424-4404	
Date	12-18-01	# of pages 4
From	Steve Miskin	
Co.	NLS	
Phone #	715-478-2772	
Fax #		

report.txt - 11/30/01 06:56:36

ANALYTICAL RESULTS - INSTRUMENT: saturn3-524

PRINTED: 11-30-2001 06:56:18

PAGE#: 29

VBLK1129

Acquired: 11/29/01 09:49:54 File: VBLK1129.QD
 Method: - CAL-DATE:
 Final Conc. = (X)(Y mL)/(Z mL) inst-units=
 where X = concentration from calibration curve
 Y = 5 = total volume purged
 Z = 5 = volume of sample purged

COMPOUND	RET/SCAN	AREA	INST	FINAL ()	
1 Fluorobenzene-(ISTD)	18:19 1571	364369	5	5.000	1
2 SUR_4-Bromofluorobenze	27:23 2348	168070	4.62	92.4%	2
3 SUR_1,2-DCB-d4	30:59 2657	99429	4.562	91.24%	3
4 Dichlorodifluoromethan	3:57 340	430	0.035	0.035	4
5 Chloromethane	5:10 444	413	0.032	0.032	5
6 Vinyl Chloride	0:00 500	0	0	0.000	6
7 Bromomethane	7:37 654	439	0.057	0.057	7
8 Chloroethane	0:00 705	0	0	0.000	8
9 Trichlorofluoromethane	0:00 806	0	0	0.000	9
10 1,1-Dichloroethane	0:00 963	0	0	0.000	10
11 1,1,2-Trichloroethane	0:00 977	0	0	0.000	11
12 Methylene Chloride	12:45 1093	834	0.024	0.024	12
13 Trans-1,2-Dichloroethe	0:00 1158	0	0	0.000	13
14 MTBE	0:00 1161	0	0	0.000	14
15 1,1-Dichloroethane	0:00 1246	0	0	0.000	15
16 2,2-Dichloropropane	0:00 1360	0	0	0.000	16
17 Cis-1,2-Dichloroethene	0:00 1362	0	0	0.000	17
18 Bromochloromethane	0:00 1406	0	0	0.000	18
19 Chloroform	0:00 1422	0	0	0.000	19
20 1,1,1-Trichloroethane	16:58 1455	1277	0.036	0.036	20
21 1,1-Dichloropropene	0:00 1503	0	0	0.000	21
22 Carbon Tetrachloride	0:00 1486	0	0	0.000	22
23 Benzene	0:00 1524	0	0	0.000	23
24 1,2-Dichloroethane	0:00 1537	0	0	0.000	24
25 Trichloroethene	0:00 1637	0	0	0.000	25
26 1,2-Dichloropropane	0:00 1678	0	0	0.000	26
27 Dibromomethane	0:00 1700	0	0	0.000	27
28 Bromodichloromethane	20:08 1726	38	0.003	0.003	28
29 Cis-1,3-Dichloropropen	0:00 1805	0	0	0.000	29
30 Toluene	21:49 1870	566	0.019	0.019	30
31 Trans-1,3-Dichloroprop	0:00 1907	0	0	0.000	31
32 1,1,2-Trichloroethane	0:00 1937	0	0	0.000	32
33 1,3-Dichloropropane	0:00 1969	0	0	0.000	33
34 Tetrachloroethane	22:58 1970	225	0.014	0.014	34
35 Dibromochloromethane	23:31 2016	28	0.003	0.003	35
36 1,2-Dibromoethane	23:49 2042	32	0.002	0.002	36
37 Chlorobenzene	24:53 2134	672	0.013	0.013	37
38 1,1,1,2-Tetrachloroeth	25:00 2143	109	0.005	0.005	38
39 Ethylbenzene	25:05 2151	1344	0.016	0.016	39
40 meta & para Xylene	25:20 2172	1642	0.049	0.049	40
41 ortho Xylene	26:13 2248	854	0.027	0.027	41
42 Styrene	26:17 2254	998	0.023	0.023	42
43 Bromoform	0:00 2288	0	0	0.000	43
44 Isopropylbenzene	27:01 2317	1947	0.024	0.024	44
45 1,1,2,2-Tetrachloroeth	0:00 2370	0	0	0.000	45
46 1,2,3-Trichloropropane	27:48 2384	32	0.007	0.007	46
47 Bromobenzene	27:48 2363	498	0.021	0.021	47
48 n-Propylbenzene	27:59 2399	2054	0.023	0.023	48
49 2-Chlorotoluene	28:14 2421	1660	0.03	0.030	49
50 1,3,5-Trimethylbenzene	28:21 2430	2935	0.04	0.040	50
51 4-Chlorotoluene	28:30 2443	2142	0.033	0.033	51
52 tert-Butylbenzene	29:08 2497	2574	0.036	0.036	52
53 1,2,4-Trimethylbenzene	29:14 2507	2479	0.035	0.035	53
54 sec-Butylbenzene	29:38 2541	2575	0.033	0.033	54
55 4-Isopropyltoluene	29:57 2568	2492	0.037	0.037	55
56 1,3-Dichlorobenzene	29:59 2571	1731	0.049	0.049	56
57 1,4-Dichlorobenzene	30:10 2587	1964	0.053	0.053	57
58 n-Butylbenzene	30:58 2655	3448	0.058	0.058	58

most samples ran on 11/29, one sample ran on 11/30.
 Call back if you have any additional questions.

