

## ANALYTICAL REPORT

Mr. Kevin Lincicum  
GEOTRANS, INC.  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

03/23/2005  
Job No: 05.01419  
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The following samples were received by TestAmerica for analysis:

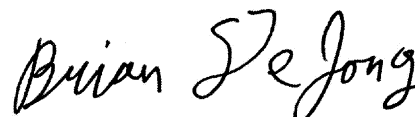
2624.001 MHA Nation Refinery

Sample Number	Sample Description	Date Taken	Date Received
607085	P-5	02/23/2005	02/28/2005
607086	P-4	02/23/2005	02/28/2005
607087	MW-4	02/24/2005	02/28/2005
607088	MW-3	02/24/2005	02/28/2005
607089	MW-2	02/24/2005	02/28/2005
607090	Trip Blank	02/23/2005	02/28/2005

### CASE NARRATIVE

The results for samples 607085-607089 are flagged for PCB-1260. PCB-1260 appeared in the extraction blank for these samples at a level of 5.2 ug/L, which is above the LOQ. PCB-1260 was not detected above the MDL in any of the samples.

The PCB extract for sample 607087 was destroyed due to a lab spiking error. The Pesticide extract for this sample was used for both PCB and Pesticide analysis.



Brian DeJong  
Organic Operations Manager

GEOTRANS, INC.  
Job No: 05.01419

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## KEY TO DATA FLAGS

The attached sample(s) may have a result flag shown on the report. The following are the result flag definitions:

A = Analyzed/extracted past hold time	B = Blank is contaminated
C = Standard outside of control limits	D = Diluted for analysis
E = TCLP extraction outside of method required temperature range	
F = Sample filtered in lab	G = Received past hold time
H = Late eluting hydrocarbons present	I = Improperly handled sample
J = Estimated concentration	L = Common lab solvent
M = Matrix interference	P = Improperly preserved sample
Q = Result confirmed via re-analysis	S = Sediment present
T = Does not match typical pattern	W = BOD re-set due to missed dilution
X = Unidentified compound(s) present	Z = Internal standard outside limits
* = See Case Narrative	

## KEY TO ANALYST INITIALS

The attached sample(s) may have been analyzed by another certified laboratory. If a number appears in the Analyst Initials field, the following are the appropriate certifications (if the lab code does not appear below, that means that certification is not required for the work performed):

Lab Code	Certification Number
-----	-----
008	WDNR - 999766900
009	WDNR - 241293690
013	WDNR - 999917160; ILNELAC - 100261
020	WDNR - 999447680
030	ILNELAC - 100230; WDNR - 998294430
060	ILNELAC - 100221; WDNR - 999447130
070	IA - 007; ILNELAC - 000668; MDH - 019-999-319; WDNR - 999917270
090	ILNELAC 200006; WDNR - 399031270
130	WDNR - 632021390
147	WDNR - 721026460
148	WDNR - 399017190
300	FLNELAC - 87358; IA - 131; MDH - 047-999-345; WDNR - 998020430
400	WDNR - 113133790
510	WDNR - 241249360
520	WDNR - 999518190; ILNELAC - 100439
700	WDNR - 113289110

TestAmerica Watertown Certifications: WI DNR - 128053530; IL NELAC - 100453; IA DNR - 294; MN DoH - 055-999-366; ND DoH R-046; AR DEQ - 88-0808

Unless sub-contracted (see above), volatiles analyses (including VOC, PVOC, GRO, BTEX and TPH Gasoline) performed by TestAmerica Watertown at 1101 Industrial Drive, Units 9&10. All other analyses performed at 602 Commerce Drive, Watertown WI 53094.

Results reported between the Method Detection Limit (MDL) and Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.

For questions regarding this report, please contact Dan Milewsky or Warren Topel.

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03/23/2005  
Job No: 05.01419  
Sample No: 607085  
Account No: 39150  
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JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: P-5  
Makoti, ND  
Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/23/2005 12:50

Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	
Alkalinity, bicarb (CaCO3)	990	mg/L	10	33	EPA 310.2	03/03/2005	gaf	463
Alkalinity, carbonate (CaCO3)	<10	mg/L	10	33	EPA 310.2	03/03/2005	gaf	463
Alkalinity, total (CaCO3)	990	mg/L	10	33	EPA 310.2	03/03/2005	gaf	1297
Chloride	72	mg/L	1.0	3.3	EPA 325.2	03/01/2005	gaf	2490
Hardness, Total	1,080	mg/L	4.0	12	EPA 130.2	03/08/2005	sjf	1111
N-Nitrate + Nitrite	P 0.087	mg/L	0.024	0.084	EPA 353.2	03/03/2005	tds	1772
Solids, Total Dissolved	4,200	mg/L	1.0	3.3	EPA 160.1	03/01/2005	ec1	1389
Sulfate, IC	2,300	mg/L	2.0	6.7	EPA 300.0	03/03/2005	tds	1930
Arsenic, Dissolved, GFAA	<0.00079	mg/L	0.00079	0.0028	EPA 206.2	03/03/2005	gaf	1135
Barium, Dissolved, ICP	0.11	mg/L	0.0012	0.0043	SW 6010B	03/02/2005	mmm	2176
Cadmium, Dissolved, ICP	0.0078	mg/L	0.0011	0.0040	SW 6010B	03/02/2005	mmm	1971
Calcium, Dissolved, ICP	190	mg/L	0.013	0.047	SW 6010B	03/02/2005	mmm	1958
Chromium, Dissolved, ICP	<0.0021	mg/L	0.0021	0.0072	SW 6010B	03/02/2005	mmm	1987
Iron, Dissolved, ICP	0.34	mg/L	0.016	0.053	SW 6010B	03/02/2005	mmm	2005
Lead, Dissolved, GFAA	<0.00044	mg/L	0.00044	0.0016	EPA 239.2	03/02/2005	gaf	2614
Magnesium, Dissolved, ICP	160	mg/L	0.013	0.047	SW 6010B	03/02/2005	mmm	1951
Manganese, Dissolved, ICP	1.3	mg/L	0.00096	0.0032	SW 6010B	03/02/2005	mmm	1948
Mercury, Dissolved, CVAA	<0.000092	mg/L	0.000092	0.00033	EPA 245.1	03/07/2005	mmm	80 2160
Potassium, Dissolved, ICP	9.5	mg/L	0.019	0.067	SW 6010B	03/02/2005	mmm	1944
Selenium, Dissolved, GFAA	<0.0032	mg/L	0.0032	0.011	EPA 270.2	03/03/2005	gaf	880
Silver, Dissolved, ICP	<0.0013	mg/L	0.0013	0.0046	SW 6010B	03/02/2005	mmm	1965
Sodium, Dissolved ICP	800	mg/L	0.010	0.035	SW 6010B	03/02/2005	mmm	1961
Prep, PCB - AQUEOUS	Complete					03/02/2005	300	409
Prep, Pesticides/PCB AQUEOUS	Complete					03/02/2005	300	191
PCB'S - 8082 AQUEOUS							300	
PCB-1016	<0.17	ug/L	0.17	0.51	SW 8082	03/08/2005	300	409 539
PCB-1221	<0.44	ug/L	0.44	1.3	SW 8082	03/08/2005	300	409 539
PCB-1232	<0.29	ug/L	0.29	0.87	SW 8082	03/08/2005	300	409 539
PCB-1242	<0.34	ug/L	0.34	1.0	SW 8082	03/08/2005	300	409 539
PCB-1248	<0.58	ug/L	0.58	1.7	SW 8082	03/08/2005	300	409 539
PCB-1254	<0.30	ug/L	0.30	0.90	SW 8082	03/08/2005	300	409 539
PCB-1260	B <0.97	ug/L	0.97	2.9	SW 8082	03/08/2005	300	409 539
Surr: TCMX	82	%	n/a	n/a	SW 8082	03/08/2005	300	409 539
Surr: DCB	58	%	n/a	n/a	SW 8082	03/08/2005	300	409 539
PESTICIDES - 8081 AQUEOUS							300	
Aldrin	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191 161
alpha-BHC	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191 161
beta-BHC	<0.05	ug/L	0.05	0.15	SW 8081	03/05/2005	300	191 161
delta-BHC	<0.04	ug/L	0.04	1.2	SW 8081	03/05/2005	300	191 161

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 Job No: 05.01419  
 Sample No: 607085  
 Account No: 39150  
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JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
 PROJECT DESCRIPTION: Groundwater Analysis  
 SAMPLE DESCRIPTION: P-5  
 Makoti, ND  
 Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/23/2005 12:50 Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	Batch
gamma-BHC (Lindane)	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Chlordane	<0.09	ug/L	0.09	0.27	SW 8081	03/05/2005	300	191	161
4,4'-DDD	<0.06	ug/L	0.06	0.18	SW 8081	03/05/2005	300	191	161
4,4'-DDE	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
4,4'-DDT	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Dieldrin	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Endosulfan I	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Endosulfan II	<0.06	ug/L	0.06	0.18	SW 8081	03/05/2005	300	191	161
Endosulfan sulfate	<0.05	ug/L	0.05	0.15	SW 8081	03/05/2005	300	191	161
Endrin	<0.05	ug/L	0.05	0.15	SW 8081	03/05/2005	300	191	161
Endrin aldehyde	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Heptachlor	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Heptachlor epoxide	<0.03	ug/L	0.03	0.09	SW 8081	03/05/2005	300	191	161
Methoxychlor	<0.06	ug/L	0.06	0.18	SW 8081	03/05/2005	300	191	161
Toxaphene	<0.59	ug/L	0.59	1.8	SW 8081	03/05/2005	300	191	161
Surr: TCMX	96	%		54-120	SW 8081	03/05/2005	300	191	161
Surr: DCB	71	%		21-100	SW 8081	03/05/2005	300	191	161
VOC - AQUEOUS - EPA 8260B									
Benzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromochloromethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
Bromodichloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromoform	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
n-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
sec-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae		7145
tert-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Carbon Tetrachloride	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
Chlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Chlorodibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Chloroethane	<1.0	ug/L	1.0	3.3	SW 8260B	03/03/2005	mae		7145
Chloroform	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Chloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
2-Chlorotoluene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
4-Chlorotoluene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
1,2-Dibromo-3-Chloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
1,2-Dibromoethane (EDB)	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Dibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
1,2-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145

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Job No: 05.01419  
Sample No: 607085  
Account No: 39150  
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JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: P-5  
Makoti, ND  
Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/23/2005 12:50

Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	
1,3-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,4-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Dichlorodifluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,3-Dichloropropane	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
2,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1-Dichloropropene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
cis-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
trans-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Di-isopropyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Ethylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Hexachlorobutadiene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Isopropylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
p-Isopropyltoluene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Methylene Chloride	<1.0	ug/L	1.0	3.3	SW 8260B	03/03/2005	mae	7145
Methyl-t-butyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Naphthalene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
n-Propylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Styrene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Tetrachloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Toluene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
1,2,4-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
Trichloroethene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Trichlorofluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2,4-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,3,5-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Vinyl Chloride	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Xylenes, Total	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145

