RDMS DocID 107823

DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION

Interim Final 2/5/99

RCRA Corrective Action
Environmental Indicator (EI) RCRIS code (CA725)

Current Human Exposures Under Control

Facility Name: Former Columbia Magnetics
Facility Address: 15 Great Pasture Road, Danbury, Connecticut
Facility EPA ID #: CTD 050628148

1. Has all available relevant/significant information on known and reasonably suspected releases to soil, groundwater, surface water/sediments, and air, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units (SWMU), Regulated Units (RU), and Areas of Concern (AOC)), been considered in this EI determination?

   __X__ If yes - check here and continue with #2 below.

   _____ If no - re-evaluate existing data, or

   _____ if data are not available skip to #6 and enter "IN" (more information needed) status code.

BACKGROUND

Definition of Environmental Indicators (for the RCRA Corrective Action)

Environmental Indicators (EI) are measures being used by the RCRA Corrective Action program to go beyond programmatic activity measures (e.g., reports received and approved, etc.) to track changes in the quality of the environment. The two EI developed to-date indicate the quality of the environment in relation to current human exposures to contamination and the migration of contaminated groundwater. An EI for non-human (ecological) receptors is intended to be developed in the future.

Definition of "Current Human Exposures Under Control" EI

A positive "Current Human Exposures Under Control" EI determination ("YE" status code) indicates that there are no "unacceptable" human exposures to "contamination" (i.e., contaminants in concentrations in excess of appropriate risk-based levels) that can be reasonably expected under current land- and groundwater-use conditions (for all "contamination" subject to RCRA corrective action at or from the identified facility (i.e., site-wide)).

Relationship of EI to Final Remedies

While Final remedies remain the long-term objective of the RCRA Corrective Action program the EI are near term objectives, which are currently being used as Program measures for the Government Performance and Results Act of 1993, GPRA). The "Current Human Exposures Under Control" EI are for reasonably expected human exposures under current land- and groundwater-use conditions ONLY, and do not consider potential future land- or groundwater-use conditions or ecological receptors. The RCRA Corrective Action program's overall mission to protect human health and the environment requires that Final remedies address these issues (i.e., potential future human exposure scenarios, future land and groundwater uses, and ecological receptors).

Duration / Applicability of EI Determinations

EI Determinations status codes should remain in RCRIS national database ONLY as long as they remain true (i.e., RCRIS status codes must be changed when the regulatory authorities become aware of contrary information).

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2. Are groundwater, soil, surface water, sediments, or air **media** known or reasonably suspected to be **"contaminated"**[1] above appropriately protective risk-based "levels" (applicable promulgated standards, as well as other appropriate standards, guidelines, guidance, or criteria) from releases subject to RCRA Corrective Action (from SWMUs, RUs or AOCs)?

	Yes	No	?	Rationale / Key Contaminants
Groundwater		X		See Rationale and References below
Air (indoors)[2]		X		See Rationale and References below
Soil (surface, e.g., <2 ft)		X		See Rationale and References below
Surface Water		X		See Rationale and References below
Sediment		X		See Rationale and References below
Soil (subsurface e.g., >2 ft)	X			See Rationale and References below
Air (outdoors)		X		See Rationale and References below

_____ If no (for all media) - skip to #6, and enter "YE," status code after providing or citing appropriate "levels," and referencing sufficient supporting documentation demonstrating that these "levels" are not exceeded.

__X__ If yes (for any media) - continue after identifying key contaminants in each "contaminated" medium, citing appropriate "levels" (or provide an explanation for the determination that the medium could pose an unacceptable risk), and referencing supporting documentation.

_____ If unknown (for any media) - skip to #6 and enter "IN" status code.

Rationale and Reference(s):

For contaminant of concern (COC) list, refer to **Table 1**.

Groundwater
Appropriately protective risk-based levels used in this evaluation include the Connecticut Department of Environmental Protection (CTDEP) Remediation Standard Regulations (RSRs) Surface Water Protection Criteria (SWPC), Residential Volatilization Criteria (Res-VC), and Industrial/Commercial Volatilization Criteria (I/C-VC) for on-site groundwater.

As part of satisfying the negative declaration requirements for the sale of the property, eight groundwater monitoring wells (designated as MW-1D, MW-2S, MW-2D, MW-3D, MW-4S, MW-4D, MW-5, and MW-6) were installed at the locations shown on **Figure 1**. Deep wells are designated by the letter "D" and monitor the bedrock aquifer. Shallow wells are designated by the letter "S" and monitor the overburden aquifer. MW-1D through MW-4D were installed in December 1986, and MW-5 and MW-6 were installed in July 1987.

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[1] "Contamination" and "contaminated" describes media containing contaminants (in any form, NAPL and/or dissolved, vapors, or solids, that are subject to RCRA) in concentrations in excess of appropriately protective risk-based "levels" (for the media, that identify risks within the acceptable risk range).

[2] Recent evidence (from the Colorado Dept. of Public Health and Environment, and others) suggest that unacceptable indoor air concentrations are more common in structures above groundwater with volatile contaminants than previously believed. This is a rapidly developing field and reviewers are encouraged to look to the latest guidance for the appropriate methods and scale of demonstration necessary to be reasonably certain that indoor air (in structures located above (and adjacent to) groundwater with volatile contaminants) does not present unacceptable risks.

Based on the groundwater elevation survey conducted, groundwater generally flows to the northwest/west/southwest towards Sympaug Brook (**Figure 1**).

Between December 1986 and October 1996, 40 groundwater monitoring events were conducted. Based on data from the 40 rounds of quarterly groundwater monitoring that were completed as of September 12, 1996, groundwater quality at the Site had improved over time. Analytical data from the last 19 quarterly monitoring rounds indicated concentrations of chemical constituents below current applicable RSRs, as well as those standards specifically approved for Site remediation by CTDEP in 1987. As a result, CTDEP issued a September 16, 1997 decision to cease groundwater monitoring at the Site. A copy of the groundwater monitoring results for the 40 sampling events conducted from December 16, 1986 through September 12, 1996 are provided in **Table 2.**

Air (indoors)
Appropriately protective risk-based levels used in this evaluation included the Residential Soil Vapor Volatilization Criteria (R SVVC) for soil vapor.

In July 2003 soil gas surveys were conducted in two areas, the former Mill Room, located in the southwest side of the main facility building, where the tape coating dispersions were prepared, and the former Tape Coating Room, located in the south side of the main facility building, where the film was coated with the dispersion.

The soil gas sample locations are shown on **Figure 2.**

For the former Mill Room, the soil gas survey identified the presence of four VOCs: benzene, ethylbenzene, xylenes, and toluene. Xylenes were detected at all sample locations at concentrations ranging from 0.0012 to 9.3 parts per million by volume (ppmv). Toluene was also detected at all sample locations at concentrations ranging from 0.0024 to 38 ppmv. Ethylbenzene was detected at 15 sample locations at concentrations ranging from 0.0011 to 2.8 ppmv. Benzene was detected at two locations at concentrations of 0.0012 ppm and 0.0014 ppm. The concentrations of VOCs detected during the soil gas survey were all well below their respective current and proposed R SVVC, and I/C SVVC. Analytical results for the soil gas survey are summarized on **Table 3a.**

For the former Tape Coating Room, the soil gas survey identified the presence of five VOCs: benzene, ethylbenzene, MIBK, xylenes, and toluene. Xylenes were detected at all sample locations at concentrations ranging from 0.0011 to 0.0063 ppmv. Toluene was also detected at all sample locations at concentrations ranging from 0.0028 to 0.0045 ppmv. Ethylbenzene was detected at 10 sample locations at concentrations ranging from 0.0011 to 0.0032 ppmv. Benzene was detected at two locations at concentrations of 0.0012 and 0.0023 ppmv. MIBK was detected at one sample location at a concentration of 0.032 ppmv. The concentrations of VOCs detected during the soil gas survey were all well below their respective current and proposed R SVVC, and I/C SVVC. Analytical results for the soil gas survey are summarized on **Table 3b.**

To evaluate the remaining potential impact behind the engineered barrier and beneath the existing building structure, Woodard & Curran conducted a soil gas survey consisting of 7 sample locations in May 2006.

The soil gas survey identified the presence of six VOCs: 1,1,1-trichloroethane, dichlorofluoromethane, Freon-113, TCE, tetrahydrofuran, and toluene. The concentrations of VOCs detected during the soil gas survey were all below their respective current and proposed R SVVC, and I/C SVVC. Analytical results for the soil gas survey are summarized on **Table 3c.**

Soil (surface, e.g., <2ft)
Appropriately protective risk-based levels used in this evaluation included the Connecticut Department of Environmental Protection (CTDEP) Remediation Standard Regulations (RSRs) Residential Direct Exposure Criteria (RDEC), Industrial/Commercial Direct Exposure Criteria (I/C-DEC) and Pollutant Mobility Criteria for a GB groundwater area (GB PMC).

Numerous iterations of remediation and investigation have been conducted at the site. Soil sample locations for soil boring investigations and post excavation confirmation are shown on **Figure 3.** All soil

data for surface soil samples are included on **Tables 4a to 4h.** No exceedances of Connecticut RSR criteria were noted.

Surface Water
Appropriately protective risk-based levels used in this evaluation include the Connecticut Department of Environmental Protection (CTDEP) Remediation Standard Regulations (RSRs) Surface Water Protection Criteria (SWPC).

Sympaug Brook, is located along the western boundary of the Site and flows in a northerly direction. In 1986, as part of satisfying the negative declaration requirements for the sale of the property, four grab samples were taken of the surface water in the marsh and Sympaug Brook. The four surface water samples taken from the marsh and Sympaug Brook are identified as sample locations 36 through 39 on **Figure 3.**

Each of the samples was analyzed for the COCs identified in **Table 1.** None of the surface water samples collected from Sympaug Brook showed concentrations of the target compounds at or above the laboratory's minimum detection limit of 0.01 milligram per liter (mg/L) for surface water samples).

Three surface water samples were also collected by GZA Environmental from Sympaug Brook on April 22, 1991. No VOCs were detected these surface water samples.

Sediment
The CTDEP RSRs do not have criteria for sediments. Appropriately protective risk-based levels used in this evaluation included the Connecticut Department of Environmental Protection (CTDEP) Remediation Standard Regulations (RSRs) Residential Direct Exposure Criteria (RDEC), Industrial/Commercial Direct Exposure Criteria (I/C-DEC) and Pollutant Mobility Criteria for a GB groundwater area (GB PMC).

On April 14, 1994, as part of its SIP, Weston/ARCS collected five sediment grab samples from a depth of 0.1 to 0.5 feet. The sample locations are identified as SD-01 through SD-05 on **Figure 3** and the laboratory data is presented on **Table 5.** Sediment sample SD-05 was assumed to represent a background reference sample. The samples were submitted for full organic, total metals and cyanide analyses using EPA CLP protocols. The only VOCs detected in the sediment samples were acetone (SD-01 at 6.7 mg/kg and SD-03 at 0.18 mg/kg) and 2-butanone (SD-03 at 0.038 mg/kg). Acetone was also detected in the rinsate and trip blank samples. The only SVOC detected was acenaphthylene in sample SD-04 (0.43 mg/kg). Cyanide was detected in sediment sample SD-03 (2.3 micrograms per kilogram [ug/kg]) and cadmium was detected in sediment sample SD-04 (3.4 ug/kg). No polychlorinated biphenyls (PCBs) were detected in any of the sediment samples. In comparison to the residential direct exposure criteria (RDEC) for soil, the detected values for acetone were well below the RDEC for acetone of 500 mg/kg and the detected value for 2-butanone was well below the RDEC for 2-butanone of 500 mg/kg. The detected value for acenaphthylene was well below the corresponding RDEC of 1,000 mg/kg. As for the inorganic materials, the detected values for cyanide and cadmium were well below their corresponding RDEC values of 1,400 mg/kg and 34 mg/kg, respectively.

An *EPA-New England Resource Conservation and Recovery Act (RCRA) Corrective Action Ecological Receptor Exposure Pathway Scoping Checklist* was prepared for the site. In an Interdepartmental Memo dated June 12, 2009, CTDEP supported the conclusion that the site is not causing or contributing to ecological risks.

Soil (subsurface, e.g., >2ft)
Appropriately protective risk-based levels used in this evaluation included the Connecticut Department of Environmental Protection (CTDEP) Remediation Standard Regulations (RSRs) Residential Direct Exposure Criteria (RDEC), Industrial/Commercial Direct Exposure Criteria (I/C-DEC) and Pollutant Mobility Criteria for a GB groundwater area (GB PMC).

