

Rec'd 9-9-02

0246189396



September 6, 2002

Alpha Terra Science, Inc.
1237 S. Pilgrim Road, Plymouth, WI 53073
TEL 920/892-2444 FAX 920/892-2620
E-mail-alphaterra@alphaterra.net

Ms. Nancy Ryan
WDNR Plymouth Service Center
P.O. Box 408
Plymouth, WI 53073

Re: Former Plymouth Foundry Additional Soil VOC Investigation Results, BRRTS # 02-46-189401 and # 02-46-189396, FID # 246148100, 1019 N. 11th Avenue, Grafton, Wisconsin 53024

0246258633 ✓

Dear Ms. Ryan,

As you know, eight additional soil borings (B-41 to B-48, Figure 1) were installed in December 2001, primarily along the western edge of the Plymouth Foundry property. Soil samples were retained for testing of volatile organic compounds (VOCs) and petroleum constituents. The purpose of this submittal is to provide the results of the additional testing as it relates to the chlorinated VOCs. The petroleum results obtained from borings B-46, B-47, and B-48 will be discussed in a later submittal.

Groundwater on the Plymouth Foundry property contains elevated levels of chlorinated VOCs. The purpose of the borings was to evaluate potential sources of VOC contamination in the groundwater.

The results are attached in tabulated form and the laboratory analytical reports are attached. The boring locations are mapped on Figure 1.

Hydrogeology

The soil boring logs are attached. The encountered geology consists of silty clay with occasional wet silty sand seams.

A perched water zone was present in many of these borings, and the soil samples from 10 to 12 feet were wet. The depth to the permanent water table surface in this area is approximately 16 feet below grade, with groundwater flow to the east / southeast / northeast. Perched groundwater has been observed sporadically across the Plymouth Foundry site, at depths ranging from 4 to 7 feet below grade.

Soil Chemistry Results

The recovered soil samples were analyzed in the field for VOCs using a photoionization detector with a 10.6eV lamp (PID). The PID results are included on the boring logs. With the exception of boring B-44, no significant PID detections in the soils were noted until a depth of approximately 8 feet, which is likely coincident with the presence of the perched water. At boring B-44, the soil at a depth of 4 to 6 feet had a detection of 112 units (nominally parts per million: ppm) on the PID.

Soil samples for laboratory analysis were retained above the permanent water table surface in an effort to evaluate if releases at the location of the borings had occurred.

Chlorinated VOCs, primarily tetrachloroethene (PCE) but also trichloroethene (TCE), were present in the soil from three borings located on the southwest portion of the site (Borings B-43, B-44, and B-45, Table 1). The results from boring B-43 indicate a trace detection of 26 parts per billion PCE in the shallow sample, with no chlorinated compounds present in the deeper sample.

At borings B-44 and B-45, soil samples from the shallow zone at a depth of approximately 4 to 8 feet below grade had much lower concentrations of PCE and TCE than soil from the deeper sample interval. The presence of chlorinated VOCs in the shallow soil may be a result of vapor migration of contaminants from the deeper saturated zone. The shallow soil does not appear to be contaminated via a surface release, as the shallow concentrations of contaminants are significantly lower than the concentrations observed at depth.

Similar or higher concentrations of chlorinated VOCs have been detected on the Construction Forms property to the west. It is reasonable to assume the chlorinated VOC contamination observed in borings B-44 and B-45 is present as a result of migration from off-site sources, either via the perched water flow, or vapor migration from the slightly deeper water table surface.

Soil chemistry results from borings B-47 and B-48 from a depth of less than 4 feet indicate the absence of VOCs in the soil at these locations (Table 1).

Groundwater Chemistry Results

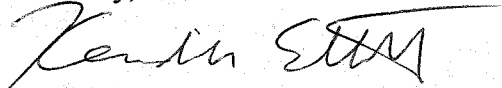
No groundwater samples were obtained from the western borings in the December 2001 sample event. Figure 4, prepared by GZA, presents historic groundwater chemistry results for the Construction Forms site and the groundwater from the western portion of the Plymouth Foundry site. The historic groundwater chemistry results demonstrate that the highest concentrations of chlorinated VOCs have been present on the CF property to the west.

Recommendations

We would like to meet with you to discuss the path to case closure for Plymouth Foundry. The meeting should include an evaluation of the steps needed to support closure via an off-site liability exemption.

I trust this information meets your needs.

Sincerely,



Kendrick Ebbott
Senior Hydrogeologist
Director of Remediation Services

Attachments: Soil Chemistry Laboratory Analytical Results, B-41 to B-48
Table 1: Soil Chemistry Results, December 26, 2001
Figure 1: Boring Locations
Borehole Logs, B-41 to B-48
Figure 4: Summary of Groundwater Analytical Data

Cc: Ms. Kris Hughes (letter only, attachments provided with draft)
Mr. Steve Castner (letter only, attachments provided with draft)




TABLE 1 : SOIL CHEMISTRY RESULTS, VOC ANALYSES, DEC 26, 2001 SAMPLES

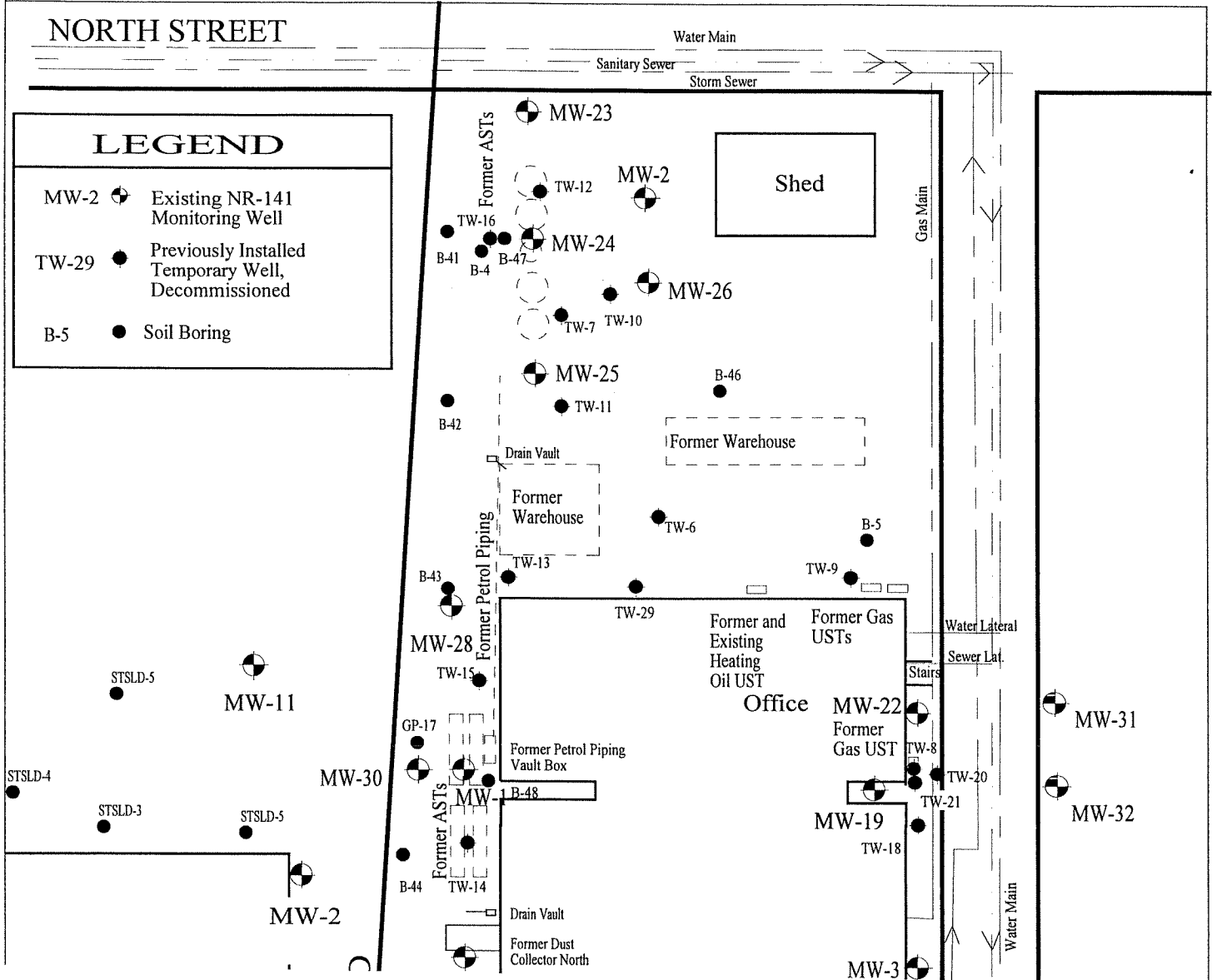
Former Plymouth Foundry Site, Grafton, Wisconsin

