



Cornell University
Environmental Compliance
and Sustainability Office

Jsw —
edoc —

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February 26, 2009

Jaspal Walia, P.E.
Environmental Engineer
NYSDEC Region 9
Division of Environmental Remediation
270 Michigan Avenue
Buffalo, NY 14203

**Re: Final Remediation Report for the Cornell Vineyard
Research Laboratory (Taschenberg Laboratory)**

RECEIVED

FEB 27 2009

NYSDEC REG 9
FOIL
REL UNREL

Dear Mr. Walia:

The following letter report summarizes the remedial activities which occurred at the Cornell University Vineyard Research Laboratory located at 412 East Main Street in Fredonia, New York. The remedial activities at the site were conducted according to the Revised Work Plan submitted to the NYSDEC on November 13, 2008 and approved on December 3, 2008.

Remedial Work Summary

In accordance with the approved work plan, contractors retained by the University (Abscope Environmental Inc.) mobilized at the site on January 19-21, 2009 and completely removed soils within the area identified as the "restricted area" to a depth of 8 feet below ground surface. The concrete slab within the former building footprint identified within the deed restriction as a former pesticide storage room was also removed and disposed (see attached photographs). All soils and concrete debris (including the slab, shed foundation, and concrete footings) were mechanically excavated and disposed of at Chafee Landfill, Sardinia, NY, NYS Permit No, 9-1462-00001/00006 (waste disposal forms included in Appendix A).

At the completion of excavation activities, grab soil samples were collected from each sidewall and bottom of the excavated pit and sent to Life Science Laboratories for pesticide analysis using EPA analytical method 8081. Soil sample analytical results are attached (see Appendix B).

After the collection of the soil samples, the pit was backfilled using clean gravel soils originating from an offsite location. Excavated soils were staged on plastic sheeting and covered. Soil was loaded and hauled for disposal on January 21.

Closure Soil Sample Analytical Data Results

Upon completion of excavation activities, representative grab soil samples were collected from each sidewall and bottom of the excavated pit. Samples were collected using the excavator bucket and contained soils originating from a depth of approximately 6-8 feet below grade. Samples were submitted to Life Sciences Laboratories in Syracuse, NY for pesticide analysis using EPA analytical method 8081A TCL pesticides. Samples did not reveal the presence of pesticide contamination exceeding commercial soil cleanup objectives. A summary of the detected contaminants appears in the table below:

Summary of detected compounds: Detection levels in ppm						
Analyte	N Sidewall	E Sidewall	W Sidewall	S Sidewall	Bottom	Commercial Soil Cleanup Objective (ppm)
4'4' - DDE	0.40	<0.04	<0.04	<0.04	0.12	62
4'4' - DDT	1.3	0.045	0.13	<0.04	0.59	47

Deed Restriction Alteration Request

As discussed prior to the remedial activities conducted at the property, Cornell University requests that the deed restriction for the subject property be altered to allow commercial/industrial uses to be conducted at the site.

Thank you for your continued assistance with this site. Please contact me with comments regarding this remedial activity report or deed restriction alteration request at your earliest convenience.

Sincerely,
CORNELL UNIVERSITY
OFFICE OF ENVIRONMENTAL COMPLIANCE AND SUSTAINABILITY



Matthew Kozlowski
Project Coordinator

CC: Steve Beyers, CU, ECoS
Eric Harrington, CU, CALS
Stephanie Sechler, CU, Legal

Site Photographs

**Soil Excavation & Disposal
Cornell VRC
January 2009
Site Photographs**



Photo 1: Site prior to start of excavation activities.

Photo 2: Demolition of concrete slab and former foundation wall.