Numerous iterations of remediation and investigation have been conducted at the site. Soil sample locations for soil boring investigations and post excavation confirmation are shown on **Figure 3.** All soil data for subsurface soil samples are included on **Tables 4a to 4h.** The only exccedance of RSR criteria was noted for soils greater than 10 feet below grade beneath the southwest corner of the site building. A subsurface containment barrier was installed to prevent water infiltration and exposure due to potential

excavation work. This exceedance will be rendered inaccessible with the implementation of an Environmental Land Use Restriction (ELUR).

Air (Outdoors)
Based on current site conditions, no impact to outdoor air would be expected.

Current Human Exposures Under Control
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3. Are there **complete pathways** between "contamination" and human receptors such that exposures can be reasonably expected under the current (land- and groundwater-use) conditions?

Summary Exposure Pathway Evaluation Table

	Potential **Human Receptors** (Under Current Conditions)						
Contaminated Media	Residents	Workers	Day-Care	Construction	Trespassers	Recreation	Food[3]
~~Groundwater~~							
~~Air (indoors)~~							
~~Soil (surface, e.g., <2 ft)~~							
~~Surface Water~~							
~~Sediment~~							
Soil (subsurface e.g., >2 ft)	no	no	no	no	no	no	no
~~Air (outdoors)~~							

Instructions for Summary Exposure Pathway Evaluation Table:

1. Strike-out specific Media including Human Receptors' spaces for Media which are not "contaminated") as identified in #2 above.

2. enter "yes" or "no" for potential "completeness" under each "Contaminated" Media – Human Receptor combination (Pathway).

Note: In order to focus the evaluation to the most probable combinations some potential "Contaminated" Media - Human Receptor combinations (Pathways) do not have check spaces ("___"). While these combinations may not be probable in most situations they may be possible in some settings and should be added as necessary.

__X__ If no (pathways are not complete for any contaminated media-receptor combination) - skip to #6, and enter "YE" status code, after explaining and/or referencing condition(s) in-place, whether natural or man-made, preventing a complete exposure pathway from each contaminated medium (e.g., use optional Pathway Evaluation Work Sheet to analyze major pathways).

_____ If yes (pathways are complete for any "Contaminated" Media - Human Receptor combination) - continue after providing supporting explanation.

_____ If unknown (for any "Contaminated" Media - Human Receptor combination) - skip to #6 and enter "IN" status code

Rationale and Reference(s):

Although potential construction workers may reach the impacted soil below 10 feet, these soils will be rendered inaccessible with the implementation of an ELUR.

[3] Indirect Pathway/Receptor (e.g., vegetables, fruits, crops, meat and dairy products, fish, shellfish, etc.)

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4 Can the **exposures** from any of the complete pathways identified in #3 be reasonably expected to be **"significant"**[4] (i.e., potentially "unacceptable" because exposures can be reasonably expected to be: 1) greater in magnitude (intensity, frequency and/or duration) than assumed in the derivation of the acceptable "levels" (used to identify the "contamination"); or 2) the combination of exposure magnitude (perhaps even though low) and contaminant concentrations (which may be substantially above the acceptable "levels") could result in greater than acceptable risks)?

_____ If no (exposures can not be reasonably expected to be significant (i.e., potentially "unacceptable") for any complete exposure pathway) - skip to #6 and enter "YE" status code after explaining and/or referencing documentation justifying why the exposures (from each of the complete pathways) to "contamination" (identified in #3) are not expected to be "significant."

_____ If yes (exposures could be reasonably expected to be "significant" (i.e., potentially "unacceptable") for any complete exposure pathway) - continue after providing a description (of each potentially "unacceptable" exposure pathway) and explaining and/or referencing documentation justifying why the exposures (from each of the remaining complete pathways) to "contamination" (identified in #3) are not expected to be "significant."

_____ If unknown (for any complete pathway) - skip to #6 and enter "IN" status code

Rationale and Reference(s):

[4] If there is any question on whether the identified exposures are "significant" (i.e., potentially "unacceptable") consult a human health Risk Assessment specialist with appropriate education, training and experience.

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5 Can the "significant" **exposures** (identified in #4) be shown to be within **acceptable** limits?

_____ If yes (all "significant" exposures have been shown to be within acceptable limits) - continue and enter "YE" after summarizing and referencing documentation justifying why all "significant" exposures to "contamination" are within acceptable limits (e.g., a site-specific Human Health Risk Assessment).

_____ If no (there are current exposures that can be reasonably expected to be "unacceptable")- continue and enter "NO" status code after providing a description of each potentially "unacceptable" exposure.

_____ If unknown (for any potentially "unacceptable" exposure) - continue and enter "IN" status code

Rationale and Reference(s):

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6. Check the appropriate RCRIS status codes for the Current Human Exposures Under Control EI event code (CA725), and obtain Supervisor (or appropriate Manager) signature and date on the EI determination below (and attach appropriate supporting documentation as well as a map of the facility):

__X__ YE - Yes, "Current Human Exposures Under Control" has been verified. Based on a review of the information contained in this EI Determination, "Current Human Exposures" are expected to be "Under Control" at the (Facility) facility, EPA ID # (Number), located at (address) under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

____ NO - "Current Human Exposures" are NOT "Under Control."

____ IN - More information is needed to make a determination.

Prepared by (signature) _____ Date 7/30/09
(print) Mark Peters
(title) --Project Manager

DEP reviewed by (signature) _____ Date 8/3/09
(print) Sandy Bunnelli
(title) EA3

DEP Supervisor (signature) _____ Date 8-5-09
(print) DAVID RINGQUIST
(title) SEA

(EPA Region or State) CTDEP

All References may be found at:
Connecticut Department of Environmental Protection located at 79 Elm Street, Hartford, Connecticut

DEP file room contact telephone and e-mail numbers

Name: Terry Parker
Phone: 860 424-3936
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FINAL NOTE: THE HUMAN EXPOSURES EI IS A QUALITATIVE SCREENING OF EXPOSURES AND THE DETERMINATIONS WITHIN THIS DOCUMENT SHOULD NOT BE USED AS THE SOLE BASIS FOR RESTRICTING THE SCOPE OF MORE DETAILED (E.G., SITE-SPECIFIC) ASSESSMENTS OF RISK.

Table 1
Consituents of Concern

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

Compound	1986 Action Levels (AOC #1 and AOC #5)	1986 Action Levels (AOC #2, AOC #3, and AOC#5)	RDEC	I/C DEC	GB PMC
Benzene	ND	NE	21	200	0.2
Chlorobenzene	ND	NE	500	1000	20
1,2-Dichlorobenzene	ND	NE	500	1000	3.1
1,3-Dichlorobenzene	ND	NE	500	1000	120
1,4-Dichlorobenzene	ND	NE	26	1000	15
Ethyl Benzene	ND	1.4	500	1000	10.1
2-Butanone (MEK)	ND	1.0	500	1000	80
Methyl Isobutyl Ketone (MIBK)	ND	1.0	500	1000	14
Tetrahydrofuran (THF)	ND	8.1	84	700	1.76
Toluene	ND	1.0	500	1000	67
Trichlorotrifluoromethane	ND	NE	NE	NE	NE
Xylenes	ND	0.1	500	1000	19.5

All values in ppm (mg/kg)
THF RSRs derived from Region III RBCA tables:
RDEC = Soil Residential
I/C DEC = Soil Industrial
GB PMC = Tap Water x20 x10 dilution

Table 2
Summary of Groundwater Analytical Results

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

WELL NO.	NOTES	DATE	THF	TOLUENE	XYLENE	MEK	MIBK	ETHYL BENZENE	METHYLENE CHLORIDE
MW-1D	(1)	12/16/86	ND	ND	ND	ND	ND	ND	–
	(1)	01/14/87	ND	ND	ND	ND	ND	ND	–
	(1)	04/14/87	ND	ND	ND	ND	ND	ND	–
	(1)	07/22/87	ND	ND	ND	ND	ND	ND	–
	(2,3)	10/23/87	–	ND	0.09	ND	ND	0.020	0.180
	(2)	02/22/88	ND	ND	ND	ND	ND	ND	ND
	(2)	06/07/88	ND	ND	ND	ND	ND	ND	ND
	(4)	10/12/88	ND	ND	ND	ND	ND	ND	ND
	(4)	12/29/88	ND	ND	ND	ND	ND	ND	ND
	(4)	03/10/89	ND	ND	ND	ND	ND	ND	ND
	(4)	06/13/89	ND	ND	ND	ND	ND	ND	ND
	(4)	09/22/89	ND	ND	ND	ND	ND	ND	ND
	(4)	12/21/89	ND	ND	ND	ND	ND	ND	ND
	(4)	03/08/90	ND	ND	ND	ND	ND	ND	ND
	(4)	06/11/90	ND	ND	ND	ND	ND	ND	ND
	(4)	09/28/90	ND	ND	ND	ND	ND	ND	ND
	(7)	12/10/90	ND	ND	ND	ND	ND	ND	ND
	(7)	03/26/91	ND	ND	ND	ND	ND	ND	ND
	(7)	06/28/91	ND	ND	ND	ND	ND	ND	ND
	(7)	09/19/91	ND	ND	ND	ND	ND	ND	ND
	(7)	12/05/91	ND	ND	ND	ND	ND	ND	ND
	(7)	3/26/92	ND	ND	ND	ND	ND	ND	ND
	(7)	06/26/92	ND	ND	ND	ND	ND	ND	ND
	(7)	09/23/92	ND	ND	ND	ND	ND	ND	ND
	(7)	12/08/92	ND	ND	ND	ND	ND	ND	ND

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WELL NO.	NOTES	DATE	THF	TOLUENE	XYLENE	MEK	MIBK	ETHYL BENZENE	METHYLENE CHLORIDE
	(7)	03/02/93	ND	ND	ND	ND	ND	ND	ND
	(7)	06/02/93	ND	ND	ND	ND	ND	ND	ND
	(7)	09/03/93	ND	ND	ND	ND	ND	ND	ND
	(7)	12/06/93	ND	ND	ND	ND	ND	ND	ND
	(6,7)	03/23/94	ND	ND	ND	ND	ND	ND	(0.0032)
	(7)	06/06/94	ND	ND	ND	ND	ND	ND	ND
	(6,7)	09/15/94	ND	ND	ND	ND	ND	ND	(0.0086)
	(7)	12/19/94	ND	ND	ND	ND	ND	ND	ND
	(6,7)	03/15/95	ND	ND	ND	ND	ND	ND	(0.0022)
	(7)	06/28/95	ND	ND	ND	ND	ND	ND	ND
	(6,7)	09/25/95	ND	ND	ND	ND	ND	ND	(0.0020)
	(7)	12/11/95	ND	ND	ND	ND	ND	ND	ND
	(7)	03/05/96	ND	ND	ND	ND	ND	ND	ND
	(7)	06/05/96	ND	ND	ND	ND	ND	ND	ND
	(7)	09/12/96	ND	ND	ND	ND	ND	ND	ND
MW-2S		06/07/87 to present	Well dry or containing insufficient water to sample	--	--	--	--	--	--
MW-2D		12/16/86	ND	ND	ND	ND	ND	ND	--
		01/14/87	ND	ND	ND	ND	ND	ND	ND
		04/14/87	ND	ND	ND	ND	ND	ND	ND
		07/22/87	ND	ND	ND	ND	ND	ND	0.0028
		10/23/87	--	ND	ND	ND	ND	0.024	0.16
		02/22/88	ND	ND	ND	ND	ND	ND	ND
		06/07/88	ND	ND	ND	ND	ND	ND	ND
		10/12/88	ND	ND	ND	ND	ND	ND	ND
	(5)	12/29/88	0.040	0.006	ND	ND	ND	ND	ND

Table 2
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Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

