	tment of Enviro Environmental Hazardous Site	Remediation	633046
ADDITIONS/CHANGES T			
SITE NAME: VERONA RESEARCH FAC		DEC I.D. NUMBER	3046
Current Classification		Volunteer Yes Sign (7)	No X
Activity: Add as Activity: Reclass	sify to [	Delist Category	Modify
Approvals:			
1. Regional Hazardous Waste Engineer	Yes	No 2	1910,
2. BEEI of NYSDOH	Yes	No 4	16/31
3. DEE	Yes 🔨	No/	6/31
4 Remediation Action Bureau Director [Class 2]	Yes	мо	/ <sub>A</sub>
5. BHSC - Investigation Section	Yes 🗸	No	$\int_{I} \int_{S^+}$
6. BHSC - O&M Section [Class 4]	Yes 🔨		126/02
7. BPM - Brownfield & Voluntary Cleanup	Section $C_{1}$	typh Da	te 32902
8. Site Control Section	<u>)</u>	Da Da	te 4/4/si
9. Director	J.	11/ Marino Da	te <u>4/8/02</u>
Completion Checklist for Registry Sites		Completed By:	
	_	<u>Initials</u>	Date
OWNER NOTIFICATION LETTER?			<u>5-30-02</u> 6-17-02
ADJACENT PROPERTY OWNER NOTIFICATION LETT	ER?		6-17-02
ENB/LEGAL NOTICE SENT? (For Deletion Only)			
COMMENTS SUMMARIZED/PLACE IN REPOSITORY	[]		
FINAL NOTIFICATION SENT TO OWNER? (For Deletion Only)			



## SITE INVESTIGATION INFORMATION

1. SITE NAME		2. SITE NUMBER	3. TOWN/CITY/VILLAGE 4. COUNTY								
Verona Research Fac	;ility	6-33-046	Verona	Oneida							
5. REGION	6. CLASSIFICATION										
6		CURRENT [P] PRC	POSED [4] MODIFICATION								
7. LOCATION OF SITE (Attach U.S.G.S. Topographic Map showing site location)											
a. Quadrangle: Verona		b. Site Latitude: 43 ° 07 ' 0	00" N Site Longitude: 75 ° 37 ' 00" W								
c. Tax Map Number(s): Section 285, Block 1, Lot 1 d. Site Street Address: Germany Road, Verona, NY 13478											
8. BRIEFLY DESCRIBE THE SITE (Attach site map showing disposal/sampling locations)											
The site was founded in 1952 by the Air Force as a testing annex in association with the former Griffiss Air Force Base. The facility was used for a wide variety of electronic research and development activities during its 48 year existence. As of October 27, 2000 the facility was inactivated, and the Air Force will divest ownership in the near future.											
A Preliminary Site Assessment (PSA) was completed in February 1997. An area of PCB-contaminated soil was identified adjacent to Building 1233, and low level groundwater contamination with chlorinated solvents was identified beneath Buildings 1231 and 1253. Subsequent investigations were unable to identify a significant source area of VOCs.											
a. Area: ~1 acres b. Completed: () Env. Property Assessment (X) PSA () SI () ESI (X) IRM ()RI/FS () Construction () O&M ()Other											
9. HAZARDOUS WASTE DISF	OSED (Include EPA Hazardo	ous Waste Numbers)									
-> PCBs: B007 (NYS Hazardou	is Waste ID #)										
10. ANALYTICAL DATA AVAI	LABLE										
a. ()Air (X)Groundwater ()Surface Water ()Sediment (X)Soil ()Waste ()Leachate ()EPTox ()TCLP b. Contravention of Standards or Guidance Values											
Tetrachloroethene: 70 ppb; 5 ppb class GA standard (Part 703.5) Trichloroethene: 10 ppb; 5 ppb class GA standard (Part 703.5) cis-1,2-dichloroethene: 5 ppb; 5 ppb class GA standard (Part 703.5) 1,1-dichloroethane: 8 ppb; 5 ppb class GA standard (Part 703.5)											
groundwater beneath Bu MW-004, as well as the adjacent to them where t of Inactive Hazardous W	11. CONCLUSION Excavation of PCB-contaminated soils adjacent to Building 1233 was completed in July 1998. Natural attenuation of VOC-contaminated groundwater beneath Buildings 1231 and 1253 is occurring. Continued monitoring of the groundwater in wells MW-1231C, MW-002, and MW-004, as well as the surface water in Brandy Brook is required. Therefore, the site (Buildings 1231 and 1253, and the lands immediately adjacent to them where the aforementioned monitoring wells are located) should be classified as a class 4 site in the New York State Registry of Inactive Hazardous Waste Disposal Sites.										
a. Institutional Controls (IC) Re-	quired? ()Y (X)N b. If yes, i	identify	c. Are these ICs in place and ve	rified? ()Y ()N							
12. SITE IMPACT DATA											
a. Nearest Surface Water: Dista		Direction: on-site	Class: unknown (Brandy Brook)								
b. Groundwater: Depth: 0.5 ft.		Flow Direction: south		er High-Yield Aquifer							
c. Water Supply: Distance: 2.5		Direction: south	Active: (X)Yes ()No								
<ul> <li>d. Nearest Building: Distance: 0</li> <li>e. Documented fish or wildlife n</li> </ul>		Direction: on-site	Use: abandoned								
f. Impact on special status fish		()Y (X)N	h. Exposed hazardous waste?	()Y (X)N							
g. Controlled Site Access?		()Y (X)N ()Y (X)N	i. If proposed Classification is 2, Priority? j. EPA ID# NY4570012506	()1()2()3 HRS							
		(). ().	j. 217(12), 114070012000	Score							
13. SITE OWNER'S NAME		14. ADDRESS		15. TELEPHONE NUMBER							
Mr. Bruce H. Mero, REM Chief; Environmental, Safety, a Rome Research Site	nd Occupational Health Office	Air Force Research Labo 150 Electronic Parkway Rome, NY 13441-4105	pratory	(315) 330-4284							
16. PREPARER David IL. Aã		1/2001	17. APPROVED / / Planen	4/0/02							
Signature	₫~	Date	Signature	4 <i>P</i> /00							
David K. Harrington, P.E., Envir	onmental Engineer 2 FIS BU	SC DEB NYSDEC		Director RHSC							
				DASC							
Name, Title, C	Jiganizauun		Name, Title, Organization								

# DOM STATE OF NEW YORK DEPARTMENT OF HEALTH

Flanigan Square, 547 River Street, Troy, New York 12180-2216

April 10, 2001

Antonia C. Novello, M.D., M.P.H., Dr.P.H. Commissioner Dennis P. Whalen Executive Deputy Commissioner

Mr. Robert Marino NYS Dept. of Environmental Conservation Division of Environmental Remediation 50 Wolf Road, Room 252 Albany, New York 12233

> Re: Site Investigation Information Verona Research Facility Site #633046 (T) Verona, Oneida County

Dear Mr. Marino:

Staff have reviewed the Site Investigation Information package for the Verona Research Facility in the Town of Verona in Oneida County. Based on that review, I understand that source removal activities performed during the course of the Preliminary Site Assessment have been successful and no further action is proposed beyond a monitoring program. A groundwater and surface water monitoring plan is expected shortly. With this information, I concur with the listing of this site on the State Registry of Inactive Hazardous Waste Disposal Sites as a Class 4. The signed decision form is enclosed.

If you have any questions please call Michael Rivara or me at 402-7890.