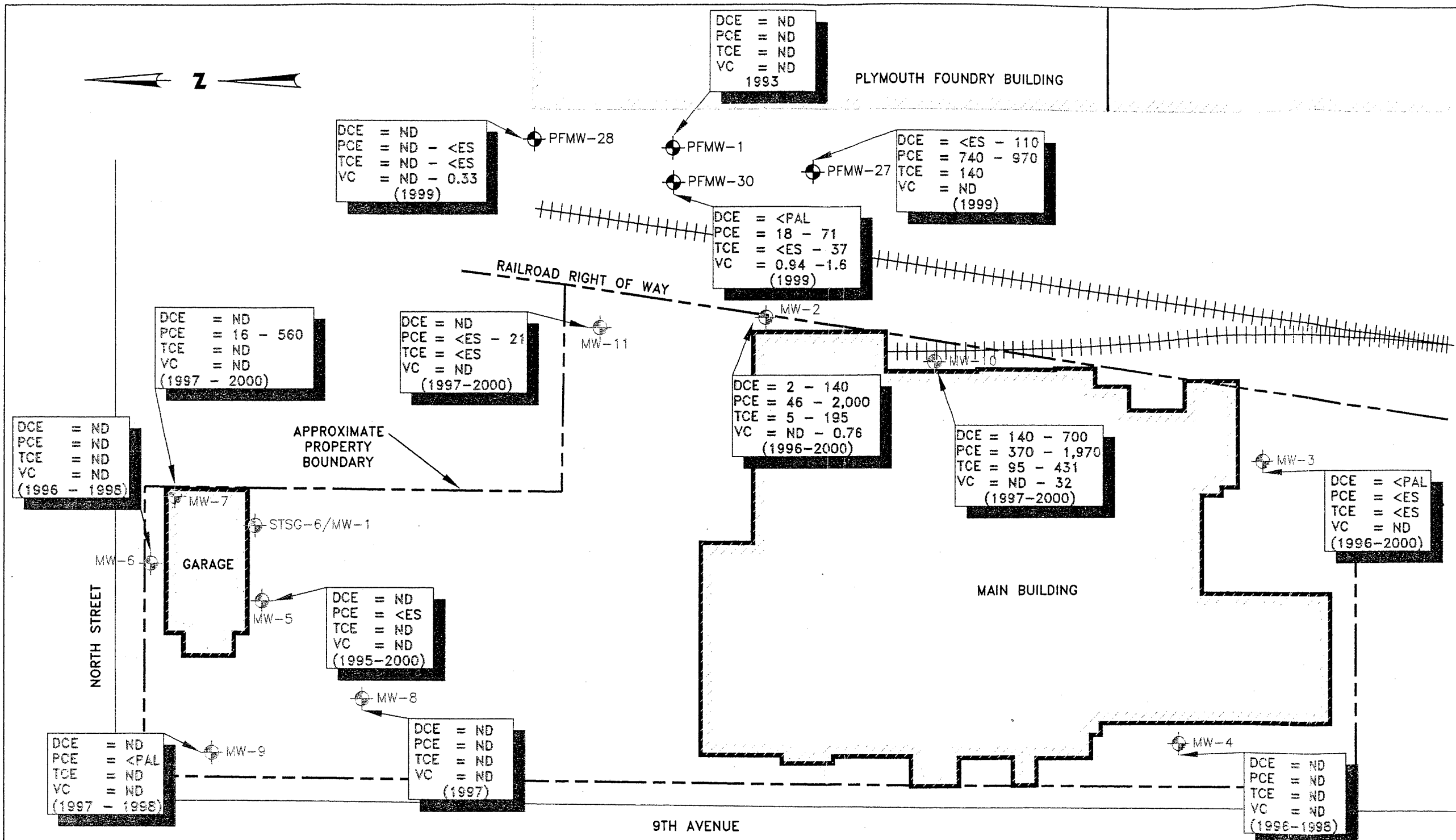
				LABORATORY RESULTS												
SAMPLE I.D.	DEPTH (feet)	FIELD PID (s.u.)	Wet ?	Detected Volatile Organic Compounds (ug/kg)												
				Styrene	i-Propylbenzene	N-Propylbenzene	t-Butylbenzene	s-Butylbenzene	N-Butylbenzene	1,2-Dichlorobenzene	Naphthalene	p-Isopropyltoluene	1,1,1,2-Tetrachloroethane	Tetrachloroethene	Trichloroethene	Total Detected VOCs (w/out PVOCs)
WI ADMIN CODE																
NR 720 Generic Standards				NS	NS	NS	NS	NS	NS		110000/ 20000/ 400	NS		NS	NS	NS
December 2001 Investigation																
SUMMARY OF BORINGS ALONG FORMER RAILROAD SPUR																
B41 : 145'N, 20'W of Fndry Bldg	4-6	0	Moist	<19	<20	<15	<12	<21	<22	<14	<25	<21	<15	<22	<23	0
B41 : 145'N, 20'W of Fndry Bldg	10-12	2.4	YES	<19	<20	<15	<12	<21	<22	<14	<25	<21	<15	<22	<23	0
B42 : 77'N, 20'W of Fndry Bldg	6-8	0	Moist	<19	<20	<15	<12	<21	<22	<14	<25	<21	<15	<22	<23	0
B42 : 77'N, 20'W of Fndry Bldg	10-12	0	YES	<19	<20	<15	<12	<21	<22	<14	<25	<21	<15	<22	<23	0
B43 : 3'N, 20'W of Fndry Bldg	6-8	1.0	Moist	<19	<20	<15	<12	<21	<22	<14	<25	<21	<15	26.0	<23	26
B43 : 3'N, 20'W of Fndry Bldg	10-12	15.5	YES	<19	<20	18	<12	64	140	26	<25	<21	<15	<22	<23	248
B44 : 103'S, 35'W of Fndry Bldg	4-6	112.0	Moist	<19	<20	<15	<12	<21	<22	<14	<25	<21	<15	330	<23	330
B44 : 103'S, 35'W of Fndry Bldg	10-12	22.4	YES	<19	<20	<15	<12	<21	<22	<14	<25	<21	<15	2500	38	2,538
B47 : 135'N, 0'W of Fndry Bldg	2-4	0.0	Moist	<190	<200	<150	<120	<210	<220	<140	<250	<210	<150	<220	<230	0
B48 : 69'S, 6'W of Fndry Bldg	2-4	3.1	Moist	<190	<200	<150	<120	<210	<220	<140	<250	<210	<150	<220	<230	0
B45 : 250'S, 37'W of Fndry Bldg	6-8	1.0	Moist	<19	<20	<15	<12	<21	<22	<14	<25	<21	<15	180	<23	180
B45 : 250'S, 37'W of Fndry Bldg	10-12	36.2	YES	<19	<20	<15	<12	<21	<22	<14	<25	<21	23.0	3800	1500	5,323

NORTH STREET

LEGEND

- MW-2  Existing NR-141 Monitoring Well
- TW-29  Previously Installed Temporary Well, Decommissioned
- B-5  Soil Boring





NOTES:

1. BASEMAP DEVELOPED FROM PLAN PROVIDED BY STS CONSULTANTS, INC. AND PREPARED FROM A SURVEY PERFORMED BY NATIONAL SURVEY & ENGINEERING, DATED JUNE 13, 1996.
2. LOCATION OF PLYMOUTH FOUNDRY BUILDING AND WELLS ESTIMATED FROM ALPHA TERRA SCIENCE, INC.
3. ALL RESULTS ARE IN MICROGRAMS PER LITER (ug/L)

LEGEND:

- MW-4 MONITORING WELL LOCATION
- PFMW-1 PLYMOUTH FOUNDRY MONITORING WELL LOCATION
- DCE = cis-1,2 DCE
- PCE = TETRACHLOROETHENE
- TCE = TRICHLOROETHENE
- VC = VINYL CHLORIDE
- ES = ENFORCEMENT STANDARD
- FAL = PREVENTIVE ACTION LIMIT
- ND = NOT DETECTED
- (1996-1998) = DATA SAMPLING RANGE

CONSTRUCTION FORMS, INC.
GRAFTON, WISCONSIN

SUMMARY OF GROUNDWATER ANALYTICAL DATA

JOB NO.
150531

FIGURE NO.
4

REV. NO.	DESCRIPTION	BY	DATE
	PROJ MGR: BGF DESIGNED BY: BGF REVIEWED BY:	OPERATOR: JAC	DATE: 6/26/02

APPROXIMATE SCALE 1"=50'
0 25' 50' 100'

GZA | GeoEnvironmental, Inc.
N 4140 Duplainville Road • Pewaukee, Wisconsin • 53072
Phone (262) 691-2662 • Fax (262) 691-9279 • www.gza.com

Route To:

- Solid Waste
- Emergency Response
- Wastewater
- Superfund
- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 5-92

Facility/Project Name Plymouth Foundry / Estate of Richard Goldberg		License/Permit/Monitoring Number _____		Boring Number B- 41	
Boring Drilled By (Firm name and name of crew chief) Alpha Terra Science, Ken Ebbott / Steve Steinbart Soil Essentials, New Glarus		Date Drilling Started 12/26/01 M M D D Y Y		Date Drilling Completed 12/26/01 M M D D Y Y	
DNR Facility Well No.		WI Unique Well No.		Common Well Name B-	
Final Static Water Level		Surface Elevation		Borehole Diameter 2.0 inches	
Boring Location State Plane _____ N, _____ E S/C/N _____ NW 1/4 of NE 1/4 of Section 24 T 10 N R 21 E Long _____				Local Grid Location (if applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County Ozaukee		DNR County Code 4 6		Civil Town/City/or Village (Village of Grafton)	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					P200	RQDA	Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	Index			
N BORING NEAR RR TRACKS																
1	4.0'		0-1	^{sandy} SILTY CLAY, roots, moist, non-plastic, (TOPSOIL FILL) CL/SM	CL/SM			0.0								
			2	1-2 SAND AND GRAVEL, Lt brown, cinders, loose, non-plastic. (SP/GP, FILL) SP/GP				0.0								
2	4.0'		2-16	SILTY CLAY, Lt brown w/ gray mottling, moist, high plasticity, moist. (TILL, CL)	CL			0.0								
3	4.0'							1.3								
								2.4								
4	4.0'							1.3								
								5.1								
				Lab Samples for Analysis: 4-6', 10-12'												
				16 ft F.O.B. Borehole abandoned with bentonite												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Ken Ebbott Firm: ALPHA TERRA SCIENCE, INC.

