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DATE: February 15, 2007

TO: Terrence Johnson, EPA Work Assignment Manager

THROUGH: Parry Bhambra, REAC Operations Section Leader

FROM: Ken Woodruff, REAC Task Leader

SUBJECT: VESTAL CHLORINATED HYDROCARBON SOURCE ASSESSMENT/REMEDY SITE, VESTAL, NEW YORK, WORK ASSIGNMENT # 0-198, TRIP REPORT - SOIL AND GROUNDWATER SAMPLING

PURPOSE

The purpose of this investigation was to (1) collect soil and groundwater samples for analysis of volatile organic compounds (VOCs) beneath and adjacent to the site building at the Vestal Chlorinated Hydrocarbon Source Assessment/Remedy (Vestal Hydrocarbon) site, (2) determine from the sampling results if a continuing source of VOC contamination existed beneath or adjacent to the site building, and (3) relate the results to the performance of the existing on-site soil vapor extraction (SVE) system. The sample locations in this mobilization were initially based upon analytical results from soil gas sampling completed in May 2006 and periodic soil sampling by Sevenson Environmental Services™ (Sevenson) to evaluate the effectiveness of the existing SVE system. All work was carried out by personnel of the Lockheed Martin Response Engineering and Analytical Contract (REAC) under the direction of the Environmental Protection Agency/Environmental Response Team (EPA/ERT).

BACKGROUND

The Vestal Hydrocarbon site is located at 200 Stage Road in the Town of Vestal, New York (NY). The site consists of a large one-story building, with an area covering approximately 60,000 square feet, an adjacent parking lot and surrounding open space (Figure 1). The building was last used for circuit board manufacturing but operations ceased in May 2002. Except for the plant manager's office, the building is presently abandoned, and all manufacturing equipment has been sold.

Between 1988 and 2005, a number of investigations were conducted to characterize the site, delineate the extent of VOC contamination in soil and groundwater, and construct and operate a SVE system. Remedial studies were completed in 1988 and again in 1992 by Ebasco Services, Inc.™ (Ebasco) under the direction of the U.S. Army Corps of Engineers, (USACE) contractors to the EPA. In 2001, pre-remediation soil samples were collected by Sevenson to determine design parameters for the SVE system. Prior to the present investigation, borings to approximately 20 feet below ground surface (bgs) indicated the site is underlain by silty sands with some gravel. These sediments appeared to be either glacial fluvial deposits or more recent alluvial deposits of the Susquehanna River. Reported water level measurements of approximately 16 to 20 feet bgs, may represent the piezometric surface of a semi-confined unit underlying the surficial fine-grained sediments.

Following the construction of the SVE system in 2003, a limited number of soil samples were collected by other contractors in February, September and October of 2005 to evaluate the performance of the system. Analytical results indicated that VOC concentrations in soils still remained high within areas of the site, although the yield rate of the SVE system appears to be have dropped during its operation. The SVE system, although in place, is presently not operating

but has recovered more than 2,000 pounds of VOCs.

Prior to the May 2006 ERT/REAC soil gas sampling event, all of the site work had taken place outside of the site building. No investigations had taken place inside or beneath the building subslab. However, the analytical results of the soil gas sampling (Lockheed Martin/REAC, 2006) suggested that VOC sources could be present beneath the building and that residual sources also existed in at least one location beneath the parking area on the south side of the building. The immediate goal of the present investigation was to delineate the extent of these VOC sources using the previous soil gas analytical results as a basis for further soil and groundwater sampling efforts.

METHODS

Soil Sampling

Soil sampling was completed at the site from August 2, 2006, through September 8, 2006. The ERT/REAC Geoprobe™ was used to collect continuous five-foot long soil cores to depths of 20 to 25 feet at all sampling locations outside of the building (Figures 1 and 2) and at locations SB-001 through SB-004, SB-0012a and SB-0015 inside the building (Figure 3). Because of access problems, however, it was necessary to procure a sub-contractor with a smaller machine to core at locations SB-012a and SB-015. Coring was also attempted at three other locations inside the building near SB-001 and SB-012 but it was not possible with the smaller equipment to penetrate a gravel layer beneath the concrete floor. Note that two boring locations are designated "SB-012" and "SB-012a" respectively. Initially, a boring completed by the sub-contractor and a boring completed on the outside of the building by REAC were both inadvertently designated as "MW-012". The "a" designation was subsequently used for the boring advanced inside the building. This allowed the correct location number to be retained for subsequent boring samples that had already been assigned sample numbers and submitted for analysis.