Sincerely,

Gary Litwin, Director Bureau of Environmental Exposure Investigation

Enclosure

cc: G. A. Carlson, Ph.D.
Mr. M. Rivara/FILE
Ms. H. Hamel
Mr. N. DeRosa, Oneida Co. HD
Mr. D. Sweredoski, Region 6

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## New York State Department of Environmental Conservation

Division of Environmental Quality, Region 6 Dulles State Office Building, 317 Washington Street, Watertown, New York 13601-3787 Phone: (315) 785-2513 • FAX: (315) 785-2422 Website: www.dec.state.ny.us



# <u>MEMORANDUM</u>

TO:DENNIS FARRAR, DER, BHSCFROM:DARRELL SWEREDOSKI, REGION 6SUBJ:VERONA RESEARCH FACILITY, ONEIDA COUNTY

DATE: FEBRUARY 12, 2001

I have reviewed and signed the reclassification form (attached) as you requested. However, I have previously voiced my concern over the need for the site owner to be under consent order for long term O&M. I suggest holding this reclassification until they sign an order.

uece

Darrell M. Sweredoski, P.E. Regional Env. Remediation Engineer Region 6

DMS:kw Attachment

cc: Gerald Rider, DER

FFB Bureau Of Hazardous Site Control DER

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Division of Environmental Remediation

		DIVISION OF	-nwionmen	tai i temeui	ation		
		Inactive Hazard	ious Wast	te Dispos	al Report		April 1, 2002
Site Name:	Verona Resea	rch Facility				Site Code:	633046
Class Code:	<b>4</b> R	legion: 6	County:	Oneida		EPA Id:	NY4570012506
Address:	Germany Roa	d / Verona, NY 13478					
Latitude:	43° 7' 0"	Longitude: 75° 37	" 0"				
Site Type:	Structure		Estim	nated Size:	1 Acres		
Site Owner / (	Operator Informa	ation:					
Current Owne	er(s) Name:	Air Force Research La	boratory				
	• •	150 Electronic Parkwa		e, NY 1344	¥1		
Owner(s)	during disposal:	U. S. Air Force	-				
Operator(s)	during disposal:	U. S. Air Force					
Stated Opera	tor(s) Address:	153 Brooks Road / (	Griffiss AFI	B, NY 1344	41		
Hazardous W	/aste Disposal F	Period: From: 1952	To: unkno	wn			

#### Site Description:

The site was founded in 1952 by the Air Force as a testing annex in association with the former Griffiss Air Force Base. The facility was use for a wide variety of electronic research and development activities during its 48 year existence. As of October 27, 2000 the facility was deactivated, and the Air Force will divest ownership of the property in the near future.

A Preliminary Site Assessment (PSA) was completed in 1997. An area of PCB-contaminated soil was identified adjacent to building 1233, and low level groundwater contamination with chlorinated solvents was identified beneath buildings 1231 and 1253. Subsequent investigations were unable to identify a significant source area of volatile organic compounds (VOCs).

Excavation of PCB-contaminated soils adjacent to building 1233 was completed in July 1998. Natural attenuation of

VOC -contaminated groundwater beneath buildings 1231 and 1253 is occurring. Continued groundwater monitoring as well as surface wate monitoring of Brandy Brook is required.

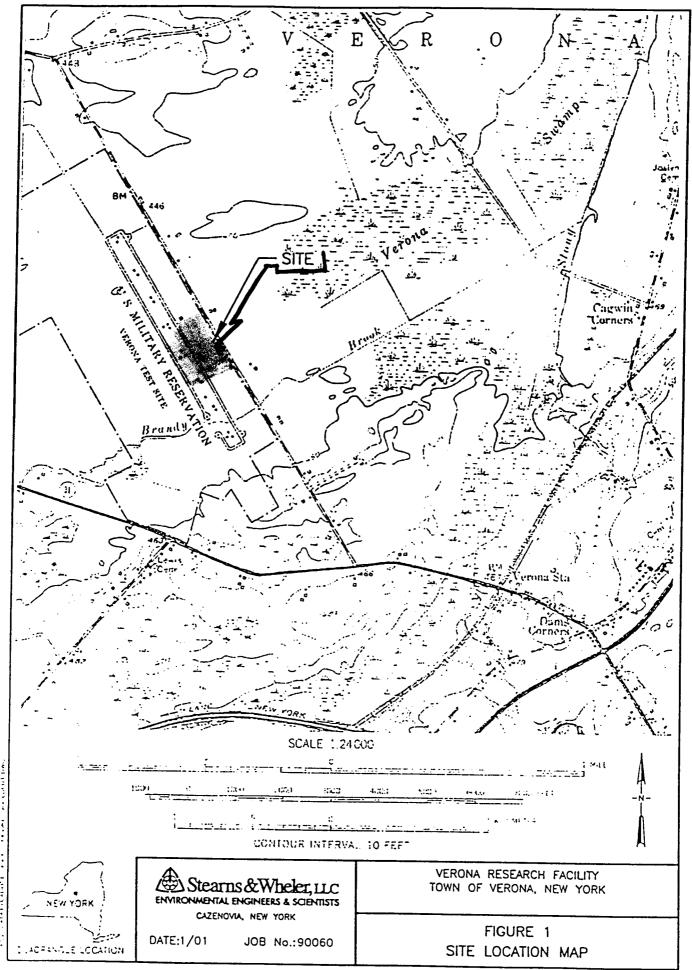
Confirmed Hazardous Waste Disposal:	Quantity:
PCBs (B007 Waste)	unknown

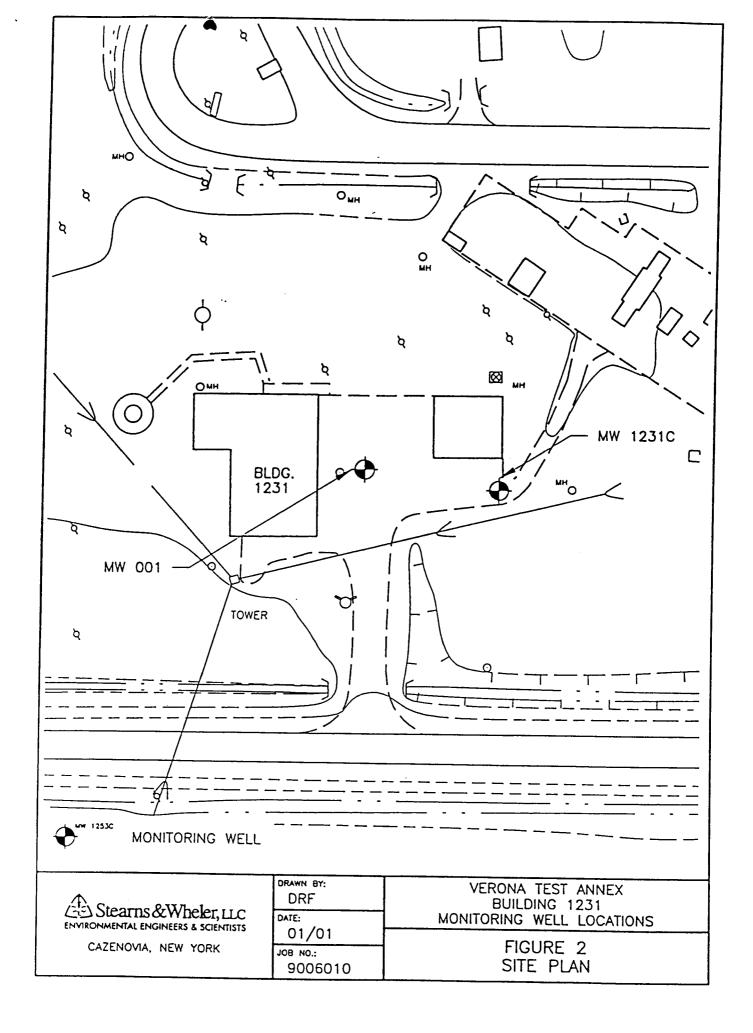
Analytical Data Available for: Applicable Standards Exceeded in:	Groundwater Groundwater	Surface Wate	er Soil		
Geotechnical Information: Soil/Rock Type: Sandy Silt overlyi	ng Glacial Till		Depth to Groundwater:	Range: 0 to 1 Foot	
Legal Action: Type:			Status:		
Remedial Action: Complete	Na	ture of action:	Soil Removal		