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Facility/Project Name Plymouth Foundry / Estate of Richard Goldberg		License/Permit/Monitoring Number _____	Boring Number B- 42
Boring Drilled By (Firm name and name of crew chief) Alpha Terra Science, Ken Ebbott / Steve Steinhardt Soil Essentials, New Glarus		Date Drilling Started 12/26/01 M M D D Y Y	Date Drilling Completed 12/26/01 M M D D Y Y
DNR Facility Well No.	WI Unique Well No.	Common Well Name BE	Final Static Water Level
Boring Location State Plane _____ N, _____ E S/C/N _____" NW 1/4 of NE 1/4 of Section <u>24</u> T <u>10</u> N R <u>21</u> E Long _____"		Surface Elevation	Borehole Diameter <u>2.0</u> inches
County Ozaukee		DNR County Code <u>4 6</u>	Civil Town/City/or Village (Village of Grafton)

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					P200	RQDA	Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	Index			
1	4.0/		0-1'	SILTY SAND & CLAY, black, nonplastic. (TOPSOIL FILL)	CL/SM			0.0								
			1-2'	SAND, lt brown and black, gravel & cinders, loose. (FILL, SP/GB)	SP/GP			0.0								
2	4.0/		2-16'	SILTY CLAY, lt brown, moist to wet where siltier/sand layers. Sand seen 9.5-10' & 13.5-13.6". Siltier 13.6-16".	CL			0.0								
			3					0.0								
4	4.0/		12-14'		SP			12.4								
			14-16'		CL/ML			12.4								
Lab Samples for Analysis: 6-8'; 10-12'																
16 ft. F.O.B. Borehole abandoned with bentonite																

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Ken Ebbott</i>	Firm ALPHA TERRA SCIENCE, INC.
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Facility/Project Name Plymouth Foundry / Estate of Richard Goldberg		License/Permit/Monitoring Number		Boring Number B- 43	
Boring Drilled By (Firm name and name of crew chief) Alpha Terra Science, Ken Ebbott Soil Essentials, New Glarus		Date Drilling Started 12/26/01 M M D D Y Y	Date Drilling Completed 12/26/01 M M D D Y Y	Drilling Method Geoprobe	
DNR Facility Well No.	WI Unique Well No.	Common Well Name BE		Final Static Water Level	Surface Elevation
Boring Location		State Plane _____ N, _____ E S/C/N _____ NW 1/4 of NE 1/4 of Section <u>24</u> T <u>10</u> N R <u>21</u> E Long _____		Local Grid Location (if applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County Ozaukee		DNR County Code 4 6	Civil Town/City/or Village (Village of Grafton)		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					P200	RQD	Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	Index			
1			2	0-1' SILTY SANDY CLAY, black, moist, moist. (TOXIC FILL)	CY SM			0.0								
			4	1-2 SAND/GRAVEL, lt brown and black, cinders, loose. (FILL)	SP/ GP			0.3								
2			6	2-15 SILTY CLAY, lt brown, moist, high plasticity, petroleum odor 8-15. (TILL, CL)	CL			0.0								
			8	15-16 SAND, lt brown, moist, petroleum odor (TILL/ALLUVIUM, SP)				1.0								
3			10		CL			10.0								
			12					15.5								
4			14		CL			15.8								
			16					10.6								
16 ft FOR Borehole abandoned with bentonite				1 lab Samples for Analysis: 6-8'; 10-12'												

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature Ken Ebbott Firm **ALPHA TERRA SCIENCE, INC.**

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Route To:
 Solid Waste
 Emergency Response
 Wastewater
 Superfund
 Haz. Waste
 Underground Tanks
 Water Resources
 Other _____

Facility/Project Name Plymouth Foundry / Estate of Richard Goldberg		License/Permit/Monitoring Number _____	Boring Number B- 45
Boring Drilled By (Firm name and name of crew chief) Alpha Terra Science, Ken Ebbott Soil Essentials, New Glarus		Date Drilling Started 12/26/01 M M D D Y Y	Date Drilling Completed 12/26/01 M M D D Y Y
DNR Facility Well No.	WI Unique Well No.	Common Well Name B	Final Static Water Level
Surface Elevation		Borehole Diameter 2.0 inches	

Boring Location
 State Plane _____ N, _____ E S/C/N _____"
 NW 1/4 of NE 1/4 of Section 24 T 10 N R 21 E Long _____"
 Local Grid Location (if applicable)
 N E
 S W

County **Ozaukee** DNR County Code 4 6 Civil Town/City/or Village
(Village of Grafton)

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well	Diagram	PID/FID	Soil Properties					P200	RQDA	Comments
										Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	Index			
1			2	0-1 SILTY SANDY CLAY, black, roots, moist. (TOPSOIL FILL)	CL				0.0								
			4	1-2 SAND, black & lt brown, cinders, loose. (FILL)					0.0								
			6	2-16 SILTY CLAY, lt brown to brown 12', moist, high plasticity. (TILL, CL)					1.0								
2			8		CL				10.1								
			10						36.2								
3			12		CL				15.1								
			14						18.6								
4			16	Lab Samples for Analysis: 6-8'; 10-12'	CL												
			18	16ft - F O R Borehole abandoned with bentonite													

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature _____ Firm **ALPHA TERRA SCIENCE, INC.**

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Facility/Project Name Plymouth Foundry / Estate of Richard Goldberg		License/Permit/Monitoring Number	Boring Number B- 46
Boring Drilled By (Firm name and name of crew chief) Alpha Terra Science, Ken Ebbott Soil Essentials, New Glarus		Date Drilling Started 12/26/01 M M D D Y Y	Date Drilling Completed 12/26/01 M M D D Y Y
DNR Facility Well No.	WI Unique Well No.	Common Well Name BE	Borehole Diameter 2.0 inches

Boring Location
 State Plane _____ N, _____ E S/C/N _____
 NW 1/4 of NE 1/4 of Section 24 T 10 N R 21 E Long _____
 Local Grid Location (if applicable)
 N E
 S W

County **Ozaukee** DNR County Code 4 6 Civil Town/City/or Village
 (Village of Grafton)

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					P200	RQDA	Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	Index			
1			0 - 1.5	SAND & GRAVEL, loose (fill - parking lot)	SP/ GP											
			1.5 - 2	SILTY SANDY CLAY, Black, (NATIVE TOPSOIL)	CL											
2			2 - 6	SILTY CLAY, brown to light brown, moist, hi plastic (TILL, CL)	CL											
			6 - 10	SAND, silty to 8", wet, loose, non plastic. (ALLUVIUM, SP/SM)	SP/ SM											
3			10 - 12	SILTY CLAY, brown, moist, hi plasticity. (TILL, CL)	CL											
			12 ft - FOR	Borehole abandoned with bentonite												

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature Ken Ebbott Firm **ALPHA TERRA SCIENCE, INC.**

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- Route To:
- Solid Waste
 - Emergency Response
 - Wastewater
 - Superfund
 - Haz. Waste
 - Underground Tanks
 - Water Resources
 - Other _____

Facility/Project Name Plymouth Foundry / Estate of Richard Goldberg		License/Permit/Monitoring Number	Boring Number B-47
Boring Drilled By (Firm name and name of crew chief) Alpha Terra Science, Ken Ebbott Soil Essentials, New Glarus		Date Drilling Started 12/26/01 M M D D Y Y	Date Drilling Completed 12/26/01 M M D D Y Y
DNR Facility Well No.	WI Unique Well No.	Common Well Name B	Borehole Diameter 2.0 inches
Boring Location		Final Static Water Level	Surface Elevation
State Plane <u> </u> N, <u> </u> E S/C/N		Local Grid Location (if applicable)	
<u>NW</u> 1/4 of <u>NE</u> 1/4 of Section <u>24</u> T <u>10</u> N R <u>21</u> E Long <u> </u> "		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County Ozaukee		DNR County Code 4 6	Civil Town/City/or Village (Village of Grafton)

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					P200	RQD	Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	Index			
1	4.0/ 3.0		0-1	SILTY SANDY CLAY, black, (TOPPING FILL)	CL			0.0								
			1-2	SAND, lt brown & black, cinders, loose	SP/CP			0.0								
			2-4	SILTY CLAY, lt brown, moist, high plasticity (TILL, CL)	CL											
				Lab Samples for Analysis: 0-2', 2-4'												
				4 ft FOR Borehole abandoned with bentonite												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Ken Ebbott Firm **ALPHA TERRA SCIENCE, INC.**

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- Route To:
- Solid Waste
 - Emergency Response
 - Wastewater
 - Superfund
 - Haz. Waste
 - Underground Tanks
 - Water Resources
 - Other _____

Facility/Project Name Plymouth Foundry / Estate of Richard Goldberg		License/Permit/Monitoring Number _____		Boring Number B- 48	
Boring Drilled By (Firm name and name of crew chief) Alpha Terra Science, Ken Ebbott Soil Essentials, New Glarus		Date Drilling Started ____/____/____ M M / D D / Y Y		Date Drilling Completed ____/____/____ M M / D D / Y Y	
DNR Facility Well No.		WI Unique Well No.		Common Well Name B	
Final Static Water Level		Surface Elevation		Borehole Diameter 2.0 inches	
Boring Location State Plane _____ N, _____ E S/C/N _____ ____ NW 1/4 of NE 1/4 of Section <u>24</u> T <u>10</u> N R <u>21</u> E Long _____				Local Grid Location (if applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County Ozaukee		DNR County Code 4 6		Civil Town/City/or Village (Village of Grafton)	