Soil cores were collected in acetate sleeves from which a lengthwise strip was removed upon retrieval to expose the core. The core was then screened with an OVA™ flame-ionization detector (FID) and the physical properties described. Portions of the core with elevated FID readings were sampled for VOCs. If elevated FID readings were not obtained in a borehole, a soil sample was usually collected near the bottom of the borehole, to verify the absence of contamination. Samples were collected in 4-ounce glass jars using dedicated stainless steel spoons. All samples were returned to the REAC Laboratory in Edison, New Jersey (NJ) under chain-of-custody procedures for analysis.

Groundwater Sampling

Based upon the FID field screening results, six locations were selected for installation of temporary groundwater monitor wells to depths of approximately 30 feet bgs (Figure 4). Wells were constructed of one-inch diameter polyvinylchloride (PVC) riser pipe and five feet of # 10 slot screen that were installed through the Geoprobe rods. The rods were then withdrawn, exposing the screened section to the formation. Groundwater grab samples were later collected from each well into 40-milliliter (mL) glass vials using dedicated bailers. The wells were assigned an "MW" prefix followed by the sequential number of the soil boring previously advanced at the same location. All wells were abandoned before leaving the site by pulling the screen and riser pipe and filling each hole with cuttings and/or cement grout.

In addition to the ERT/REAC wells, five older permanent monitor wells, installed by other contractors, were sampled using dedicated bailers. No number designations were available for the older wells and, except for the initial well sampled ("Old MW)", the wells were temporarily assigned letter designations as indicated on Figure 4. Two other older wells (MW-D, MW-E) were also accessed but were found to be dry. Well construction data for both the temporary and older permanent monitor wells (where known) are provided in Table 1.

Record Collection

During this mobilization, REAC staff visited the Town of Vestal Engineering Office and obtained copies of the 1976 as-built drawings for the public sewer that serviced the site building and the 1980 plans for the most recent building expansion as submitted by the previous owner, Chanago Industries. Prior to 1976, building sanitary waste was disposed

in an on-site septic system. These drawings are presently being studied to identify contamination pathways from the building to the underlying soils. The abandoned septic system leach field is a suspected source but does not appear to be shown on the drawings.

RESULTS

Lithology

Descriptive logs of the soil cores and results of the FID screening can be found in Appendix A. The general lithology of sediments underlying the site is fairly consistent. Excluding a thin gravel fill beneath the building subslab, the upper 15 to 20 feet of sediment is river alluvium consisting of uniform, well-sorted silt to clayey silt with lenses of well-sorted very fine sand. These fine-grained sediments are underlain by very coarse poorly sorted sandy gravels. The gravels are probably of Recent age but because of limited borehole penetration, both their thickness and origin are uncertain. South of the building, near the south edge of the parking area, cores from borings SB-042, SB-043, SB-044, SB-047, and SB-054 (Figure 2) indicate a transition of the brown silt and fine sand unit to a gray clay that occasionally contains some plant fragments or organic material. This suggests that the sediments underlying the south end of the parking lot represent overbank environments or relatively quiet water deposition.

Coring and water-level measurements (Table 1) indicated that the water-table at the time of the investigation was within the upper fine-grained sediments at depths ranging from approximately 13 to 15 feet bgs. These sediments probably act as a semi-confining leaky unit to the underlying saturated gravels encountered in most holes at approximately 20 feet bgs.

Soil Analytical Results

The analytical results of the soil sampling are provided in Table 2, which lists the most commonly detected VOCs. Compounds found in only a few samples are not shown in Table 2 but can be found in the Final Analytical Report, provided here as Appendix B. Note that VOC concentrations in Table 2 are given in micrograms/kilogram (µg/kg) but for clarity, the soil VOC values on all figures are given in milligrams/kg (mg/kg).