Chromatogram Plot

C:\SATURN\DATA\UBLK1130

Date: 11/30/01 13:11:07

Comment: 524_1X LAB BLANK

SATURN 3

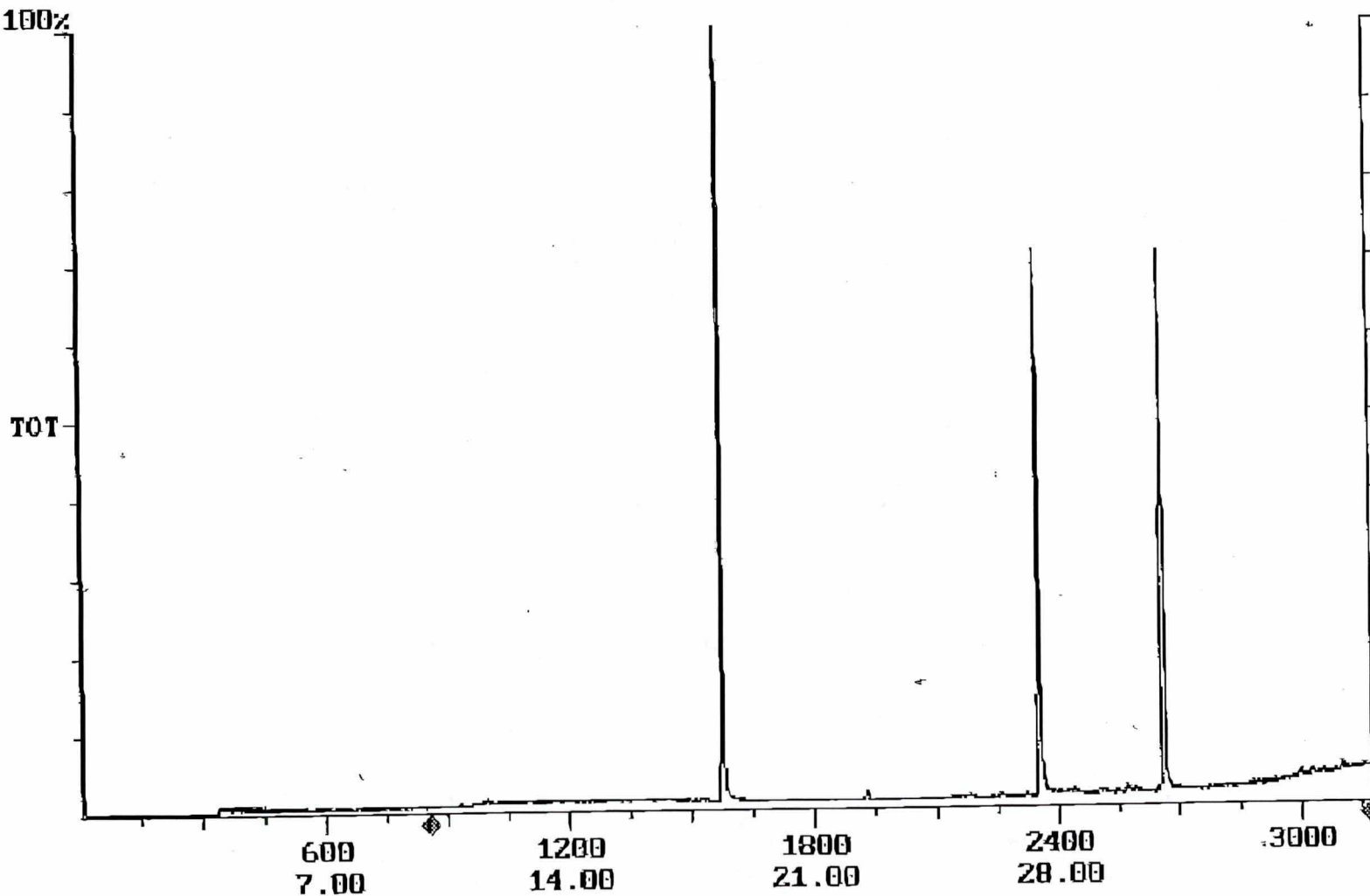
Scan: 1 Seg: 1 Group: 0 Retention: 0.00 RIC: 0