Sample Number and Type	Length, Alt. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						P200	RQD	Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	Index	Index			
1	30		0-1	SAND & GRAVEL (FILL)	SP/60			0.0									
			1-2	SAND, 1/4 brown and black, cinders, (FILL, SP/60)	SP/60				3.1								
			2-4	SILTY CLAY, Gray (FILL, CL)													
				Lab Samples for Analysis: 0-2'; 2-4'													
				4 ft FOR Borehole abandoned with bentonite													

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Ken Ebbott Firm: **ALPHA TERRA SCIENCE, INC.**

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

ANALYTICAL REPORT

Client: Alpha Terra Science Inc (Plymouth)
 Attn: Steve Steinhardt
 1237 South Pilgrim Road
 Plymouth, WI 53073

NLS Project: 64345

NLS Customer: 90011

Project: Richard Goldberg Estate - PECFA SI HUG-9701

Soil, B1 4-6' NLS ID: 272919 *B-41*

Ref. Line COC 102661 Soil, B1 4-6' Matrix: SO
 Collected: 12/26/01 00:00 Received: 12/28/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	86.3	%	1	0.10		01/02/02	ASTM D2216	721026460
VOCs (solid) by EPA 8021	see attached		-			01/04/02	SW846 8021	721026460

Soil, B1 10-12' NLS ID: 272920 *B-41*

Ref. Line COC 102661 Soil, B1 10-12' Matrix: SO
 Collected: 12/26/01 00:00 Received: 12/28/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	85.9	%	1	0.10		01/02/02	ASTM D2216	721026460
VOCs (solid) by EPA 8021	see attached		-			01/04/02	SW846 8021	721026460

Soil, B2 6-8' NLS ID: 272921 *B-42*

Ref. Line COC 102661 Soil, B2 6-8' Matrix: SO
 Collected: 12/26/01 00:00 Received: 12/28/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	88.1	%	1	0.10		01/02/02	ASTM D2216	721026460
VOCs (solid) by EPA 8021	see attached		-			01/04/02	SW846 8021	721026460

Soil, B2 10-12' NLS ID: 272922 *B-42*

Ref. Line COC 102661 Soil, B2 10-12' Matrix: SO
 Collected: 12/26/01 00:00 Received: 12/28/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	88.1	%	1	0.10		01/02/02	ASTM D2216	721026460
VOCs (solid) by EPA 8021	see attached		-			01/04/02	SW846 8021	721026460

Soil, B3 6-8' NLS ID: 272923 *B-43*

Ref. Line COC 102661 Soil, B3 6-8' Matrix: SO
 Collected: 12/26/01 00:00 Received: 12/28/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	85.9	%	1	0.10		01/02/02	ASTM D2216	721026460
VOCs (solid) by EPA 8021	see attached		-			01/04/02	SW846 8021	721026460

Soil, B3 10-12' NLS ID: 272924 *B-43*

Ref. Line COC 102661 Soil, B3 10-12' Matrix: SO
 Collected: 12/26/01 00:00 Received: 12/28/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	84.7	%	1	0.10		01/02/02	ASTM D2216	721026460
VOCs (solid) by EPA 8021	see attached		-			01/07/02	SW846 8021	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: 01/10/02 Code: S

Page 2 of 4

Client: Alpha Terra Science Inc (Plymouth)
 Attn: Steve Steinhardt
 1237 South Pilgrim Road
 Plymouth, WI 53073

NLS Project: 64345

NLS Customer: 90011

Project: Richard Goldberg Estate - PECFA SI HUG-9701

Soil, B4 4-6' NLS ID: 272925

B-44

Ref. Line COC 102661 Soil, B4 4-6' Matrix: SO
 Collected: 12/26/01 00:00 Received: 12/28/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	84.0	%	1	0.10		01/02/02	ASTM D2216	721026460
VOCs (solid) by EPA 8021	see attached		-			01/07/02	SW846 8021	721026460

Soil, B4 10-12' NLS ID: 272926

B-44

Ref. Line COC 102661 Soil, B4 10-12' Matrix: SO
 Collected: 12/26/01 00:00 Received: 12/28/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	82.4	%	1	0.10		01/02/02	ASTM D2216	721026460
VOCs (solid) by EPA 8021	see attached		-			01/07/02	SW846 8021	721026460

Soil, B5 6-8' NLS ID: 272927

B-45

Ref. Line COC 102661 Soil, B5 6-8' Matrix: SO
 Collected: 12/26/01 00:00 Received: 12/28/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	84.5	%	1	0.10		01/02/02	ASTM D2216	721026460
VOCs (solid) by EPA 8021	see attached		-			01/07/02	SW846 8021	721026460

Soil, B5 10-12' NLS ID: 272928

B-45

Ref. Line COC 102661 Soil, B5 10-12' Matrix: SO
 Collected: 12/26/01 00:00 Received: 12/28/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	84.4	%	1	0.10		01/02/02	ASTM D2216	721026460
VOCs (solid) by EPA 8021	see attached		-			01/08/02	SW846 8021	721026460

Soil, B8 0-2' NLS ID: 272929

B-48

Ref. Line COC 102662 Soil, B8 0-2' Matrix: SO
 Collected: 12/26/01 00:00 Received: 12/28/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	80.1	%	1	0.10		01/02/02	ASTM D2216	721026460
Ultrasonic Extraction by 3550B	yes		-			12/31/01	SW846 3550B	721026460
PAH (solid) by SW846 8270	see attached		-			01/08/02	SW846 8270	721026460

Soil, B8 2-4' NLS ID: 272930

B-48

Ref. Line COC 102662 Soil, B8 2-4' Matrix: SO
 Collected: 12/26/01 00:00 Received: 12/28/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	82.2	%	1	0.10		01/02/02	ASTM D2216	721026460
VOCs (solid) by EPA 8021	see attached		-			01/08/02	SW846 8021	721026460
Ultrasonic Extraction by 3550B	yes		-			12/31/01	SW846 3550B	721026460
PAH (solid) by SW846 8270	see attached		-			01/08/02	SW846 8270	721026460

NORTHERN LAKE SERVICE, INC.
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ANALYTICAL REPORT

WI LAB CERTIFICATION NO. 721026460

Printed: 01/10/02 Code: S

Page 3 of 4

Client: Alpha Terra Science Inc (Plymouth)
 Attn: Steve Steinhardt
 1237 South Pilgrim Road
 Plymouth, WI 53073

NLS Project: 64345

NLS Customer: 90011

Project: Richard Goldberg Estate - PECFA SI HUG-9701

Soil, B7 0-2' NLS ID: 272931

B-47

Ref. Line COC 102662 Soil, B7 0-2' Matrix: SO
 Collected: 12/26/01 00:00 Received: 12/28/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	80.5	%	1	0.10		01/02/02	ASTM D2216	721026460
Ultrasonic Extraction by 3550B	yes		-			12/31/01	SW846 3550B	721026460
PAH (solid) by SW846 8270	see attached		-			01/08/02	SW846 8270	721026460

Soil, B7 2-4' NLS ID: 272932

B-47

Ref. Line COC 102662 Soil, B7 2-4' Matrix: SO
 Collected: 12/26/01 00:00 Received: 12/28/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	80.8	%	1	0.10		01/02/02	ASTM D2216	721026460
VOCs (solid) by EPA 8021	see attached		-			01/08/02	SW846 8021	721026460
Ultrasonic Extraction by 3550B	yes		-			12/31/01	SW846 3550B	721026460
PAH (solid) by SW846 8270	see attached		-			01/08/02	SW846 8270	721026460

Soil, B6 10-12' NLS ID: 272933

B-46

Ref. Line COC 102662 Soil, B6 10-12' Matrix: SO
 Collected: 12/26/01 00:00 Received: 12/28/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	86.0	%	1	0.10		01/02/02	ASTM D2216	721026460
Ultrasonic Extraction by 3550B	yes		-			12/31/01	SW846 3550B	721026460
PAH (solid) by SW846 8270	see attached		-			01/08/02	SW846 8270	721026460

B6 Water NLS ID: 272934

B-46

Ref. Line COC 102662 B6 Water Matrix: GW
 Collected: 12/26/01 00:00 Received: 12/28/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8021	see attached		-			01/01/02	SW846 8021	721026460

MeOH Blank NLS ID: 272935

Ref. Line COC 102662 MeOH Blank Matrix: TB
 Collected: 12/26/01 00:00 Received: 12/28/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (solid) by EPA 8021	see attached		-			01/07/02	SW846 8021	721026460

Trip Blank NLS ID: 272936

Ref. Line COC 102662 Trip Blank Matrix: TB
 Collected: 12/26/01 00:00 Received: 12/28/01

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8021	see attached		-			01/01/02	SW846 8021	721026460

NORTHERN LAKE SERVICE, INC.
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ANALYTICAL REPORT

WI LAB CERTIFICATION NO. 721026460

Printed: 01/10/02 Code: S

Page 4 of 4

Client: Alpha Terra Science Inc (Plymouth)
Attn: Steve Steinhardt
1237 South Pilgrim Road
Plymouth, WI 53073

NLS Project: 64345

NLS Customer: 90011

Project: Richard Goldberg Estate - PECFA SI HUG-9701

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".