Analytical results indicate that two areas of elevated VOC concentrations are present on the south side of the site building as shown on Figures 5 and 6. These areas were originally identified in the field by the FID core screening results. FID core screening values in the central portion of both areas exceeded 1000 parts per million (ppm) and were usually associated with strong solvent odors. The two areas of high soil VOCs generally correspond to those mapped earlier by Envirogen (2002) in an investigation completed for the USACE. Work by Sevenson (2005a,b) also verified the presence of a residual contaminated zone near the southwest portion of the building but did not appear to address the second zone on the southeast side of the building.

In the present investigation, the VOCs 1,1,1-trichloroethane (1,1,1-TCA) and trichloroethylene (TCE) were most prevalent and exhibited the highest concentrations. The compound 1,1,1-TCA was found in all but four samples representing three sampling locations (SB-050, SB-053, SB-054) and TCE was present in samples from all but four locations based on the detection limits indicated in Table 2. Detection of lower levels of TCE and other compounds was limited in most cases by the high detection limits necessary in the analytical procedure to quantify the unusually high values of VOCs present.

Acetone, and the break-down products 1,1-dichloroethene (1,1-DCE), and 1,1-dichloroethane (1,1-DCA) were common secondary compounds (Table 2) but their complete spatial distribution is not entirely defined because of the high detection limits. Gasoline compounds, particularly p&m-Xylene, were also found in many samples.

In nearly all borings, the highest concentrations of VOCs occur in the 15 to 20 foot depth range (Figures 5 and 6). Moreover, observations of staining patterns on cores suggests that the contaminants in many instances may have migrated within the silty matrix along lenses of more permeable very fine sand. The contact between the upper fine-grained sediments and the underlying gravels appears to be the lower depth limit of significant soil contamination.

Concentrations of all compounds decrease by orders of magnitude in the underlying saturated gravels because of dilution, high intergranular porosity, and low adsorptive capacity of the unit.

Eastern Area

The bulk of contamination in the eastern area consists mostly of 1,1,1-TCA with secondary amounts of 1,1-DCE and TCE. Other compounds such as cis-1,2-dichloroethene (cis-1,2-DCE) are generally absent at the detection limits indicated on Table 2. Significant levels of 1,1,1-TCA in the mg/kg (ppm) range occur in a narrow band extending southeast from approximately SB-005 to SB-044 (Figure 7). The highest level of contamination is centered around soil boring SB-030 (Figures 5 and 6) where the 1,1,1-TCA concentration is nearly 22,000 mg/kg at 16 feet bgs, or more than two percent (%) of soil mass. Likewise, the 1,1-DCE concentration (62.6 mg/kg) at 16 feet bgs is the highest for the area and the TCE concentration (12.1 mg/kg) is the second highest (Figures 8 and 9 respectively). The extremely high VOC contamination (in the thousands of ppm range) appears to be limited to an area approximately 20 feet long by less than 10 feet wide between SB-028 and SB-030 (Figure 6). Secondary areas of contamination with total VOC concentrations in the 1,000 to 4,000 mg/kg range occur to the southeast centered on soil borings SB-041, SB-044, and SB-045 (Figure 6).

The recommended New York State Department of Environmental Conservation (NYSDEC) soil cleanup criteria (1994) for 1,1,1-TCA to protect groundwater is 0.76 ppm. The area that encompasses soils with this concentration or greater is approximately 75 feet by 80 feet and is shown on Figure 7.

Western Area

The highest contamination in the western area is centered around soil borings SB-009, SB-022, and SB-023 where the highest total VOC concentrations are 26,200 mg/kg, 11,100 mg/kg, and 36,600 mg/kg respectively (up to 3.6 % of soil mass) within the 15 to 17 foot depth interval (Figures 5 and 6). The VOCs consist mainly of 1,1,1-TCA at concentrations of 19,000 mg/kg; 9,550 mg/kg; and 23,600 mg/kg respectively with TCE accounting for most of the remaining VOC mass (Figure 9, Table 2). Lower concentrations of 1,1-DCE and toluene in the low ppm range are also present. The area of highly elevated VOCs (in the thousands of ppm range) is approximately 25 feet by 20 feet. However, the area where concentrations of 1,1,1-TCA exceed the NYSDEC soil cleanup objective is approximately 75 by 35 feet.