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 Sample No: 607085  
 Account No: 39150  
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JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
 PROJECT DESCRIPTION: Groundwater Analysis  
 SAMPLE DESCRIPTION: P-5  
 Makoti, ND  
 Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/23/2005 12:50 Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	Batch
Surr: Dibromofluoromethane	100	%		90-114	SW 8260B	03/03/2005	mae	7145
Surr: Toluene-d8	101	%		91-106	SW 8260B	03/03/2005	mae	7145
Surr: Bromofluorobenzene	100	%		96-106	SW 8260B	03/03/2005	mae	7145
PNA Extraction	03/02/2005				SW 3510C	03/02/2005	jvk	1319
PNA - 8310 AQUEOUS								
Acenaphthene	<0.82	ug/L	0.33	1.2	SW 8310	03/03/2005	clj	1319 2068
Acenaphthylene	<1.7	ug/L	0.69	2.4	SW 8310	03/03/2005	clj	1319 2068
Anthracene	<0.095	ug/L	0.038	0.13	SW 8310	03/03/2005	clj	1319 2068
Benzo(a)anthracene	<0.11	ug/L	0.044	0.15	SW 8310	03/03/2005	clj	1319 2068
Benzo(b)fluoranthene	<0.24	ug/L	0.098	0.35	SW 8310	03/03/2005	clj	1319 2068
Benzo(k)fluoranthene	<0.12	ug/L	0.049	0.18	SW 8310	03/03/2005	clj	1319 2068
Benzo(a)pyrene	<0.080	ug/L	0.032	0.11	SW 8310	03/03/2005	clj	1319 2068
Benzo(ghi)perylene	<0.30	ug/L	0.12	0.43	SW 8310	03/03/2005	clj	1319 2068
Chrysene	<0.10	ug/L	0.041	0.14	SW 8310	03/03/2005	clj	1319 2068
Dibenzo(a,h)anthracene	<0.32	ug/L	0.13	0.46	SW 8310	03/03/2005	clj	1319 2068
Fluoranthene	<0.20	ug/L	0.081	0.29	SW 8310	03/03/2005	clj	1319 2068
Fluorene	<0.16	ug/L	0.062	0.22	SW 8310	03/03/2005	clj	1319 2068
Indeno(1,2,3-cd)pyrene	<0.16	ug/L	0.062	0.22	SW 8310	03/03/2005	clj	1319 2068
1-Methylnaphthalene	<0.80	ug/L	0.32	1.1	SW 8310	03/03/2005	clj	1319 2068
2-Methylnaphthalene	<0.78	ug/L	0.31	1.1	SW 8310	03/03/2005	clj	1319 2068
Naphthalene	<1.0	ug/L	0.40	1.4	SW 8310	03/03/2005	clj	1319 2068
Phenanthrene	<0.075	ug/L	0.030	0.10	SW 8310	03/03/2005	clj	1319 2068
Pyrene	<0.11	ug/L	0.044	0.16	SW 8310	03/03/2005	clj	1319 2068
Surr: 2-Fluorobiphenyl	82	%		31-113	SW 8310	03/03/2005	clj	1319 2068

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 Account No: 39150  
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JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
 PROJECT DESCRIPTION: Groundwater Analysis  
 SAMPLE DESCRIPTION: P-4  
 Makoti, ND  
 Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/23/2005 16:00 Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	
Alkalinity, bicarb (CaCO3)	700	mg/L	10	33	EPA 310.2	03/03/2005	gaf	463
Alkalinity, carbonate (CaCO3)	<10	mg/L	10	33	EPA 310.2	03/03/2005	gaf	463
Alkalinity, total (CaCO3)	700	mg/L	10	33	EPA 310.2	03/03/2005	gaf	1297
Chloride	17	mg/L	1.0	3.3	EPA 325.2	03/01/2005	gaf	2490
Hardness, Total	1,000	mg/L	4.0	12	EPA 130.2	03/08/2005	sjf	1111
N-Nitrate + Nitrite	P 0.077	mg/L	0.024	0.084	EPA 353.2	03/03/2005	tds	1772
Solids, Total Dissolved	2,500	mg/L	1.0	3.3	EPA 160.1	03/01/2005	ec1	1389
Sulfate, IC	1,200	mg/L	2.0	6.7	EPA 300.0	03/03/2005	tds	1930
Arsenic, Dissolved, GFAA	<0.00079	mg/L	0.00079	0.0028	EPA 206.2	03/03/2005	gaf	1135
Barium, Dissolved, ICP	0.058	mg/L	0.0012	0.0043	SW 6010B	03/02/2005	mmm	2176
Cadmium, Dissolved, ICP	0.0050	mg/L	0.0011	0.0040	SW 6010B	03/02/2005	mmm	1971
Calcium, Dissolved, ICP	180	mg/L	0.013	0.047	SW 6010B	03/02/2005	mmm	1958
Chromium, Dissolved, ICP	<0.0021	mg/L	0.0021	0.0072	SW 6010B	03/02/2005	mmm	1987
Iron, Dissolved, ICP	0.97	mg/L	0.016	0.053	SW 6010B	03/02/2005	mmm	2005
Lead, Dissolved, GFAA	<0.00044	mg/L	0.00044	0.0016	EPA 239.2	03/02/2005	gaf	2614
Magnesium, Dissolved, ICP	100	mg/L	0.013	0.047	SW 6010B	03/02/2005	mmm	1951
Manganese, Dissolved, ICP	0.61	mg/L	0.00096	0.0032	SW 6010B	03/02/2005	mmm	1948
Mercury, Dissolved, CVAA	<0.000092	mg/L	0.000092	0.00033	EPA 245.1	03/07/2005	mmm	80 2160
Potassium, Dissolved, ICP	9.9	mg/L	0.019	0.067	SW 6010B	03/02/2005	mmm	1944
Selenium, Dissolved, GFAA	<0.0032	mg/L	0.0032	0.011	EPA 270.2	03/03/2005	gaf	880
Silver, Dissolved, ICP	0.0034	mg/L	0.0013	0.0046	SW 6010B	03/02/2005	mmm	1965
Sodium, Dissolved ICP	550	mg/L	0.010	0.035	SW 6010B	03/02/2005	mmm	1961
Prep, PCB - AQUEOUS	Complete					03/02/2005	300	409
Prep, Pesticides/PCB AQUEOUS	Complete					03/02/2005	300	191
PCB'S - 8082 AQUEOUS							300	
PCB-1016	<0.17	ug/L	0.17	0.51	SW 8082	03/08/2005	300	409 539
PCB-1221	<0.44	ug/L	0.44	1.3	SW 8082	03/08/2005	300	409 539
PCB-1232	<0.29	ug/L	0.29	0.87	SW 8082	03/08/2005	300	409 539
PCB-1242	<0.34	ug/L	0.34	1.0	SW 8082	03/08/2005	300	409 539
PCB-1248	<0.58	ug/L	0.58	1.7	SW 8082	03/08/2005	300	409 539
PCB-1254	<0.30	ug/L	0.30	0.90	SW 8082	03/08/2005	300	409 539
PCB-1260	B <0.97	ug/L	0.97	2.9	SW 8082	03/08/2005	300	409 539
Surr: TCMX	93	%	n/a	n/a	SW 8082	03/08/2005	300	409 539
Surr: DCB	69	%	n/a	n/a	SW 8082	03/08/2005	300	409 539
PESTICIDES - 8081 AQUEOUS							300	
Aldrin	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191 161
alpha-BHC	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191 161
beta-BHC	<0.05	ug/L	0.05	0.15	SW 8081	03/05/2005	300	191 161
delta-BHC	<0.04	ug/L	0.04	1.2	SW 8081	03/05/2005	300	191 161

## ANALYTICAL REPORT

Mr. Kevin Lincicum  
GEOTRANS, INC.  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

03/23/2005  
Job No: 05.01419  
Sample No: 607086  
Account No: 39150  
Page 8 of 36

JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: P-4  
Makoti, ND  
Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/23/2005 16:00 Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
gamma-BHC (Lindane)	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Chlordane	<0.09	ug/L	0.09	0.27	SW 8081	03/05/2005	300	191	161
4,4'-DDD	<0.06	ug/L	0.06	0.18	SW 8081	03/05/2005	300	191	161
4,4'-DDE	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
4,4'-DDT	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Dieldrin	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Endosulfan I	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Endosulfan II	<0.06	ug/L	0.06	0.18	SW 8081	03/05/2005	300	191	161
Endosulfan sulfate	<0.05	ug/L	0.05	0.15	SW 8081	03/05/2005	300	191	161
Endrin	<0.05	ug/L	0.05	0.15	SW 8081	03/05/2005	300	191	161
Endrin aldehyde	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Heptachlor	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Heptachlor epoxide	<0.03	ug/L	0.03	0.09	SW 8081	03/05/2005	300	191	161
Methoxychlor	<0.06	ug/L	0.06	0.18	SW 8081	03/05/2005	300	191	161
Toxaphene	<0.59	ug/L	0.59	1.8	SW 8081	03/05/2005	300	191	161
Surr: TCMX	98	%		54-120	SW 8081	03/05/2005	300	191	161
Surr: DCB	64	%		21-100	SW 8081	03/05/2005	300	191	161
VOC - AQUEOUS - EPA 8260B									
Benzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromochloromethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
Bromodichloromethane	1.2	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromoform	0.24	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
n-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
sec-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae		7145
tert-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Carbon Tetrachloride	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
Chlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Chlorodibromomethane	0.91	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Chloroethane	<1.0	ug/L	1.0	3.3	SW 8260B	03/03/2005	mae		7145
Chloroform	1.0	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Chloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
2-Chlorotoluene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
4-Chlorotoluene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
1,2-Dibromo-3-Chloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
1,2-Dibromoethane (EDB)	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Dibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
1,2-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145



**ANALYTICAL REPORT**

Mr. Kevin Lincicum  
GEOTRANS, INC.  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

03/23/2005  
Job No: 05.01419  
Sample No: 607086  
Account No: 39150  
Page 9 of 36

JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: P-4  
Makoti, ND  
Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/23/2005 16:00 Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	
1,3-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,4-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Dichlorodifluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,3-Dichloropropane	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
2,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1-Dichloropropene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
cis-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
trans-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Di-isopropyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Ethylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Hexachlorobutadiene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Isopropylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
p-Isopropyltoluene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Methylene Chloride	<1.0	ug/L	1.0	3.3	SW 8260B	03/03/2005	mae	7145
Methyl-t-butyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Naphthalene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
n-Propylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Styrene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Tetrachloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Toluene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
1,2,4-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
Trichloroethene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Trichlorofluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2,4-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,3,5-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Vinyl Chloride	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Xylenes, Total	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145

**ANALYTICAL REPORT**

Mr. Kevin Lincicum  
GEOTRANS, INC.  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

03/23/2005  
Job No: 05.01419  
Sample No: 607086  
Account No: 39150  
Page 10 of 36

JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: P-4  
Makoti, ND  
Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/23/2005 16:00 Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	
Surr: Dibromofluoromethane	100	%		90-114	SW 8260B	03/03/2005	mae	7145
Surr: Toluene-d8	98	%		91-106	SW 8260B	03/03/2005	mae	7145
Surr: Bromofluorobenzene	98	%		96-106	SW 8260B	03/03/2005	mae	7145
PNA Extraction	03/02/2005				SW 3510C	03/02/2005	jvk	1319
PNA - 8310 AQUEOUS								
Acenaphthene	<0.33	ug/L	0.33	1.2	SW 8310	03/03/2005	clj	1319 2068
Acenaphthylene	<0.69	ug/L	0.69	2.4	SW 8310	03/03/2005	clj	1319 2068
Anthracene	<0.038	ug/L	0.038	0.13	SW 8310	03/03/2005	clj	1319 2068
Benzo(a)anthracene	<0.044	ug/L	0.044	0.15	SW 8310	03/03/2005	clj	1319 2068
Benzo(b)fluoranthene	<0.098	ug/L	0.098	0.35	SW 8310	03/03/2005	clj	1319 2068
Benzo(k)fluoranthene	<0.049	ug/L	0.049	0.18	SW 8310	03/03/2005	clj	1319 2068
Benzo(a)pyrene	<0.032	ug/L	0.032	0.11	SW 8310	03/03/2005	clj	1319 2068
Benzo(ghi)perylene	<0.12	ug/L	0.12	0.43	SW 8310	03/03/2005	clj	1319 2068
Chrysene	<0.041	ug/L	0.041	0.14	SW 8310	03/03/2005	clj	1319 2068
Dibenzo(a,h)anthracene	<0.13	ug/L	0.13	0.46	SW 8310	03/03/2005	clj	1319 2068
Fluoranthene	<0.081	ug/L	0.081	0.29	SW 8310	03/03/2005	clj	1319 2068
Fluorene	<0.062	ug/L	0.062	0.22	SW 8310	03/03/2005	clj	1319 2068
Indeno(1,2,3-cd)pyrene	<0.062	ug/L	0.062	0.22	SW 8310	03/03/2005	clj	1319 2068
1-Methylnaphthalene	<0.32	ug/L	0.32	1.1	SW 8310	03/03/2005	clj	1319 2068
2-Methylnaphthalene	<0.31	ug/L	0.31	1.1	SW 8310	03/03/2005	clj	1319 2068
Naphthalene	<0.40	ug/L	0.40	1.4	SW 8310	03/03/2005	clj	1319 2068
Phenanthrene	<0.030	ug/L	0.030	0.10	SW 8310	03/03/2005	clj	1319 2068
Pyrene	<0.044	ug/L	0.044	0.16	SW 8310	03/03/2005	clj	1319 2068
Surr: 2-Fluorobiphenyl	82	%		31-113	SW 8310	03/03/2005	clj	1319 2068

## ANALYTICAL REPORT

Mr. Kevin Lincicum  
 GEOTRANS, INC.  
 175 N. Corporate Drive  
 Suite 100  
 Brookfield, WI 53045

03/23/2005  
 Job No: 05.01419  
 Sample No: 607087  
 Account No: 39150  
 Page 11 of 36

JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
 PROJECT DESCRIPTION: Groundwater Analysis  
 SAMPLE DESCRIPTION: MW-4  
 Makoti, ND  
 Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/24/2005 16:30 Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	
Alkalinity, bicarb (CaCO3)	330	mg/L	10	33	EPA 310.2	03/03/2005	gaf	463
Alkalinity, carbonate (CaCO3)	<10	mg/L	10	33	EPA 310.2	03/03/2005	gaf	463
Alkalinity, total (CaCO3)	330	mg/L	10	33	EPA 310.2	03/03/2005	gaf	1297
Chloride	D <10	mg/L	1.0	3.3	EPA 325.2	03/01/2005	gaf	2490
Hardness, Total	380	mg/L	4.0	12	EPA 130.2	03/08/2005	sjf	1111
N-Nitrate + Nitrite	P 0.080	mg/L	0.024	0.084	EPA 353.2	03/03/2005	tds	1772
Solids, Total Dissolved	490	mg/L	1.0	3.3	EPA 160.1	03/01/2005	ec1	1389
Sulfate, IC	55	mg/L	2.0	6.7	EPA 300.0	03/02/2005	tds	1928
Arsenic, Dissolved, GFAA	0.0026	mg/L	0.00079	0.0028	EPA 206.2	03/03/2005	gaf	1135
Barium, Dissolved, ICP	0.15	mg/L	0.0012	0.0043	SW 6010B	03/02/2005	mmm	2176
Cadmium, Dissolved, ICP	0.0040	mg/L	0.0011	0.0040	SW 6010B	03/02/2005	mmm	1971
Calcium, Dissolved, ICP	83	mg/L	0.013	0.047	SW 6010B	03/02/2005	mmm	1958
Chromium, Dissolved, ICP	<0.0021	mg/L	0.0021	0.0072	SW 6010B	03/02/2005	mmm	1987
Iron, Dissolved, ICP	0.027	mg/L	0.016	0.053	SW 6010B	03/02/2005	mmm	2005
Lead, Dissolved, GFAA	<0.00044	mg/L	0.00044	0.0016	EPA 239.2	03/02/2005	gaf	2614
Magnesium, Dissolved, ICP	34	mg/L	0.013	0.047	SW 6010B	03/02/2005	mmm	1951
Manganese, Dissolved, ICP	0.52	mg/L	0.00096	0.0032	SW 6010B	03/02/2005	mmm	1948
Mercury, Dissolved, CVAA	<0.000092	mg/L	0.000092	0.00033	EPA 245.1	03/07/2005	mmm	80 2160
Potassium, Dissolved, ICP	3.8	mg/L	0.019	0.067	SW 6010B	03/02/2005	mmm	1944
Selenium, Dissolved, GFAA	<0.0032	mg/L	0.0032	0.011	EPA 270.2	03/03/2005	gaf	880
Silver, Dissolved, ICP	<0.0013	mg/L	0.0013	0.0046	SW 6010B	03/02/2005	mmm	1965
Sodium, Dissolved ICP	11	mg/L	0.010	0.035	SW 6010B	03/02/2005	mmm	1961
Prep, PCB - AQUEOUS	Complete					03/02/2005	300	409
Prep, Pesticides/PCB AQUEOUS	Complete					03/02/2005	300	191
PCB'S - 8082 AQUEOUS							300	
PCB-1016	<0.17	ug/L	0.17	0.51	SW 8082	03/08/2005	300	409 539
PCB-1221	<0.44	ug/L	0.44	1.3	SW 8082	03/08/2005	300	409 539
PCB-1232	<0.29	ug/L	0.29	0.87	SW 8082	03/08/2005	300	409 539
PCB-1242	<0.34	ug/L	0.34	1.0	SW 8082	03/08/2005	300	409 539
PCB-1248	<0.58	ug/L	0.58	1.7	SW 8082	03/08/2005	300	409 539
PCB-1254	<0.30	ug/L	0.30	0.90	SW 8082	03/08/2005	300	409 539
PCB-1260	B <0.97	ug/L	0.97	2.9	SW 8082	03/08/2005	300	409 539
Surr: TCMX	88	%	n/a	n/a	SW 8082	03/08/2005	300	409 539
Surr: DCB	55	%	n/a	n/a	SW 8082	03/08/2005	300	409 539
PESTICIDES - 8081 AQUEOUS							300	
Aldrin	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191 161
alpha-BHC	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191 161
beta-BHC	<0.05	ug/L	0.05	0.15	SW 8081	03/05/2005	300	191 161
delta-BHC	<0.04	ug/L	0.04	1.2	SW 8081	03/05/2005	300	191 161

## ANALYTICAL REPORT

Mr. Kevin Lincicum  
 GEOTRANS, INC.  
 175 N. Corporate Drive  
 Suite 100  
 Brookfield, WI 53045

03/23/2005  
 Job No: 05.01419  
 Sample No: 607087  
 Account No: 39150  
 Page 12 of 36

JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
 PROJECT DESCRIPTION: Groundwater Analysis  
 SAMPLE DESCRIPTION: MW-4  
 Makoti, ND  
 Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/24/2005 16:30 Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
gamma-BHC (Lindane)	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Chlordane	<0.09	ug/L	0.09	0.27	SW 8081	03/05/2005	300	191	161
4,4'-DDD	<0.06	ug/L	0.06	0.18	SW 8081	03/05/2005	300	191	161
4,4'-DDE	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
4,4'-DDT	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Dieldrin	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Endosulfan I	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Endosulfan II	<0.06	ug/L	0.06	0.18	SW 8081	03/05/2005	300	191	161
Endosulfan sulfate	<0.05	ug/L	0.05	0.15	SW 8081	03/05/2005	300	191	161
Endrin	<0.05	ug/L	0.05	0.15	SW 8081	03/05/2005	300	191	161
Endrin aldehyde	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Heptachlor	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Heptachlor epoxide	<0.03	ug/L	0.03	0.09	SW 8081	03/05/2005	300	191	161
Methoxychlor	<0.06	ug/L	0.06	0.18	SW 8081	03/05/2005	300	191	161
Toxaphene	<0.59	ug/L	0.59	1.8	SW 8081	03/05/2005	300	191	161
Surr: TCMX	117	%		54-120	SW 8081	03/05/2005	300	191	161
Surr: DCB	72	%		21-100	SW 8081	03/05/2005	300	191	161
VOC - AQUEOUS - EPA 8260B									
Benzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromochloromethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
Bromodichloromethane	0.45	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromoform	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
n-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
sec-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae		7145
tert-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Carbon Tetrachloride	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
Chlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Chlorodibromomethane	0.29	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Chloroethane	<1.0	ug/L	1.0	3.3	SW 8260B	03/03/2005	mae		7145
Chloroform	0.69	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Chloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
2-Chlorotoluene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
4-Chlorotoluene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
1,2-Dibromo-3-Chloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
1,2-Dibromoethane (EDB)	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Dibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
1,2-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145

## ANALYTICAL REPORT

Mr. Kevin Lincicum  
GEOTRANS, INC.  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

03/23/2005  
Job No: 05.01419  
Sample No: 607087  
Account No: 39150  
Page 13 of 36

JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: MW-4  
Makoti, ND  
Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/24/2005 16:30

Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	Batch
1,3-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,4-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Dichlorodifluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,3-Dichloropropane	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
2,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1-Dichloropropene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
cis-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
trans-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Di-isopropyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Ethylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Hexachlorobutadiene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Isopropylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
p-Isopropyltoluene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Methylene Chloride	<1.0	ug/L	1.0	3.3	SW 8260B	03/03/2005	mae	7145
Methyl-t-butyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Naphthalene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
n-Propylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Styrene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Tetrachloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Toluene	0.21	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
1,2,4-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
Trichloroethene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Trichlorofluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2,4-Trimethylbenzene	0.25	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,3,5-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Vinyl Chloride	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Xylenes, Total	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145

## ANALYTICAL REPORT

Mr. Kevin Lincicum  
 GEOTRANS, INC.  
 175 N. Corporate Drive  
 Suite 100  
 Brookfield, WI 53045

03/23/2005  
 Job No: 05.01419  
 Sample No: 607087  
 Account No: 39150  
 Page 14 of 36

JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
 PROJECT DESCRIPTION: Groundwater Analysis  
 SAMPLE DESCRIPTION: MW-4  
 Makoti, ND  
 Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/24/2005 16:30 Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	Batch
Surr: Dibromofluoromethane	99	%		90-114	SW 8260B	03/03/2005	mae	7145
Surr: Toluene-d8	99	%		91-106	SW 8260B	03/03/2005	mae	7145
Surr: Bromofluorobenzene	99	%		96-106	SW 8260B	03/03/2005	mae	7145
PNA Extraction	03/02/2005				SW 3510C	03/02/2005	jvk	1319
PNA - 8310 AQUEOUS								
Acenaphthene	<0.33	ug/L	0.33	1.2	SW 8310	03/03/2005	clj	1319 2068
Acenaphthylene	<0.69	ug/L	0.69	2.4	SW 8310	03/03/2005	clj	1319 2068
Anthracene	<0.038	ug/L	0.038	0.13	SW 8310	03/03/2005	clj	1319 2068
Benzo(a)anthracene	<0.044	ug/L	0.044	0.15	SW 8310	03/03/2005	clj	1319 2068
Benzo(b)fluoranthene	<0.098	ug/L	0.098	0.35	SW 8310	03/03/2005	clj	1319 2068
Benzo(k)fluoranthene	<0.049	ug/L	0.049	0.18	SW 8310	03/03/2005	clj	1319 2068
Benzo(a)pyrene	<0.032	ug/L	0.032	0.11	SW 8310	03/03/2005	clj	1319 2068
Benzo(ghi)perylene	<0.12	ug/L	0.12	0.43	SW 8310	03/03/2005	clj	1319 2068
Chrysene	<0.041	ug/L	0.041	0.14	SW 8310	03/03/2005	clj	1319 2068
Dibenzo(a,h)anthracene	<0.13	ug/L	0.13	0.46	SW 8310	03/03/2005	clj	1319 2068
Fluoranthene	<0.081	ug/L	0.081	0.29	SW 8310	03/03/2005	clj	1319 2068
Fluorene	<0.062	ug/L	0.062	0.22	SW 8310	03/03/2005	clj	1319 2068
Indeno(1,2,3-cd)pyrene	<0.062	ug/L	0.062	0.22	SW 8310	03/03/2005	clj	1319 2068
1-Methylnaphthalene	<0.32	ug/L	0.32	1.1	SW 8310	03/03/2005	clj	1319 2068
2-Methylnaphthalene	<0.31	ug/L	0.31	1.1	SW 8310	03/03/2005	clj	1319 2068
Naphthalene	<0.40	ug/L	0.40	1.4	SW 8310	03/03/2005	clj	1319 2068
Phenanthrene	<0.030	ug/L	0.030	0.10	SW 8310	03/03/2005	clj	1319 2068
Pyrene	<0.044	ug/L	0.044	0.16	SW 8310	03/03/2005	clj	1319 2068
Surr: 2-Fluorobiphenyl	81	%		31-113	SW 8310	03/03/2005	clj	1319 2068

## ANALYTICAL REPORT

Mr. Kevin Lincicum  
 GEOTRANS, INC.  
 175 N. Corporate Drive  
 Suite 100  
 Brookfield, WI 53045

03/23/2005  
 Job No: 05.01419  
 Sample No: 607088  
 Account No: 39150  
 Page 15 of 36

JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
 PROJECT DESCRIPTION: Groundwater Analysis  
 SAMPLE DESCRIPTION: MW-3  
 Makoti, ND  
 Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/24/2005 17:45 Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	
Alkalinity, bicarb (CaCO3)	590	mg/L	10	33	EPA 310.2	03/03/2005	gaf	463
Alkalinity, carbonate (CaCO3)	<10	mg/L	10	33	EPA 310.2	03/03/2005	gaf	463
Alkalinity, total (CaCO3)	590	mg/L	10	33	EPA 310.2	03/03/2005	gaf	1297
Chloride	87	mg/L	1.0	3.3	EPA 325.2	03/01/2005	gaf	2490
Hardness, Total	2,400	mg/L	4.0	12	EPA 130.2	03/08/2005	sjf	1111
N-Nitrate + Nitrite	P <0.024	mg/L	0.024	0.084	EPA 353.2	03/03/2005	tds	1772
Solids, Total Dissolved	4,200	mg/L	1.0	3.3	EPA 160.1	03/01/2005	ec1	1389
Sulfate, IC	2,500	mg/L	2.0	6.7	EPA 300.0	03/03/2005	tds	1930
Arsenic, Dissolved, GFAA	<0.00079	mg/L	0.00079	0.0028	EPA 206.2	03/03/2005	gaf	1135
Barium, Dissolved, ICP	0.10	mg/L	0.0012	0.0043	SW 6010B	03/02/2005	mmm	2176
Cadmium, Dissolved, ICP	0.011	mg/L	0.0011	0.0040	SW 6010B	03/02/2005	mmm	1971
Calcium, Dissolved, ICP	460	mg/L	0.013	0.047	SW 6010B	03/02/2005	mmm	1958
Chromium, Dissolved, ICP	<0.0021	mg/L	0.0021	0.0072	SW 6010B	03/02/2005	mmm	1987
Iron, Dissolved, ICP	0.023	mg/L	0.016	0.053	SW 6010B	03/02/2005	mmm	2005
Lead, Dissolved, GFAA	<0.00044	mg/L	0.00044	0.0016	EPA 239.2	03/02/2005	gaf	2614
Magnesium, Dissolved, ICP	280	mg/L	0.013	0.047	SW 6010B	03/02/2005	mmm	1951
Manganese, Dissolved, ICP	4.4	mg/L	0.00096	0.0032	SW 6010B	03/02/2005	mmm	1948
Mercury, Dissolved, CVAA	<0.000092	mg/L	0.000092	0.00033	EPA 245.1	03/07/2005	mmm	80 2160
Potassium, Dissolved, ICP	15	mg/L	0.019	0.067	SW 6010B	03/02/2005	mmm	1944
Selenium, Dissolved, GFAA	<0.0032	mg/L	0.0032	0.011	EPA 270.2	03/03/2005	gaf	880
Silver, Dissolved, ICP	<0.0013	mg/L	0.0013	0.0046	SW 6010B	03/02/2005	mmm	1965
Sodium, Dissolved ICP	320	mg/L	0.010	0.035	SW 6010B	03/02/2005	mmm	1961
Prep, PCB - AQUEOUS	Complete					03/02/2005	300	409
Prep, Pesticides/PCB AQUEOUS	Complete					03/02/2005	300	191
PCB'S - 8082 AQUEOUS							300	
PCB-1016	<0.17	ug/L	0.17	0.51	SW 8082	03/08/2005	300	409 539
PCB-1221	<0.44	ug/L	0.44	1.3	SW 8082	03/08/2005	300	409 539
PCB-1232	<0.29	ug/L	0.29	0.87	SW 8082	03/08/2005	300	409 539
PCB-1242	<0.34	ug/L	0.34	1.0	SW 8082	03/08/2005	300	409 539
PCB-1248	<0.58	ug/L	0.58	1.7	SW 8082	03/08/2005	300	409 539
PCB-1254	<0.30	ug/L	0.30	0.90	SW 8082	03/08/2005	300	409 539
PCB-1260	B <0.97	ug/L	0.97	2.9	SW 8082	03/08/2005	300	409 539
Surr: TCMX	86	%	n/a	n/a	SW 8082	03/08/2005	300	409 539
Surr: DCB	53	%	n/a	n/a	SW 8082	03/08/2005	300	409 539
PESTICIDES - 8081 AQUEOUS							300	
Aldrin	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191 161
alpha-BHC	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191 161
beta-BHC	<0.05	ug/L	0.05	0.15	SW 8081	03/05/2005	300	191 161
delta-BHC	<0.04	ug/L	0.04	1.2	SW 8081	03/05/2005	300	191 161

## ANALYTICAL REPORT

Mr. Kevin Lincicum  
GEOTRANS, INC.  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

03/23/2005  
Job No: 05.01419  
Sample No: 607088  
Account No: 39150  
Page 16 of 36

JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: MW-3  
Makoti, ND  
Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/24/2005 17:45 Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
gamma-BHC (Lindane)	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Chlordane	<0.09	ug/L	0.09	0.27	SW 8081	03/05/2005	300	191	161
4,4'-DDD	<0.06	ug/L	0.06	0.18	SW 8081	03/05/2005	300	191	161
4,4'-DDE	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
4,4'-DDT	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Dieldrin	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Endosulfan I	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Endosulfan II	<0.06	ug/L	0.06	0.18	SW 8081	03/05/2005	300	191	161
Endosulfan sulfate	<0.05	ug/L	0.05	0.15	SW 8081	03/05/2005	300	191	161
Endrin	<0.05	ug/L	0.05	0.15	SW 8081	03/05/2005	300	191	161
Endrin aldehyde	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Heptachlor	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Heptachlor epoxide	<0.03	ug/L	0.03	0.09	SW 8081	03/05/2005	300	191	161
Methoxychlor	<0.06	ug/L	0.06	0.18	SW 8081	03/05/2005	300	191	161
Toxaphene	<0.59	ug/L	0.59	1.8	SW 8081	03/05/2005	300	191	161
Surr: TCMX	102	%		54-120	SW 8081	03/05/2005	300	191	161
Surr: DCB	61	%		21-100	SW 8081	03/05/2005	300	191	161
VOC - AQUEOUS - EPA 8260B									
Benzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromochloromethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
Bromodichloromethane	0.26	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromoform	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
n-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
sec-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae		7145
tert-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Carbon Tetrachloride	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
Chlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Chlorodibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Chloroethane	<1.0	ug/L	1.0	3.3	SW 8260B	03/03/2005	mae		7145
Chloroform	0.39	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Chloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
2-Chlorotoluene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
4-Chlorotoluene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
1,2-Dibromo-3-Chloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
1,2-Dibromoethane (EDB)	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Dibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
1,2-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145



## ANALYTICAL REPORT

Mr. Kevin Lincicum  
 GEOTRANS, INC.  
 175 N. Corporate Drive  
 Suite 100  
 Brookfield, WI 53045

03/23/2005  
 Job No: 05.01419  
 Sample No: 607088  
 Account No: 39150  
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JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
 PROJECT DESCRIPTION: Groundwater Analysis  
 SAMPLE DESCRIPTION: MW-3  
 Makoti, ND  
 Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/24/2005 17:45

Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	
1,3-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,4-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Dichlorodifluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,3-Dichloropropane	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
2,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1-Dichloropropene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
cis-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
trans-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Di-isopropyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Ethylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Hexachlorobutadiene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Isopropylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
p-Isopropyltoluene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Methylene Chloride	<1.0	ug/L	1.0	3.3	SW 8260B	03/03/2005	mae	7145
Methyl-t-butyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Naphthalene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
n-Propylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Styrene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Tetrachloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Toluene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
1,2,4-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
Trichloroethene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Trichlorofluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2,4-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,3,5-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Vinyl Chloride	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Xylenes, Total	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145

## ANALYTICAL REPORT

Mr. Kevin Lincicum  
 GEOTRANS, INC.  
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03/23/2005  
 Job No: 05.01419  
 Sample No: 607088  
 Account No: 39150  
 Page 18 of 36

JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
 PROJECT DESCRIPTION: Groundwater Analysis  
 SAMPLE DESCRIPTION: MW-3  
 Makoti, ND  
 Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/24/2005 17:45 Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	Batch
Surr: Dibromofluoromethane	101	%		90-114	SW 8260B	03/03/2005	mae	7145
Surr: Toluene-d8	100	%		91-106	SW 8260B	03/03/2005	mae	7145
Surr: Bromofluorobenzene	100	%		96-106	SW 8260B	03/03/2005	mae	7145
PNA Extraction	03/02/2005				SW 3510C	03/02/2005	jvk	1319
PNA - 8310 AQUEOUS								
Acenaphthene	<0.33	ug/L	0.33	1.2	SW 8310	03/03/2005	clj	1319 2068
Acenaphthylene	<0.69	ug/L	0.69	2.4	SW 8310	03/03/2005	clj	1319 2068
Anthracene	<0.038	ug/L	0.038	0.13	SW 8310	03/03/2005	clj	1319 2068
Benzo(a)anthracene	<0.044	ug/L	0.044	0.15	SW 8310	03/03/2005	clj	1319 2068
Benzo(b)fluoranthene	<0.098	ug/L	0.098	0.35	SW 8310	03/03/2005	clj	1319 2068
Benzo(k)fluoranthene	<0.049	ug/L	0.049	0.18	SW 8310	03/03/2005	clj	1319 2068
Benzo(a)pyrene	<0.032	ug/L	0.032	0.11	SW 8310	03/03/2005	clj	1319 2068
Benzo(ghi)perylene	<0.12	ug/L	0.12	0.43	SW 8310	03/03/2005	clj	1319 2068
Chrysene	<0.041	ug/L	0.041	0.14	SW 8310	03/03/2005	clj	1319 2068
Dibenzo(a,h)anthracene	<0.13	ug/L	0.13	0.46	SW 8310	03/03/2005	clj	1319 2068
Fluoranthene	<0.081	ug/L	0.081	0.29	SW 8310	03/03/2005	clj	1319 2068
Fluorene	<0.062	ug/L	0.062	0.22	SW 8310	03/03/2005	clj	1319 2068
Indeno(1,2,3-cd)pyrene	<0.062	ug/L	0.062	0.22	SW 8310	03/03/2005	clj	1319 2068
1-Methylnaphthalene	<0.32	ug/L	0.32	1.1	SW 8310	03/03/2005	clj	1319 2068
2-Methylnaphthalene	0.57	ug/L	0.31	1.1	SW 8310	03/03/2005	clj	1319 2068
Naphthalene	<0.40	ug/L	0.40	1.4	SW 8310	03/03/2005	clj	1319 2068
Phenanthrene	<0.030	ug/L	0.030	0.10	SW 8310	03/03/2005	clj	1319 2068
Pyrene	<0.044	ug/L	0.044	0.16	SW 8310	03/03/2005	clj	1319 2068
Surr: 2-Fluorobiphenyl	77	%		31-113	SW 8310	03/03/2005	clj	1319 2068

## ANALYTICAL REPORT

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03/23/2005  
Job No: 05.01419  
Sample No: 607089  
Account No: 39150  
Page 19 of 36

JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: MW-2  
Makoti, ND  
Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/24/2005 18:30 Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	
Alkalinity, bicarb (CaCO3)	560	mg/L	10	33	EPA 310.2	03/03/2005	gaf	463
Alkalinity, carbonate (CaCO3)	<10	mg/L	10	33	EPA 310.2	03/03/2005	gaf	463
Alkalinity, total (CaCO3)	560	mg/L	10	33	EPA 310.2	03/03/2005	gaf	1297
Chloride	55	mg/L	1.0	3.3	EPA 325.2	03/01/2005	gaf	2490
Hardness, Total	1,600	mg/L	4.0	12	EPA 130.2	03/08/2005	sjf	1111
N-Nitrate + Nitrite	P 5.4	mg/L	0.024	0.084	EPA 353.2	03/03/2005	tds	1772
Solids, Total Dissolved	2,200	mg/L	1.0	3.3	EPA 160.1	03/01/2005	ec1	1389
Sulfate, IC	1,000	mg/L	2.0	6.7	EPA 300.0	03/03/2005	tds	1930
Arsenic, Dissolved, GFAA	<0.00079	mg/L	0.00079	0.0028	EPA 206.2	03/03/2005	gaf	1135
Barium, Dissolved, ICP	0.13	mg/L	0.0012	0.0043	SW 6010B	03/02/2005	mmm	2176
Cadmium, Dissolved, ICP	0.0072	mg/L	0.0011	0.0040	SW 6010B	03/02/2005	mmm	1971
Calcium, Dissolved, ICP	380	mg/L	0.013	0.047	SW 6010B	03/02/2005	mmm	1958
Chromium, Dissolved, ICP	<0.0021	mg/L	0.0021	0.0072	SW 6010B	03/02/2005	mmm	1987
Iron, Dissolved, ICP	<0.016	mg/L	0.016	0.053	SW 6010B	03/02/2005	mmm	2005
Lead, Dissolved, GFAA	<0.00044	mg/L	0.00044	0.0016	EPA 239.2	03/02/2005	gaf	2614
Magnesium, Dissolved, ICP	130	mg/L	0.013	0.047	SW 6010B	03/02/2005	mmm	1951
Manganese, Dissolved, ICP	0.48	mg/L	0.00096	0.0032	SW 6010B	03/02/2005	mmm	1948
Mercury, Dissolved, CVAA	<0.000092	mg/L	0.000092	0.00033	EPA 245.1	03/07/2005	mmm	80 2160
Potassium, Dissolved, ICP	11	mg/L	0.019	0.067	SW 6010B	03/02/2005	mmm	1944
Selenium, Dissolved, GFAA	<0.0032	mg/L	0.0032	0.011	EPA 270.2	03/03/2005	gaf	880
Silver, Dissolved, ICP	<0.0013	mg/L	0.0013	0.0046	SW 6010B	03/02/2005	mmm	1965
Sodium, Dissolved ICP	49	mg/L	0.010	0.035	SW 6010B	03/02/2005	mmm	1961
Prep, PCB - AQUEOUS	Complete					03/02/2005	300	409
Prep, Pesticides/PCB AQUEOUS	Complete					03/02/2005	300	191
PCB'S - 8082 AQUEOUS							300	
PCB-1016	<0.17	ug/L	0.17	0.51	SW 8082	03/08/2005	300	409 539
PCB-1221	<0.44	ug/L	0.44	1.3	SW 8082	03/08/2005	300	409 539
PCB-1232	<0.29	ug/L	0.29	0.87	SW 8082	03/08/2005	300	409 539
PCB-1242	<0.34	ug/L	0.34	1.0	SW 8082	03/08/2005	300	409 539
PCB-1248	<0.58	ug/L	0.58	1.7	SW 8082	03/08/2005	300	409 539
PCB-1254	<0.30	ug/L	0.30	0.90	SW 8082	03/08/2005	300	409 539
PCB-1260	B <0.97	ug/L	0.97	2.9	SW 8082	03/08/2005	300	409 539
Surr: TCMX	85	%	n/a	n/a	SW 8082	03/08/2005	300	409 539
Surr: DCB	47	%	n/a	n/a	SW 8082	03/08/2005	300	409 539
PESTICIDES - 8081 AQUEOUS							300	
Aldrin	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191 161
alpha-BHC	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191 161
beta-BHC	<0.05	ug/L	0.05	0.15	SW 8081	03/05/2005	300	191 161
delta-BHC	<0.04	ug/L	0.04	1.2	SW 8081	03/05/2005	300	191 161

## ANALYTICAL REPORT

Mr. Kevin Lincicum  
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175 N. Corporate Drive  
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03/23/2005  
Job No: 05.01419  
Sample No: 607089  
Account No: 39150  
Page 20 of 36

JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: MW-2  
Makoti, ND  
Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/24/2005 18:30 Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	Batch
gamma-BHC (Lindane)	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Chlordane	<0.09	ug/L	0.09	0.27	SW 8081	03/05/2005	300	191	161
4,4'-DDD	<0.06	ug/L	0.06	0.18	SW 8081	03/05/2005	300	191	161
4,4'-DDE	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
4,4'-DDT	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Dieldrin	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Endosulfan I	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Endosulfan II	<0.06	ug/L	0.06	0.18	SW 8081	03/05/2005	300	191	161
Endosulfan sulfate	<0.05	ug/L	0.05	0.15	SW 8081	03/05/2005	300	191	161
Endrin	<0.05	ug/L	0.05	0.15	SW 8081	03/05/2005	300	191	161
Endrin aldehyde	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Heptachlor	<0.04	ug/L	0.04	0.12	SW 8081	03/05/2005	300	191	161
Heptachlor epoxide	<0.03	ug/L	0.03	0.09	SW 8081	03/05/2005	300	191	161
Methoxychlor	<0.06	ug/L	0.06	0.18	SW 8081	03/05/2005	300	191	161
Toxaphene	<0.59	ug/L	0.59	1.8	SW 8081	03/05/2005	300	191	161
Surr: TCMX	90	%		54-120	SW 8081	03/05/2005	300	191	161
Surr: DCB	57	%		21-100	SW 8081	03/05/2005	300	191	161
VOC - AQUEOUS - EPA 8260B									
Benzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromochloromethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
Bromodichloromethane	0.70	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromoform	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Bromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
n-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
sec-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae		7145
tert-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Carbon Tetrachloride	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
Chlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Chlorodibromomethane	0.47	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Chloroethane	<1.0	ug/L	1.0	3.3	SW 8260B	03/03/2005	mae		7145
Chloroform	0.73	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Chloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
2-Chlorotoluene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
4-Chlorotoluene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
1,2-Dibromo-3-Chloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae		7145
1,2-Dibromoethane (EDB)	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
Dibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145
1,2-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae		7145

## ANALYTICAL REPORT

Mr. Kevin Lincicum  
GEOTRANS, INC.  
175 N. Corporate Drive  
Suite 100  
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03/23/2005  
Job No: 05.01419  
Sample No: 607089  
Account No: 39150  
Page 21 of 36

JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: MW-2  
Makoti, ND  
Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/24/2005 18:30

Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	Batch
1,3-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,4-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Dichlorodifluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,3-Dichloropropane	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
2,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1-Dichloropropene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
cis-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
trans-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Di-isopropyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Ethylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Hexachlorobutadiene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Isopropylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
p-Isopropyltoluene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Methylene Chloride	<1.0	ug/L	1.0	3.3	SW 8260B	03/03/2005	mae	7145
Methyl-t-butyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Naphthalene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
n-Propylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Styrene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Tetrachloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Toluene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
1,2,4-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
Trichloroethene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Trichlorofluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2,4-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,3,5-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Vinyl Chloride	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Xylenes, Total	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145

**ANALYTICAL REPORT**

Mr. Kevin Lincicum  
GEOTRANS, INC.  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

03/23/2005  
Job No: 05.01419  
Sample No: 607089  
Account No: 39150  
Page 22 of 36

JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: MW-2  
Makoti, ND  
Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/24/2005 18:30 Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	Batch
Surr: Dibromofluoromethane	100	%		90-114	SW 8260B	03/03/2005	mae	7145
Surr: Toluene-d8	99	%		91-106	SW 8260B	03/03/2005	mae	7145
Surr: Bromofluorobenzene	99	%		96-106	SW 8260B	03/03/2005	mae	7145
PNA Extraction	03/02/2005				SW 3510C	03/02/2005	jvk	1319
PNA - 8310 AQUEOUS								
Acenaphthene	<0.33	ug/L	0.33	1.2	SW 8310	03/03/2005	clj	1319 2068
Acenaphthylene	<0.69	ug/L	0.69	2.4	SW 8310	03/03/2005	clj	1319 2068
Anthracene	<0.038	ug/L	0.038	0.13	SW 8310	03/03/2005	clj	1319 2068
Benzo(a)anthracene	<0.044	ug/L	0.044	0.15	SW 8310	03/03/2005	clj	1319 2068
Benzo(b)fluoranthene	<0.098	ug/L	0.098	0.35	SW 8310	03/03/2005	clj	1319 2068
Benzo(k)fluoranthene	<0.049	ug/L	0.049	0.18	SW 8310	03/03/2005	clj	1319 2068
Benzo(a)pyrene	<0.032	ug/L	0.032	0.11	SW 8310	03/03/2005	clj	1319 2068
Benzo(ghi)perylene	<0.12	ug/L	0.12	0.43	SW 8310	03/03/2005	clj	1319 2068
Chrysene	<0.041	ug/L	0.041	0.14	SW 8310	03/03/2005	clj	1319 2068
Dibenzo(a,h)anthracene	<0.13	ug/L	0.13	0.46	SW 8310	03/03/2005	clj	1319 2068
Fluoranthene	<0.081	ug/L	0.081	0.29	SW 8310	03/03/2005	clj	1319 2068
Fluorene	<0.062	ug/L	0.062	0.22	SW 8310	03/03/2005	clj	1319 2068
Indeno(1,2,3-cd)pyrene	<0.062	ug/L	0.062	0.22	SW 8310	03/03/2005	clj	1319 2068
1-Methylnaphthalene	<0.32	ug/L	0.32	1.1	SW 8310	03/03/2005	clj	1319 2068
2-Methylnaphthalene	<0.31	ug/L	0.31	1.1	SW 8310	03/03/2005	clj	1319 2068
Naphthalene	<0.40	ug/L	0.40	1.4	SW 8310	03/03/2005	clj	1319 2068
Phenanthrene	<0.030	ug/L	0.030	0.10	SW 8310	03/03/2005	clj	1319 2068
Pyrene	<0.044	ug/L	0.044	0.16	SW 8310	03/03/2005	clj	1319 2068
Surr: 2-Fluorobiphenyl	80	%		31-113	SW 8310	03/03/2005	clj	1319 2068