WELL NO.	NOTES	DATE	THF	TOLUENE	XYLENE	MEK	MIBK	ETHYL BENZENE	METHYLENE CHLORIDE
		03/10/89	ND	ND	ND	ND	ND	ND	ND
		06/13/89	ND	ND	ND	ND	ND	ND	ND
		09/22/89	ND	ND	ND	ND	ND	ND	ND
	(6)	12/21/89	ND	ND	ND	ND	ND	ND	0.003
		03/08/90	ND	ND	ND	ND	ND	ND	ND
	(6)	06/11/90	ND	ND	ND	ND	ND	ND	0.032
		09/28/90	ND	ND	ND	ND	ND	ND	ND
	(7)	12/10/90	ND	ND	ND	ND	ND	ND	ND
	(7)	03/26/91	ND	ND	ND	ND	ND	ND	ND
	(7)	09/19/91	ND	ND	ND	ND	ND	ND	ND
	(7)	06/28/91	ND	ND	ND	ND	ND	ND	ND
	(7)	09/19/91	ND	ND	ND	ND	ND	ND	ND
	(7)	12/05/91	ND	ND	ND	ND	ND	ND	ND
	(7)	03/26/92	ND	ND	ND	ND	ND	ND	ND
	--	06/26/92	Well inaccessible	--	--	--	--	--	--
	(7)	09/23/92	ND	ND	ND	ND	ND	ND	ND
	(7)	12/08/92	ND	ND	ND	ND	ND	ND	ND
	(7)	03/02/93	ND	ND	ND	ND	ND	ND	ND
	(7)	06/02/93	ND	ND	ND	ND	ND	ND	ND
	Other VOCs 0.0024 ppm (7), (10)	09/03/93	ND	ND	ND	ND	ND	ND	ND
	(7)	12/06/93	ND	ND	ND	ND	ND	ND	ND
	(6,7)	03/23/94	ND	ND	ND	ND	ND	ND	(0.0027)
	(7)	06/06/94	ND	ND	ND	ND	ND	ND	ND

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15 Great Pasture Road
Danbury, Connecticut

WELL NO.	NOTES	DATE	THF	TOLUENE	XYLENE	MEK	MIBK	ETHYL BENZENE	METHYLENE CHLORIDE
	(6,7)	09/15/94	ND	ND	ND	ND	ND	ND	(0.0098)
	(7)	12/19/94	ND	ND	ND	ND	ND	ND	ND
	(6,7)	03/15/95	ND	ND	ND	ND	ND	ND	(0.0042)
	(7)	06/28/95	ND	ND	ND	ND	ND	ND	ND
	(6,7)	09/25/95	ND	ND	ND	ND	ND	ND	(0.0023)
	(7)	12/11/95	ND	ND	ND	ND	ND	ND	ND
	(7)	03/05/96	ND	ND	ND	ND	ND	ND	ND
	(7)	06/05/96	ND	ND	ND	ND	ND	ND	ND
	(7)	09/12/96	ND	ND	ND	ND	ND	ND	ND
MW-3D		12/16/86	16	0.126	0.018	ND	ND	0.011	--
		01/14/87	12	8.1	ND	ND	ND	ND	ND
		04/14/87	4	0.9	0.016	ND	ND	0.001	ND
		07/22/87	9	0.034	0.027	ND	ND	0.015	ND
		10/23/87	--	ND	0.032	ND	ND	ND	0.16
		02/22/88	8.5	0.90	0.220	ND	ND	ND	ND
		06/07/88	0.105	ND	ND	ND	ND	ND	--
		10/12/88	2.44	ND	0.007	ND	ND	ND	ND
	(5)	12/29/88	2.5	0.005	0.007	ND	ND	ND	ND
		03/10/89	0.089 (0.076 dup.)	ND	<0.002	ND	ND	ND	ND
		06/13/89	1.05	ND	ND	ND	ND	ND	ND
		09/22/89	0.482	ND	ND	ND	ND	ND	ND
		12/21/89	0.570	ND	ND	ND	ND	ND	ND
		03/08/90	0.206	ND	ND	ND	ND	ND	ND
		06/11/90	0.350	ND	ND	ND	ND	ND	ND
		09/28/90	0.130	ND	ND	ND	ND	ND	ND

Table 2
Summary of Groundwater Analytical Results

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

WELL NO.	NOTES	DATE	THF	TOLUENE	XYLENE	MEK	MIBK	ETHYL BENZENE	METHYLENE CHLORIDE
	(7)	12/10/90	0.340	ND	ND	ND	ND	ND	ND
	(7)	03/26/91	0.490	ND	ND	ND	ND	ND	ND
	(7)	06/28/91	0.280	ND	ND	ND	ND	ND	ND
	(7)	09/19/91	0.360	ND	ND	ND	ND	ND	ND
	(7)	12/05/91	1.400	ND	ND	ND	0.017	ND	ND
	(7)	03/26/92	0.362	ND	ND	ND	ND	ND	ND
	(7)	06/26/92	0.188	ND	ND	ND	ND	ND	ND
	(7), (8)	09/23/92	0.331	ND	ND	ND	ND	ND	ND
	(7)	12/08/92	0.902	ND	ND	ND	ND	ND	ND
	(7)	03/02/93	0.096	ND	ND	ND	ND	ND	ND
	(7)	06/02/93	0.200	ND	ND	ND	ND	ND	ND
	(7)	09/03/93	0.140	ND	ND	ND	ND	ND	ND
	(7)	12/06/93	0.210	ND	ND	ND	ND	ND	ND
	(6,7)	03/23/94	0.210	ND	ND	ND	ND	ND	(0.0033)
	(7)	06/06/94	0.110	ND	ND	ND	ND	ND	ND
	(6,7)	09/15/94	0.110	ND	ND	ND	ND	ND	(0.019)
	(7)	12/19/94	ND	ND	ND	ND	ND	ND	ND
	(6,7)	03/15/95	0.130	ND	ND	ND	ND	ND	(0.0023)
	(7)	06/28/95	0.064	ND	ND	ND	ND	ND	ND
	(6,7)	09/25/95	0.160	ND	ND	ND	ND	ND	(0.0027)
	(7)	12/11/95	0.130	ND	ND	ND	ND	ND	ND
	(7)	03/05/96	ND	ND	ND	ND	ND	ND	ND
	(7)	06/05/96	0.100	ND	ND	ND	ND	ND	ND
	(7)	09/12/96	ND	ND	ND	ND	ND	ND	ND

Table 2
Summary of Groundwater Analytical Results

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

WELL NO.	NOTES	DATE	THF	TOLUENE	XYLENE	MEK	MIBK	ETHYL BENZENE	METHYLENE CHLORIDE
MW-4S		12/26/86	ND	ND	ND	ND	ND	ND	ND
		01/14/87	Dry	--	--	--	--	--	--
		04/14/87	ND	ND	ND	ND	ND	ND	ND
		07/22/87	Dry	--	--	--	--	--	--
		10/23/87	--	--	--	--	--	--	--
		02/22/88	ND	ND	ND	ND	ND	ND	ND
		06/07/88	Not sampled	--	--	--	--	--	--
		10/12/88	Insufficient water	--	--	--	--	--	--
		12/29/88	ND	ND	ND	ND	ND	ND	ND
		03/10/89	ND	ND	ND	ND	ND	ND	ND
		06/13/89	ND	ND	ND	ND	ND	ND	ND
		09/22/89	ND	ND	ND	ND	ND	ND	ND
		12/21/89	ND	ND	ND	ND	ND	ND	ND
		03/08/90	ND	ND	ND	ND	ND	ND	ND
		06/11/90	ND	ND	ND	ND	ND	ND	ND
		09/28/90	ND	ND	ND	ND	ND	ND	ND
	(7)	12/10/90	ND	ND	ND	ND	ND	ND	ND
	(7)	03/26/91	ND	ND	ND	ND	ND	ND	ND
	(7)	06/28/91	ND	ND	ND	.03	ND	ND	ND
	(7)	09/19/91	ND	ND	ND	ND	ND	ND	ND
	(7)	12/05/91	ND	ND	ND	ND	ND	ND	ND
	(7)	03/26/92	ND	ND	ND	ND	ND	ND	ND
		06/26/92	Insufficient water	--	--	--	--	--	--
	(6)	09/23/92	ND	ND	ND	ND	ND	ND	0.0038*

Table 2
Summary of Groundwater Analytical Results

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

WELL NO.	NOTES	DATE	THF	TOLUENE	XYLENE	MEK	MIBK	ETHYL BENZENE	METHYLENE CHLORIDE
	Other VOC 0.0036 (7,9)	12/08/92	ND	ND	ND	ND	ND	ND	ND
	(7)	03/02/93	ND	ND	ND	ND	ND	ND	ND
	(7)	06/02/93	ND	ND	ND	ND	ND	ND	ND
		09/03/93	Insufficient water	--	--	--	--	--	--
	(7)	12/06/93	ND	ND	ND	ND	ND	ND	ND
	(6,7)	03/23/94	ND	ND	ND	ND	ND	ND	(0.0028)
	(7)	06/06/94	ND	ND	ND	ND	ND	ND	ND
	(6,7)	09/15/94	ND	ND	ND	ND	ND	ND	(0.0057)
	(7)	12/19/94	ND	ND	ND	ND	ND	ND	ND
	(6,7)	03/15/95	ND	ND	ND	ND	ND	ND	(0.0041)
		06/28/95	Insufficient recharge	--	--	--	--	--	--
		09/25/95	Dry	--	--	--	--	--	--
	(7)	12/11/95	ND	ND	ND	ND	ND	ND	ND
	(7)	03/05/96	ND	ND	ND	ND	ND	ND	ND
	(6,7)	06/05/96	ND	ND	ND	ND	ND	ND	(0.0040)
	(7)	09/12/96	ND	ND	ND	ND	ND	ND	ND
MW-4D		12/16/86	ND	ND	ND	ND	ND	ND	--
		01/14/87	0.03	ND	ND	ND	ND	ND	0.015
		04/14/87	ND	ND	ND	ND	ND	ND	ND
		07/22/87	ND	ND	ND	ND	ND	ND	ND
		10/23/87	--	ND	ND	ND	ND	0.025	0.240
		02/22/88	ND	ND	ND	ND	ND	ND	ND
		06/07/88	2.10	ND	0.038	ND	ND	ND	ND

Table 2
Summary of Groundwater Analytical Results

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

WELL NO.	NOTES	DATE	THF	TOLUENE	XYLENE	MEK	MIBK	ETHYL BENZENE	METHYLENE CHLORIDE
		10/12/88	ND	ND	ND	ND	ND	ND	ND
		12/29/88	ND	ND	ND	ND	ND	ND	ND
		03/10/89	ND	ND	ND	ND	ND	ND	ND
		06/13/89	ND	ND	ND	ND	ND	ND	ND
		09/22/89	ND	ND	ND	ND	ND	ND	ND
	(6)	12/21/89	ND	0.099	ND	ND	ND	ND	0.003
		03/08/90	ND	ND	ND	ND	ND	ND	ND
		06/11/90	ND	ND	ND	ND	ND	ND	ND
		09/28/90	0.027	ND	ND	ND	ND	ND	ND
	(7)	12/10/90	ND	ND	ND	ND	ND	ND	ND
	(7)	03/26/91	ND	ND	ND	ND	ND	ND	ND
	(7)	06/28/91	ND	ND	ND	ND	ND	ND	ND
	(7)	09/19/91	ND	ND	ND	ND	ND	ND	ND
	(7)	12/05/91	ND	ND	ND	ND	ND	ND	ND
	(7)	03/26/92	ND	ND	ND	ND	ND	ND	ND
	(7)	06/26/92	ND	ND	ND	ND	ND	ND	ND
	(7)	07/23/92	ND	ND	ND	ND	ND	ND	ND
	(7)	09/23/92	ND	ND	ND	ND	ND	ND	ND
	(7)	12/08/92	0.042	ND	ND	ND	ND	ND	ND
	(7)	03/02/93	ND	ND	ND	ND	ND	ND	ND
	(7)	06/02/93	ND	ND	ND	ND	ND	ND	ND
	(7)	09/03/93	ND	ND	ND	ND	ND	ND	ND
	(7)	12/06/93	ND	ND	ND	ND	ND	ND	ND
	(6,7)	03/23/94	ND	ND	ND	ND	ND	ND	(0.003)