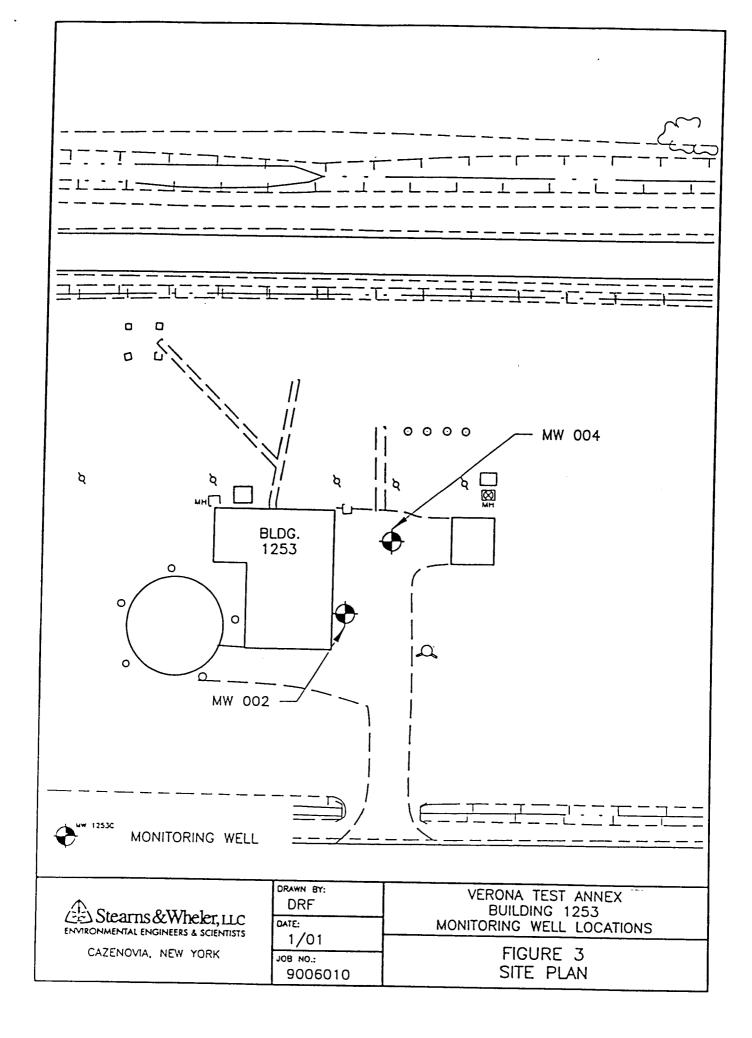
**Assessment of Environmental Problems:** 

Excavation of PCB-contaminated soils has been completed. Natural attenuation of VOC contaminated groundwater is occurring. Monitoring of groundwater and surface water will continue.

**Assessment of Health Problems:** 







New York State Department of Environmental Conservation Division of Environmental Remediation Bu eau of Hazardous Site Control, Room 252 50 Volf Road, Albany, New York 12233-7010 Physics (518) 457-0639 FAX: (518) 457-8989



January 30, 2001

Mr. Bruce H. Mero, REM Chief; Environmental, Safety, and Occupational Health Office Rome Research Site Air Force Research Laboratory 150 Electronic Parkway Rome, NY 13441-4105

#### Re: Groundwater Monitoring Data Verona Research Facility NYSDEC Site ID #6-33-046

Dear Mr. Mero:

I have received and reviewed your January 19, 2001 letter (along with the January 10, 2001 summary report prepared by Stearns & Wheler, LLC) in regard to the above-referenced site.

Based on this review, it appears as though natural attenuation is occurring in the groundwater beneath Buildings 1231 and 1253. However, this process requires continued monitoring by the Department. Therefore, this site will be listed in the New York State Registry of Inactive Hazardous Waste Disposal Sites (Registry) as a class 4 site (the site is properly closed, but requires continued management).

As part of this continued management, an Operations and Maintenance (O & M) plan must be submitted to Mr. Gerald J. Rider, Jr. (Chief, O & M Section) of this office for review and approval prior to implementation of subsequent monitoring activities. Information on the site's history, previous investigations, previous monitoring results, and proposed monitoring activities (i.e. locations to be sampled, frequency of sampling, parameters to be analyzed, etc.) should be included in this plan. I have attached guidance for your use in establishing the long term monitoring plan for natural attenuation. Once this plan is received and approved, the Department will notify you in writing of the site's inclusion in the Registry as a class 4.

Please contact me at the address or telephone number listed above if you have any questions on the site's proposed classification. Questions related to the O & M plan should be referred to Ms. Sue Lasdin at (518) 457-0927, or at the address listed above.

Sincerely,

David K. A

David K. Harrington, P.E. Environmental Engineer 2 Eastern Investigation Section Bureau of Hazardous Site Control

Attachment

- cc: J. Swartwout
  - G. Rider
  - D. Sweredoski, Region 6
  - H. Hamel, DOH Syracuse
  - E. Zuk
  - S. Lasdin



# Report

# Remedial Construction Documentation Report Verona Research Facility Rome Laboratory

August 1998

Round 2 soil samples were collected near Building 1233 in April 1998. Eight shallow (0 to 2-inch composite) and eight deep (0 to 2-foot composite) samples were collected from locations northwest and southwest of the building (Figure 2) and submitted for laboratory analysis of PCBs.<sup>3</sup> Analytical results for the samples indicated PCB concentrations ranging from 18 to 130,000  $\mu$ g/kg, with four of the surface samples exceeding the TAGM-94-4046 objective of 1,000  $\mu$ g/kg for surface soils and one subsurface sample exceeding the objective of 10,000  $\mu$ g/kg for subsurface soils. These analytical results are shown in Table 2. As the table shows, the laboratory results indicated that a majority of the impacted soil was located northwest of Building 1233.

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#### **SECTION 2 - REMEDIATION OBJECTIVES**

As shown in Table 2, the second round of soil sampling indicated that a total of five of the reported PCB concentrations in the collected soil (near Building 1233) exceeded TAGM HR-94-4046 recommended cleanup objectives by one order of magnitude (at 2 inches, SS-11A, SS-11E, SS-11F, and SS-11G; and at 2 feet, SS-11F). Given these exceedences, the decision was made to excavate and dispose of the impacted soil adjacent to Building 1233.