## ANALYTICAL REPORT

Mr. Kevin Lincicum  
 GEOTRANS, INC.  
 175 N. Corporate Drive  
 Suite 100  
 Brookfield, WI 53045

03/23/2005  
 Job No: 05.01419  
 Sample No: 607090  
 Account No: 39150  
 Page 23 of 36

JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
 PROJECT DESCRIPTION: Groundwater Analysis  
 SAMPLE DESCRIPTION: Trip Blank  
 Makoti, ND  
 Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/23/2005 UNKNOWN Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	Batch
VOC - AQUEOUS - EPA 8260B								
Benzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Bromobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Bromochloromethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Bromodichloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Bromoform	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Bromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
n-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
sec-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
tert-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Carbon Tetrachloride	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Chlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Chlorodibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Chloroethane	<1.0	ug/L	1.0	3.3	SW 8260B	03/03/2005	mae	7145
Chloroform	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Chloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
2-Chlorotoluene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
4-Chlorotoluene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,2-Dibromo-3-Chloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2-Dibromoethane (EDB)	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Dibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,2-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,3-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,4-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Dichlorodifluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,3-Dichloropropane	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
2,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1-Dichloropropene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
cis-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
trans-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Di-isopropyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Ethylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Hexachlorobutadiene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145

**ANALYTICAL REPORT**

Mr. Kevin Lincicum  
GEOTRANS, INC.  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

03/23/2005  
Job No: 05.01419  
Sample No: 607090  
Account No: 39150  
Page 24 of 36

JOB DESCRIPTION: 2624.001 MHA Nation Refinery  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: Trip Blank  
Makoti, ND  
Rec'd at 4 & 5 degrees C

Date/Time Taken: 02/23/2005 UNKNOWN Date Received: 02/28/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	Batch
Isopropylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
p-Isopropyltoluene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Methylene Chloride	<1.0	ug/L	1.0	3.3	SW 8260B	03/03/2005	mae	7145
Methyl-t-butyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Naphthalene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
n-Propylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Styrene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Tetrachloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Toluene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
1,2,4-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	03/03/2005	mae	7145
Trichloroethene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Trichlorofluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
1,2,4-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
1,3,5-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Vinyl Chloride	<0.20	ug/L	0.20	0.67	SW 8260B	03/03/2005	mae	7145
Xylenes, Total	<0.50	ug/L	0.50	1.7	SW 8260B	03/03/2005	mae	7145
Surr: Dibromofluoromethane	100	%		90-114	SW 8260B	03/03/2005	mae	7145
Surr: Toluene-d8	99	%		91-106	SW 8260B	03/03/2005	mae	7145
Surr: Bromofluorobenzene	99	%		96-106	SW 8260B	03/03/2005	mae	7145



**QUALITY CONTROL REPORT**  
**CONTINUING CALIBRATION VERIFICATION**

03/23/2005

Mr. Kevin Lincicum  
GEOTRANS, INC.  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

Job No: 05.01419  
Account No: 39150

Page 25 of 36

Job Description: 2624.001 MHA Nation Refinery

Parameter	Run Batch	True Value	Observed Value	Percent Recovery	Control Limits
Alkalinity, bicarb (CaCO3)	463	100	104	104	
Alkalinity, bicarb (CaCO3)	463	100	107	107	
Alkalinity, total (CaCO3)	1297	100	106	106	90 - 110
Alkalinity, total (CaCO3)	1297	100	107	107	90 - 110
Chloride	2490	20.0	18.9	94	90 - 110
Chloride	2490	20.0	19.5	98	90 - 110
Hardness, Total	1111	80.0	80	100	90 - 110
Hardness, Total	1111	80.0	80	100	90 - 110
N-Nitrate + Nitrite	1772	5.00	5.22	104	90 - 110
N-Nitrate + Nitrite	1772	5.00	5.17	103	90 - 110
Sulfate, IC	1928	40.0	39.3	98	90 - 110
Sulfate, IC	1928	40.0	40.2	100	90 - 110
Sulfate, IC	1930	40.0	43.1	108	90 - 110
Sulfate, IC	1930	40.0	43.5	109	90 - 110
Arsenic, Dissolved, GFAA	1135	0.0500	0.0521	104	90 - 110
Arsenic, Dissolved, GFAA	1135	0.0500	0.0528	106	90 - 110
Barium, Dissolved, ICP	2176	5.00	4.91	98	90 - 110
Cadmium, Dissolved, ICP	1971	5.00	4.94	99	90 - 110
Calcium, Dissolved, ICP	1958	5.00	4.95	99	90 - 110
Chromium, Dissolved, ICP	1987	5.00	4.94	99	90 - 110
Iron, Dissolved, ICP	2005	5.00	5.09	102	90 - 110
Lead, Dissolved, GFAA	2614	0.0250	0.0263	105	90 - 110
Lead, Dissolved, GFAA	2614	0.0250	0.0259	104	90 - 110
Magnesium, Dissolved, ICP	1951	5.00	4.97	99	90 - 110
Manganese, Dissolved, ICP	1948	5.00	4.92	98	90 - 110
Mercury, Dissolved, CVAA	2160	0.00500	0.00508	102	90 - 110
Mercury, Dissolved, CVAA	2160	0.00500	0.00498	100	90 - 110
Potassium, Dissolved, ICP	1944	50.0	47.8	96	90 - 110
Selenium, Dissolved, GFAA	880	0.0500	0.0522	104	90 - 110
Selenium, Dissolved, GFAA	880	0.0500	0.0534	107	90 - 110
Silver, Dissolved, ICP	1965	1.00	1.02	102	90 - 110
Sodium, Dissolved ICP	1961	5.00	4.81	96	90 - 110
VOC - AQUEOUS - EPA 8260B					
Benzene	7145	50.0	48.7	97	80 - 120
Bromoform	7145	50.0	49.3	99	80 - 120
Chlorobenzene	7145	50.0	48.6	97	80 - 120
Chloroform	7145	50.0	48.8	98	80 - 120
Chloromethane	7145	50.0	49.4	99	80 - 120
1,1-Dichloroethane	7145	50.0	49.0	98	80 - 120
1,1-Dichloroethene	7145	50.0	48.3	97	80 - 120
1,2-Dichloropropane	7145	50.0	48.3	97	80 - 120
Ethylbenzene	7145	50.0	48.6	97	80 - 120

## QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

03/23/2005

Mr. Kevin Lincicum  
GEOTRANS, INC.  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

Job No: 05.01419  
Account No: 39150

Page 26 of 36

Job Description: 2624.001 MHA Nation Refinery

Parameter	Run Batch	True Value	Observed Value	Percent Recovery	Control Limits
Methyl-t-butyl ether	7145	50.0	49.0	98	80 - 120
1,1,2,2-Tetrachloroethane	7145	50.0	48.7	97	80 - 120
Toluene	7145	50.0	48.4	97	80 - 120
Trichloroethene	7145	50.0	48.7	97	80 - 120
1,2,4-Trimethylbenzene	7145	50.0	48.3	97	80 - 120
1,3,5-Trimethylbenzene	7145	50.0	48.5	97	80 - 120
Vinyl Chloride	7145	50.0	48.2	96	80 - 120
Xylenes, Total	7145	150	145	97	80 - 120
Surr: Dibromofluoromethane	7145	50.0	50.3	101	90 - 114
Surr: Toluene-d8	7145	50.0	49.9	100	90 - 106
Surr: Bromofluorobenzene	7145	50.0	49.8	100	96 - 106
PNA - 8310 AQUEOUS					
Acenaphthene	2068	5.0	4.77	95	85 - 115
Acenaphthylene	2068	10.0	9.64	96	85 - 115
Anthracene	2068	0.50	0.492	98	85 - 115
Benzo(a)anthracene	2068	0.50	0.478	96	85 - 115
Benzo(b)fluoranthene	2068	1.00	1.00	100	85 - 115
Benzo(k)fluoranthene	2068	0.50	0.508	102	85 - 115
Benzo(a)pyrene	2068	0.50	0.507	101	85 - 115
Benzo(ghi)perylene	2068	1.00	1.01	101	85 - 115
Chrysene	2068	0.50	0.468	94	85 - 115
Dibenzo(a,h)anthracene	2068	1.00	1.02	102	85 - 115
Fluoranthene	2068	1.00	0.966	97	85 - 115
Fluorene	2068	1.00	0.972	97	85 - 115
Indeno(1,2,3-cd)pyrene	2068	0.50	0.512	102	85 - 115
1-Methylnaphthalene	2068	5.00	4.71	94	85 - 115
2-Methylnaphthalene	2068	5.00	4.57	91	85 - 115
Naphthalene	2068	5.00	4.66	93	85 - 115
Phenanthrene	2068	0.50	0.499	100	85 - 115
Pyrene	2068	0.50	0.443	89	85 - 115
Surr: 2-Fluorobiphenyl	2068	5.00	4.87	97	85 - 115
PNA - 8310 AQUEOUS					
Acenaphthene	2068	5.0	4.89	98	85 - 115
Acenaphthylene	2068	10.0	9.83	98	85 - 115
Anthracene	2068	0.50	0.505	101	85 - 115
Benzo(a)anthracene	2068	0.50	0.487	97	85 - 115
Benzo(b)fluoranthene	2068	1.00	1.02	102	85 - 115
Benzo(k)fluoranthene	2068	0.50	0.515	103	85 - 115
Benzo(a)pyrene	2068	0.50	0.514	103	85 - 115
Benzo(ghi)perylene	2068	1.00	1.05	105	85 - 115
Chrysene	2068	0.50	0.475	95	85 - 115
Dibenzo(a,h)anthracene	2068	1.00	1.04	104	85 - 115

**QUALITY CONTROL REPORT**  
**CONTINUING CALIBRATION VERIFICATION**

03/23/2005

Mr. Kevin Lincicum  
GEOTRANS, INC.  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