Table 2
Summary of Groundwater Analytical Results

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

WELL NO.	NOTES	DATE	THF	TOLUENE	XYLENE	MEK	MIBK	ETHYL BENZENE	METHYLENE CHLORIDE
	(7)	06/06/94	ND	ND	ND	ND	ND	ND	ND
	(6,7)	09/15/94	ND	ND	ND	ND	ND	ND	(0.0076)
	(7)	12/19/94	ND	ND	ND	ND	ND	ND	ND
	(6,7)	03/15/95	ND	ND	ND	ND	ND	ND	(0.0027)
	(7)	06/28/95	ND	ND	ND	ND	ND	ND	ND
	(7)	09/25/95	ND	ND	ND	ND	ND	ND	(0.0028)
	(7)	12/11/95	ND	ND	ND	ND	ND	ND	ND
	(7)	03/05/96	ND	ND	ND	ND	ND	ND	ND
	(6,7)	06/05/96	ND	ND	ND	ND	ND	ND	(0.0075)
	(7)	09/12/96	ND	ND	ND	ND	ND	ND	ND
MW-5		All samples except those below	Dry	--	--	--	--	--	--
		06/13/89	ND	ND	ND	ND	ND	ND	ND
MW-6		07/22/87	5	48.9	0.50	ND	ND	0.024	0.2
		10/12/88	Insufficient water	--	--	--	--	--	--
		12/29/88	8.1	50.8	0.14	ND	ND	ND	ND
		03/10/89	ND (28.9 dup.)	34.2	ND	ND	ND	ND	ND
		06/13/89	5.8	50.5	ND	ND	ND	ND	ND
		09/22/89	8.0	86	ND	ND	ND	ND	ND
		12/21/89	ND	6.4	ND	ND	ND	ND	ND
		03/08/90	2.35	2.6	ND	ND	ND	ND	ND
		06/11/90	1.90	12.0	ND	ND	ND	ND	ND
		09/28/90	4.30	3.3	ND	ND	ND	ND	0.160
	(7)	12/10/90	1.50	3.9	ND	ND	ND	ND	ND

Table 2
Summary of Groundwater Analytical Results

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

WELL NO.	NOTES	DATE	THF	TOLUENE	XYLENE	MEK	MIBK	ETHYL BENZENE	METHYLENE CHLORIDE
	(7)	03/26/91	<0.5	0.63	ND	ND	ND	ND	0.180
	(7)	06/28/91	.480	.010	.0082	ND	ND	ND	ND
	(7)	09/19/91	2.90	46.0	ND	ND	ND	ND	0.300
	(7)	12/05/91	1.60	0.95	ND	ND	ND	ND	ND
	(7)	03/26/92	0.023	0.072	0.0028	ND	ND	ND	ND
	(7)	06/26/92	ND	0.044	ND	ND	ND	ND	ND
	(7)	09/23/92	ND	0.513	0.0021	ND	ND	ND	ND
	(7)	12/08/92	0.474	0.114	ND	ND	ND	ND	ND
	(7)	03/02/93	ND	ND	ND	ND	ND	ND	ND
	(7)	06/02/93	ND	ND	ND	ND	ND	ND	ND
	(7)	09/03/93	ND	ND	ND	ND	ND	ND	ND
	(7)	12/06/93	0.068	ND	ND	ND	ND	ND	ND
	(6,7)	03/23/94	ND	0.015	ND	ND	ND	ND	(0.003)
	(7)	06/06/94	ND	ND	ND	ND	ND	ND	ND
	(6,7)	09/15/94	ND	ND	ND	ND	ND	ND	(0.0053)
	(7)	12/19/94	ND	0.033	ND	ND	ND	ND	ND
	(6,7)	03/15/95	ND	0.070	ND	ND	ND	ND	(0.0022)
	(7,11)	06/28/95	ND	0.026	ND	ND	ND	ND	(0.0022)
	(6,7)	09/25/95	ND	ND	ND	ND	ND	ND	(0.0024)
	(7)	12/11/95	ND	0.030	ND	ND	ND	ND	ND
	(7)	03/05/96	ND	ND	ND	ND	ND	ND	ND
	(6,7)	06/05/96	ND	0.034	ND	ND	ND	ND	(0.0084)
	(7)	09/12/96	ND	0.0035	ND	ND	ND	ND	ND

Table 2
Summary of Groundwater Analytical Results

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

WELL NO.	NOTES	DATE	THF	TOLUENE	XYLENE	MEK	MIBK	ETHYL BENZENE	METHYLENE CHLORIDE
SW-1	(4)	04/22/91	ND	ND	ND	ND	ND	ND	ND
SW-2	(4)	04/22/91	ND	ND	ND	ND	ND	ND	ND
SW-3	(4)	04/22/91	ND	ND	ND	ND	ND	ND	ND

NOTES: * = likely laboratory anomaly; – = Not Analyzed; ND = Not Detected; 1. Sampling and analyses provided by Environmental Resources Management. Data obtained from 8/12/87 letter to Columbia Magnetics; 2. Sampling and analyses by Envirite, Inc.: Data obtained from laboratory reports - as per 12/7/88 Goldberg-Zoino letter to Connecticut DEP Hazardous Materials Management Unit; 3. The 10/23/87 results indicated additional compounds present as shown on the Laboratory Report. Compounds were reported to include acetone, bromodichloromethane, chloroform, and 1,1,1-trichloroethane. Based on subsequent sampling by Envirite, that data was likely erroneous; 4. Sampling and analysis provided by Goldberg-Zoino/GZA GeoEnvironmental, Inc.; 5. The presence of toluene and tetrahydrafuran in the 12/29/88 sample MW-2D and of toluene in sample MW-3D is likely due to laboratory anomaly as these compounds were detected at similar or higher levels in a field blank sample; 6. The presence of methylene chloride in the 12/21/89 samples MW-2D and MW-4D; 6/11/90 sample MW-2D; 9/23/92 sample MW-4S; and 6/5/96 samples MW-4S, MW-4D, and MW-6 are likely due to laboratory anomaly as these compounds were detected at similar or higher levels in a field blank sample. In addition, the presence of toluene in the 12/21/89 MW-4D sample may be related to laboratory anomaly for similar reasons although the concentration in the field blank was lower (by three times). Methylene chloride was also detected in all 3/23/94, 9/15/94, 3/15/95, and 9/25/95 samples including the field blanks at similar concentrations. It's presence is therefore not reflective of groundwater quality; 7. Analysis provided by Environmental Science Corporation; 8. Bromomethane was also detected in this sample at a concentration of 0.012 ppm; 9. 1,1,1-Trichloroethane was detected in this sample (MW-4S)at a concentration of 0.0036 ppm; 10. 1,1,1-Trichloroethane was detected in this sample (MW-2D) at a concentration of 0.0024 ppm; 11. Methylene Chloride was detected in this sample and the laboratory method blank and is therefore not indicative of groundwater quality.

Units are in PPM

Table 3a
Soil Gas Analytical Results AOC#4
May 2006

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

Res. Vol. Criteria		1,310	NE	1,200[1]	11	NE	760
Proposed Res. Vol. Criteria		70	14	NE	0.56	NE	42
I/C Vol. Criteria		4,520	NE	NE	27	NE	2,615
Proposed I/C Vol. Criteria		130	140	NE	1	NE	180
Sample ID	Sampling Date	1,1,1-Trichloroethane	Dichlorodifluoromethane	Freon-113	Tetrachloroethylene	Tetrahydrofuran	Toluene
Units		ppm	ppm	ppm	ppm	ppm	ppm
Analytical Method		TO-14	TO-14	TO-14	TO-14	TO-14	TO-14
SG-101	05/24/06	0.012	ND	0.370	0.028	ND	0.0042
SG-102	05/24/06	0.0033	ND	0.090	0.0049	ND	0.0034
SG-103	05/24/06	0.0064	0.0046	0.320	0.0060	ND	0.0060
SG-104	05/24/06	0.011	0.0038	0.470	0.0093	0.055	0.0035
SG-105	05/24/06	0.010	ND	0.380	0.014	ND	0.0023
SG-106	05/24/06	0.040	ND	1.000	0.051	ND	ND
SG-107	05/24/06	0.011	0.0049	0.180	0.015	ND	0.0025

1. Criteria for Freon-113 from Table 2b of OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance.
NE: Not Established
ND: Not Detected above laboratory minimum reporting level.
ppm: parts per million

Table 3b
Soil Gas Analytical Results AOC #6
July 2003

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

Constituent	Benzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Chlorobenzene	Ethylbenzene	Freon-113	Methyl ethyl ketone	Methylene Chloride	Methyl Isobutyl ketone	Total Xylenes	Tetrahydrofuran	Toluene
Res. Vol. Criteria (ppm)	1	240	240	950	31	1650	NE	2400	1200	140	500	NE	760
Proposed Res. Vol. Criteria (ppm)	0.78	9.2	9.2	3	6.1	9.3	NE	130	0.65	6.8	38	NE	42
I/C Vol. Criteria (ppm)	113	818	818	3270	106	5672	NE	8285	2907	480	1702	NE	2615
Proposed I/C Vol. Criteria (ppm)	1.4	95	95	5.5	60	93	NE	230	6.8	68	160	NE	186
AOC-6 SG01	ND	ND	ND	ND	ND	**1.8**	ND	ND	ND	ND	**1.1**	ND	**2.6**
AOC-6 SG02	ND	ND	ND	ND	ND	**2.1**	ND	ND	ND	ND	**1.4**	ND	**2.7**
AOC-6 SG03	ND	ND	ND	ND	ND	**2.8**	ND	ND	ND	ND	**9.3**	ND	**38**
AOC-6 SG04	ND	ND	ND	ND	ND	**0.0011**	ND	ND	ND	ND	**0.0023**	ND	**0.0027**
AOC-6 SG05	ND	ND	ND	ND	ND	**0.031**	ND	ND	ND	ND	**0.002**	ND	**0.0027**
AOC-6 SG06	ND	ND	ND	ND	ND	**0.0022**	ND	ND	ND	ND	**0.0014**	ND	**0.0047**
AOC-6 SG07	**0.0014**	ND	ND	ND	ND	**0.0018**	ND	ND	ND	ND	**0.0014**	ND	**0.0074**
AOC-6 SG08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0025**	ND	**0.0029**
AOC-6 SG09	ND	ND	ND	ND	ND	**0.0018**	ND	ND	ND	ND	**0.0012**	ND	**0.0024**
AOC-6 SG10	ND	ND	ND	ND	ND	**0.0012**	ND	ND	ND	ND	**0.018**	ND	**0.0039**
AOC-6 SG11	**0.0012**	ND	ND	ND	ND	**0.0025**	ND	ND	ND	ND	**0.0026**	ND	**0.0034**
AOC-6 SG12	ND	ND	ND	ND	ND	**0.0012**	ND	ND	ND	ND	**0.0028**	ND	**0.0056**
AOC-6 SG13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0022**	ND	**0.0035**
AOC-6 SG14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.015**	ND	**0.0033**
AOC-6 SG15	ND	ND	ND	ND	ND	**0.0012**	ND	ND	ND	ND	**0.0028**	ND	**0.0031**
AOC-6 SG16	ND	ND	ND	ND	ND	**0.0012**	ND	ND	ND	ND	**0.00322**	ND	**0.0039**
AOC-6 SG17	ND	ND	ND	ND	ND	**0.0023**	ND	ND	ND	ND	**0.0014**	ND	**0.0032**
AOC-6 SG18	ND	ND	ND	ND	ND	**0.0014**	ND	ND	ND	ND	**0.0041**	ND	**0.0058**

Notes:
ND = Not detected, detection limit is 1.0 ppm
NE = None established
ppm = Parts per million