Masses: 0-0

Plotted: 1 to 3171

Range: 1 to 3171

100% = 157301



report.txt - 12/03/01 07:04:18

ANALYTICAL RESULTS - INSTRUMENT: saturn3-524
 PRINTED: 12-03-2001 07:03:54
 PAGE#: 29

VBLK1130

Acquired: 11/30/01 13:11:07 File: VBLK1130.QD
 Method: - CAL-DATE:
 Final Conc. = (X)(Y mL)/(Z mL) inst-units=
 where X = concentration from calibration curve
 Y = 5 = total volume purged
 Z = 5 = volume of sample purged

COMPOUND	RET/SCAN	AREA	INST	FINAL()	
1 Fluorobenzene-(ISTD)	18:23 1577	341351	5	5.000	1
2 SUR 4-Bromofluorobenza	27:27 2354	155565	4.564	91.28%	2
3 SUR_1,2-DCB-d4	31:04 2664	89978	4.406	88.12%	3
4 Dichlorodifluoromethan	0:00 355	0	0	0.000	4
5 Chloromethane	5:12 447	510	0.042	0.042	5
6 Vinyl Chloride	0:00 506	0	0	0.000	6
7 Bromomethane	7:44 663	207	0.029	0.029	7
8 Chloroethane	0:00 705	0	0	0.000	8
9 Trichlorofluoromethane	9:26 810	90	0.004	0.004	9
10 1,1-Dichloroethene	0:00 963	0	0	0.000	10
11 1,1,2-Trichlorotrifluo	0:00 977	0	0	0.000	11
12 Methylene Chloride	12:48 1098	630	0.019	0.019	12
13 Trans-1,2-Dichloroethe	0:00 1158	0	0	0.000	13
14 MTBE	0:00 1161	0	0	0.000	14
15 1,1-Dichloroethane	0:00 1246	0	0	0.000	15
16 2,2-Dichloropropane	0:00 1360	0	0	0.000	16
17 Cis-1,2-Dichloroethene	0:00 1362	0	0	0.000	17
18 Bromochloromethane	0:00 1407	0	0	0.000	18
19 Chloroform	0:00 1422	0	0	0.000	19
20 1,1,1-Trichloroethane	17:01 1460	223	0.007	0.007	20
21 1,1-Dichloropropene	0:00 1486	0	0	0.000	21
22 Carbon Tetrachloride	0:00 1494	0	0	0.000	22
23 Benzene	0:00 1524	0	0	0.000	23
24 1,2-Dichloroethane	0:00 1525	0	0	0.000	24
25 Trichloroethene	0:00 1639	0	0	0.000	25
26 1,2-Dichloropropane	0:00 1688	0	0	0.000	26
27 Dibromomethane	0:00 1700	0	0	0.000	27
28 Bromodichloromethane	0:00 1726	0	0	0.000	28
29 Cis-1,3-Dichloropropen	0:00 1805	0	0	0.000	29
30 Toluene	21:53 1876	213	0.008	0.008	30
31 Trans-1,3-Dichloroprop	0:00 1903	0	0	0.000	31
32 1,1,2-Trichloroethane	0:00 1937	0	0	0.000	32
33 1,3-Dichloropropane	0:00 1958	0	0	0.000	33
34 Tetrachloroethene	23:04 1978	82	0.006	0.006	34
35 Dibromochloromethane	0:00 2014	0	0	0.000	35
36 1,2-Dibromoethane	0:00 2038	0	0	0.000	36
37 Chlorobenzene	25:00 2143	618	0.013	0.013	37
38 1,1,1,2-Tetrachloroeth	25:03 2148	30	0.002	0.002	38
39 Ethylbenzene	25:10 2157	1054	0.013	0.013	39
40 meta & para Xylene	25:24 2178	1268	0.04	0.040	40
41 ortho Xylene	26:17 2254	739	0.025	0.025	41
42 Styrene	26:22 2261	1069	0.027	0.027	42
43 Bromoform	0:00 2288	0	0	0.000	43
44 Isopropylbenzene	27:06 2323	1989	0.026	0.026	44
45 1,1,2,2-Tetrachloroath	0:00 2370	0	0	0.000	45
46 1,2,3-Trichloropropane	0:00 2381	0	0	0.000	46
47 Bromobenzene	27:53 2391	566	0.026	0.026	47
48 n-Propylbenzene	28:04 2406	1776	0.021	0.021	48
49 2-Chlorotoluene	28:18 2426	2219	0.038	0.038	49
50 1,3,5-Trimethylbenzene	28:25 2437	2551	0.037	0.037	50
51 4-Chlorotoluene	28:33 2448	1815	0.03	0.030	51
52 tert-Butylbenzene	29:12 2504	2897	0.043	0.043	52
53 1,2,4-Trimethylbenzene	29:19 2514	2073	0.031	0.031	53
54 sec-Butylbenzene	29:43 2546	2351	0.032	0.032	54
55 4-Isopropyltoluene	30:01 2574	2080	0.033	0.033	55
56 1,3-Dichlorobenzene	30:04 2578	1724	0.052	0.052	56
57 1,4-Dichlorobenzene	30:04 2578	1724	0.05	0.050	57
58 n-Butylbenzene	31:02 2661	3316	0.059	0.059	58

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