Job No: 05.01419  
Account No: 39150

Page 27 of 36

Job Description: 2624.001 MHA Nation Refinery

Parameter	Run Batch	True Value	Observed Value	Percent Recovery	Control Limits
Fluoranthene	2068	1.00	0.988	99	85 - 115
Fluorene	2068	1.00	0.986	99	85 - 115
Indeno(1,2,3-cd)pyrene	2068	0.50	0.517	103	85 - 115
1-Methylnaphthalene	2068	5.00	4.84	97	85 - 115
2-Methylnaphthalene	2068	5.00	4.69	94	85 - 115
Naphthalene	2068	5.00	4.71	94	85 - 115
Phenanthrene	2068	0.50	0.514	103	85 - 115
Pyrene	2068	0.50	0.466	93	85 - 115
Surr: 2-Fluorobiphenyl	2068	5.00	4.96	99	85 - 115

## QUALITY CONTROL REPORT BLANKS

03/23/2005

Mr. Kevin Lincicum  
GEOTRANS, INC.  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

Job No: 05.01419  
Account No: 39150

Page 28 of 36

Job Description: 2624.001 MHA Nation Refinery

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
Alkalinity, bicarb (CaCO3)		463	<10	10	33	mg/L
Alkalinity, total (CaCO3)		1297	<10	10	33	mg/L
Chloride		2490	<1.0	1.0	3.3	mg/L
Hardness, Total		1111	<4.0	4.0	12	mg/L
Hardness, Total		1111	<4.0	4.0	12	mg/L
N-Nitrate + Nitrite		1772	<0.024	0.024	0.084	mg/L
Sulfate, IC		1928	<2.0	2.0	6.7	mg/L
Sulfate, IC		1930	<2.0	2.0	6.7	mg/L
Arsenic, Dissolved, GFAA		1135	<0.00079	0.00079	0.0028	mg/L
Barium, Dissolved, ICP		2176	<0.0012	0.0012	0.0043	mg/L
Cadmium, Dissolved, ICP		1971	0.0020	0.0011	0.0040	mg/L
Calcium, Dissolved, ICP		1958	<0.013	0.013	0.047	mg/L
Chromium, Dissolved, ICP		1987	0.0031	0.0021	0.0072	mg/L
Iron, Dissolved, ICP		2005	<0.016	0.016	0.053	mg/L
Lead, Dissolved, GFAA		2614	<0.00044	0.00044	0.0016	mg/L
Magnesium, Dissolved, ICP		1951	<0.013	0.013	0.047	mg/L
Manganese, Dissolved, ICP		1948	0.0017	0.00096	0.0032	mg/L
Mercury, Dissolved, CVAA	80	1753	<0.000056	0.000056	0.00020	mg/L
Mercury, Dissolved, CVAA	80	2160	<0.000092	0.000092	0.00033	mg/L
Mercury, Dissolved, CVAA		2160	<0.000092	0.000092	0.00033	mg/L
Potassium, Dissolved, ICP		1944	0.049	0.019	0.067	mg/L
Selenium, Dissolved, GFAA		880	<0.0032	0.0032	0.011	mg/L
Silver, Dissolved, ICP		1965	<0.0013	0.0013	0.0046	mg/L
Sodium, Dissolved ICP		1961	<0.010	0.010	0.035	mg/L
PCB'S - 8082 AQUEOUS						
PCB-1016		539	<0.17	0.17	0.51	ug/L
PCB-1221		539	<0.44	0.44	1.3	ug/L
PCB-1232		539	<0.29	0.29	0.87	ug/L
PCB-1242		539	<0.34	0.34	1.0	ug/L
PCB-1248		539	<0.58	0.58	1.7	ug/L
PCB-1254		539	<0.30	0.30	0.90	ug/L
PCB-1260		539	5.2	0.97	2.9	ug/L
Surr: TCMX		539	84.0	n/a	n/a	%
Surr: DCB		539	52.0	n/a	n/a	%
VOC - AQUEOUS - EPA 8260B						
Benzene		7145	<0.20	0.20	0.67	ug/L
Bromobenzene		7145	<0.20	0.20	0.67	ug/L

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

## QUALITY CONTROL REPORT BLANKS

03/23/2005

Mr. Kevin Lincicum  
GEOTRANS, INC.  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

Job No: 05.01419  
Account No: 39150

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Job Description: 2624.001 MHA Nation Refinery

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
Bromochloromethane		7145	<0.50	0.50	1.7	ug/L
Bromodichloromethane		7145	<0.20	0.20	0.67	ug/L
Bromoform		7145	<0.20	0.20	0.67	ug/L
Bromomethane		7145	<0.20	0.20	0.67	ug/L
n-Butylbenzene		7145	<0.20	0.20	0.67	ug/L
sec-Butylbenzene		7145	<0.25	0.25	0.83	ug/L
tert-Butylbenzene		7145	<0.20	0.20	0.67	ug/L
Carbon Tetrachloride		7145	<0.50	0.50	1.7	ug/L
Chlorobenzene		7145	<0.20	0.20	0.67	ug/L
Chlorodibromomethane		7145	<0.20	0.20	0.67	ug/L
Chloroethane		7145	<1.0	1.0	3.3	ug/L
Chloroform		7145	<0.20	0.20	0.67	ug/L
Chloromethane		7145	<0.20	0.20	0.67	ug/L
2-Chlorotoluene		7145	<0.50	0.50	1.7	ug/L
4-Chlorotoluene		7145	<0.20	0.20	0.67	ug/L
1,2-Dibromo-3-Chloropropane		7145	<0.50	0.50	1.7	ug/L
1,2-Dibromoethane (EDB)		7145	<0.20	0.20	0.67	ug/L
Dibromomethane		7145	<0.20	0.20	0.67	ug/L
1,2-Dichlorobenzene		7145	<0.20	0.20	0.67	ug/L
1,3-Dichlorobenzene		7145	<0.20	0.20	0.67	ug/L
1,4-Dichlorobenzene		7145	<0.20	0.20	0.67	ug/L
Dichlorodifluoromethane		7145	<0.50	0.50	1.7	ug/L
1,1-Dichloroethane		7145	<0.50	0.50	1.7	ug/L
1,2-Dichloroethane		7145	<0.50	0.50	1.7	ug/L
1,1-Dichloroethene		7145	<0.50	0.50	1.7	ug/L
cis-1,2-Dichloroethene		7145	<0.50	0.50	1.7	ug/L
trans-1,2-Dichloroethene		7145	<0.50	0.50	1.7	ug/L
1,2-Dichloropropane		7145	<0.50	0.50	1.7	ug/L
1,3-Dichloropropane		7145	<0.25	0.25	0.83	ug/L
2,2-Dichloropropane		7145	<0.50	0.50	1.7	ug/L
1,1-Dichloropropene		7145	<0.50	0.50	1.7	ug/L
cis-1,3-Dichloropropene		7145	<0.20	0.20	0.67	ug/L
trans-1,3-Dichloropropene		7145	<0.20	0.20	0.67	ug/L
Di-isopropyl ether		7145	<0.50	0.50	1.7	ug/L
Ethylbenzene		7145	<0.50	0.50	1.7	ug/L
Hexachlorobutadiene		7145	<0.50	0.50	1.7	ug/L
Isopropylbenzene		7145	<0.20	0.20	0.67	ug/L

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

## QUALITY CONTROL REPORT

### BLANKS

03/23/2005

Mr. Kevin Lincicum  
GEOTRANS, INC.  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

Job No: 05.01419  
Account No: 39150

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Job Description: 2624.001 MHA Nation Refinery

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
p-Isopropyltoluene		7145	<0.20	0.20	0.67	ug/L
Methylene Chloride		7145	<1.0	1.0	3.3	ug/L
Methyl-t-butyl ether		7145	<0.50	0.50	1.7	ug/L
Naphthalene		7145	<0.25	0.25	0.83	ug/L
n-Propylbenzene		7145	<0.50	0.50	1.7	ug/L
Styrene		7145	<0.20	0.20	0.67	ug/L
1,1,1,2-Tetrachloroethane		7145	<0.25	0.25	0.83	ug/L
1,1,2,2-Tetrachloroethane		7145	<0.20	0.20	0.67	ug/L
Tetrachloroethene		7145	<0.50	0.50	1.7	ug/L
Toluene		7145	<0.20	0.20	0.67	ug/L
1,2,3-Trichlorobenzene		7145	<0.25	0.25	0.83	ug/L
1,2,4-Trichlorobenzene		7145	<0.25	0.25	0.83	ug/L
1,1,1-Trichloroethane		7145	<0.50	0.50	1.7	ug/L
1,1,2-Trichloroethane		7145	<0.25	0.25	0.83	ug/L
Trichloroethene		7145	<0.20	0.20	0.67	ug/L
Trichlorofluoromethane		7145	<0.50	0.50	1.7	ug/L
1,2,3-Trichloropropane		7145	<0.50	0.50	1.7	ug/L
1,2,4-Trimethylbenzene		7145	<0.20	0.20	0.67	ug/L
1,3,5-Trimethylbenzene		7145	<0.20	0.20	0.67	ug/L
Vinyl Chloride		7145	<0.20	0.20	0.67	ug/L
Xylenes, Total		7145	<0.50	0.50	1.7	ug/L
Surr: Dibromofluoromethane		7145	99.2		90-114	%
Surr: Toluene-d8		7145	100.4		91-106	%
Surr: Bromofluorobenzene		7145	100.4		96-106	%
PNA - 8310 AQUEOUS						
Acenaphthene	1319	2068	<0.33	0.33	1.2	ug/L
Acenaphthylene	1319	2068	<0.69	0.69	2.4	ug/L
Anthracene	1319	2068	<0.038	0.038	0.13	ug/L
Benzo(a)anthracene	1319	2068	<0.044	0.044	0.15	ug/L
Benzo(b)fluoranthene	1319	2068	<0.098	0.098	0.35	ug/L
Benzo(k)fluoranthene	1319	2068	<0.049	0.049	0.18	ug/L
Benzo(a)pyrene	1319	2068	<0.032	0.032	0.11	ug/L
Benzo(ghi)perylene	1319	2068	<0.12	0.12	0.43	ug/L
Chrysene	1319	2068	<0.041	0.041	0.14	ug/L
Dibenzo(a,h)anthracene	1319	2068	<0.13	0.13	0.46	ug/L
Fluoranthene	1319	2068	<0.081	0.081	0.29	ug/L
Fluorene	1319	2068	<0.062	0.062	0.22	ug/L

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

**QUALITY CONTROL REPORT**  
**BLANKS**

03/23/2005

Mr. Kevin Lincicum  
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Brookfield, WI 53045

Job No: 05.01419  
Account No: 39150

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Job Description: 2624.001 MHA Nation Refinery

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
Indeno(1,2,3-cd)pyrene	1319	2068	<0.062	0.062	0.22	ug/L
1-Methylnaphthalene	1319	2068	<0.32	0.32	1.1	ug/L
2-Methylnaphthalene	1319	2068	<0.31	0.31	1.1	ug/L
Naphthalene	1319	2068	<0.40	0.40	1.4	ug/L
Phenanthrene	1319	2068	<0.030	0.030	0.10	ug/L
Pyrene	1319	2068	<0.044	0.044	0.16	ug/L
Surr: 2-Fluorobiphenyl	1319	2068	78.2		31-113	%

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

## QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

03/23/2005

Mr. Kevin Lincicum  
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Brookfield, WI 53045

Job No: 05.01419  
Account No: 39150

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Job Description: 2624.001 MHA Nation Refinery