**Soil Excavation & Disposal
Cornell VRC
January 2009
Site Photographs**



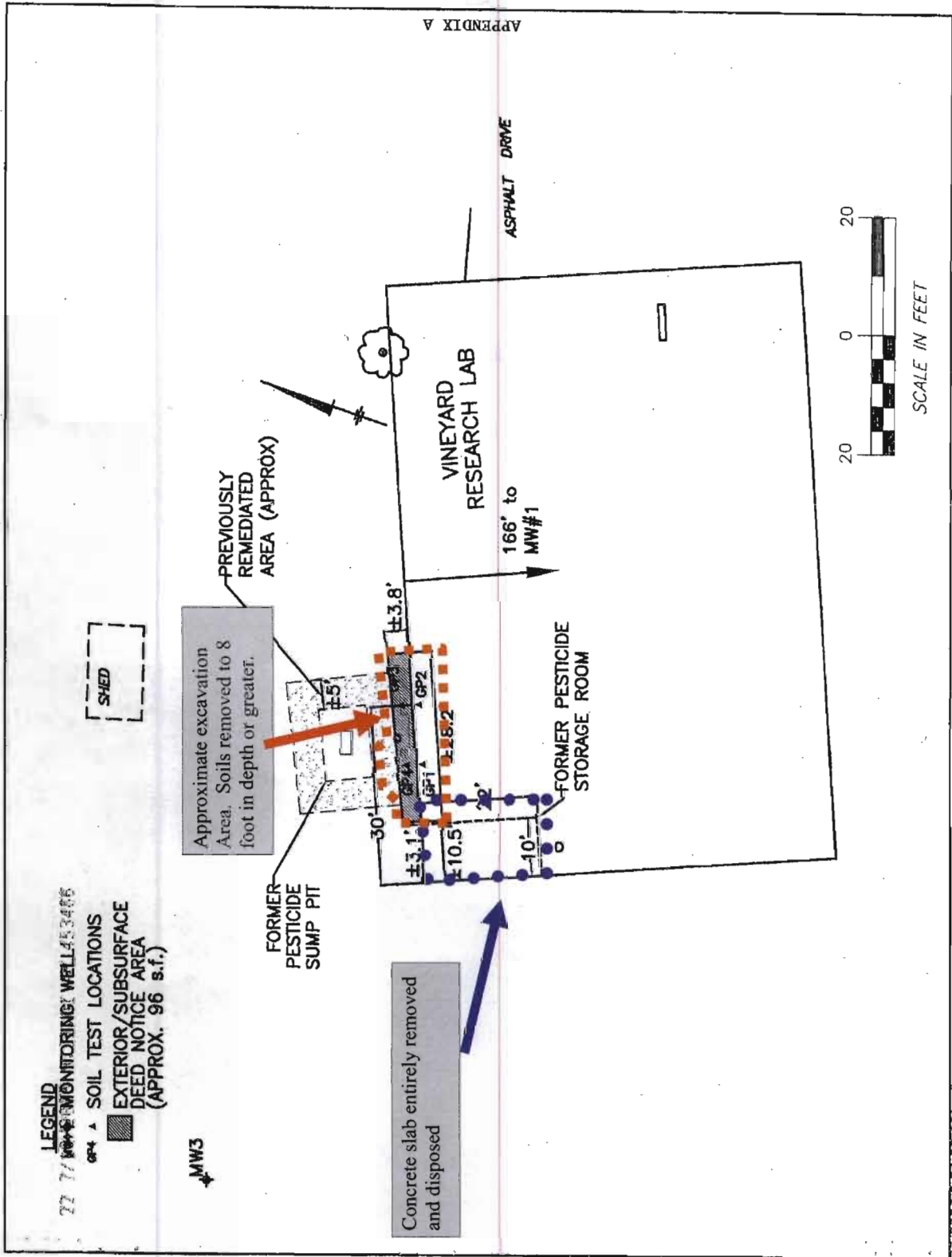
Photo 3: Visually stained soils removed during excavation activities.

**Photo 4:
Final extent of
excavation**



Site Drawings

Soil Excavation & Disposal
 Cornell VRC
 January 2009
 Excavation location



Attachment A
Soil Disposal Documentation



Chaffee LF
 10060 Clean Rd
 Chaffee, NY, 14030
 Ph: (716) 496-5000

Original
 Ticket# 256116

Customer Name: ABSCOPEENVREG-103975NY ASSCOP Carrier: ZOLADZ ZOLADZ CONSTRUCTION
 Ticket Date: 01/21/2009 Vehicle#: 171 Volume
 Payment Type: Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing #: 0001785
 State Waste Code Gen EPA ID
 Manifest: NA
 Destination
 PG
 Profile: 103975NY (NON HAZARDOUS SOIL)
 Generator: 190-CORNELLUNIVERSITY CORNELL UNIVERSITY

	Time	Scale	Operator	Inbound	Gross	
In	01/21/2009 08:43:15	INBOUND	SUSAN		67540 lb	
Out	01/21/2009 09:05:17	OUTBOUND	SUSAN		30060 lb	
					Net	37400 lb
					Tons	18.74

Comments: 412 E. MAIN ST.

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil RCG-Tons	100	18.74	Tons				CHA
2 P3ENV-Environmenta	100		K				CHA
3 FUEL-Fuel Surcharg	100		%				CHA

Total Fees
 Total Ticket

Driver's Signature

683-1500





Shaffer LP
 10800 Olean Rd
 Shaffer, WI, 53089
 Ph: (716) 476-5000

Original
 Ticket# 256122

Customer Name: ABSORPTION/REG-103975NY 48500P Carrier: ZOLA02 ZOLA02 CONSTRUCTION
 Ticket Date: 01/21/2009 Vehicles: 1V1 Volume
 Payment Type: Credit Account Container
 Manual Ticket# Driver
 Hauling Tickets Check#
 Route: PERMITTED FOR 76,375 Billing #: 0001785
 State waste Code Gen EPA ID
 Manifest: NA
 Destination
 PO
 Profile: 103975NY (MCH 102-RODUS SOIL)
 Generator: 100-CORNELLUNIVERSITY CORNELL UNIVERSITY

Time	State	Operator	Tonnage	Scale	Weight
In 01/21/2009 09:43:02	INBOUND	SUSAN			65800 lb
Out 01/21/2009 10:13:03	OUTBOUND	SUSAN			37600 lb
					42200 lb
					21-11

Comments: 412 E. MAIN ST.