#### **SECTION 3 - REMEDIAL ACTIVITIES**

Contractor procurement was conducted in late May 1998. Following the receipt of bids, the project was awarded to MARCOR Remediation, Inc. of Rochester, NY. Mobilization to the site occurred on July 16, 1998, and the excavation process was completed on the same day. The area was backfilled and restored on July 17, 1998.

#### 3.1 EXCAVATION OF IMPACTED SOIL

Remedial activities began with the excavation of soil southwest of Building 1233 (see Figure 3 and Appendix B, Photographs 1 and 2). The analytical results from the second round of sampling were used to define the initial volume of excavated soil. A Komatsu tracked excavator with a 1.05 cubic yard bucket was used for all excavation work. The soil was immediately deposited into 20 cubic yard dump trucks for transport and disposal (Appendix B, Photograph 3).

<sup>&</sup>lt;sup>3</sup> USEPA Method 8082.

Once the excavation southwest of Building 1233 was complete, three immunoassay samples were collected and analyzed for PCBs to determine if additional soil remained with concentrations exceeding TAGM HR-94-4046 recommended cleanup objectives. Refer to Table 3 for the immunoassay results. Because the immunoassay analysis for the three samples indicated non-detectable concentrations of PCBs (less than 1,000 mg/kg), no additional soil was excavated on the southwest side of the building.

The second excavation occurred on the northwest side of Building 1233 (refer to Figure 3 and Appendix B, Photographs 4 and 5). Again, analytical results from the second round of sampling were used to define the initial volume of soil excavated. Twelve immunoassay samples were collected and analyzed for PCBs after the initial excavation was complete. Analysis of 3 of the 12 samples (TP2B1, TP2B6, TP2SW3) indicated the presence of PCBs above the analysis 1,000 mg/kg detection limit. The excavation was extended in the two locations where these samples were collected (Figure 3).

#### 3.2 CONFIRMATORY SAMPLING

At the conclusion of the excavation process, approximately 20 cubic yards were excavated from the southwest of Building 1233, and approximately 80 cubic yards were excavated from northwest of the building. Once both excavations were complete, eight final confirmatory soil samples (SS-01 to SS-08) were collected and submitted for laboratory analysis of PCBs. Laboratory analysis of the confirmatory samples was performed at Paradigm Laboratories of Rochester, NY (ELAP No. 10958).<sup>4</sup> Refer to Table 4 and Appendix C for the analytical results. Of the eight confirmatory samples, two were collected from the walls and one from the bottom of the excavation southwest of Building 1233. Three samples were collected from the walls and two from the bottom of the excavation northwest of Building 1233 (Figure 3). As Table 4 shows, the recommended cleanup objectives established in TAGM HR-94-4046 were met for all samples.

<sup>&</sup>lt;sup>4</sup> The Environmental Analysis Approval Program (ELAP) is administered by the New York State Department of Health.

#### 3.3 HEALTH AND SAFETY

To ensure that PCB-impacted dust was not a threat to human health during the excavation process, a MIE PDM-3 Miniram dust, aerosol, fume, and mist detector was used to monitor the air while work was in progress. In the project Health and Safety Plan (Appendix D) a threshold of 0.10 milligrams per cubic meter was established as the threshold above which personal protective equipment would be required. The Miniram was used to monitor the air at three times during the excavation process, and at no time was this threshold exceeded.

#### 3.4 BACKFILL AND RESTORATION

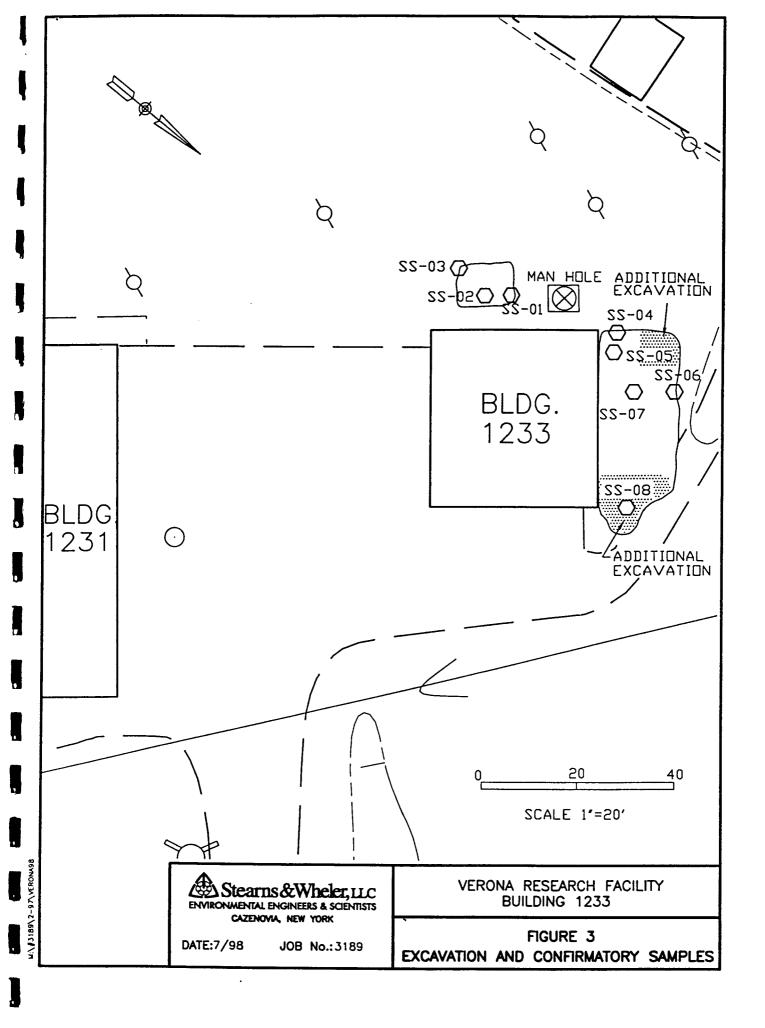
On July 17, 1998, the excavation was backfilled, with fill removed from the northwest corner of the site. The fill was excavated with a 0.4 cubic yard wheeled backhoe and transported to Building 1233 with a 6 cubic yard dump truck. At that point, the fill was spread to grade and compacted using the tracked excavator and then reseeded (Appendix B, Photograph 6).

#### **SECTION 4 - WASTE DISPOSAL**

The second round of soil samples collected in the PSA were used to make the hazardous waste determination for the excavated soil. Because the reported PCB concentration in two of the samples (collected near Building 1233) exceeded 50,000  $\mu$ g/kg (50 ppb), the soil was designated a hazardous waste and assigned a hazardous waste designation of B007.<sup>5</sup> Accordingly, soil excavated from the area adjacent to Building 1233 was handled as a hazardous waste and disposed of as such.

The contaminated soil (149.87 tons) was transported for disposal at Chemical Waste Management (USEPA ID No. NYD049836679) in Model City, NY by Frank's Vacuum Truck Service (USEPA ID No. NYD982792814). Copies of the fully executed manifests are included in Appendix E.

<sup>&</sup>lt;sup>5</sup> Title 6 of New York State Rules and Regulations, Section 371.4(e)(1) stipulates that any material with a PCB concentration in excess of 50 ppm by weight is a hazardous waste.