Table 3c
Soil Gas Analytical Results AOC #7
July 2003

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

Constituent	Benzene	1,2-Dichlorobenzen	1,3-Dichlorobenzen	1,4-Dichlorobenzen	Chlorobenzene	Ethylbenzene	Freon 113	Methyl ethyl ketone	Methylene Chloride	Methyl isobutyl keto	Total Xylenes	Tetrahydrofuran	Toluene
Res. Vol. Criteria (ppm)	1	240	240	950	31	1650	NE	2400	1200	140	500	NE	760
Proposed Res. Vol. Criteria (ppm)	0.78	9.2	9.2	3	6.1	9.3	NE	130	0.65	6.8	38	NE	42
I/C Vol. Criteria (ppm)	113	818	818	3270	106	5672	NE	8285	2907	480	1702	NE	2615
Proposed I/C Vol. Criteria (ppm)	1.4	95	95	5.5	60	93	NE	230	6.8	68	160	NE	186
AOC-7 SG01	**0.0023**	ND	ND	ND	ND	**0.0032**	ND	ND	ND	ND	**0.0032**	ND	**0.0045**
AOC-7 SG02	ND	ND	ND	ND	ND	**0.0019**	ND	ND	ND	ND	**0.0012**	ND	**0.0028**
AOC-7 SG03	**0.0012**	ND	ND	ND	ND	**0.0011**	ND	ND	ND	ND	**0.003**	ND	**0.0036**
AOC-7 SG04	ND	ND	ND	ND	ND	**0.0022**	ND	ND	ND	ND	**0.0063**	ND	**0.0043**
AOC-7 SG05	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.032**	**0.0016**	ND	**0.0028**
AOC-7 SG06	ND	ND	ND	ND	ND	**0.0019**	ND	ND	ND	ND	**0.0012**	ND	**0.003**
AOC-7 SG07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.003**	ND	**0.0043**
AOC-7 SG08	ND	ND	ND	ND	ND	**0.0016**	ND	ND	ND	ND	**0.0033**	ND	**0.0035**
AOC-7 SG09	ND	ND	ND	ND	ND	**0.0025**	ND	ND	ND	ND	**0.0016**	ND	**0.0029**
AOC-7 SG10	ND	ND	ND	ND	ND	**0.0027**	ND	ND	ND	ND	**0.0029**	ND	**0.003**
AOC-7 SG11	ND	ND	ND	ND	ND	**0.0017**	ND	ND	ND	ND	**0.0011**	ND	**0.0033**
AOC-7 SG12	ND	ND	ND	ND	ND	**0.0012**	ND	ND	ND	ND	**0.0028**	ND	**0.0032**

Notes:
ND = Not detected, detection limit is 1.0 ppm
NE = None established
ppm = Parts per million

Table 4a
Summary of Laboratory Analytical Results for Samples 1-39
May 1986

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

Area	Parameter					
	THF[2]	MEK[3]	MIBK[4]	Toluene	Xylene	Ethyl Benzene
East end of the Absorption area: (AOC #4)						
Point 21-8'	-	-	-	-	-	-
-10'	-	-	-	-	-	-
Point 22-4'	0.16	-	-	2.1	-	-
-8'	1.2	-	-	0.19	-	-
-10'	0.77	-	-	0.13	-	-
Point 23-4'	4.7	-	-	0.3	-	-
-8'	25	6.4	-	18	-	-
Point 24-8'	0.085	-	-	0.053	-	-
-10'	-	-	-	-	-	-
Area of removed underground tanks: (AOC #3)						
Point 25-0'	3.9	6.1	-	-	-	-
-2'	0.04	-	-	-	-	-
-3'	0.16	-	-	-	-	-
-4'	0.065	-	-	-	-	-
Point 26-0'	2.9	7	-	-	-	-
-2'	1.4	-	-	-	-	-
Point 27-0'	0.13	-	-	-	-	-
-2'	0.19	-	-	-	-	-
Point 28-0'	39	5.2	-	5.1	-	-
-2'	5.6	5.6	-	1.5	-	-
-3'	3.7	6.9	-	2.7	-	-
Point 29-2'	0.19	-	-	-	-	-
Point 30	(No sample)					
Point 31-4'	-	-	-	-	-	-
Base of Slope/edge of marsh: (AOC #12)						
Point 32-1'	-	-	-	-	-	-
Point 33-1'	-	-	-	-	-	-
Point 34-1'	-	-	-	-	-	-
Point 35-1'	-	-	-	-	-	-
Water Samples from marsh: (AOC #12)						
Point 36	-	-	-	-	-	-
Point 37	-	-	-	-	-	-
Point 38	-	-	-	-	-	-
Point 39	-	-	-	-	-	-

Table 4a
Summary of Laboratory Analytical Results for Samples 1-39
May 1986

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

Area	Parameter THF[2]	MEK[3]	MIBK[4]	Toluene	Xylene	Ethyl Benzene
Downslope from outdoor drummed material storage:(AOC #1 & AOC #5)						
Point 1-4'	0.085	-	-	0.033	-	-
Point 2-4'	-	-	-	-	-	-
Point 3-0'	.051	-	-	-	-	-
Point 3-2'	-	-	-	3.7	0.24	-
-4'	-	-	-	0.51	-	-
-6'	-	-	-	0.021	-	-
Point 4-4'	-	-	-	-	-	-
Point 5-4'	-	-	-	-	-	-
Point 6-4'	-	-	-	-	-	-
Point 7-4'	0.029	-	-	-	-	-
Point 8-4'	-	-	-	0.027	-	-
Point 9-4'	-	-	-	-	-	-
9A-2'						
Downslope from Adsorption Area and Process Solvent Tank Farm:						
Point 10-4'	-	-	-	-	-	-
Point 11-4'	-	-	-	-	-	-
Point 12-2'	-	11	-	710	4.7	6.8
-4'	5.7	8.4	-	540	-	2.2
-6'	0.014	-	0.016	3.3	-	-
Point 13-8'	0.023	-	-	-	-	-
-10'	-	12	-	-	-	-
Point 14-2'	14	6.5	-	2.5	-	-
-4'	95	23	-	150	-	-
-6'	7.7	11	-	3.3	-	-
-8'	-	-	-	-	-	-
-10'	-	-	-	0.16	-	-
-15'	-	-	-	0.018	-	-
-20'	-	-	-	-	-	-
Point 15-4'	-	7.5	-	-	-	-
-6'	-	-	-	-	-	-
-10'	13	12	-	-	-	-
-15'	52	10	-	-	-	-
-20'	33	12	-	-	-	-
Point 16-4'	-	15	-	-	-	-
Point 17-4'	-	-	-	-	-	-
Point 18-4'	-	-	-	-	-	-
Point 19-4'	-	-	-	-	-	-
Point 20-4'	-	-	-	-	-	-

Notes:

1- All results in ppm
2- THF= tetrahydrofuran
3- MEK= methyl ethyl ketone (2-butanone)
4- MIBK methyl Isobutyl ketone
5- No result = below detection limit

Table 4b
Post Excavation Confirmatory Soil Sample Results
AOC-4 Excavation Area 4

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

SAMPLE NUMBER	ELEVATION W.R.M.S.L. (FEET)	COMPOUND (PARTS PER MILLION) THF(1)	MEK (2)	MIBK (3)	TOLUENE	XYLENE	ETHYL BENZENE
55 WS	388.9	-	-	-	-	-	-
55 WSA	384.8	-	-	-	-	-	-
55 WSB	380.5	-	-	-	-	-	-
587	386.2	-	-	-	-	-	-
60 75-1	382.0	-	-	-	-	-	-
57 55-2	377.6	-	-	-	-	-	-
60 WS	387.8	-	-	-	-	-	-
60 WSA	383.5	-	-	-	-	-	-
60 WSB	379.0	-	-	-	-	-	-
60 WSC	374.8	-	-	-	-	-	-
60 WS8	385.8	-	-	-	-	-	-
60 WS8A	381.8	-	-	-	-	-	-
60 WS8B	377.7	-	-	-	-	-	-
60 WS8C	373.5	-	-	-	-	-	-
61 WS-1	378.6	-	-	-	-	-	-
61 WSA	374.2	-	-	-	-	-	-

1 THF = Tetrahydrofuran
2 MEK = Methyl Ethyl Ketone (2-Butanone)
3 MIBK = Methyl Isobutyl Ketone
- No Result = Below Detection Limit

Table 4c
Summary of Soil Analytical Results in AOC-4

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

Boring No.	Depth	Compound Detected and Concentration	
55B*	2'	Below detection limit	
	4'	Below detection limit	
	6'	Below detection limit	
	8'	Below detection limit	
56B	12'	Toluene	4,000
	14'	Toluene	9,000
57B	8'	Toluene	0.2
58B	8'	Toluene	5,300
	12'	Toluene	9,000
60B	14'	Toluene	0.7
		Tetrahydrofuran	0.24
	16'	Toluene	2,100
61B	10'	Toluene	0.8

* Analyzed by York Laboratories; all other samples analyzed by Lancaster Laboratories, Lancaster, PA

Results are in PPM

Table4d
Post Excavation Confirmatory Soil Sample Analytical Results
AOC-1 Excavation Area and AOC-5 Former Outdoor Hazardous Waste Drum Storage Area
October 27, 1986

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

Analysis of Soil Samples Taken From Final Excavated Area
Northwest of Hazardous Waste Drum Storage

Sample Location	Total Solvents* (mg/kg)
North Wall A - Surface	<0.06
North Wall B - 4' Level	<0.06
North Wall C - Base	<0.06
South Wall A - Surface	<0.06
South Wall B - 4' Level	<0.06
South Wall C - Base	<0.06
East Wall A- Surface	<0.06
East Wall B - 4' Level	<0.06
East Wall C - Base	<0.06
West Wall A - Surface	<0.06
West Wall B - 4' Level	<0.06
West Wall C - Base	<0.06
Floor of Excavation - Center	<0.06

*All analyses performed by GC/MS Scan; no individual solvent detected above 0.01 mg/kg detection limit.

Table 4e
Summary of Soil Boring Analytical Results in AOC-4
December 1986

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

Boring Number	Sampling Interval(ft)	Xylene	THF	Toluene	MEK	MIBK	Ethyl Benzene
56	2.9-3.2	1.2	<5.0*	32.1	<5.0*	<5.0*	.6
56	3.2-3.5	1.0	<5.0*	27.1	<5.0*	<5.0*	.5
57	4.7-5.0	<.02	<5.0*	.02	<5.0*	<5.0*	<.02

* Detection Limit - The high detection limits for THF, MEK, and MIBK were due to the high solubility of these compounds in water which required the use of the direct injection GC method and the high levels of Toluene present in the sample from Boring #56.

Results are in PPM

Table 4f
Soil Boring Analytical Results AOC #4
March 2006

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

RDEC (ug/kg)		500,000	82,000	500,000	500,000
I/C DEC (ug/kg)		1,000,000	760,000	1,000,000	1,000,000
GA-PMC (ug/kg)		10,100	100	20,000	19,500
Sample ID	Sampling Date	Ethylbenzene	Methylene chloride	Toluene	m+p Xylenes
Units		ug/kg	ug/kg	ug/kg	ug/kg
Analytical Method		EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
AOC4 SB01 (2-4)	03/13/06	ND	ND	ND	ND
AOC4 SB01 (6-8)	03/13/06	ND	ND	ND	ND
AOC4 SB01 (12-14)	03/13/06	ND	ND	ND	ND
AOC4 SB01 (14-16)	03/13/06	ND	ND	ND	ND
AOC4 SB02 (8-10)*	03/13/06	ND	22,000	6,400	ND
AOC4 SB02 (10-12)	03/13/06	ND	ND	ND	ND
AOC4 SB02 (12-14)	03/13/06	ND	ND	7,900	ND
AOC4SB02 (14-14.5)	03/13/06	5,500	ND	1,100,000	7,700
AOC4 SB03 (6-8)	03/13/06	ND	ND	ND	ND
AOC4 SB03 (8-10)	03/13/06	ND	ND	ND	ND
AOC4 SB03 (10-11)	03/13/06	ND	ND	630	ND
AOC4 SB04 (4-6)	03/13/06	ND	ND	ND	ND
AOC4 SB04 (6-8)	03/13/06	ND	ND	ND	ND
AOC4 SB04 (8-10)	03/13/06	ND	ND	ND	ND

* Sample rerun for VOCs using SPLP. Results were ND
ND = Not Detected
GA PMC = GA Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
RDEC = Residential Direct Exposure Criteria
ug/kg = micrograms per kilogram

Table 4g
Soil Sample Analytical Results AOC #8
August 2003

Former Columbia Magnetics
15 Great Pasture Road
Danbury, Connecticut

Constituent	Res. DEC (mg/kg)	I/C DEC (mg/kg)	GB PMC (mg/kg)	GA PMC (mg/kg)	Tank GP-3	Tank GP-7	Tank GP-8	Tank GP-9	Tank GP-10
Sample Depth (feet)					12-13	6.5-7.5	10.5-11.5	11-12	10-11
Volatile Organic Compounds	Var.	Var.	Var.	Var.	ND	ND	ND	ND	ND
CT ETPH	500	2,500	2,500	500	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds									
Phenanthrene	1,000	2,500	40	4	ND	ND	**1.4**	ND	ND
Anthracene	1,000	2,500	400	40	ND	ND	**0.24**	ND	ND
Carbozole	31	290	1#	1#	ND	ND	**0.62**	ND	ND
Fluoranthene	1,000	2,500	56	5.6	ND	ND	**1.9**	**0.4**	ND
Pyrene	1,000	2,500	40	4	ND	ND	**1.5**	**0.35**	ND
Benzo(a)anthracene	1	7.8	1	1	ND	ND	**0.71**	ND	ND
Chrysene	84	780	1#	1#	ND	ND	**0.89**	**0.24**	ND
Benzo(b)fluoranthene	1	7.8	1	1	ND	ND	**1.0**	**0.31**	ND
Benzo(k)fluoranthene	8.4	78	1	1	ND	ND	**0.44**	ND	ND
Benzo(a)pyrene	1	1	1	1	ND	ND	**0.81**	**0.23**	ND
Indeno(1,2,3-cd)pyrene	1#	8	1#	1#	ND	ND	**0.55**	ND	ND
Benzo(g,h,i)perylene	1,000	2,500	42	4.2	ND	ND	**0.53**	ND	ND