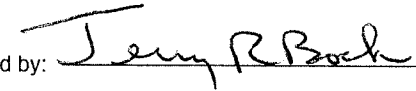
LOD = Limit of Detection
DWB = Dry Weight Basis

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: Polynuclear Aromatic Hydrocarbons by EPA 8270C - Soil

Page 1 of 3

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345

Project Description: Richard Goldberg Estate - PECFA SI

Project Title: HUG-9701

Template: 8270PAHS

Sample: 272929 Soil, B8 0-2' *B-48* Collected: 12/26/01 Analyzed: 01/08/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Acenaphthene	ND	ug/Kg	1	15	50
Acenaphthylene	ND	ug/Kg	1	16	55
Anthracene	ND	ug/Kg	1	14	64
Benzo[a]anthracene	ND	ug/Kg	1	18	57
Benzo[a]pyrene	ND	ug/Kg	1	15	49
Benzo[b]fluoranthene	ND	ug/Kg	1	14	47
Benzo[g,h,i]perylene	ND	ug/Kg	1	18	59
Benzo[k]fluoranthene	ND	ug/Kg	1	22	74
Chrysene	ND	ug/Kg	1	15	49
Dibenzo[a,h]anthracene	ND	ug/Kg	1	17	57
Fluoranthene	ND	ug/Kg	1	15	47
Fluorene	ND	ug/Kg	1	18	61
Indeno[1,2,3-cd]pyrene	ND	ug/Kg	1	21	69
2-Methylnaphthalene	ND	ug/Kg	1	19	63
1-Methylnaphthalene	ND	ug/Kg	1	18	59
Naphthalene	ND	ug/Kg	1	18	61
Phenanthrene	ND	ug/Kg	1	15	50
Pyrene	ND	ug/Kg	1	39	130
Nitrobenzene-d5 (SURR)	73%				
2-Fluorobiphenyl (SURR)	66%				
Terphenyl-d14 (SURR)	67%				

Sample: 272930 Soil, B8 2-4' *B-48* Collected: 12/26/01 Analyzed: 01/08/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Acenaphthene	ND	ug/Kg	1	15	50
Acenaphthylene	ND	ug/Kg	1	16	55
Anthracene	ND	ug/Kg	1	14	64
Benzo[a]anthracene	ND	ug/Kg	1	18	57
Benzo[a]pyrene	ND	ug/Kg	1	15	49
Benzo[b]fluoranthene	ND	ug/Kg	1	14	47
Benzo[g,h,i]perylene	ND	ug/Kg	1	18	59
Benzo[k]fluoranthene	ND	ug/Kg	1	22	74
Chrysene	ND	ug/Kg	1	15	49
Dibenzo[a,h]anthracene	ND	ug/Kg	1	17	57
Fluoranthene	ND	ug/Kg	1	15	47
Fluorene	ND	ug/Kg	1	18	61
Indeno[1,2,3-cd]pyrene	ND	ug/Kg	1	21	69
2-Methylnaphthalene	ND	ug/Kg	1	19	63
1-Methylnaphthalene	ND	ug/Kg	1	18	59
Naphthalene	ND	ug/Kg	1	18	61
Phenanthrene	ND	ug/Kg	1	15	50
Pyrene	ND	ug/Kg	1	39	130
Nitrobenzene-d5 (SURR)	70%				
2-Fluorobiphenyl (SURR)	69%				
Terphenyl-d14 (SURR)	63%				

ANALYTICAL RESULTS: Polynuclear Aromatic Hydrocarbons by EPA 8270C - Soil

Page 2 of 3

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345

Project Description: Richard Goldberg Estate - PECFA SI

Project Title: HUG-9701

Template: 8270PAHS

Sample: 272931 Soil, B7 0-2' *B-47* Collected: 12/26/01 Analyzed: 01/08/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Acenaphthene	ND	ug/Kg	1	15	50
Acenaphthylene	ND	ug/Kg	1	16	55
Anthracene	ND	ug/Kg	1	14	64
Benzo[a]anthracene	ND	ug/Kg	1	18	57
Benzo[a]pyrene	ND	ug/Kg	1	15	49
Benzo[b]fluoranthene	ND	ug/Kg	1	14	47
Benzo[g,h,i]perylene	ND	ug/Kg	1	18	59
Benzo[k]fluoranthene	ND	ug/Kg	1	22	74
Chrysene	ND	ug/Kg	1	15	49
Dibenzo[a,h]anthracene	ND	ug/Kg	1	17	57
Fluoranthene	[24]	ug/Kg	1	15	47
Fluorene	ND	ug/Kg	1	18	61
Indeno[1,2,3-cd]pyrene	ND	ug/Kg	1	21	69
2-Methylnaphthalene	ND	ug/Kg	1	19	63
1-Methylnaphthalene	ND	ug/Kg	1	18	59
Naphthalene	ND	ug/Kg	1	18	61
Phenanthrene	ND	ug/Kg	1	15	50
Pyrene	ND	ug/Kg	1	39	130
Nitrobenzene-d5 (SURR)	66%				
2-Fluorobiphenyl (SURR)	67%				
Terphenyl-d14 (SURR)	59%				

Sample: 272932 Soil, B7 2-4' *B-47* Collected: 12/26/01 Analyzed: 01/08/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Acenaphthene	ND	ug/Kg	2	30	100
Acenaphthylene	ND	ug/Kg	2	33	110
Anthracene	ND	ug/Kg	2	28	130
Benzo[a]anthracene	ND	ug/Kg	2	36	110
Benzo[a]pyrene	ND	ug/Kg	2	29	98
Benzo[b]fluoranthene	ND	ug/Kg	2	28	93
Benzo[g,h,i]perylene	ND	ug/Kg	2	36	120
Benzo[k]fluoranthene	ND	ug/Kg	2	44	150
Chrysene	ND	ug/Kg	2	30	99
Dibenzo[a,h]anthracene	ND	ug/Kg	2	34	110
Fluoranthene	ND	ug/Kg	2	30	94
Fluorene	ND	ug/Kg	2	36	120
Indeno[1,2,3-cd]pyrene	ND	ug/Kg	2	41	140
2-Methylnaphthalene	ND	ug/Kg	2	38	130
1-Methylnaphthalene	ND	ug/Kg	2	35	120
Naphthalene	ND	ug/Kg	2	36	120
Phenanthrene	ND	ug/Kg	2	30	100
Pyrene	ND	ug/Kg	2	78	260
Nitrobenzene-d5 (SURR)	74%				
2-Fluorobiphenyl (SURR)	76%				
Terphenyl-d14 (SURR)	69%				

Unidentified hydrocarbons present.

ANALYTICAL RESULTS: Polynuclear Aromatic Hydrocarbons by EPA 8270C - Soil

Page 3 of 3

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345

Project Description: Richard Goldberg Estate - PECFA SI

Project Title: HUG-9701

Template: 8270PAHS

Sample: 272933 Soil, B6 10-12'

B-46

Collected: 12/26/01

Analyzed: 01/08/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Acenaphthene	ND	ug/Kg	1	15	50
Acenaphthylene	ND	ug/Kg	1	16	55
Anthracene	ND	ug/Kg	1	14	64
Benzo[a]anthracene	ND	ug/Kg	1	18	57
Benzo[a]pyrene	ND	ug/Kg	1	15	49
Benzo[b]fluoranthene	ND	ug/Kg	1	14	47
Benzo[g,h,i]perylene	ND	ug/Kg	1	18	59
Benzo[k]fluoranthene	ND	ug/Kg	1	22	74
Chrysene	ND	ug/Kg	1	15	49
Dibenzo[a,h]anthracene	ND	ug/Kg	1	17	57
Fluoranthene	ND	ug/Kg	1	15	47
Fluorene	ND	ug/Kg	1	18	61
Indeno[1,2,3-cd]pyrene	ND	ug/Kg	1	21	69
2-Methylnaphthalene	ND	ug/Kg	1	19	63
1-Methylnaphthalene	ND	ug/Kg	1	18	59
Naphthalene	ND	ug/Kg	1	18	61
Phenanthrene	ND	ug/Kg	1	15	50
Pyrene	ND	ug/Kg	1	39	130
Nitrobenzene-d5 (SURR)	64%				
2-Fluorobiphenyl (SURR)	59%				
Terphenyl-d14 (SURR)	64%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 1 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345

Project Description: Richard Goldberg Estate - PECFA SI

Project Title: HUG-9701

Template: SATS8021

Sample: 272919 Soil, B1 4-6' B-41 Collected: 12/26/01 Analyzed: 01/04/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	69
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	ND	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 2 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345

Project Description: Richard Goldberg Estate - PECFA SI

Project Title: HUG-9701

Template: SATS8021

Sample: 272919 Soil, B1 4-6' *B-41* Collected: 12/26/01 Analyzed: 01/04/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR)	97%				
Toluene-d8 (SURR)	94%				
1-Bromo-4-Fluorobenzene (SURR)	108%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 3 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345

Project Description: Richard Goldberg Estate - PECFA SI

Project Title: HUG-9701

Template: SATS8021

Sample: 272920 Soil, B1 10-12' B-41 Collected: 12/26/01 Analyzed: 01/04/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	69
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	ND	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 4 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345
Project Description: Richard Goldberg Estate - PECFA SI
Project Title: HUG-9701 Template: SATS8021

Sample: 272920 Soil, B1 10-12' *B-41* Collected: 12/26/01 Analyzed: 01/04/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR)	95%				
Toluene-d8 (SURR)	112%				
1-Bromo-4-Fluorobenzene (SURR)	105%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 5 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345

Project Description: Richard Goldberg Estate - PECFA SI

Project Title: HUG-9701

Template: SATS8021

Sample: 272921 Soil, B2 6-8' β -42 Collected: 12/26/01 Analyzed: 01/04/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	69
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	ND	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 6 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345

Project Description: Richard Goldberg Estate - PECFA SI

Project Title: HUG-9701

Template: SATS8021

Sample: 272921 Soil, B2 6-8' *B-42* Collected: 12/26/01 Analyzed: 01/04/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR)	90%				
Toluene-d8 (SURR)	108%				
1-Bromo-4-Fluorobenzene (SURR)	113%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 7 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345
 Project Description: Richard Goldberg Estate - PECFA SI
 Project Title: HUG-9701 Template: SATS8021