Building Interior

Because of access limitations, it was only possible to install six soil borings inside the building (Figure 10). Nevertheless, the concentrations of VOCs in the soils generally correlated to the magnitude of soil gas concentrations measured in the previous site visit (Figure 3). The highest total VOC concentration was 243 mg/kg (Figure 11), of which 83.6 mg/kg was 1,1,1-TCA (Figure 12), occurred in soil boring SB-012a at 16 feet bgs. The highest concentration of 1,1-DCE found inside the building was 5.82 but it was below the method detection limit (Figure 13). The TCE concentration in boring SB-012a was likewise the highest detected inside the building at 108 mg/kg (Figure 14). Toluene and p&m-xylene were also relatively elevated at concentrations of 18 mg/kg and 15.5 mg/kg, respectively (Table 2). The compound cis-1,2-DCE was found at relatively low values in boring SB-012a with the maximum concentration slightly exceeding 1 mg/kg at 16 feet bgs. The signature of the contaminant is similar to that in the eastern area outside the building; i.e. TCA and TCE are the dominant contaminants.

In soil boring SB-004 (Figure 10), the highest VOC concentrations were found near the top of the hole in the five-foot depth sample (Table 2). For instance, the TCE concentration at five feet bgs was 1.01 mg/kg but decreased by two orders of magnitude in deeper samples. All of the other compounds (except 1,1,1-TCA) with detectable concentrations at five feet bgs, including cis-1,2-DCE; 1,1-DCE; 1,1-DCA and toluene are absent below the five-foot depth sample. Soil boring SB-003 also shows the same depth distribution for TCE and cis-1,2-DCE concentrations except that initial contaminant levels are an order of magnitude lower than in soil boring SB-004. These depth patterns suggest that the VOC source was within the building rather than outside. The zone of contamination also appeared to be approximately five feet above the water table at the time of sampling (see Table 1), further indicating that the contamination had probably not migrated beneath the building via the groundwater system. NYSDEC soil cleanup objectives are not

presented within the building because it is not certain that the limits of concentration have been completely defined.

Groundwater Analytical Results

The groundwater analytical results are provided in Table 3 and sampling locations are indicated on Figure 4. All of the wells were screened in the upper five feet of the gravel unit, just below the contact with the overlying silts. Of the 11 wells sampled, 1,1,1-TCA and TCE were found in all but monitor wells MW-A and MW-B. The compound 1,1-DCE was found in all monitor wells except MW43/44, MW-B, MW-F, and MW-G. The sample from Monitor Well MW-009 (Figure 2) contained the highest concentrations of 1,1,1-TCA and TCE at 1,640 milligrams/liter (mg/L) and 354 mg/L respectively. Significant concentrations of both 1,1-DCE (103 mg/L) and 1,1-DCA (30.2 J mg/L) were also present. The sample from Monitor Well MW-020, in the same area as MW-009 also contained 126 mg/L of 1,1,1-TCA and lower levels of 1,1-DCE (6.31 mg/L), 1,1-DCA (1.53J mg/L), cis-1,2-DCE (2.49J mg/L) and TCE (2.49J mg/L).

In the eastern area , the samples from monitor well MW-005 and MW-007 contained mainly 1,1,1-TCA at 75.8 and 22.1J mg/L respectively. Low levels of acetone and 1,1-DCE were found in the sample from Monitor Well MW-005 but not in MW-007. Inside the building (Figure 14), the sample from Monitor Well MW-001 contained 17.2 mg/L of TCE, 9.70 mg/L of 1,1,1-TCA and 6.86 mg/L of 1,1-DCE. In general, the groundwater analytical results were compatible with the soil sampling results that had previously suggested a possible sub-slab source of VOCs.

CONCLUSIONS

It is apparent that high levels of VOC soil contamination remain at the site despite the installation of the SVE system. As indicated earlier however, the yield of the SVE system appears to have steadily decreased while the system was in operation and Sevenson (2005c) noted that SVE extraction wells in areas with high VOC soil concentrations showed low yield rates. A careful look at the soil cores suggests that at specific locations, seemingly small differences in lithology, and therefore in permeability, may be critical to the efficiency of the SVE system. Staining on cores and closely spaced FID readings suggest that, in some cases, the VOCs have preferentially migrated into and along thin interbedded sands (where present) within the upper fine-grained unit. As discussed above, coring results also suggest that the soils become increasingly clayey towards the southern portion of the parking area on the south side of the building. The generally fine-grained nature of the upper 20 feet of soil, and the probable lack of continuity among the thin sand lenses, appear to limit the effectiveness of the SVE system.