NOTES:
Res. DEC: Connecticut Remedial Standard Regulations Residential Direct Exposure Criteria
I/C DEC: Connecticut Remedial Standard Regulations Industrial/Commercial Direct Exposure Criteria
GA PMC: Connecticut Remedial Standard Regulations GA Pollutant Mobility Criteria
GB PMC: Connecticut Remedial Standard Regulations GB Pollutant Mobility Criteria
mg/kg: Milligrams per kilogram
Var.: RSR Criteria varies based on constituent of concern
NE: CT. RSR Criteria not established
ND: Non Detect (Below Laboratory Detection Limit)
#: Criteria based on detection limit
*: Limits based on 4-Methyl Phenol limits as stated in CT RSRs

TABLE 4h

Soil Analytical Results
April 1994

SITE: COLUMBIA MAGNETICS

INORGANIC SOIL ANALYSIS
(mg/kg)

CASE: 21890 SDG: MACE14
LABORATORY: SVL ANALYTICAL

SAMPLE NUMBER:		MACE14	MACE15	MACE16	MACE17	MACE18	
SAMPLE LOCATION:		SS-01	SS-02	SS-03	SS-04	SS-05	
LABORATORY NUMBER:		MACE14	MACE15	MACE16	MACE17	MACE18	
% SOLIDS		89.4	89.1	88.9	89.9	80.5	
INORGANIC ELEMENTS	INSTRUMENT DETECTION LIMITS (mg/kg)						CONTRACT DETECTION LIMITS (mg/kg)
ALUMINUM	P	3.1	10900	10200	11800	10700	20000	40
ANTIMONY	P	4.9	5.5 UJ	5.5 UJ	5.5 UJ	5.5 UJ	6.1 UJ	12
ARSENIC	F	0.2	0.85 UJ	1.0 UJ	0.99 UJ	0.38 UJ	1.1 UJ	2
BARIUM	P	0.1	41.3	38.4	60.7	50.5	97.4	40
BERYLLIUM	P	0.1	0.32	0.40	0.45	0.33	0.78	1
CADMIUM	P	0.8	0.87 UJ	0.86 UJ	0.85 UJ	0.87 UJ	0.97 UJ	1
CALCIUM	P	5.2	90800	28000	55300	99300	3050	1000
CHROMIUM	P	0.4	12.4	11.7	18.0	15.1	25.2	2
COBALT	P	0.6	6.3	5.7	9.8	7.8	12.2	10
COPPER	P	0.6	20.5	8.4	17.9	11.2	17.6 J	5
IRON	P	1.0	10200	9990	18000	12100	22600	20
LEAD	P/F*	0.8/0.1*	6.6 *J	5.5 *J	47.6 *J	6.4 *J	24.4 *J	1
MAGNESIUM	P	5.1	23000	28500	24700	31000	12800	1000
MANGANESE	P	0.3	192	162	235	171	457	3
MERCURY	CV	0.02	0.11 U	0.11 U	0.11 U	0.11 U	1.0	0.1
NICKEL	P	1.9	9.4	9.2	11.9	11.6	14.8	8
POTASSIUM	P	62.2	1760 J	1000 J	2930 J	2470 J	2340 J	1000
SELENIUM	F	0.2	0.20 UJ	0.28 UJ	0.20 U	2.0 **U	0.22 U	1
SILVER	P	0.6	0.63 U	0.63 U	0.63 U	0.62 U	R	2
SODIUM	P	6.5	189	165	142	112	R	1000
THALLIUM	F	0.2	0.40 U	0.38 U	0.38 U	0.38 U	0.48 U	2
VANADIUM	P	0.5	19.0	17.9	27.1	20.6	41.6	10
ZINC	P	0.6	26.8 J	26.0 J	65.7 J	36.5 J	70.0 J	4
CYANIDE	AS	0.5	0.58 U	0.56 U	0.56 U	0.58 U	0.62 U	25

ANALYTICAL METHOD
F - FURNACE
P - ICP/FLAME AA
CV - COLD VAPOR
AS - SEMI AUTOMATED SPECTROPHOTOMETRIC

NOTE: J - QUANTITATION IS APPROXIMATE DUE TO LIMITATIONS IDENTIFIED IN THE QUALITY CONTROL REVIEW (DATA REVIEW)
-- VALUE IS NON-DETECTED
U - VALUE IS NON-DETECTED AND DETECTION LIMIT IS RAISED
UJ - VALUE IS NON-DETECTED AND DETECTION LIMIT IS ESTIMATED
** - VALUE REPRESENTS A 10 FOLD DILUTION

VOLUMES USED IN PREPARING SAMPLE FOR ANALYSIS: Hg 0.10 L AA & ICP 0.20 L CN 0.25 L

WET WEIGHTS OF SAMPLES: 1.00 G FOR AA & ICP
0.20 G FOR Hg
5.00 G FOR CN

TABLE 4h

Soil Analytical Results
April 1994 (cont.)

Pesticide/PCB Soil Analysis, (ug/Kg)

Site: COLUMBIA MAGNETICS

CASE: 21890 **SDG: AGH69**

Sample Number:		AGH69	AGH70	AGH71	AGH72	AGH73
Sample Location:		SS-01	SS-02	SS-03	SS-04	SS-05
Laboratory Number:		606920	606930	606931	606932	606933
COMPOUND	CRQL					
alpha-BHC	1.7	1.9 U	2.0 U	2.0 U	1.8 U	2.1 U
beta-BHC	1.7	1.9 U	2.0 U	2.0 U	1.8 U	2.1 U
delta-BHC	1.7	1.9 U	2.0 U	2.0 U	1.8 U	2.1 U
gamma-BHC(Lindane)	1.7	1.9 U	2.0 U	2.0 U	1.8 U	2.1 U
Heptachlor	1.7	1.9 U	2.0 U	2.0 U	0.31 J	0.35 J
Aldrin	1.7	1.9 U	2.0 U	2.0 U	1.8 U	2.1 U
Heptachlor Epoxide	1.7	1.9 U	2.0 U	2.0 U	1.8 U	0.74 J
Endosulfan I	1.7	1.9 U	2.0 U	2.0 U	1.8 U	2.1 U
Dieldrin	3.3	3.7 U	3.8 U	3.8 U	3.6 U	R
4,4'-DDE	3.3	3.7 U	3.8 U	3.8 U	3.6 U	4.0 U
Endrin	3.3	3.7 U	3.8 U	3.8 U	3.6 U	4.0 U
Endosulfan II	3.3	3.7 U	3.8 U	1.0 J	0.47 J	4.0 U
4,4'-DDD	3.3	3.7 U	3.8 U	3.8 U	3.6 U	4.0 U
Endosulfan Sulfate	3.3	3.7 U	3.8 U	3.8 U	3.6 U	4.0 U
4,4'-DDT	3.3	3.7 U	3.8 U	3.8 U	3.6 U	0.47 J
Methoxychlor	17.0	19 U	20 U	20 U	18 U	21 U
Endrin Ketone	3.3	3.7 U	3.8 U	3.8 U	0.39 J	4.0 U
Endrin-Aldehyde	3.3	3.7 U	3.8 U	3.8 U	3.6 U	4.0 U
alpha-Chlordane	1.7	1.9 U	2.0 U	2.0 U	1.8 U	R
gamma-Chlordane	1.7	1.9 U	2.0 U	2.0 U	1.8 U	2.1 U
Toxaphene	170.0	190 U	200 U	200 U	180 U	210 U
Aroclor 1016	33.0	37 U	38 U	38 U	36 U	40 U
Aroclor 1221	67.0	76 U	77 U	77 U	73 U	81 U
Aroclor 1232	33.0	37 U	38 U	38 U	36 U	40 U
Aroclor 1242	33.0	37 U	38 U	38 U	36 U	40 U
Aroclor 1248	33.0	37 U	38 U	38 U	36 U	40 U
Aroclor 1254	33.0	37 U	38 U	38 U	36 U	40 U
Aroclor 1260	33.0	37 U	38 U	38 U	36 U	40 U
Dilution Factor:		1	1	1	1	1
Date Sampled:		04/14/94	04/14/94	04/14/94	04/14/94	04/14/94
Date Extracted:		04/19/94	04/19/94	04/19/94	04/19/94	04/19/94
Date Analyzed:		04/25/94	04/29/94	04/26/94	04/26/94	04/25/94
% MOISTURE:		12	14	14	9	18

TABLE 4h

Soil Analytical Results
April 1994 (cont.)

Semivolatile Soil Anlysis, (ug/Kg)

SITE: COLUMBIA MAGNETICS
CASE: 21690 SDG NO.: AGH69

SAMPLE NUMBER:		AGH69	AGH70	AGH71	AGH72	AGH73
SAMPLE LOCATION:		SS-01	SS-02	SS-03	SS-04	SS-05
LABORATORY NUMBER:		606929	606930	606931	606932	606933
COMPOUND	CRQL					
Phenol	330	380 U	380 U	380 U	360 U	400 U
bis(2-Chloroethyl) ether	330	380 U	380 U	380 U	360 U	400 U
2-Chlorophenol	330	380 U	380 U	380 U	360 U	400 U
1,3-Dichlorobenzene	330	380 U	380 U	380 U	360 U	400 U
1,4-Dichlorobenzene	330	380 U	380 U	380 U	360 U	400 U
1,2-Dichlorobenzene	330	380 U	380 U	380 U	360 U	400 U
2-Methylphenol	330	380 U	380 U	380 U	360 U	400 U
2,2'-oxybis(1-Chloropropane)	330	380 UJ	380 UJ	380 UJ	360 UJ	400 UJ
4-Methylphenol	330	380 U	380 U	380 U	360 U	400 U
N-Nitroso-di-n-propylamine	330	380 U	380 U	380 U	360 U	400 U
Hexachloroethane	330	380 U	380 U	380 U	360 U	400 U
Nitrobenzene	330	380 U	380 U	380 U	360 U	400 U
Isophorone	330	380 U	380 U	380 U	360 U	400 U
2-Nitrophenol	330	380 U	380 U	380 U	360 U	400 U
2,4-Dimethylphenol	330	380 U	380 U	380 U	360 U	400 U
bis(2-Chloroethoxy)methane	330	380 U	380 U	380 U	360 U	400 U
2,4-Dichlorophenol	330	380 U	380 U	380 U	360 U	400 U
1,2,4-Trichlorobenzene	330	380 U	380 U	380 U	360 U	400 U
Naphthalene	330	380 U	380 U	40 J	360 U	400 U
4-Chloroaniline	330	380 UJ	380 UJ	380 UJ	360 UJ	400 UJ
Hexachlorobutadiene	330	380 U	380 U	380 U	360 U	400 U
4-Chloro-3-Methylphenol	330	380 U	380 U	380 U	360 U	400 U
2-Methylnaphthalene	330	380 U	380 U	380 U	360 U	400 U
Hexachlorocyclopentadiene	330	380 U	380 U	380 U	360 U	400 U
2,4,6-Trichlorophenol	330	380 U	380 U	380 U	360 U	400 U
2,4,5-Trichlorophenol	800	910 U	930 U	930 U	880 U	980 U
2-Chloronaphthalene	330	380 U	380 U	380 U	360 U	400 U
2-Nitroaniline	800	910 U	930 U	930 U	880 U	980 U
Dimethylphthalate	330	380 U	380 U	380 U	360 U	400 U
Acenaphthylene	330	380 U	380 U	380 U	360 U	400 U
2,6-Dinitrotoluene	330	380 U	380 U	380 U	360 U	400 U
3-Nitroaniline	800	910 U	930 U	930 U	880 U	980 U
Acenaphthene	330	380 U	380 U	96 J	360 U	400 U
2,4-Dinitrophenol	800	910 U	930 U	930 U	880 U	980 U
4-Nitrophenol	800	910 U	930 U	930 U	880 U	980 U
Dibenzofuran	330	380 U	380 U	82 J	360 U	400 U
2,4-Dinitrotoluene	330	380 U	380 U	380 U	360 U	400 U
Diethylphthalate	330	380 U	380 U	380 U	360 U	400 U
4-Chlorophenyl-Phenylether	330	380 U	380 U	380 U	360 U	400 U
Fluorene	330	380 U	380 U	96 J	360 U	400 U
4-Nitroaniline	800	910 U	930 U	930 U	880 U	980 U
4,6-Dinitro-2-Methylphenol	800	910 U	930 U	930 U	880 U	980 U
N-nitrosodiphenylamine	330	380 U	380 U	380 U	360 U	400 U
4-Bromophenyl-Phenylether	330	380 U	380 U	380 U	360 U	400 U
Hexachlorobenzene	330	380 U	380 U	380 U	360 U	400 U
Pentachlorophenol	800	910 U	930 U	930 U	880 U	980 U
Phenanthrene	330	380 U	380 U	750	100 J	65 J
Anthracene	330	380 U	380 U	130 J	360 U	400 U
Carbazole	330	380 U	380 U	120 J	360 U	400 U
Di-n-butylphthalate	330	380 U	380 U	380 U	360 U	400 U
Fluoranthene	330	380 U	380 U	950	220 J	150 J
Pyrene	330	R	R	980 J	180 J	150 J
Butylbenzylphthalate	330	380 U	380 U	380 U	360 U	400 U
3,3'-Dichlorobenzidine	330	380 U	380 U	380 U	360 U	400 U
Benzo(a)anthracene	330	380 U	380 U	740	120 J	67 J
Chrysene	330	380 U	380 U	800	130 J	92 J
Bis(2-ethylhexyl)phthalate	330	380 U	380 U	380 U	360 U	400 U
Di-n-octylphthalate	330	380 U	380 U	380 U	360 U	400 U
Benzo(b)fluoranthene	330	380 U	380 U	650 #	150 J #	120 J #
Benzo(k)fluoranthene	330	380 U	380 U	800 #	170 J #	140 J #
Benzo(a)pyrene	330	380 U	380 U	690	93 J	65 J
Indeno(1,2,3-cd)pyrene	330	380 U	380 U	530 J	82 J	43 J
Dibenz(a,h)anthracene	330	380 U	380 U	73 J	360 U	400 U
Benzo(g,h,i)perylene	330	380 U	380 U	99 J	360 U	400 U
DILUTION FACTOR:		1.0	1.0	1.0	1.0	1.0
DATE SAMPLED:		04/14/94	04/14/94	04/14/94	04/14/94	04/14/94
DATE EXTRACTED:		04/18/94	04/18/94	04/18/94	04/18/94	04/18/94
DATE ANALYZED:		04/23/94	04/22/94	04/22/94	04/23/94	04/23/94
% SOLID:		12	14	14	9	16