Product	Code	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCB-Tons	100	21-11 Tons				CHR
2	R3E-W-Environmentals	100	X				CHR
3	FUE-Fuel Burncharg	100	X				CHR

Total Tons
 Total Ticket

Driver's Signature: *[Handwritten Signature]*

883-1500





Chaffee LF
 10860 Dlean Rd
 Chaffee, NY, 14030
 Ph: (716) 496-5000

Original
 Ticket# 256124

Customer Name ABSCOPEENVREG-103975NY ABSCOP Carrier ZOLADZ ZOLADZ CONSTRUCTION
 Ticket Date 01/21/2009 Vehicle# 83 Volume
 Payment Type Credit Account# Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route PERMITTED FOR 74,375 Billing # 0001785
 State Waste Code Gen EPA ID
 Manifest NA
 Destination
 PO
 Profile 103975NY (NON HAZARDOUS SOIL)
 Generator 190-CORNELLUNIVERSITY CORNELL UNIVERSITY

	Time	Scale	Operator	Inbound	Gross	76260 lb
In	01/21/2009 09:48:43	INBOUND	SUSAN		Tare	29100 lb
Out	01/21/2009 10:15:38	OUTBOUND	SUSAN		Net	47160 lb
					Tons	23.58

Comments 412 E. MAIN ST.

Product	LD%	Qty	UDM	Rate	Fee	Amount	Origin
1 Cont Soil RCS-Tons	100	23.58	Tons				CNA
2 P3ENV-Environmenta	100		%				CHA
3 FUEL-Fuel Surcharg	100		%				CHA

Total Fees
 Total Ticket

Driver's Signature

583-1500





Chaffee LF
 10860 Clean Rd
 Chaffee, NY, 14030
 Ph: (716) 496-5000

Original
 Ticket# 255126

Customer Name ABSCOPEENVREG-103975NY ABSOP Carrier ZOLADZ ZOLADZ CONSTRUCTION
 Ticket Date 01/21/2009 Vehicle# 147 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0001785
 State Waste Code Gen EPA ID
 Manifest NA
 Destination
 PD
 Profile 103975NY (NON HAZARDOUS SOIL)
 Generator 190-CORNELLUNIVERSITY CORNELL UNIVERSITY

	Time	Scale	Operator	Inbound	Gross	74960 lb
In	01/21/2009 10:05:13	INBOUND	SUSAN		Tare	26240 lb
Out	01/21/2009 10:19:33	OUTBOUND	SUSAN		Net	46720 lb
					Tons	23.36

Comments 412 E. MAIN ST.

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil RC9-Tons	100	23.36	Tons				CHA
2 P3ENV-Environmenta	100		%				CHA
3 FUEL-Fuel Burcharg	100		%				CHA

Total Fees
 Total Ticket

Driver's Signature

683-1500





Chaffee LF
 19860 Dican Rd
 Chaffee, NY, 14024
 Ph: (716) 496-5000

Original
 Ticket# 236127

Customer Name: ABS00PENVRES-103973NY ABS00P
 Ticket Date: 01/21/2009
 Payment Type: Credit Account
 Manual Ticket#
 Hauling Ticket#
 Route: PERMITTED FOR 74,063
 State Waste Code
 Manifest: NS
 Destination: PO
 Profile: 103973NY (NON HAZARDOUS SOIL)
 Generator: 190-CORNELL UNIVERSITY CORNELL UNIVERSITY

Driver: ZOLADZ
 Vehicle#: 148
 Container:
 Driver:
 Check#
 Billing #: 0001785
 Gen EPA ID

Time	Scale	Operator	Inbound	Gross	
In: 01/21/2009 10:09:36	INBOUND	SUSAN		66920 lb	
Out: 01/21/2009 10:35:30	OUTBOUND	SUSAN		Tare 28460 lb	
				Net 38460 lb	
				Tons 19.23	

Comments: 412 E. MAIN ST.