Sample: 272922 Soil, B2 10-12' *B-42* Collected: 12/26/01 Analyzed: 01/04/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	69
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	ND	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345
 Project Description: Richard Goldberg Estate - PECFA SI
 Project Title: HUG-9701 Template: SATS8021

Sample: 272922 Soil, B2 10-12' *B-42* Collected: 12/26/01 Analyzed: 01/04/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR)	98%				
Toluene-d8 (SURR)	105%				
1-Bromo-4-Fluorobenzene (SURR)	115%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 9 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345
 Project Description: Richard Goldberg Estate - PECFA SI
 Project Title: HUG-9701 Template: SATS8021

Sample: 272923 Soil, B3 6-8' β -43 Collected: 12/26/01 Analyzed: 01/04/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	69
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	[26]	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 10 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345
Project Description: Richard Goldberg Estate - PECFA SI
Project Title: HUG-9701 Template: SATS8021

Sample: 272923 Soil, B3 6-8' *B-43* Collected: 12/26/01 Analyzed: 01/04/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR)	95%				
Toluene-d8 (SURR)	102%				
1-Bromo-4-Fluorobenzene (SURR)	91%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 11 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345
 Project Description: Richard Goldberg Estate - PECFA SI
 Project Title: HUG-9701 Template: SATS8021

Sample: 272924 Soil, B3 10-12' *B-43* Collected: 12/26/01 Analyzed: 01/07/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	140	ug/kg	1	22	72
sec-Butylbenzene	[64]	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	69
1,2-Dichlorobenzene	[26]	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	[18]	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	ND	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Customer: Alpha Terra Science Inc (Plymouth) **NLS Project:** 64345
Project Description: Richard Goldberg Estate - PECFA SI
Project Title: HUG-9701 **Template:** SATS8021

Sample: 272924 **Soil, B3 10-12'** *B-43* **Collected:** 12/26/01 **Analyzed:** 01/07/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR)	96%				
Toluene-d8 (SURR)	104%				
1-Bromo-4-Fluorobenzene (SURR)	107%				

Check standard recovery was outside QC limits for N-Propylbenzene at 121%.

Unidentified hydrocarbons present.

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 13 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345
 Project Description: Richard Goldberg Estate - PECFA SI
 Project Title: HUG-9701 Template: SATS8021

Sample: 272925 Soil, B4 4-6' *B-44* Collected: 12/26/01 Analyzed: 01/07/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	69
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	330	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 14 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345
 Project Description: Richard Goldberg Estate - PECFA SI
 Project Title: HUG-9701 Template: SATS8021

Sample: 272925 Soil, B4 4-6' *B-44* Collected: 12/26/01 Analyzed: 01/07/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR)	91%				
Toluene-d8 (SURR)	92%				
1-Bromo-4-Fluorobenzene (SURR)	97%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 15 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345
 Project Description: Richard Goldberg Estate - PECFA SI
 Project Title: HUG-9701 Template: SATS8021

Sample: 272926 Soil, B4 10-12' *B-44* Collected: 12/26/01 Analyzed: 01/07/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	69
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	2500	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 16 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345

Project Description: Richard Goldberg Estate - PECFA SI

Project Title: HUG-9701

Template: SATS8021

Sample: 272926 Soil, B4 10-12' *B-44* Collected: 12/26/01 Analyzed: 01/07/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	[38]	ug/kg	1	23	78
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR)	98%				
Toluene-d8 (SURR)	106%				
1-Bromo-4-Fluorobenzene (SURR)	106%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 17 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345

Project Description: Richard Goldberg Estate - PECFA SI

Project Title: HUG-9701

Template: SATS8021

Sample: 272927 Soil, B5 6-8' *B-45* Collected: 12/26/01 Analyzed: 01/07/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	69
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	180	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 18 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345

Project Description: Richard Goldberg Estate - PECFA SI

Project Title: HUG-9701

Template: SATS8021

Sample: 272927 Soil, B5 6-8' *B-45* Collected: 12/26/01 Analyzed: 01/07/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR)	85%				
Toluene-d8 (SURR)	98%				
1-Bromo-4-Fluorobenzene (SURR)	105%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 19 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345
 Project Description: Richard Goldberg Estate - PECFA SI
 Project Title: HUG-9701 Template: SATS8021

Sample: 272928 Soil, B5 10-12' **B-45** Collected: 12/26/01 Analyzed: 01/07/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	69
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	[23]	ug/kg	1	15	53
1,1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	3800	ug/kg	2.5	55	190
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 20 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345
 Project Description: Richard Goldberg Estate - PECFA SI
 Project Title: HUG-9701 Template: SATS8021

Sample: 272928 Soil, B5 10-12' **B-45** Collected: 12/26/01 Analyzed: 01/07/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	1500	ug/kg	1	23	78
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR)	95%				
Toluene-d8 (SURR)	95%				
1-Bromo-4-Fluorobenzene (SURR)	100%				

Matrix spike and matrix spike duplicate percent difference exceeded control limits for Tetrachloroethene.

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 21 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345

Project Description: Richard Goldberg Estate - PECFA SI

Project Title: HUG-9701

Template: SATS8021

Sample: 272930 Soil, B8 2-4'

B-48

Collected: 12/26/01

Analyzed: 01/08/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	10	150	500
Bromobenzene	ND	ug/kg	10	170	540
Bromochloromethane	ND	ug/kg	10	220	730
Bromodichloromethane	ND	ug/kg	10	150	520
Bromoform	ND	ug/kg	10	190	680
Bromomethane	ND	ug/kg	10	2000	2000
n-Butylbenzene	ND	ug/kg	10	220	720
sec-Butylbenzene	ND	ug/kg	10	210	680
tert-Butylbenzene	ND	ug/kg	10	120	390
Carbon Tetrachloride	ND	ug/kg	10	210	720
Chlorobenzene	ND	ug/kg	10	110	350
Chloroethane	ND	ug/kg	10	2000	2000
Chloroform	ND	ug/kg	10	200	680
Chloromethane	ND	ug/kg	10	140	480
2-Chlorotoluene	ND	ug/kg	10	110	370
4-Chlorotoluene	ND	ug/kg	10	230	780
Dibromochloromethane	ND	ug/kg	10	180	640
1,2-Dibromo-3-Chloropropane	ND	ug/kg	10	240	790
1,2-Dibromoethane	ND	ug/kg	10	190	650
Dibromomethane	ND	ug/kg	10	210	690
1,2-Dichlorobenzene	ND	ug/kg	10	190	630
1,3-Dichlorobenzene	ND	ug/kg	10	140	500
1,4-Dichlorobenzene	ND	ug/kg	10	170	580
Dichlorodifluoromethane	ND	ug/kg	10	140	480
1,1-Dichloroethane	ND	ug/kg	10	190	620
1,2-Dichloroethane	ND	ug/kg	10	210	660
1,1-Dichloroethene	ND	ug/kg	10	210	710
cis-1,2-Dichloroethene	ND	ug/kg	10	160	530
trans-1,2-Dichloroethene	ND	ug/kg	10	240	800
1,2-Dichloropropane	ND	ug/kg	10	120	400
1,3-Dichloropropane	ND	ug/kg	10	150	500
2,2-Dichloropropane	ND	ug/kg	10	190	620
1,1-Dichloropropene	ND	ug/kg	10	140	490
cis-1,3-Dichloropropene	ND	ug/kg	10	150	510
trans-1,3-Dichloropropene	ND	ug/kg	10	150	510
Ethylbenzene	ND	ug/kg	10	200	680
Hexachlorobutadiene	ND	ug/kg	10	230	760
Isopropylbenzene	ND	ug/kg	10	200	700
p-Isopropyltoluene	ND	ug/kg	10	210	710
Methylene chloride	ND	ug/kg	10	140	460
Naphthalene	ND	ug/kg	10	250	790
n-Propylbenzene	ND	ug/kg	10	150	550
ortho-Xylene	ND	ug/kg	10	230	800
Styrene	ND	ug/kg	10	190	660
1,1,1,2-Tetrachloroethane	ND	ug/kg	10	150	530
1,1,2,2-Tetrachloroethane	ND	ug/kg	10	110	350
Tetrachloroethene	ND	ug/kg	10	220	770
Toluene	ND	ug/kg	10	210	710
1,2,3-Trichlorobenzene	ND	ug/kg	10	200	700
1,2,4-Trichlorobenzene	ND	ug/kg	10	230	790
1,1,1-Trichloroethane	ND	ug/kg	10	120	380

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 22 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345

Project Description: Richard Goldberg Estate - PECFA SI

Project Title: HUG-9701

Template: SATS8021

Sample: 272930 Soil, B8 2-4' β -48 Collected: 12/26/01 Analyzed: 01/08/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,1,2-Trichloroethane	ND	ug/kg	10	240	800
Trichloroethene	ND	ug/kg	10	230	780
Trichlorofluoromethane	ND	ug/kg	10	160	540
1,2,3-Trichloropropane	ND	ug/kg	10	160	550
1,2,4-Trimethylbenzene	ND	ug/kg	10	200	700
1,3,5-Trimethylbenzene	ND	ug/kg	10	110	390
Vinyl chloride	ND	ug/kg	10	170	550
meta,para-Xylene	ND	ug/kg	10	390	1300
MTBE	ND	ug/kg	10	140	440
Isopropyl Ether	ND	ug/kg	10	160	530
Dibromofluoromethane (SURR)	90%				
Toluene-d8 (SURR)	93%				
1-Bromo-4-Fluorobenzene (SURR)	100%				

Dilution was performed in order to prevent instrument contamination.

Unidentified hydrocarbons present.