= Indistinguishable coeluting isomers.

TABLE 4h

Soil Analytical Results Semivolatile Soil Anlysis, (ug/Kg)
April 1994 (cont.)

SITE: COLUMBIA MAGNETICS
CASE: 21890 SDG NO.: AGH59

SAMPLE NUMBER:		AGH74	AGH75	AGH76	AGH77	AGH78
SAMPLE LOCATION:		SD-01	SD-02	SD-03	SD-04	SD-05
LABORATORY NUMBER:		606934	606935	606936	606937	606938
COMPOUND	CRQL					
Phenol	330	800 U	820 U	R	850 U	R
bis(2-Chloroethyl) ether	330	800 U	820 U	R	850 U	R
2-Chlorophenol	330	800 U	820 U	R	850 U	R
1,3-Dichlorobenzene	330	800 U	820 U	R	850 U	R
1,4-Dichlorobenzene	330	800 U	820 U	R	850 U	R
1,2-Dichlorobenzene	330	800 U	820 U	R	850 U	R
2-Methylphenol	330	800 U	820 U	R	850 U	R
2,2'-oxybis(1-Chloropropane)	330	800 UJ	820 UJ	R	850 UJ	R
4-Methylphenol	330	800 U	820 U	R	850 U	R
N-Nitroso-di-n-propylamine	330	800 U	820 U	R	850 U	R
Hexachloroethane	330	800 U	820 U	R	850 U	R
Nitrobenzene	330	800 U	820 U	R	850 U	R
Isophorone	330	800 U	820 U	R	850 U	R
2-Nitrophenol	330	800 U	820 U	R	850 U	R
2,4-Dimethylphenol	330	800 U	820 U	R	850 U	R
bis(2-Chloroethoxy)methane	330	800 U	820 U	R	850 U	R
2,4-Dichlorophenol	330	800 U	820 U	R	850 U	R
1,2,4-Trichlorobenzene	330	800 U	820 U	R	850 U	R
Naphthalene	330	800 U	820 U	R	850 U	R
4-Chloroaniline	330	800 UJ	820 UJ	R	850 UJ	R
Hexachlorobutadiene	330	800 U	820 U	R	850 U	R
4-Chloro-3-Methylphenol	330	800 U	820 U	R	850 U	R
2-Methylnaphthalene	330	800 U	820 U	R	850 U	R
Hexachlorocyclopentadiene	330	800 U	820 U	R	850 U	R
2,4,6-Trichlorophenol	330	800 U	820 U	R	850 U	R
2,4,5-Trichlorophenol	800	2000 U	1500 U	R	2100 U	R
2-Chloronaphthalene	330	800 U	820 U	R	850 U	R
2-Nitroaniline	800	2000 U	1500 U	R	2100 U	R
Dimethylphthalate	330	800 U	820 U	R	850 U	R
Acenaphthylene	330	800 U	820 U	R	430 J	R
2,6-Dinitrotoluene	330	800 U	820 U	R	850 U	R
3-Nitroaniline	800	2000 U	1500 U	R	2100 U	R
Acenaphthene	330	800 U	820 U	R	850 U	R
2,4-Dinitrophenol	800	2000 U	1500 U	R	2100 U	R
4-Nitrophenol	800	2000 U	1500 U	R	2100 U	R
Dibenzofuran	330	800 U	820 U	R	850 U	R
2,4-Dinitrotoluene	330	800 U	820 U	R	850 U	R
Diethylphthalate	330	800 U	820 U	R	850 U	R
4-Chlorophenyl-Phenylether	330	800 U	820 U	R	850 U	R
Fluorene	330	800 U	820 U	R	[illegible]	R
4-Nitroaniline	800	2000 U	1500 U	R	2100 U	R
4,6-Dinitro-2-Methylphenol	800	2000 U	1500 U	R	2100 U	R
N-nitrosodiphenylamine	330	800 U	820 U	R	850 U	R
4-Bromophenyl-Phenylether	330	800 U	820 U	R	850 U	R
Hexachlorobenzene	330	800 U	820 U	R	850 U	R
Pentachlorophenol	800	2000 U	1500 U	R	2100 U	R
Phenanthrene	330	800 U	100 J	560 J	1400	710 J
Anthracene	330	800 U	820 U	R	[illegible]	R
Carbazole	330	800 U	820 U	R	[illegible]	R
Di-n-butylphthalate	330	800 U	820 U	R	850 U	R
Fluoranthene	330	800 U	230 J	1000 J	2100	1600 J
Pyrene	330	R	180 J	790 J	2500 J	1600 J
Butylbenzylphthalate	330	800 U	820 U	R	850 U	R
3,3'-Dichlorobenzidine	330	800 U	820 U	R	850 U	R
Benzo(a)anthracene	330	800 U	100 J	550 J	2200	910 J
Chrysene	330	800 U	120 J	570 J	2200	1300 J
Bis(2-ethylhexyl)phthalate	330	800 U	820 U	1300 U	850 U	R
Di-n-octylphthalate	330	800 U	820 U	R	850 U	R
Benzo(b)fluoranthene	330	800 U	180 J #	800 J #	3100	2000 J
Benzo(k)fluoranthene	330	800 U	220 J #	940 J #	3600	2300 J
Benzo(a)pyrene	330	800 U	110 J	470 J	1700	1000 J
Indeno(1,2,3-cd)pyrene	330	800 U	820 U	180 J	690 J	530 J
Dibenz(a,h)anthracene	330	800 U	820 U	R	170 J	160 J
Benzo(g,h,i)perylene	330	800 U	820 U	130 J	390 J	460 J
DILUTION FACTOR:		1.0	1.0	1.0	1.0	1.0
DATE SAMPLED:		04/14/94	04/14/94	04/14/94	04/14/94	04/14/94
DATE EXTRACTED:		04/18/94	04/18/94	04/18/94	04/18/94	04/18/94
DATE ANALYZED:		04/23/94	04/23/94	04/22/94	04/22/94	04/22/94
% SOLID:		59	47	74	61	75

= indistinguishable coeluting isomers.

TABLE 4h

Soil Analytical Results
April 1994 (cont.)

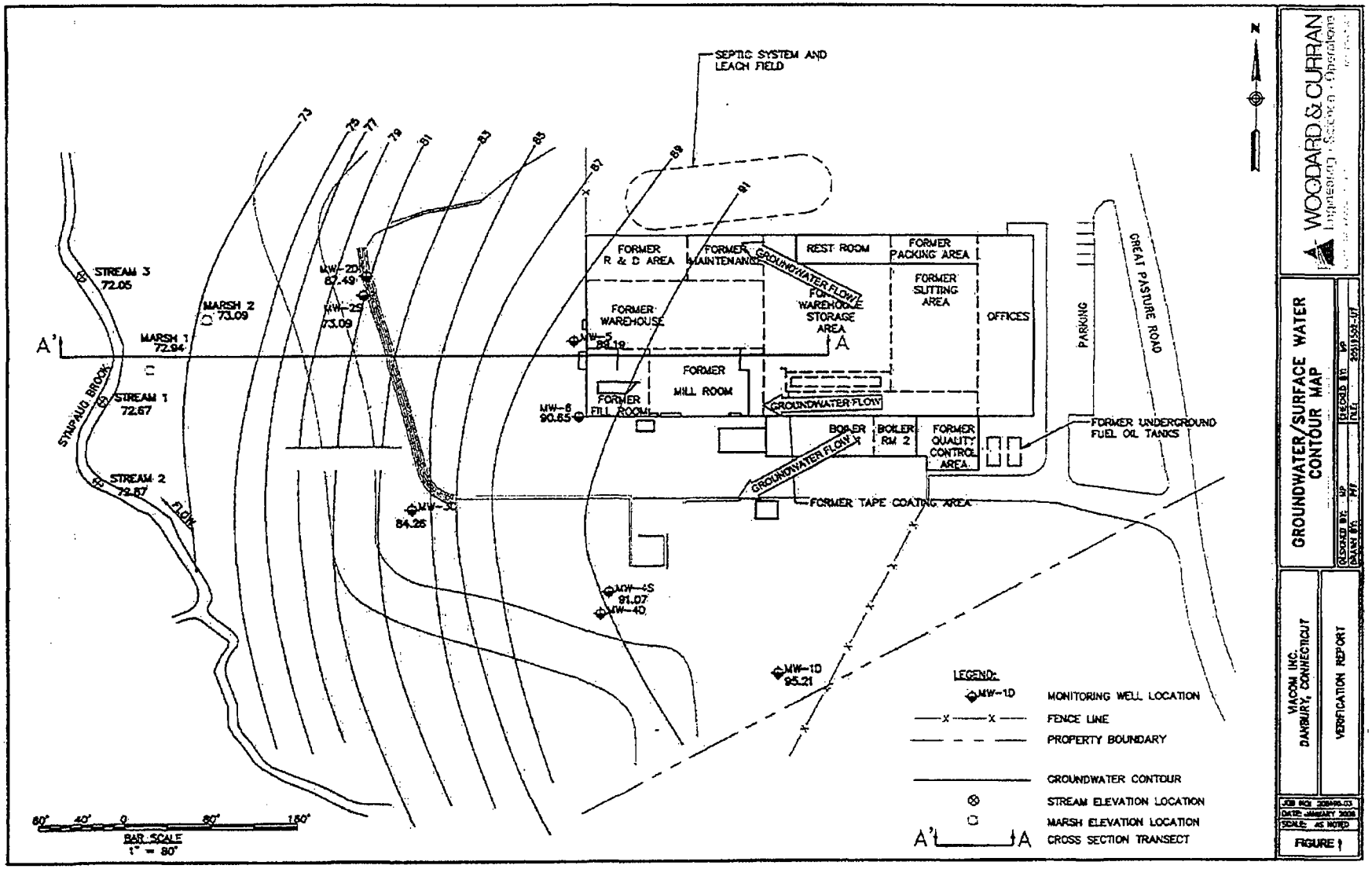
Volatile Soil Analysis, (ug/Kg)