Product	Lin	Qty	UOM	Rate	Fee	Amount	Origin
Cont Soil RC6-Tons	100	19.23	Tons				CHA
P3ENV-Environmenta	100		%				CHA
FUEL-Fuel Surcharg	100		%				CHA
TPT-TRANSPORTATION	100	19.23	Tons				

Total Fees
 Total Ticket

Driver's Signature

mark

533-1500





Chaffee LF
 12850 Dison Rd
 Chaffee, NY, 14030
 Ph: (716) 496-5000

Original
 Ticket# 256144

Customer Name ABSCOPEENVREB-103975NY ABS COP Carrier ZOLADZ ZOLADZ CONSTRUCTION
 Ticket Date 01/21/2009 Vehicle# 171 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0001785
 State Waste Code Gen EPA ID
 Manifest NA
 Destination
 PG
 Profile 103975NY (NON HAZARDOUS SOIL)
 Generator 190-CORNELLUNIVERSITY CORNELL UNIVERSITY

In	Time	Scale	Operator	Inbound	Gross	73900 lb
In	01/21/2009 11:51:25	INBOUND	SUSAN		Tare	29560 lb
Out	01/21/2009 12:23:32	OUTBOUND	Jaye		Net	44340 lb
					Tons	22.17

Comments 412 e main st

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCB-Tons	100	22.17	Tons			CHA
2	P3ENV-T-Environment	100	%				CHA
3	FUEL-T-Fuel Surcha	100	%				CHA
4	TPT-TRANSPORTATION	100	22.17	Tons			

Total Fees
 Total Ticket

Driver's Signature

683-1500





Chaffee LF
 10860 Blean Rd
 Chaffee, NY, 14030
 Ph: (716) 496-5000

Original
 Ticket# 256151

Customer Name ABSCOPEENVREG-103975NY ABSCOP Carrier ZOLADZ ZOLADZ CONSTRUCTION
 Ticket Date 01/21/2009 Vehicle# 101 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route PERMITTED FOR 74,375 Billing # 0001705
 State Waste Code Gen EPA ID
 Manifest NA
 Destination
 PO
 Profile 103975NY (NON HAZARDOUS SOIL)
 Generator 190-CORNELLUNIVERSITY CORNELL UNIVERSITY

Time	Scale	Operator	Inbound	Gross	73720 lb
In 01/21/2009 12:54:44	INBOUND	SUSAN		Tare	27720 lb
Out 01/21/2009 13:23:22	OUTBOUND	SUSAN		Net	45000 lb
				Tons	23.00

Comments 412 E. MAIN ST.

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil RC6-Tons	100	23.00	Tons				CHA
2 P3ENV-T-Environmen	100		%				CHA
3 FUEL-T-Fuel Surcha	100		%				CHA
4 TPT-TRANSPORTATION	100	23.00	Tons				

Total Fees
 Total Ticket

Driver's Signature *Dawn F Reiter*

683-1500





Chaffee LF
 10860 Olean Rd
 Chaffee, NY, 14030
 Ph: (716) 496-5000

Original
 Ticket# 256153

Customer Name ABSCOPEENVREG-102975NY ABSOP Carrier ZOLADZ ZOLADZ CONSTRUCTION
 Ticket Date 01/21/2009 Vehicle# 171 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 3001725
 State Waste Code Gen EPA ID
 Manifest
 Destination
 PD
 Profile ()
 Generator

	Time	Scale	Operator	Inbound	Gross	
In	01/21/2009 13:09:30	INBOUND	SUSAN		67540 lb*	
Out	01/21/2009 13:09:30		SUSAN		30060 lb*	
			* Manual Weight		Net	37480 lb
					Tons	

Comments 412 E. MAIN ST./DISPOSAL. TICKET 256116.

Product	LC#	Qty	UOM	Rate	Fee	Amount	Origin
1	TPT-TRANSPORTATION 100	18.74	Tons				CHA

Total Fees
 Total Ticket

Driver's Signature _____

NA





Chaffee LF
 10860 Dlean Rd
 Chaffee, NY, 14030
 Ph: (716) 436-5000

Original
 Ticket# 256136

Customer Name ABSCOPEENVREG-103975NY ABSCOP Carrier ZOLADZ ZOLADZ CONSTRUCTION
 Ticket Date 01/21/2009 Vehicle# 83 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route PERMITTED FOR 74,375 Billing # 0001785
 State Waste Code Gen EPA ID
 Manifest
 Destination
 PO
 Profile ()
 Generator

	Time	Scale	Operator	Inbound	Gross	75260 lb*
In	01/21/2009 13:10:37	INBOUND	SUSAN		Tare	29100 lb*
Out	01/21/2009 13:10:37		SUSAN		Net	47160 lb
					Tons	

* Manual Weight

Comments 412 E.MAIN ST./DISPOSAL TICKET 256124

Product	LD%	Qty	UDM	Rate	Fee	Amount	Origin
1 TPT-TRANSPORTATION	100	23.58	Tons				CHA

Total Fees
 Total Ticket

Driver's Signature _____





Chaffee LF
 10860 Clean Rd
 Chaffee, NY, 14830
 Ph: (716) 496-5000

Original
 Ticket# 256160

Customer Name ABSCOPEENVREG-103975NY ABSCOP Carrier ZOLADZ ZOLADZ CONSTRUCTION
 Ticket Date 01/21/2009 Vehicle# 147 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0001785
 State Waste Code Gen EPA ID
 Manifest
 Destination
 PD
 Profile ()
 Generator