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 23 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345

Project Description: Richard Goldberg Estate - PECFA SI

Project Title: HUG-9701

Template: SATS8021

Sample: 272932 Soil, B7 2-4' B-47 Collected: 12/26/01 Analyzed: 01/08/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	10	150	500
Bromobenzene	ND	ug/kg	10	170	540
Bromochloromethane	ND	ug/kg	10	220	730
Bromodichloromethane	ND	ug/kg	10	150	520
Bromoform	ND	ug/kg	10	190	680
Bromomethane	ND	ug/kg	10	2000	2000
n-Butylbenzene	ND	ug/kg	10	220	720
sec-Butylbenzene	ND	ug/kg	10	210	680
tert-Butylbenzene	ND	ug/kg	10	120	390
Carbon Tetrachloride	ND	ug/kg	10	210	720
Chlorobenzene	ND	ug/kg	10	110	350
Chloroethane	ND	ug/kg	10	2000	2000
Chloroform	ND	ug/kg	10	200	680
Chloromethane	ND	ug/kg	10	140	480
2-Chlorotoluene	ND	ug/kg	10	110	370
4-Chlorotoluene	ND	ug/kg	10	230	780
Dibromochloromethane	ND	ug/kg	10	180	640
1,2-Dibromo-3-Chloropropane	ND	ug/kg	10	240	790
1,2-Dibromoethane	ND	ug/kg	10	190	650
Dibromomethane	ND	ug/kg	10	210	690
1,2-Dichlorobenzene	ND	ug/kg	10	190	630
1,3-Dichlorobenzene	ND	ug/kg	10	140	500
1,4-Dichlorobenzene	ND	ug/kg	10	170	580
Dichlorodifluoromethane	ND	ug/kg	10	140	480
1,1-Dichloroethane	ND	ug/kg	10	190	620
1,2-Dichloroethane	ND	ug/kg	10	210	660
1,1-Dichloroethene	ND	ug/kg	10	210	710
cis-1,2-Dichloroethene	ND	ug/kg	10	160	530
trans-1,2-Dichloroethene	ND	ug/kg	10	240	800
1,2-Dichloropropane	ND	ug/kg	10	120	400
1,3-Dichloropropane	ND	ug/kg	10	150	500
2,2-Dichloropropane	ND	ug/kg	10	190	620
1,1-Dichloropropene	ND	ug/kg	10	140	490
cis-1,3-Dichloropropene	ND	ug/kg	10	150	510
trans-1,3-Dichloropropene	ND	ug/kg	10	150	510
Ethylbenzene	ND	ug/kg	10	200	680
Hexachlorobutadiene	ND	ug/kg	10	230	760
Isopropylbenzene	ND	ug/kg	10	200	700
p-Isopropyltoluene	ND	ug/kg	10	210	710
Methylene chloride	ND	ug/kg	10	140	460
Naphthalene	ND	ug/kg	10	250	790
n-Propylbenzene	ND	ug/kg	10	150	550
ortho-Xylene	ND	ug/kg	10	230	800
Styrene	ND	ug/kg	10	190	660
1,1,1,2-Tetrachloroethane	ND	ug/kg	10	150	530
1,1,2,2-Tetrachloroethane	ND	ug/kg	10	110	350
Tetrachloroethene	ND	ug/kg	10	220	770
Toluene	ND	ug/kg	10	210	710
1,2,3-Trichlorobenzene	ND	ug/kg	10	200	700
1,2,4-Trichlorobenzene	ND	ug/kg	10	230	790
1,1,1-Trichloroethane	ND	ug/kg	10	120	380

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 24 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345

Project Description: Richard Goldberg Estate - PECFA SI

Project Title: HUG-9701

Template: SATS8021

Sample: 272932 Soil, B7 2-4' B-47 Collected: 12/26/01 Analyzed: 01/08/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,1,2-Trichloroethane	ND	ug/kg	10	240	800
Trichloroethene	ND	ug/kg	10	230	780
Trichlorofluoromethane	ND	ug/kg	10	160	540
1,2,3-Trichloropropane	ND	ug/kg	10	160	550
1,2,4-Trimethylbenzene	ND	ug/kg	10	200	700
1,3,5-Trimethylbenzene	ND	ug/kg	10	110	390
Vinyl chloride	ND	ug/kg	10	170	550
meta,para-Xylene	ND	ug/kg	10	390	1300
MTBE	ND	ug/kg	10	140	440
Isopropyl Ether	ND	ug/kg	10	160	530
Dibromofluoromethane (SURR)	106%				
Toluene-d8 (SURR)	113%				
1-Bromo-4-Fluorobenzene (SURR)	125%				

Dilution was performed in order to prevent instrument contamination.

Unidentified hydrocarbons present.

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Page 1 of 4

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345
 Project Description: Richard Goldberg Estate - PECFA SI
 Project Title: HUG-9701 Template: SAT2W8021

Sample: 272934 B6 Water *B-46* Collected: 12/26/01 Analyzed: 01/01/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	[0.18]	ug/L	1	0.16	0.52
Bromobenzene	ND	ug/L	1	0.20	0.65
Bromochloromethane	ND	ug/L	1	0.22	0.71
Bromodichloromethane	ND	ug/L	1	0.17	0.53
Bromoform	ND	ug/L	1	0.36	1.2
Bromomethane	ND	ug/L	1	0.21	0.67
n-Butylbenzene	ND	ug/L	1	0.14	0.46
sec-Butylbenzene	ND	ug/L	1	0.14	0.45
tert-Butylbenzene	ND	ug/L	1	0.11	0.34
Carbon Tetrachloride	ND	ug/L	1	0.12	0.37
Chlorobenzene	ND	ug/L	1	0.16	0.52
Chloroethane	ND	ug/L	1	0.67	2.1
Chloroform	ND	ug/L	1	0.23	0.73
Chloromethane	2.0	ug/L	1	0.24	0.76
2-Chlorotoluene	ND	ug/L	1	0.14	0.46
4-Chlorotoluene	ND	ug/L	1	0.10	0.33
Dibromochloromethane	ND	ug/L	1	0.20	0.62
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.49	1.7
1,2-Dibromoethane	ND	ug/L	1	0.19	0.59
Dibromomethane	ND	ug/L	1	0.14	0.46
1,2-Dichlorobenzene	ND	ug/L	1	0.17	0.52
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.49
1,4-Dichlorobenzene	ND	ug/L	1	0.13	0.42
Dichlorodifluoromethane	ND	ug/L	1	0.16	0.51
1,1-Dichloroethane	ND	ug/L	1	0.23	0.74
1,2-Dichloroethane	ND	ug/L	1	0.20	0.62
1,1-Dichloroethene	ND	ug/L	1	0.16	0.52
cis-1,2-Dichloroethene	ND	ug/L	1	0.24	0.77
trans-1,2-Dichloroethene	ND	ug/L	1	0.22	0.70
1,2-Dichloropropane	ND	ug/L	1	0.15	0.49
1,3-Dichloropropane	ND	ug/L	1	0.23	0.72
2,2-Dichloropropane	ND	ug/L	1	0.16	0.51
1,1-Dichloropropene	ND	ug/L	1	0.11	0.35
cis-1,3-Dichloropropene	ND	ug/L	1	0.15	0.47
trans-1,3-Dichloropropene	ND	ug/L	1	0.15	0.47
Ethylbenzene	ND	ug/L	1	0.16	0.51
Hexachlorobutadiene	ND	ug/L	1	0.27	0.86
Isopropylbenzene	ND	ug/L	1	0.13	0.41
p-Isopropyltoluene	ND	ug/L	1	0.21	0.73
Methylene chloride	ND	ug/L	1	0.26	0.82
Naphthalene	ND	ug/L	1	0.29	0.93
n-Propylbenzene	ND	ug/L	1	0.14	0.43
ortho-Xylene	ND	ug/L	1	0.13	0.40
Styrene	ND	ug/L	1	0.13	0.40
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.19	0.62
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.38	1.3
Tetrachloroethene	1.1	ug/L	1	0.13	0.40
Toluene	[0.33]	ug/L	1	0.13	0.41
1,2,3-Trichlorobenzene	ND	ug/L	1	0.17	0.53
1,2,4-Trichlorobenzene	ND	ug/L	1	0.15	0.49
1,1,1-Trichloroethane	ND	ug/L	1	0.22	0.69

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Page 2 of 4

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345
Project Description: Richard Goldberg Estate - PECFA SI
Project Title: HUG-9701 Template: SAT2W8021

Sample: 272934 B6 Water *B-46* Collected: 12/26/01 Analyzed: 01/01/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,1,2-Trichloroethane	ND	ug/L	1	0.19	0.61
Trichloroethene	[0.31]	ug/L	1	0.14	0.43
Trichlorofluoromethane	ND	ug/L	1	0.17	0.53
1,2,3-Trichloropropane	ND	ug/L	1	0.31	1.0
1,2,4-Trimethylbenzene	ND	ug/L	1	0.12	0.38
1,3,5-Trimethylbenzene	ND	ug/L	1	0.14	0.44
Vinyl chloride	ND	ug/L	1	0.17	0.56
meta,para-Xylene	ND	ug/L	1	0.21	0.67
MTBE	ND	ug/L	1	0.29	0.91
Isopropyl ether	ND	ug/L	1	0.30	0.94
Dibromofluoromethane (SURR)	95%				
Toluene-d8 (SURR)	96%				
1-Bromo-4-Fluorobenzene (SURR)	98%				

Check standard recovery was outside QC limits for Chloromethane at 64%.

Sample pH >2.0. Method specifies <2.0.