Analyte	Prep	Run	LCS		LCS	LCSD	Relative	
	Batch	Batch	Amount	Units	Result	Result	Percent Recovery	Percent Recovery
	Number	Number					Control Limits	Percent Difference
Mercury, Dissolved, CVAA	80	1753	0.00250	mg/L	0.00266	106		
Mercury, Dissolved, CVAA	80	2160	0.00250	mg/L	0.00276	110	79 - 128	
PNA - 8310 AQUEOUS								
Acenaphthene	1319	2068	10.0	ug/L	8.38	84	64 - 121	
Acenaphthylene	1319	2068	20.0	ug/L	16.5	82	64 - 122	
Anthracene	1319	2068	1.00	ug/L	0.580	58	52 - 118	
Benzo(a)anthracene	1319	2068	1.00	ug/L	0.752	75	59 - 122	
Benzo(b)fluoranthene	1319	2068	2.00	ug/L	1.47	74	64 - 117	
Benzo(k)fluoranthene	1319	2068	1.00	ug/L	0.731	73	60 - 119	
Benzo(a)pyrene	1319	2068	1.00	ug/L	0.564	56	50 - 115	
Benzo(ghi)perylene	1319	2068	2.00	ug/L	1.48	74	56 - 118	
Chrysene	1319	2068	1.00	ug/L	0.722	72	64 - 119	
Dibenzo(a,h)anthracene	1319	2068	2.00	ug/L	1.44	72	46 - 126	
Fluoranthene	1319	2068	2.00	ug/L	1.68	84	68 - 122	
Fluorene	1319	2068	2.00	ug/L	1.71	86	61 - 126	
Indeno(1,2,3-cd)pyrene	1319	2068	1.00	ug/L	0.723	72	58 - 119	
1-Methylnaphthalene	1319	2068	10.0	ug/L	8.14	81	57 - 118	
2-Methylnaphthalene	1319	2068	10.0	ug/L	8.06	81	51 - 119	
Naphthalene	1319	2068	10.0	ug/L	8.02	80	55 - 113	
Phenanthrene	1319	2068	1.00	ug/L	0.911	91	66 - 122	
Pyrene	1319	2068	1.00	ug/L	0.778	78	56 - 123	
Surr: 2-Fluorobiphenyl	1319	2068	5.00	ug/L	3.78	76	31 - 113	



**QUALITY CONTROL REPORT**  
**MATRIX SPIKE/MATRIX SPIKE DUPLICATE**

03/23/2005

Mr. Kevin Lincicum  
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Brookfield, WI 53045

Job No: 05.01419  
Account No: 39150

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Job Description: 2624.001 MHA Nation Refinery

Analyte	Prep	Run	Sample	Spike	Matrix	MS	MSD	Relative			
	Batch	Batch							Control	Percent	Percent
	Number	Number	Result	Amount	Units	Result	Result	Recovery	Recovery	Limits	Difference
Alkalinity, total (CaCO3)		1297	250	200	mg/L	439	436	94	93	47 - 136	0.7
Chloride		2490	260	100	mg/L	361	366	101	106	64 - 132	1.4
Hardness, Total		1111	1,000	400	mg/L	1,400	1,420	100	105	76 - 126	1.4
N-Nitrate + Nitrite		1772	8.8	5.00	mg/L	14.2	14.3	108	110	67 - 126	0.7
Sulfate, IC		1930	210	25.0	mg/L	231	235	84	100	66 - 132	1.7
Barium, Dissolved, ICP		2176	0.11	1.00	mg/L	0.886	0.860	78	75	57 - 124	3.0
Cadmium, Dissolved, ICP		1971	0.0078	1.00	mg/L	0.965	0.959	96	95	65 - 118	0.6
Chromium, Dissolved, ICP		1987	<0.0021	1.00	mg/L	0.956	0.953	96	95	63 - 122	0.3
Iron, Dissolved, ICP		2005	0.34	2.00	mg/L	2.25	2.24	96	95	60 - 131	0.4
Manganese, Dissolved, ICP		1948	1.3	1.00	mg/L	2.25	2.23	95	93	69 - 119	0.9
Mercury, Dissolved, CVAA	80	1753	<0.000056	0.00250	mg/L	0.00269	0.0026	108	106	75 - 125	1.9
Mercury, Dissolved, CVAA	80	2160	<0.000092	0.00250	mg/L	0.00285	0.0029	114	117	67 - 141	2.8
Potassium, Dissolved, ICP		1944	9.5	4.00	mg/L	13.4	13.6	98	102	75 - 125	1.5
Silver, Dissolved, ICP		1965	<0.0013	1.00	mg/L	0.947	0.953	95	95	70 - 124	0.6
VOC - AQUEOUS - EPA 8260B											
Benzene		7145	<0.20	50.0	ug/L	44.2	45.6	88	91	80 - 121	3.1
Chlorobenzene		7145	<0.20	50.0	ug/L	43.4	45.5	87	91	85 - 116	4.7
1,1-Dichloroethene		7145	<0.50	50.0	ug/L	45.8	46.8	92	94	72 - 131	2.2
Ethylbenzene		7145	<0.50	50.0	ug/L	44.5	46.0	89	92	83 - 118	3.3
Methyl-t-butyl ether		7145	4.2	50.0	ug/L	48.5	50.3	89	92	71 - 127	3.6
Toluene		7145	<0.20	50.0	ug/L	43.5	45.7	87	91	82 - 116	4.9
Trichloroethene		7145	<0.20	50.0	ug/L	44.4	46.0	89	92	80 - 117	3.5
1,2,4-Trimethylbenzene		7145	<0.20	50.0	ug/L	43.4	44.6	87	89	80 - 122	2.7
1,3,5-Trimethylbenzene		7145	<0.20	50.0	ug/L	43.7	44.8	87	90	83 - 122	2.5
Xylenes, Total		7145	<0.50	150	ug/L	132	137	88	91	84 - 119	3.7
Surr: Dibromofluoromethane		7145	49.6	50.0	ug/L	50.2	50.2	100	100	90 - 114	0.0
Surr: Toluene-d8		7145	49.9	50.0	ug/L	49.7	50.1	99	100	90 - 106	0.8
Surr: Bromofluorobenzene		7145	50.0	50.0	ug/L	49.9	49.5	100	99	96 - 106	0.8
PNA - 8310 AQUEOUS											
Acenaphthene	1319	2068	<0.82	33.3	ug/L	29.3	29.0	88	87	64 - 123	1.0
Acenaphthylene	1319	2068	<1.7	66.7	ug/L	57.8	57.8	87	87	62 - 128	0.0
Anthracene	1319	2068	<0.095	3.33	ug/L	2.95	2.98	89	90	59 - 129	1.0
Benzo(a)anthracene	1319	2068	<0.11	3.33	ug/L	2.98	3.07	90	92	64 - 131	3.0
Benzo(b)fluoranthene	1319	2068	<0.24	6.67	ug/L	6.34	6.58	95	99	65 - 125	3.7
Benzo(k)fluoranthene	1319	2068	<0.12	3.33	ug/L	3.14	3.30	94	99	62 - 131	5.0
Benzo(a)pyrene	1319	2068	<0.080	3.33	ug/L	3.14	3.37	94	101	52 - 127	7.1
Benzo(ghi)perylene	1319	2068	<0.30	6.67	ug/L	6.45	6.71	97	101	58 - 131	4.0
Chrysene	1319	2068	<0.10	3.33	ug/L	2.99	3.06	90	92	64 - 125	2.3

**QUALITY CONTROL REPORT**  
**MATRIX SPIKE/MATRIX SPIKE DUPLICATE**

03/23/2005

Mr. Kevin Lincicum  
GEOTRANS, INC.  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

Job No: 05.01419  
Account No: 39150

Page 34 of 36

Job Description: 2624.001 MHA Nation Refinery

Analyte	Prep	Run	Sample Result	Spike		Matrix	MSD Result	MS	MSD	Relative Control Limits	Relative Percent Difference
	Batch Number	Batch Number		Amount	Units	Spike Result		Percent Recovery	Percent Recovery		
Dibenzo(a,h)anthracene	1319	2068	<0.32	6.67	ug/L	6.38	6.68	96	100	50 - 133	4.6
Fluoranthene	1319	2068	<0.20	6.67	ug/L	6.27	6.21	94	93	63 - 130	1.0
Fluorene	1319	2068	<0.16	6.67	ug/L	6.14	5.99	92	90	59 - 129	2.5
Indeno(1,2,3-cd)pyrene	1319	2068	<0.16	3.33	ug/L	3.17	3.24	95	97	59 - 134	2.2
1-Methylnaphthalene	1319	2068	<0.80	33.3	ug/L	28.0	27.7	84	83	58 - 121	1.1
2-Methylnaphthalene	1319	2068	<0.78	33.3	ug/L	27.3	27.4	82	82	53 - 124	0.4
Naphthalene	1319	2068	<1.0	33.3	ug/L	27.5	27.4	83	82	51 - 127	0.4
Phenanthrene	1319	2068	<0.075	3.33	ug/L	3.18	3.15	96	95	63 - 129	0.9
Pyrene	1319	2068	<0.11	3.33	ug/L	2.99	2.89	90	87	54 - 130	3.4
Surr: 2-Fluorobiphenyl	1319	2068	4.10	5.00	ug/L	3.93	3.85	79	77	31 - 113	2.1

## QUALITY CONTROL REPORT SPIKES

03/23/2005

Mr. Kevin Lincicum  
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 Brookfield, WI 53045

Job No: 05.01419  
 Account No: 39150

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Job Description: 2624.001 MHA Nation Refinery

Analyte	Prep	Run	Sample Result	Spike Amount	Units	Spike Result	Percent Recovery	Control Limits
	Batch Number	Batch Number						
Sulfate, IC		1928	270	250	mg/L	516	98	66 - 132
Arsenic, Dissolved, GFAA		1135	<0.00079	0.0200	mg/L	0.0173	86	69 - 134
Arsenic, Dissolved, GFAA		1135	<0.00079	0.0200	mg/L	0.0228	114	69 - 134
Lead, Dissolved, GFAA		2614	<0.00044	0.0200	mg/L	0.0219	110	73 - 122
Lead, Dissolved, GFAA		2614	0.0033	0.0200	mg/L	0.0214	90	73 - 122

## QUALITY CONTROL REPORT DUPLICATES

03/23/2005

Mr. Kevin Lincicum  
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 175 N. Corporate Drive  
 Suite 100  
 Brookfield, WI 53045

Job No: 05.01419  
 Account No: 39150

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Job Description: 2624.001 MHA Nation Refinery

Parameter	Prep Batch Number	Run Batch Number	Sample Value	Duplicate Value	Units	RPD	Control Limit
Chloride		2490	220	215	mg/L	2.3	19
Hardness, Total		1111	1,080	1,100	mg/L	1.8	15
N-Nitrate + Nitrite		1772	4.9	4.96	mg/L	1.2	17
Solids, Total Dissolved		1389	2,200	2,140	mg/L	2.8	10
Sulfate, IC		1928	240	244	mg/L	1.7	22
Sulfate, IC		1930	190	189	mg/L	0.5	22
Calcium, Dissolved, ICP		1958	78	80	mg/L	2.5	20
Lead, Dissolved, GFAA		2614	<0.00044	<0.00044	mg/L		10
Mercury, Dissolved, CVAA	80	1753	<0.000056	<0.000056	mg/L		
Mercury, Dissolved, CVAA	80	2160	<0.000092	<0.000092	mg/L		13
Selenium, Dissolved, GFAA		880	<0.0032	<0.0032	mg/L		20
Sodium, Dissolved ICP		1961	110	110	mg/L	0.0	20