Time	Scale	Operator	Inbound	Gross	74960 lb*
In 01/21/2009 13:14:00	INBOUND	SUSAN		Tare	28240 lb*
Out 01/21/2009 13:14:00		SUSAN		Net	46720 lb

* Manual Weight

Comments 412 E. MAIN ST./DISPOSAL TICKET 256125

Product	LDX	Qty	UDM	Rate	Fee	Amount	Origin
1 TPT-TRANSPORTATION	100	23.36	Tons				CHA

Total Fees
 Total Ticket

Driver's Signature _____

NA





Chaffee LF
 10660 Dlean Rd
 Chaffee, NY, 14030
 Ph: (716) 496-5000

Original
 Ticket# 256163

Customer Name ABSCOPPEENVREG-103975NY ABSCOP Carrier ZOLADZ ZOLADZ CONSTRUCTION
 Ticket Date 01/21/2009 Vehicle# 83 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route PERMITTED FOR 74,375 Billing # 0001785
 State Waste Code Gen EPA ID
 Manifest NA
 Destination
 PD
 Profile 103975NY (NON HAZARDOUS SOIL)
 Generator 190-CORNELLUNIVERSITY CORNELL UNIVERSITY

Time	Scale	Operator	Inbound	Gross	74980 lb
In. 01/21/2009 13:22:49	INBOUND	SUSAN		Tare	26760 lb
Out 01/21/2009 13:55:33	OUTBOUND	SUSAN		Net	48220 lb
				Tons	24.11

Comments 412 E. MAIN ST.

Product	LD%	Qty	UOM	Rate	Fee	Account	Origin
1 Cont Soil RCG-Tons	100	24.11	Tons				CHA
2 P3ENV-T-Environmen	100		%				CHA
3 FUEL-T-Fuel Surchs	100		%				CHA
4 IPT-TRANSPORTATION	100	24.11	Tons				

Total Fees
 Total Ticket

Driver's Signature

883-1500





Chaffee LF
 10860 Clean Rd
 Chaffee, NY, 14030
 Ph: (716) 496-5000

Original
 Ticket# 256164

Customer Name ABSCOPEENVREG-103975NY ABSCO Carrier ZOLADZ ZOLADZ CONSTRUCTION
 Ticket Date 01/21/2009 Vehicle# 101 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route PERMITTED FOR 74,375 Billing # 0001785
 State Waste Code Gen EPA ID
 Manifest *
 Destination *
 PO *
 Profile ()
 Generator

	Time	Scale	Operator	Inbound	Gross	69820 lb*
In	01/21/2009 13:31:31	INBOUND	SUSAN		Tare	27600 lb*
Out	01/21/2009 13:31:31		SUSAN		Net	42220 lb
			* Manual Weight		Tons	

Comments 412 E. MAIN ST./DISPOSAL TICKET# 256122

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	TPT-TRANSPORTATION 100	21.11	Tons				CHA

Total Fees
 Total Ticket

Driver's Signature _____ NA





Chaffee LF
 10060 Clean Rd
 Chaffee, NY, 14030
 Ph: (716) 496-5000

Original
 Ticket# 256174

Customer Name	ABSCOPEENVREG-10397SNY ABSCOP	Carrier	ZOLADZ ZOLADZ	CONSTRUCTION
Ticket Date	01/21/2009	Vehicle#	DUMP TRUCKS	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001785	
State Waste Code		Gen EPA ID		
Manifest				
Destination				
PO				
Profile	()			
Generator				

	Time	Scale	Operator	Inbound	Gross
In	01/21/2009 14:22:43	INBOUND	SUSAN		Tare
Out	01/21/2009 14:22:43		SUSAN		Net
					Tons

Comments 412 E. MAIN ST.
 DIGOUTS FOR TRUCKS-101, 83, 148,

Product	LD%	Qty	UDM	Rate	Fee	Amount	Origin
1 DO-DIGOUT	100	60	Each				CHA

Total Fees
 Total Ticket

Driver's Signature

NR



Attachment B
Soil Sample Analytical Data



Matthew Kozlowski
 Cornell University
 ECOS
 395 Pine Tree Road, Suite 230
 Ithaca, NY 14850

Phone: (607) 255-3024
 FAX: (607) 255-8461

Laboratory Analysis Report

For

Cornell University

Client Project ID:

Fredonia Vineyard Research Lab

LSL Project ID: **0901090**

Receive Date/Time: 01/22/09 10:18

Project Received by: RD

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody document submitted with these samples is considered by LSL to be an appendix of this report and may contain specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

Life Science Laboratories, Inc.