SITE: COLUMBIA MAGNETICS

CASE: 21690 SDG: AGH69

SAMPLE NUMBER:		AGH69	AGH70	AGH71	AGH72	AGH73
SAMPLE LOCATION:		SS-01	SS-02	SS-03	SS-04	SS-05
LABORATORY NUMBER:		606929	606930	606931	606932	606933
COMPOUND	CRQL					
Chloromethane	10	11 U	12 U	12 U	11 U	12 U
Bromomethane	10	11 U	12 U	12 U	11 U	12 U
Vinyl Chloride	10	11 U	12 U	12 U	11 U	12 U
Chloroethane	10	11 U	12 U	12 U	11 U	12 U
Methylene Chloride	10	37 U	44 U	30 U	54 U	31 U
Acetone	10	11 U	12 U	12 U	11 U	12 U
Carbon Disulfide	10	11 U	12 U	12 U	11 U	12 U
1,1-Dichloroethene	10	11 U	12 U	12 U	11 U	12 U
1,1-Dichloroethane	10	11 U	12 U	12 U	11 U	12 U
1,2-Dichloroethene (Total)	10	11 U	12 U	12 U	11 U	12 U
Chloroform	10	11 U	12 U	12 U	11 U	12 U
1,2-Dichloroethane	10	11 U	12 U	12 U	11 U	12 U
2-Butanone	10	11 U	12 U	12 U	11 U	12 U
1,1,1-Trichloroethane	10	11 U	12 U	12 U	11 U	12 U
Carbon Tetrachloride	10	11 U	12 U	12 U	11 U	12 U
Bromodichloromethane	10	11 U	12 U	12 U	11 U	12 U
1,2-Dichloropropane	10	11 U	12 U	12 U	11 U	12 U
cis-1,3-Dichloropropene	10	11 U	12 U	12 U	11 U	12 U
Trichloroethene	10	11 U	12 U	12 U	11 U	12 U
Dibromochloromethane	10	11 U	12 U	12 U	11 U	12 U
1,1,2-Trichloroethane	10	11 U	12 U	12 U	11 U	12 U
Benzene	10	11 U	12 U	12 U	11 U	12 U
trans-1,3-Dichloropropene	10	11 U	12 U	12 U	11 U	12 U
Bromoform	10	11 U	12 U	12 U	11 U	12 U
4-Methyl-2-pentanone	10	11 U	12 U	12 U	11 U	12 U
2-Hexanone	10	11 U	12 U	12 U	11 U	12 U
Tetrachloroethene	10	11 U	12 U	12 U	11 U	12 U
1,1,2,2-Tetrachloroethane	10	11 U	12 U	12 U	11 U	12 U
Toluene	10	11 U	12 U	12 U	11 U	12 U
Chlorobenzene	10	11 U	12 U	12 U	11 U	12 U
Ethylbenzene	10	11 U	12 U	12 U	11 U	12 U
Styrene	10	11 U	12 U	12 U	11 U	12 U
Xylene (total)	10	11 U	12 U	12 U	11 U	12 U
DILUTION FACTOR:		1.0	1.0	1.0	1.0	1.0
DATE SAMPLED:		04/14/94	04/14/94	04/14/94	04/14/94	04/14/94
DATE ANALYZED:		04/21/94	04/21/94	04/21/94	04/21/94	04/21/94
% MOISTURE:		12	14	14	9	16

* = Result reported from 1 gram analysis



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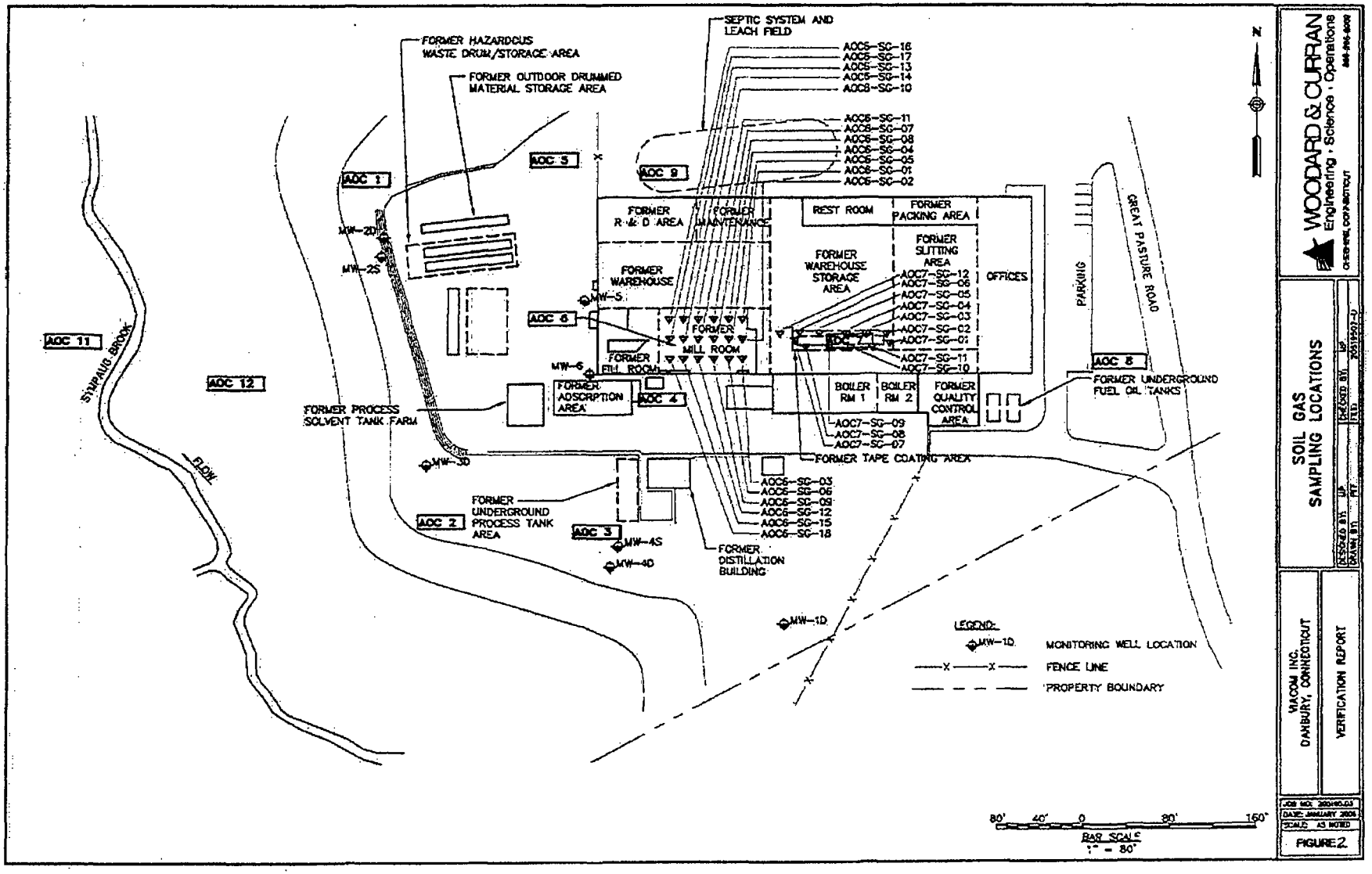
GROUNDWATER/SURFACE WATER CONTOUR MAP

VIACOM INC.
DANBURY, CONNECTICUT

VERIFICATION REPORT

JOB NO. 205490.03
DATE: JANUARY 2008
SCALE: AS NOTED

FIGURE 1



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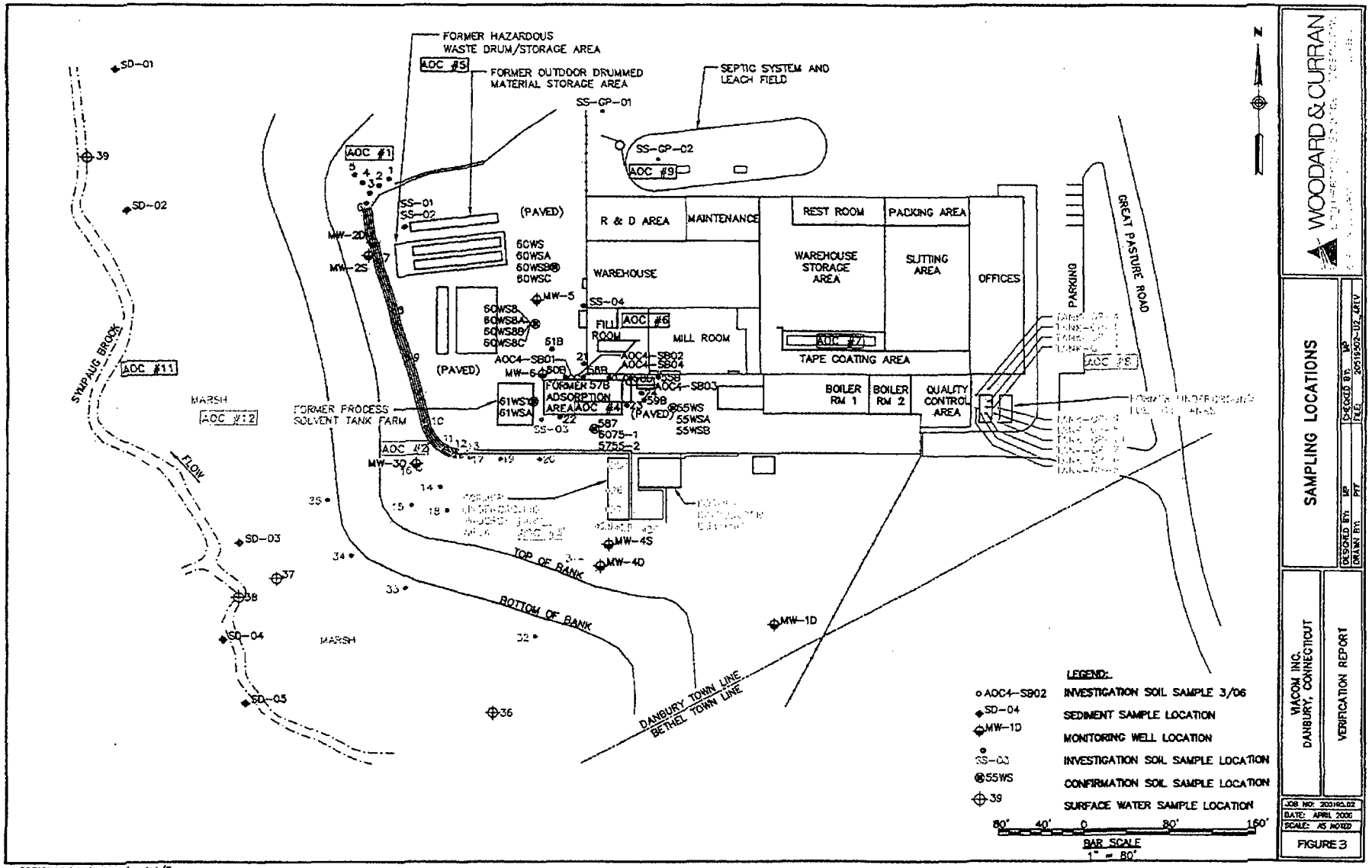
SOIL GAS SAMPLING LOCATIONS

VIACOM INC.
DANBURY, CONNECTICUT

VERIFICATION REPORT

JOB NO: 350490.03
DATE: JANUARY 2006
SCALE: AS NOTED

FIGURE 2



WOODARD & CURRAN

SAMPLING LOCATIONS

DESIGNED BY: MP
DRAWN BY: PYT
CHECKED BY: MP
FILE: 20519502-02_ARTV

WACOM INC.
DANBURY, CONNECTICUT

VERIFICATION REPORT

JOB NO: 20519502
DATE: APRIL 2006
SCALE: AS NOTED

FIGURE 3

20519502/wip/verification tpt/fig