NYG 0316836

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# HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

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#### DIVISION OF SOUD & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

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P.O. Box 12820, Albany, New York 12212

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UNIFORM HAZARDOUS 1. Generator's US EPA No. WASTE MANIFEST #145700122	Manifest D 5 0 6 1 665	1	2. Page			heavy bold line iederal Law.
3.Generator's Name and Mailing Address Rama Research Site		ŕ	A	NYGO31	68/	15
153 Brooks Road Rome, MY 13441-4015						earch Fact
4. Generator's Telephone Number ( 315) 330-2098 CORt	act Fred Cox		Carrie	man Dd. Ma		MICH PAC
5. Transporter 1 (Company Name) FRANKS VACHAM TRUCK SEANNDA				ransporter's ID orter's Telephone		2
7 Transporter 2 (Company Name) 8. US EPA ID N				ransporter's ID	80	ZUNX
				rter's Telephone	()	
9. Designated Facility Name and Site Address COPL Chemical Services L	·		3. State F	acility IU	•.	
Model City, NY 14107	- I - I - I - I - I - I	79	1. Facility	Telephone ( 71	6)754	-8231
11. US DOT Description (Including Proper Shipping Name, Hazard Class	s and ID Number)	12. Cor		13. Total	14. Unit	2 · · · ·
<u>SA 7117</u>		Number	Туре	Quantity	M1/Vol	I. Waste No EPA
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٢.						EPA
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d.						EPA
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J. Additional Descriptions for Materials listed Above		•	K. Ha	ndling Codes for	Wastes Li	sted Above
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	1 1	· ·		ь. П		
15. Special Handling Instructions and Additional Information						
ER Guide No: 171	8111578	< U 3				
In case of emergency call MARCOR at 1-4	<b>800-388-593</b> 3	3		48276	r I	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of	of this consignment ar	re fully an	d accurate	ely described abo	ve by pro	per shipping name
and are classified, packed, marked and labeled, and are in all respects in national government regulations and state laws and regulations.						
If I am a large quantity generator, I certify that I have a program in place to be economically practicable and that I have selected the practicable m	to reduce the volume ethod of treatment, st	e and toxi torage, or	city of wa: disposal	ste generated to currently availabl	the degree a to me w	e I have determine hich minimizes the
present and future threat to human health and the environment; OR if I a the best waste management method that is available to me and that I ca	am a small generator,	l have m	ade a goo	od faith effort to a	ninimize r	my waste and sele
Printed/Typed Name Signature	· · · · · · · · · · · · · · · · · · ·			· · · ·	Mo.	Day Year
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18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature	·				Mo.	Day Year
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19. Discrepancy Indication Space						1/1
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50	had bie	1 F	767.	IKL	<u>Jun</u>	<u>-14- K</u>
20. Facility Owner or Operator: Certification of receipt of hazardous mat	line line	manifest	except as	noted in Item 19		_ <b>K4-</b> K
20. Facility Owner or Operator: Certification of receipt of hazardous mat Printed/Typed Name Signature	trials covered by this	manifest	except as	noted in Item 19		Day Year

COPY 5 - Generator - Mailed by TSD Facility

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	UNIFORM HAZARDOUS 1. Generater's L WASTE MANIFEST	Nonifest C Monifest C Monifest C	1	1000e	$\begin{array}{c c} \mathbf{s} & \mathbf{s} \\ \mathbf{s} \\ \mathbf{s} & \mathbf{s} \\ \mathbf{s} \\ \mathbf{s} & \mathbf{s} \\ $	ion within I juiged by Fi	neavy bold line ? scional Law, 557
	Bran Research atta	1997 - 1997 -	•.• <del>•</del> .• •	Genera	NYG 03		
	153 Brooks Rd. Bosse, MY 13441-4015 Generator's dephane Number (315 1330-20	CORLACE FEGG					espanch Fac:
	5. Transporter 1 (Company Name) 7. Transporter 2 (Company Name)	8. US EPA ID Number	1. 1.0	Transp	unter's Talephane ronsporter's ID		
	9. Designated Facility Name and Site Address		G	. State !	nter's Telephone focility 10	<u>[]</u>	112 122. 12. 2 17
	Che Chemics 1 Services	10. US EPA ID Number	H	Facility	Telephone (7]	6).734	-9231
┞	Hodel City, NY 14107 11. US DOT Description (Including Proper Shipping Na	NYDAA5836 is me, Hazard Class and ID Number)	12Cort Number		1.3. Total (2). Guantity	14. Unit Wt/Vel	t, Waste No.
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ľ	J. Additional Descriptions for Materials listed Acove	1		X. 71	andling Coder fo	v Wastes U	sted Above
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# DIVISION OF SOLID & HAZARDOUS MATERIALS HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

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	3.Generator's Name and Mailing Address	c				<u> • •</u>	A			
	Rome Research site				•	• ••		NYG03:	L68	63
	153 Brooks ad. Rome N	T 1344	1-4015	COR	tact	<u>.</u>	B. Gene	rator's ID	na B	Pace Pac
	4. Generator's Telephone Number ( 315) 5. Transporter 1 (Company Name)	330-205	US EPA ID I	Fred Co	4.4.2	٢	C State	Transporter's ID		1.13474
	61	· · /	1115		17-	71-		porter's Telephone		r (N
	7 Transporter 2 (Company Name)	8	US EPA ID N	Number	<u></u>			Transporter's ID		
							F. Transp	orter's Telephone	( .)	
	9. Designated Facility Name and Site Addres	EI-C				•		Facility ID		• • •
	1550 Balmer Road Hodel City, NY,	SA alu	0. US EPA ID	Number						1 8334
		7111		4983	5 5	79		y Telephone (716		4-8231
	11. US DOT Description (Including Proper Shi	pping Name	, Hazard Clas	is and ID Nur	nber)		ontainers	13. Total	14. Unit	
	·					Numb	er Type	Quantity	W1/Vol	I. Waste No
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	3. Additional Descriptions for Materials listed A	Vbove /	1			• •	к. н	andling Codes for	Wastes Li	sted Above
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	15. Special Handling Instructions and Addition	al Informatic	n							
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		s. : <b>.</b>		3 <b>00388</b> -	-5933	-	•	:		
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## DIVISION OF SOUD & HAZAKDOUS MATERIALS

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HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212



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# DIVISION OF SOLID & HAZARDOUS MATERIALS HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212



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One Remington Park Drive • Cazenovia, NY 13035

(315) 655-8161 · fax (315) 655-4180

January 10, 2001

Mr. Bruce H. Mero, REM Air Force Research Laboratories Rome Research Site 150 Electronics Parkway Rome, NY 13441-4516

#### Re: Semiannual Monitoring Analytical Summary Report Verona Research Facility S&W No. 90060.0

Dear Mr. Mero:

This letter report provides a comprehensive summary of the groundwater analytical results for samples collected from the Verona Research Facility from October 1996 to September 2000 (see Figure 1 for site location map). Stearns & Wheler has compiled and reviewed the groundwater analytical data from eight sampling events that occurred during that period. Groundwater sampling was implemented based on the detection of volatile organic compounds, as reported in a February 1997 Preliminary Site Assessment (PSA) report completed by Stearns & Wheler. Groundwater samples were collected from Well MW-001 and MW-1231C at Building 1231, and Wells MW-002 and MW-004 at Building 1253 (see Figures 2 and 3 for monitoring well locations). In addition, one sample was collected from Brandy Brook during each sampling event. Analytical results were presented in summary reports prepared by Stearns & Wheler following each of the sampling events. Consistent with those summary reports, this comprehensive summary focuses on four contaminants of concern: tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2 dichloroethene (DCE), and chlorobenzene (CB).