- | | | |
|---|----------------|-------------------------------------|
| (1) LSL Central Lab, East Syracuse, NY | (315) 445-1105 | NYS DOH ELAP #10248 PA DEP #68-2556 |
| (2) LSL North Lab, Waddington, NY | (315) 388-4476 | NYS DOH ELAP #10900 |
| (3) LSL Finger Lakes Lab, Wayland, NY | (585) 728-3320 | NYS DOH ELAP #11667 |
| (4) LSL Southern Tier Lab, Cuba, NY | (585) 968-2640 | NYS DOH ELAP #10760 |
| (5) LSL MidLakes Lab, Canandaigua, NY | (585) 396-0270 | NYS DOH ELAP #11369 |
| (6) LSL Brittonfield Lab, East Syracuse, NY | (315) 437-0200 | NYS DOH ELAP #10155 |

This report was reviewed by:

Debey Kempf, QA Date: 2/9/09
 Life Science Laboratories, Inc.

A copy of this report was sent to:

-- LABORATORY ANALYSIS REPORT --

Cornell University Ithaca, NY

Sample ID: N. Sidewall LSL Sample ID: 0901090-001

Location:

Sampled: 01/20/09 11:15 Sampled By: MK

Sample Matrix: SHW as Recd, Soil

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8081A TCL Pesticides					
Aldrin	<0.2	mg/kg	1/23/09	2/4/09	KIW
alpha-BHC	<0.2	mg/kg	1/23/09	2/4/09	KIW
beta-BHC	<0.2	mg/kg	1/23/09	2/4/09	KIW
delta-BHC	<0.2	mg/kg	1/23/09	2/4/09	KIW
gamma-BHC (Lindane)	<0.2	mg/kg	1/23/09	2/4/09	KIW
alpha-Chlordane	<0.2	mg/kg	1/23/09	2/4/09	KIW
gamma-Chlordane	<0.2	mg/kg	1/23/09	2/4/09	KIW
4,4'-DDD	<0.4	mg/kg	1/23/09	2/4/09	KIW
4,4'-DDE	0.40	mg/kg	1/23/09	2/4/09	KIW
4,4'-DDT	1.3	mg/kg	1/23/09	2/4/09	KIW
Dieldrin	<0.4	mg/kg	1/23/09	2/4/09	KIW
Endosulfan I	<0.2	mg/kg	1/23/09	2/4/09	KIW
Endosulfan II	<0.4	mg/kg	1/23/09	2/4/09	KIW
Endosulfan sulfate	<0.4	mg/kg	1/23/09	2/4/09	KIW
Endrin	<0.4	mg/kg	1/23/09	2/4/09	KIW
Endrin aldehyde	<0.4	mg/kg	1/23/09	2/4/09	KIW
Endrin ketone	<0.4	mg/kg	1/23/09	2/4/09	KIW
Heptachlor	<0.2	mg/kg	1/23/09	2/4/09	KIW
Heptachlor epoxide	<0.2	mg/kg	1/23/09	2/4/09	KIW
Methoxychlor	<2	mg/kg	1/23/09	2/4/09	KIW
Toxaphene	<5	mg/kg	1/23/09	2/4/09	KIW
Surrogate (TCMX)	55	%R	1/23/09	2/4/09	KIW

-- LABORATORY ANALYSIS REPORT --

Cornell University Ithaca, NY

Sample ID: E. Sidewall LSL Sample ID: 0901090-002
Location:
Sampled: 01/20/09 11:20 Sampled By: MK
Sample Matrix: SHW as Recd, Soil

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8081A TCL Pesticides					
Aldrin	<0.02	mg/kg	1/23/09	1/28/09	KIW
alpha-BHC	<0.02	mg/kg	1/23/09	1/28/09	KIW
beta-BHC	<0.02	mg/kg	1/23/09	1/28/09	KIW
delta-BHC	<0.02	mg/kg	1/23/09	1/28/09	KIW
gamma-BHC (Lindane)	<0.02	mg/kg	1/23/09	1/28/09	KIW
alpha-Chlordane	<0.02	mg/kg	1/23/09	1/28/09	KIW
gamma-Chlordane	<0.02	mg/kg	1/23/09	1/28/09	KIW
4,4'-DDD	<0.02	mg/kg	1/23/09	1/28/09	KIW
4,4'-DDE	<0.04	mg/kg	1/23/09	1/28/09	KIW
4,4'-DDT	0.045	mg/kg	1/23/09	1/28/09	KIW
Dieldrin	<0.02	mg/kg	1/23/09	1/28/09	KIW
Endosulfan I	<0.02	mg/kg	1/23/09	1/28/09	KIW
Endosulfan II	<0.04	mg/kg	1/23/09	1/28/09	KIW
Endosulfan sulfate	<0.04	mg/kg	1/23/09	1/28/09	KIW
Endrin	<0.04	mg/kg	1/23/09	1/28/09	KIW
Endrin aldehyde	<0.04	mg/kg	1/23/09	1/28/09	KIW
Endrin ketone	<0.04	mg/kg	1/23/09	1/28/09	KIW
Heptachlor	<0.02	mg/kg	1/23/09	1/28/09	KIW
Heptachlor epoxide	<0.02	mg/kg	1/23/09	1/28/09	KIW
Methoxychlor	<0.2	mg/kg	1/23/09	1/28/09	KIW
Toxaphene	<5	mg/kg	1/23/09	1/28/09	KIW
Surrogate (TCMX)	87	%R	1/23/09	1/28/09	KIW