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 25 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345

Project Description: Richard Goldberg Estate - PECFA SI

Project Title: HUG-9701

Template: SATS8021

Sample: 272935 MeOH Blank

Collected: 12/26/01

Analyzed: 01/07/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	69
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	ND	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Methanol - (Saturn 2000)

Page 26 of 26

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345
Project Description: Richard Goldberg Estate - PECFA SI
Project Title: HUG-9701 Template: SATS8021

Sample: 272935 MeOH Blank Collected: 12/26/01 Analyzed: 01/07/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR)	91%				
Toluene-d8 (SURR)	101%				
1-Bromo-4-Fluorobenzene (SURR)	107%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Page 3 of 4

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345
 Project Description: Richard Goldberg Estate - PECFA SI
 Project Title: HUG-9701 Template: SAT2W8021

Sample: 272936 Trip Blank

Collected: 12/26/01

Analyzed: 01/01/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.16	0.52
Bromobenzene	ND	ug/L	1	0.20	0.65
Bromochloromethane	ND	ug/L	1	0.22	0.71
Bromodichloromethane	ND	ug/L	1	0.17	0.53
Bromoform	ND	ug/L	1	0.36	1.2
Bromomethane	ND	ug/L	1	0.21	0.67
n-Butylbenzene	ND	ug/L	1	0.14	0.46
sec-Butylbenzene	ND	ug/L	1	0.14	0.45
tert-Butylbenzene	ND	ug/L	1	0.11	0.34
Carbon Tetrachloride	ND	ug/L	1	0.12	0.37
Chlorobenzene	ND	ug/L	1	0.16	0.52
Chloroethane	ND	ug/L	1	0.67	2.1
Chloroform	ND	ug/L	1	0.23	0.73
Chloromethane	ND	ug/L	1	0.24	0.76
2-Chlorotoluene	ND	ug/L	1	0.14	0.46
4-Chlorotoluene	ND	ug/L	1	0.10	0.33
Dibromochloromethane	ND	ug/L	1	0.20	0.62
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.49	1.7
1,2-Dibromoethane	ND	ug/L	1	0.19	0.59
Dibromomethane	ND	ug/L	1	0.14	0.46
1,2-Dichlorobenzene	ND	ug/L	1	0.17	0.52
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.49
1,4-Dichlorobenzene	ND	ug/L	1	0.13	0.42
Dichlorodifluoromethane	ND	ug/L	1	0.16	0.51
1,1-Dichloroethane	ND	ug/L	1	0.23	0.74
1,2-Dichloroethane	ND	ug/L	1	0.20	0.62
1,1-Dichloroethene	ND	ug/L	1	0.16	0.52
cis-1,2-Dichloroethene	ND	ug/L	1	0.24	0.77
trans-1,2-Dichloroethene	ND	ug/L	1	0.22	0.70
1,2-Dichloropropane	ND	ug/L	1	0.15	0.49
1,3-Dichloropropane	ND	ug/L	1	0.23	0.72
2,2-Dichloropropane	ND	ug/L	1	0.16	0.51
1,1-Dichloropropene	ND	ug/L	1	0.11	0.35
cis-1,3-Dichloropropene	ND	ug/L	1	0.15	0.47
trans-1,3-Dichloropropene	ND	ug/L	1	0.15	0.47
Ethylbenzene	ND	ug/L	1	0.16	0.51
Hexachlorobutadiene	ND	ug/L	1	0.27	0.86
Isopropylbenzene	ND	ug/L	1	0.13	0.41
p-Isopropyltoluene	ND	ug/L	1	0.21	0.73
Methylene chloride	ND	ug/L	1	0.26	0.82
Naphthalene	ND	ug/L	1	0.29	0.93
n-Propylbenzene	ND	ug/L	1	0.14	0.43
ortho-Xylene	ND	ug/L	1	0.13	0.40
Styrene	ND	ug/L	1	0.13	0.40
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.19	0.62
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.38	1.3
Tetrachloroethene	ND	ug/L	1	0.13	0.40
Toluene	ND	ug/L	1	0.13	0.41
1,2,3-Trichlorobenzene	ND	ug/L	1	0.17	0.53
1,2,4-Trichlorobenzene	ND	ug/L	1	0.15	0.49
1,1,1-Trichloroethane	ND	ug/L	1	0.22	0.69

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Page 4 of 4

Customer: Alpha Terra Science Inc (Plymouth) NLS Project: 64345
Project Description: Richard Goldberg Estate - PECFA SI
Project Title: HUG-9701 Template: SAT2W8021

Sample: 272936 Trip Blank

Collected: 12/26/01




Analyzed: 01/01/02

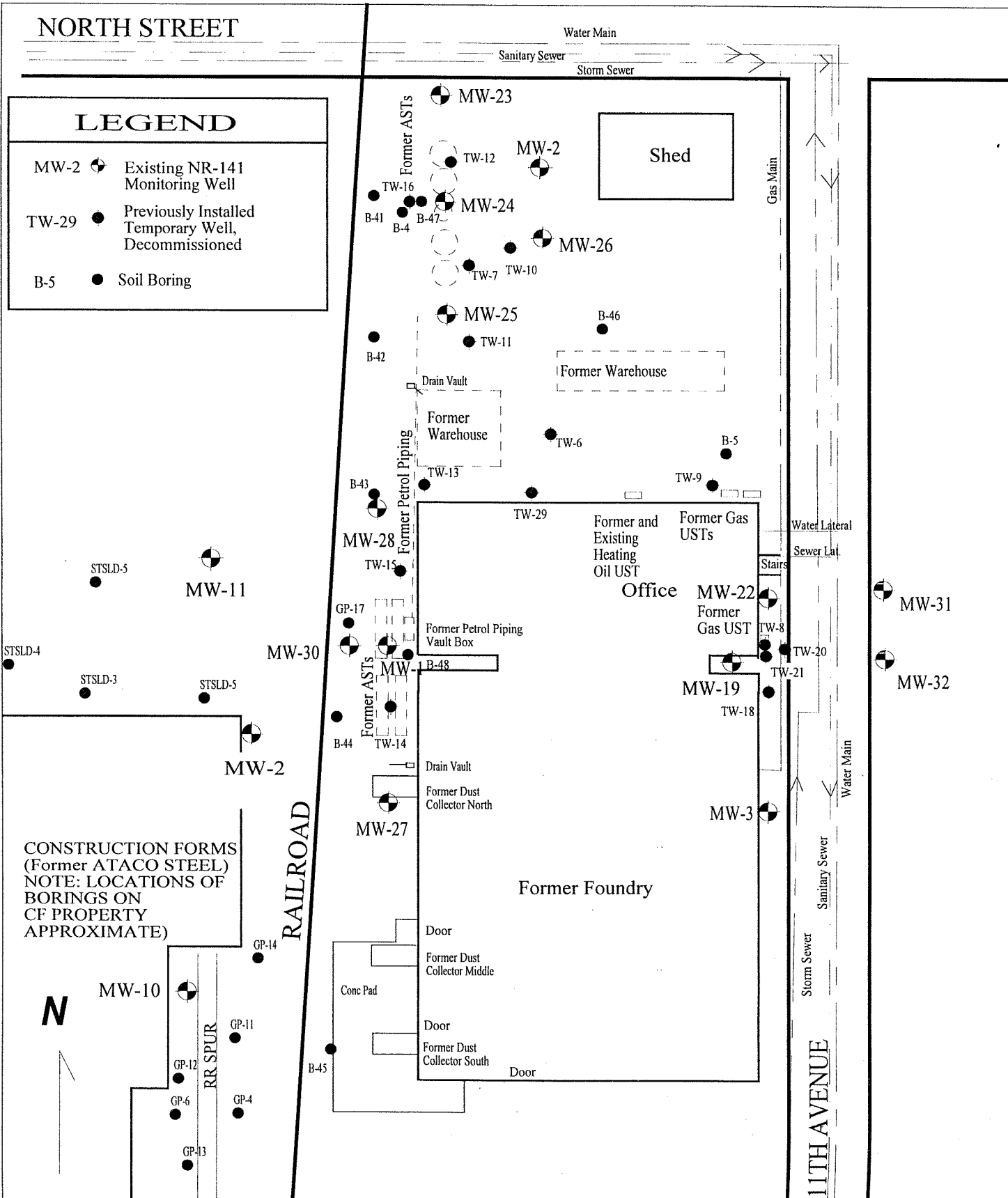
ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,1,2-Trichloroethane	ND	ug/L	1	0.19	0.61
Trichloroethene	ND	ug/L	1	0.14	0.43
Trichlorofluoromethane	ND	ug/L	1	0.17	0.53
1,2,3-Trichloropropane	ND	ug/L	1	0.31	1.0
1,2,4-Trimethylbenzene	ND	ug/L	1	0.12	0.38
1,3,5-Trimethylbenzene	ND	ug/L	1	0.14	0.44
Vinyl chloride	ND	ug/L	1	0.17	0.56
meta,para-Xylene	ND	ug/L	1	0.21	0.67
MTBE	ND	ug/L	1	0.29	0.91
Isopropyl ether	ND	ug/L	1	0.30	0.94
Dibromofluoromethane (SURR)	88%				
Toluene-d8 (SURR)	89%				
1-Bromo-4-Fluorobenzene (SURR)	90%				

Check standard recovery was outside QC limits for Chloromethane at 64%.

NORTH STREET

LEGEND

- MW-2  Existing NR-141 Monitoring Well
- TW-29  Previously Installed Temporary Well, Decommissioned
- B-5  Soil Boring



CONSTRUCTION FORMS
(Former ATACO STEEL)
NOTE: LOCATIONS OF
BORINGS ON
CF PROPERTY
APPROXIMATE)



Title: **Well and Boring Locations**

Project: **Site Investigation**

Client: **Former Plymouth Foundry Property, Grafton, WI**



SCALE: **1" = 60'**

DWG NO: **FIGURE 1**

DRAWN BY: **K A E**

DATE: **Sept 5, 2002**