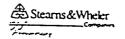
#### RESULTS

A summary of the eight rounds of analytical data is presented in Table 1. Instances when water samples could not be obtained due to dry conditions are indicated with "NS." Figure 4 presents the results for the contaminants of concern.

#### Brandy Brook

The sampling point for the Brandy Brook sampling location is located approximately 200 feet south (down gradient) of Building 1231. No VOCs were detected in Brandy Brook during the sampling period.

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Mr. Bruce H. Mero, REM Rome Research Site

January 10, 2001 Page 2

#### **BUILDING 1231**

#### MW-001

Samples could not be collected in 1999 (well was dry) and September of 2000 (well not found). However, other data indicate that concentrations of VOCs have decreased below NYSDEC groundwater standards since the October 1996 sampling event, and no VOCs were present above detection limits in February 2000.

#### *MW-1231C*

Concentrations of PCE and TCE are highly variable through the sample period. However, concentrations of DCE have steadily decreased below NYSDEC groundwater standards since October 1997 from 14 ppb to 3 ppb in September 2000. CB has not been present above detection limits since April of 1998.

#### **BUILDING 1253**

#### MW-002

Contaminants of concern have remained below NYSDEC standards during the period. Otherwise, concentrations of 1,1,1 trichloroethane (TCA) have decreased below detection limits. Although, 1,1-dichloroethane (DCA) was recently detected at 8 ppb, it has decreased from 16 ppb compared to the March 1999 sampling event.

#### MW-004

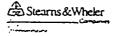
As seen in Figure 2, concentrations of contaminants of concern have generally declined. An exception occurs during the September 1999 sampling event, when anomalous high concentrations of TCE and DCE were detected. These anomalous levels are likely related to dry conditions during this period and the resultant low water table.

#### DISCUSSION OF RESULTS

Factors impacting migration, degradation, and potential remediation of chlorinated compounds at this site include the water table gradient, local groundwater discharge points, the nature of the overburden, and the geochemical state of the groundwater.

As reported in the February 1997 PSA report, Brandy Brook is the local groundwater discharge point for the site and the greatest distance over which migration could occur. The data indicates that contaminated groundwater has not significantly impacted the brook during this period.

<sup>1 9100/19006010/</sup>WordprockLetters/2000/Mero, Bruce - Rome Research DRF 02.doc



Mr. Bruce H. Mero, REM Rome Research Site

January 10, 2001 Page 3

The variability in the PCE and TCE data reported from MW-1231C and MW-004 tends to obscure chemical evidence of attenuation. It appears that variation may be caused in part by water table fluctuations. For example, in September of 1999 high levels of VOCs in the wells is likely the result of dry conditions and low water table levels. Despite this variability, there is chemical evidence of natural degradation of contaminants of concern. For example, chlorinated compounds are not as easily degraded under aerobic (oxygen rich) conditions as compared to anaerobic (low oxygen) conditions. Figure 5 shows a graphical representation of the ratio of TCE/DCE plotted versus dissolved oxygen. If compounds are being attenuated at the site, one would expect that as dissolved oxygen decreases the ratio of TCE/DCE would decrease also, reflecting the degradation of TCE into DCE. This is observed in Figure 5.

#### **RECOMENDATIONS**

The concentration of compounds detected at the site during the eight sampling events has shown either a decreasing trend or significant variation. There is chemical evidence to support that some degree of natural attenuation is occurring, and site impacts have not been observed in the brook. Given the sites rural setting, limited migration potential, and lack of impact to its groundwater discharge point (Brandy Brook) exposure pathways to contaminants are incomplete. Therefore, Stearns & Wheler recommends that actions at the site be limited to continued monitoring, with a focus on Wells MW-001, MW-1231C (Building 1231), and MW-002 (Building 1253). It is suggested that the above three wells and Brandy Brook undergo continued monitoring, semi-annually for two years. Following two more years of sampling, data can be reevaluated to assess whether there is continued improvement.

If you have any questions regarding the results of this sampling event, please do not hesitate to contact us.

Very truly yours,

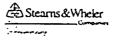
David R. Frostclapp Engineer

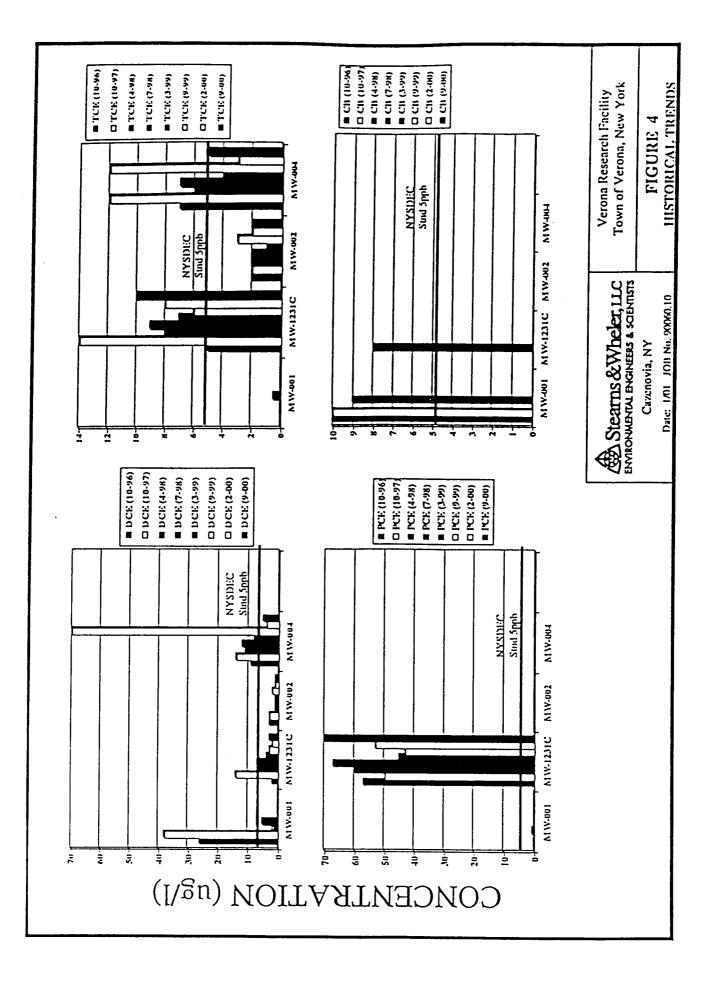
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Enclosures

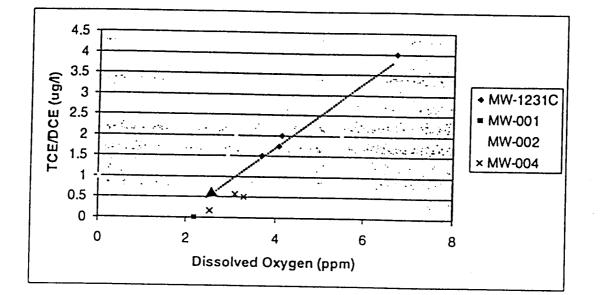
cc: Don Sorbello, S&W Redevelopment (w/ enc.)

<sup>1 90007 9006010</sup> WordprockLetters 2000 Mero, Bruce - Rome Research DRF 02 doc





# TCE/DCE VS. DISSOLVED OXYGEN



Lower levels of dissolved oxygen in groundwater provides favorable conditions for anaerobic degradation of chlorinated organic compounds. The figure above indicates that a decline in oxygen levels causes TCE to degrade to DCE as evidenced by the decrease in the TCE/DCE ratio.