-- LABORATORY ANALYSIS REPORT --

Cornell University Ithaca, NY

Sample ID: W. Sidewall LSL Sample ID: 0901090-003

Location:

Sampled: 01/20/09 11:25 Sampled By: MK

Sample Matrix: SHW as Recd, Soil

Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 8081A TCL Pesticides					
Aldrin	<0.02	mg/kg	1/23/09	2/5/09	KIW
alpha-BHC	<0.02	mg/kg	1/23/09	2/5/09	KIW
beta-BHC	<0.02	mg/kg	1/23/09	2/5/09	KIW
delta-BHC	<0.02	mg/kg	1/23/09	2/5/09	KIW
gamma-BHC (Lindane)	<0.02	mg/kg	1/23/09	2/5/09	KIW
alpha-Chlordane	<0.02	mg/kg	1/23/09	2/5/09	KIW
gamma-Chlordane	<0.02	mg/kg	1/23/09	2/5/09	KIW
4,4'-DDD	<0.04	mg/kg	1/23/09	2/5/09	KIW
4,4'-DDE	<0.04	mg/kg	1/23/09	2/5/09	KIW
4,4'-DDT	0.13	mg/kg	1/23/09	2/5/09	KIW
Dieldrin	<0.04	mg/kg	1/23/09	2/5/09	KIW
Endosulfan I	<0.02	mg/kg	1/23/09	2/5/09	KIW
Endosulfan II	<0.04	mg/kg	1/23/09	2/5/09	KIW
Endosulfan sulfate	<0.04	mg/kg	1/23/09	2/5/09	KIW
Endrin	<0.04	mg/kg	1/23/09	2/5/09	KIW
Endrin aldehyde	<0.04	mg/kg	1/23/09	2/5/09	KIW
Endrin ketone	<0.04	mg/kg	1/23/09	2/5/09	KIW
Heptachlor	<0.02	mg/kg	1/23/09	2/5/09	KIW
Heptachlor epoxide	<0.02	mg/kg	1/23/09	2/5/09	KIW
Methoxychlor	<0.2	mg/kg	1/23/09	2/5/09	KIW
Toxaphene	<5	mg/kg	1/23/09	1/28/09	KIW
Surrogate (TCMX)	72	%R	1/23/09	2/5/09	KIW

-- LABORATORY ANALYSIS REPORT --

Cornell University Ithaca, NY

Sample ID: S. Sidewall

LSL Sample ID: 0901090-004

Location:

Sampled: 01/20/09 11:23

Sampled By: MK

Sample Matrix: SHW as Recd, Soil

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8081A TCL Pesticides					
Aldrin	<0.02	mg/kg	1/23/09	1/28/09	KIW
alpha-BHC	<0.02	mg/kg	1/23/09	1/28/09	KIW
beta-BHC	<0.02	mg/kg	1/23/09	1/28/09	KIW
delta-BHC	<0.02	mg/kg	1/23/09	1/28/09	KIW
gamma-BHC (Lindane)	<0.02	mg/kg	1/23/09	1/28/09	KIW
alpha-Chlordane	<0.02	mg/kg	1/23/09	1/28/09	KIW
gamma-Chlordane	<0.02	mg/kg	1/23/09	1/28/09	KIW
4,4'-DDD	<0.04	mg/kg	1/23/09	1/28/09	KIW
4,4'-DDE	<0.04	mg/kg	1/23/09	1/28/09	KIW
4,4'-DDT	<0.04	mg/kg	1/23/09	1/28/09	KIW
Dieldrin	<0.04	mg/kg	1/23/09	1/28/09	KIW
Endosulfan I	<0.02	mg/kg	1/23/09	1/28/09	KIW
Endosulfan II	<0.04	mg/kg	1/23/09	1/28/09	KIW
Endosulfan sulfate	<0.04	mg/kg	1/23/09	1/28/09	KIW
Endrin	<0.04	mg/kg	1/23/09	1/28/09	KIW
Endrin aldehyde	<0.04	mg/kg	1/23/09	1/28/09	KIW
Endrin ketone	<0.04	mg/kg	1/23/09	1/28/09	KIW
Heptachlor	<0.02	mg/kg	1/23/09	1/28/09	KIW
Heptachlor epoxide	<0.02	mg/kg	1/23/09	1/28/09	KIW
Methoxychlor	<0.2	mg/kg	1/23/09	1/28/09	KIW
Toxaphene	<5	mg/kg	1/23/09	1/28/09	KIW
Surrogate (TCMX)	76	%R	1/23/09	1/28/09	KIW

-- LABORATORY ANALYSIS REPORT --

Cornell University Ithaca, NY

Sample ID: Bottom LSL Sample ID: 0901090-005

Location:

Sampled: 01/20/09 11:26 Sampled By: MK

Sample Matrix: SHW as Recd, Soil

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8081A TCL Pesticides					
Aldrin	<0.04	mg/kg	1/23/09	2/5/09	KIW
alpha-BHC	<0.04	mg/kg	1/23/09	2/5/09	KIW
beta-BHC	<0.04	mg/kg	1/23/09	2/5/09	KIW
delta-BHC	<0.04	mg/kg	1/23/09	2/5/09	KIW
gamma-BHC (Lindane)	<0.04	mg/kg	1/23/09	2/5/09	KIW
alpha-Chlordane	<0.04	mg/kg	1/23/09	2/5/09	KIW
gamma-Chlordane	<0.04	mg/kg	1/23/09	2/5/09	KIW
4,4'-DDD	<0.08	mg/kg	1/23/09	2/5/09	KIW
4,4'-DDE	0.12	mg/kg	1/23/09	2/5/09	KIW
4,4'-DDT	0.59	mg/kg	1/23/09	2/5/09	KIW
Dieldrin	<0.08	mg/kg	1/23/09	2/5/09	KIW
Endosulfan I	<0.04	mg/kg	1/23/09	2/5/09	KIW
Endosulfan II	<0.08	mg/kg	1/23/09	2/5/09	KIW
Endosulfan sulfate	<0.08	mg/kg	1/23/09	2/5/09	KIW
Endrin	<0.08	mg/kg	1/23/09	2/5/09	KIW
Endrin aldehyde	<0.08	mg/kg	1/23/09	2/5/09	KIW
Endrin ketone	<0.08	mg/kg	1/23/09	2/5/09	KIW
Heptachlor	<0.04	mg/kg	1/23/09	2/5/09	KIW
Heptachlor epoxide	<0.04	mg/kg	1/23/09	2/5/09	KIW
Methoxychlor	<4	mg/kg	1/23/09	2/5/09	KIW
Toxaphene	<5	mg/kg	1/23/09	1/28/09	KIW
Surrogate (TCMX)	73	%R	1/23/09	2/5/09	KIW



SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

<u>Method</u>	<u>Surrogate(s)</u>	<u>Water Limits, %R</u>	<u>SHW Limits, %R</u>
EPA 504	TCMX	80-120	NA
EPA 508	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	NA
EPA 526	1,3-DM-2-NB, TPP	70-130	NA
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 551.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	70-130	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	TCMX, DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	21-110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 625, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	19-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Terphenyl-d14	40-110	40-110
DOH 310-14	Terphenyl-d14	40-110	40-110
DOH 310-15	Terphenyl-d14	40-110	40-110
DOH 310-34	4-BFB	50-150	50-150
DOH 313-4	DCB	NA	30-150
8015M_GRO	4-BFB	50-150	50-150
8015M_DRO	Terphenyl-d14	50-150	50-150

Units Key:	ug/l = microgram per liter
	ug/kg = microgram per kilogram
	mg/l = milligram per liter
	mg/kg = milligram per kilogram
	%R = Percent Recovery

0901090
Invoiced Client



Life Science Laboratories, Inc.

5854 Butternut Drive
East Syracuse, NY 13057

Chain of Custody Record

Phone # (315) 445-1105

Telefax # (315) 445-1301

Contact Person:

LSL Project #:

Client: Cornell University Phone # 607-255-3024
Address: Suite 230 345 Five Tree Rd. Fax # 607-255-8461
Ithaca, NY 14850

Matthew
Kozlowski
environmental
compliance
office

Client's Site I.D.:

Fralon Vineyard Research Lab

Authorization:

Client's Project I.D.:

LSL Sample Number	Client's Sample Identifications	Sample Date	Sample Time	Type		Matrix	Preserv. Added	Containers		Analyses	Free Cl (mg/L)	Pres. Check
				grab	comp.			#	size/type			
001	N. Sidewall	1/20	11:15	X		Soil	none	1	6165	8081 Pesticide		
002	E. Sidewall	1/20	11:20									
003	W. Sidewall	1/20	11:25									
004	S. Sidewall	1/20	11:23									
* 005	Bottom	1/20	11:26									

Notes and Hazard identifications:

Custody Transfers

Date Time

Pesticide contaminated soil
low-level

Sampled By: <u>M. Kozlowski</u>	Received By:		
Relinquished By:	Received By:		
Relinquished By:	Received for Lab By: <u>R. Dushar</u>	01-22-09	10:18 RCVD

* Broken in transit, As requested by Matt Kozlowski sample will be retrieved from broken container and proceed with analysis. RD 1/22/09

Shipment Method:

Samples Received Intact: Y N

Yes on ice