Verona Research Facility Verona, NY

**FIGURE 5** 

CAZENOVIA. NEW YORK

JOB No: 90060.10

Verona Groundwater Sampling Summary Report Table 1 Historical Groundwater Analytical Results Volatile Organic Compounds Verona Research Facility Verona, NY

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Table 1 (contid) Historical Groundwater Analytical Resulta Volatile Organic Compounda Verona Reserch Facility Jan-Ot

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nterior at OCC G NYSUE and State and State ND. ND Detective and allowed All values in this table are based upon NYSDEC TOGS (Oxuber 1993) Revised June 1998. Shaded urea liadicate exceedances of standards U - not present above detectio kinas

### Historical Field Parameters Building 1231 Verona Research Facility Verona, NY

MW-001

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Sampling Event	DTW (ft)	Time	Purge Rate (L/min)	Temp. (C)	Cond. (ms/cm)	pН	Eh (mV)	Turbidity (NTU)	DO (ppm)	Salinity %
Oct-96	2.83								(ppin)	/•
Oct-97	6.25				·					
Apr-98	2.48							f		<u> </u>
Jul-98	3.24	9:30	BAILED	20	0.720	7.50	-80	690	- 2.20	
Mar-99		-	•			1.50	-00	030	2.20	0.00
Sep-99		•				·		· · ·		•
Feb-00	1.34	11:40	DAIL CO			•	•	· ·	•	•
		11.40	BAILED	7.4	0.391	7.21	180	287	18.04	0.01
Sep-00	•	-	•	•	•	•	•			

\* Mar-99 - Well was damaged and trozen, unable to thew.

\* Sep-99 - Well was damaged and dry.

\* Sep-00 - Well destroyed, possibly dug up during excavation. Large area appears disturbed, possibly from excavation and refill,

#### MW-1231C

Sampling Event	DTW (ft)	Time	Purge Rate (L/min)	Temp. (C)	Cond. (ms/cm)	pН	Eh (mV)	Turbidity (NTU)	DO (ppm)	Salinity %
Oct-96	3.68								(pp.iii)	
Oct-97	9.80	<u></u>						·[]·		
Apr-98	6.01							}}		<u></u>
Jul-98	6.89	9:30	BAILED	15.0	0.730	7.60	175	728	3.70	
Mar-99	4.89	10:00	BAILED	5.0	0.769	6.42	195			0.00
Sep-99	12.89	•	BAILED	14.1				OR	4.06	0.03
					0.721	6.51	125	282	4.12	0.03
Feb-00	4.84	12:50	BAILED	7.7	0.726	6.96	205	OR	6.71	0.03
Sep-00	-	-	•	•						0.03

\* Sep-00 - Field equipment not functioning property. Unable to obtain field parameters,

OR - Over Range (>999 NTU).

### Historical Field Parameters Building 1253 Verona Research Facility Verona, NY

#### MW-002

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Sampling Event	DTW (ft)	Time	Purge Rate (L/min)	Temp. (C)	Cond, (ms/cm)	pН	Eh (mV)	Turbidity (NTU)	DO (ppm)	Salinity %
Oct-96	1.58					· · · · · ·			(PP)	
Oct-97	5.52	······	[					<del>  </del>		
Apr-98	2.43							┨─────┤		
Jul-98	2.99	8:00	BAILED	19	0.860	7.40	80	328	3.10	0.00
Mar-99	1.55	9:30	BAILED	4.3	0.664	6.75		986		
Sep-99	8.90	10:15	BAILED					······	3.23	0.02
				17.8	•	6.54	195	OR	2.93	0.03
Feb-00	1.51	10:40	BAILED	7.1	0.749	7.08	145	OR	5.48	0.03
Sep-00	-	•	-	•	•	•				0.05

\* Sep-00 - Field equipment not functioning property. Unable to obtain field parameters. OR - Over Range (>999 NTU).

#### MW-004

Sampling Event	DTW (ft)	Time	Purge Rate (Umin)	Temp. (C)	Cond. (ms/cm)	pН	Eh (mV)	Turbidity (NTU)	DO (ppm)	Salinity %
Oct-96	1.31						· · · ·		(FF)	
Oct-97	5.64									······
Apr-98	2.64							·[		<u></u>
Jul-98	3.56	8:30	BAILED	20.0	1.200	7.40	240	68	3.10	0.00
Mar-99	•	9:15	BAILED	3.9	0.902	7.29	195	OR	3.30	0.00
Sep-99	8.83	10:30	BAILED	18.0	1.010	6.54	210	311	2.53	0.03
Feb-00	1.28	11:00	BAILED	6.3	0.980	6.90	170	117	19.44	
Sep-00	•	-							19.44	0.04

\* Sep-00 - Field equipment not functioning property. Unable to obtain field parameters.

OR - Over Range (>999 NTU).

From:	Anthony Quartararo
To:	Evans, Robert
Date:	3/22/02 3:43PM
Subject:	Re: Proposed Class 4 listing: Verona Research Facility ID # 633046

Bob, No info

•

#### >>> Robert Evans 03/22/02 03:34PM >>>

Verona Research Facility, located on Germany Road, Verona,NY 13478, Oneida County is proposed to be listed on the Registry of IHWDS as a Class 4 site. As you know, the Brownfields/Voluntary Cleanup Section must sign off on all listing packages indicating whether there are any voluntary cleanup agreements, Brownfields agreements, MGP agreements, or any VC or BF negotiations under way.

From:	Dale Desnoyers
То:	reevans@gw.dec.state.ny.us
Date:	3/22/02 6:07PM
Subject:	Re: Proposed Class 4 listing: Verona Research Facility ID # 633046

I don't have any info on this.

•

>>> Robert Evans 03/22/02 15:34 PM >>>

Verona Research Facility, located on Germany Road, Verona,NY 13478, Oneida County is proposed to be listed on the Registry of IHWDS as a Class 4 site. As you know, the Brownfields/Voluntary Cleanup Section must sign off on all listing packages indicating whether there are any voluntary cleanup agreements, Brownfields agreements, MGP agreements, or any VC or BF negotiations under way.

From:	Robert Schick
To:	Evans, Robert
Date:	3/22/02 3:54PM
Subject:	Re: Proposed Class 4 listing: Verona Research Facility ID # 633046

mo mgp

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My address, phone and fax numbers are:

Robert W. Schick, P.E. New York State Department of Environmental Conservation 625 Broadway Albany, NY 12233-7017 Phone: (518) 402-9662 Fax: (518) 402-9679

>>> Robert Evans 03/22/02 03:34PM >>>

Verona Research Facility, located on Germany Road, Verona,NY 13478, Oneida County is proposed to be listed on the Registry of IHWDS as a Class 4 site. As you know, the Brownfields/Voluntary Cleanup Section must sign off on all listing packages indicating whether there are any voluntary cleanup agreements, Brownfields agreements, MGP agreements, or any VC or BF negotiations under way.

From:Robert EvansTo:Desnoyers, Dale; McCullouch, Gary; Quartararo, Anthony; Schick, Robert;Sweredoski, Darrell3/22/02 3:34PMDate:3/22/02 3:34PMSubject:Proposed Class 4 listing: Verona Research Facility ID # 633046

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Verona Research Facility, located on Germany Road, Verona,NY 13478, Oneida County is proposed to be listed on the Registry of IHWDS as a Class 4 site. As you know, the Brownfields/Voluntary Cleanup Section must sign off on all listing packages indicating whether there are any voluntary cleanup agreements, Brownfields agreements, MGP agreements, or any VC or BF negotiations under way.

A.Sylvester

### New York State Department of Environmental Conservation Division of Environmental Remediation

Bureau of Hazardous Site Control, 11<sup>th</sup> Floor 625 Broadway, Albany, New York 12233-7014 Phone: (518) 402-9551 • FAX: (518) 402-9020 Website: www.dec.state.ny.us



JUN 17 2002

Town Clerk Town of Verona 6600 Germany Road Darhamville, NY 13054

Dear Sir/Madam:

The New York State Department of Environmental Conservation (Department) maintains a Registry of sites where hazardous waste disposal has occurred. Property located at Germany Road in the Town of Verona within Oneida County, and designated as Tax Map Number 285-1-1, was recently added as a Class 4 in the Registry. The name and site I.D. number of this property as listed in the Registry is Verona Research Facility, Site #633046.

The Classification Code 4 indicates that the site is properly closed -- requires continued management.

We are sending this letter to you and others who own property near the site listed above, as well as the county and town clerks. We are notifying you about these activities at this site because we believe it is important to keep you informed.

If you currently are renting or leasing your property to someone else, please share this information with them. If you no longer own the property to which this letter was sent, please provide this information to the new owner and provide this office with the name and address of the new owner so that we can correct our records.

The reason for this recent classification decision is as follows:

- Excavation of polychlorinated biphenyl (PCB) contaminated soils adjacent to Building 1233 was completed in July 1998. Natural attenuation of volatile organic compound (VOC) contaminated groundwater beneath Building 1231 and 1253 is occurring. Continued monitoring of the groundwater in monitoring wells MW-1231C, MW-002, and MW-004, as well as the surface water in Brandy Brook is required. Therefore, the site (Buildings 1231 and 1253, and the lands immediately adjacent to them where the aforementioned monitoring wells are located) should be classified as a Class 4 site in the New York State Registry of Inactive Hazardous Waste Disposal Sites. Verona Research Facility Site #633046

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Page 2

If you have questions, need additional information, or have information which you believe would be useful to us, please call the Department of Environmental Conservation's toll-free number: **1(800)342-9296**. The Department of Health maintains a Health Liaison Program (HeLP) toll-free number: **1(800)458-1158 Ext. 2-7530**.

Sincerely,

Don J. Fr

Dennis J. Farrar Chief Site Control Section

bcc: M. O'Toole

- D. Weigel
- D. Farrar
- J. Swartwout
- D. Sweredoski, R/6
- B. Fenlon, R/6
- S. Litwhiler, R/6
- A. Sylvester
- G. Litwin
- L. Ennist

AS/srh

## New York State Department of Environmental Conservation

Division of Environmental Remediation Bureau of Hazardous Site Control, 11<sup>th</sup> Floor 625 Broadway, Albany, New York 12233-7014 Phone: (518) 402-9551 • FAX: (518) 402-9020 Website: www.dec.state.ny.us



JUN 17 2002

Oneida County County Clerk County Office Building 800 Park Avenue Utica, NY 13501

Dear Sir/Madam:

The New York State Department of Environmental Conservation (Department) maintains a Registry of sites where hazardous waste disposal has occurred. Property located at Germany Road in the Town of Verona within Oneida County, and designated as Tax Map Number 285-1-1, was recently added as a Class 4 in the Registry. The name and site I.D. number of this property as listed in the Registry is Verona Research Facility, Site #633046.

The Classification Code 4 indicates that the site is properly closed -- requires continued management.

We are sending this letter to you and others who own property near the site listed above, as well as the county and town clerks. We are notifying you about these activities at this site because we believe it is important to keep you informed.

If you currently are renting or leasing your property to someone else, please share this information with them. If you no longer own the property to which this letter was sent, please provide this information to the new owner and provide this office with the name and address of the new owner so that we can correct our records.

The reason for this recent classification decision is as follows:

- Excavation of polychlorinated biphenyl (PCB) contaminated soils adjacent to Building 1233 was completed in July 1998. Natural attenuation of volatile organic compound (VOC) contaminated groundwater beneath Building 1231 and 1253 is occurring. Continued monitoring of the groundwater in monitoring wells MW-1231C, MW-002, and MW-004, as well as the surface water in Brandy Brook is required. Therefore, the site (Buildings 1231 and 1253, and the lands immediately adjacent to them where the aforementioned monitoring wells are located) should be classified as a Class 4 site in the New York State Registry of Inactive Hazardous Waste Disposal Sites. Verona Research Facility Site #633046

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Page 2

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Sincerely,

Don & Fr

Dennis J. Farrar Chief Site Control Section

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- D. Weigel
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- A. Sylvester
- G. Litwin
- L. Ennist

AS/srh

Sylvester

## New York State Department of Environmental Conservation

**Division of Environmental Remediation Bureau of Hazardous Site Control, 11<sup>th</sup> Floor** 625 Broadway, Albany, New York 12233-7014 **Phone:** (518) 402-9551 • **FAX:** (518) 402-9020 **Website:** www.dec.state.ny.us



MAY 3 0 2002

#### CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. Bruce H. Mero, REM Chief Environmental Safety and Occupational Health Office Air Force Research Laboratory 150 Electronic Parkway Rome, NY 13441-4105

Dear Mr. Mero:

As mandated by Section 27-1305 of the Environmental Conservation Law (ECL), copy enclosed, the New York State Department of Environmental Conservation (Department) must maintain a registry of all inactive disposal sites suspected or known to contain hazardous wastes. The ECL also mandates that this Department notify, by certified mail, the owner of all or any part of each site or area included in the Registry of Inactive Hazardous Waste Disposal Sites.

Our records indicate that you are the owner or part owner of the site listed below. Therefore, this letter constitutes notification of the inclusion of such site in the Registry of Inactive Hazardous Waste Disposal Sites in New York State. Once listed in the Registry, the site becomes subject to certain restrictions prescribed by provisions of 6NYCRR Part 375 (see enclosure).

DEC Site No.:	633046
Site Name:	Verona Research Facility
Site Address:	Germany Road, Verona, NY 13478
Site Classification:	4

Enclosed is a copy of the Department's Inactive Hazardous Waste Disposal Site Report form as it appears in the Registry and Annual Report together with an explanation of the site classifications. The Law allows the owner and/or operator of a site listed in the Registry to petition the Commissioner of the New York State Department of Environmental Conservation for deletion Verona Research Facility Site ID No. 633046

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of such site, modification of site classification, or modification of any information regarding such site, by submitting a written statement setting forth the grounds of the petition. Such petition may be addressed to:

Ms. Erin M. Crotty Commissioner New York State Department of Environmental Conservation 625 Broadway Albany, New York 12233-1010

For additional information, please contact me at (518) 402-9553.

Sincerely,

Dem & Fa

Dennis J. Farrar Chief Site Control Section Bureau of Hazardous Site Control Division of Environmental Remediation

Enclosures

bcc: w/o Enc.

- M. O'Toole
- D. Weigel
- R. Marino
- D. Farrar J. Swartwout
- A. Sylvester
- w/Enc. (Copy of Site Report form only) A. Grant G. Litwin, NYSDOH C. Vasudevan S. Nortz, R/6 D. Sweredoski, R/6
- B. Fenlon, R/6

AS/srh

Page 2