Soil contamination outside of the building appears greatest in the 15 to 20 foot bgs depth range but drops off sharply in the underlying gravels. Moreover, the results of the monitor well sampling indicates that the shallow groundwater also contains high levels of VOCs. The occurrence of VOC concentrations in the thousands of ppm range in soils of the shallow fine-grained unit strongly suggests it is at least one source for the VOCs in the groundwater. The contribution from off-site areas or other nearby on-site areas was not investigated in this study.

The extent of contamination beneath the site building and its relation to exterior sources could not be well defined during this mobilization because of access problems and therefore additional investigations beneath the building may be warranted. Further work may involve, in preferred order (1) the use of a small portable soil boring equipment, (2) angle drilling to inaccessible subsurface locations within the building from either interior or exterior locations that are accessible to boring equipment, and (3) removal of partitions or other restrictions that limit rig access. However this last option may only be partially successful because overhead utilities that are vital to the integrity of the building, such as fire prevention and heating/cooling systems, further limit rig access. Additional soil sampling to confirm the absence of contamination is also recommended on the north side of the building (two to four locations) and just to the west of borings SB-011 and SB-027 on the southwest side of the building (two to four locations).

To effectively remediate the areas of high soil VOCs, an alternative to the existing SVE system appears necessary. Other options are presently being evaluated by REAC Engineering Group personnel and will be discussed in a subsequent report.

FUTURE ACTIVITIES

Additional work at the site will include the assessment and possible implementation of remedial methods and possibly additional subslab borings and sampling as indicated on Figure 11.

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Cc: Central File - WA # EAC00198
Electronic File - I:/Archive/REAC4/00198/D/TR/020907
Dennis Miller, REAC Program Manager (cover page only)

TABLE 1
MONITOR WELL DATA
VESTAL CHLORINATED HYDROCARBON SOURCE ASSESSMENT/REMEDY SITE
VESTAL, NEW YORK

Well No.	Screen Interval (feet bgs)	Water Level (feet bgs)	Measured Depth (feet bgs)
MW-001	24 - 29	NA	29
MW-005	20 - 30	12.46	30
MW-007	25 - 30	14.20	30
MW-009	23 - 28	14.51	28
MW-020	23 - 28	13.80	28
MW-43/44	25 - 30	13.20	30
MW-A	UN	10.26	15.2
MW-B	UN	9.87	15.3
MW-C	UN	11.08	13.3
MW-D	UN	DRY	6.0
MW-E	UN	DRY	10.9
MW-F	UN	13.17	16.4
MW-G	UN	13.63	14.8

bgs = below ground surface
NA = not available
UN = unknown

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TABLE 2
VOCs IN SOIL (micrograms/kilogram)
VESTAL CHLORINATED HYDROCARBON SOURCE ASSESSMENT/REMEDY SITE
VESTAL, NEW YORK

Boring No.	Trichlorofluoro-methane	Acetone	1,1-DCE	Methylene Chloride	Carbon Disulfide	1,1-DCA	2-Butanone	cis-1,2- DCE	1,1,1-TCA	TCE	Toluene	PCE	p&m-Xylene	Naphthalene
SB-001, 0.8'	U	U	9.3	U	U	132	U	3.97 J	17.6	44.7 J	U	U	U	U
SB-001, 5'	U	9.99 J	1.75 J	U	U	3.81 J	U	528	403	627	3.05 J	7.24	U	U
SB-001, 10'	U	167	1.72 J	22.4	U	10.8	49.9	147	61.4	80.3	3.46 J	U	U	U
SB-001, 12'	24.9 J	117	233	145	U	55.4	31.3	767	76.3	234	67.4	U	7.54 J	U
SB-001, 15'	9.82	83	182	157	U	27.9	11.3	1,040	2,620	12,900 J	259 J	U	66.7	U
SB-001, 17.5'	49.2	37.4	466 J	42	U	12.2	U	719 J	5,190	4,230	313 J	U	57.5	U
SB-001, 20'	203	66	901	180	U	28.6	U	71.4	793	2,540	321 J	U	41.1	U
SB-001, 22.5'	225	110	693	186	U	34.3	8.29	177	2,550	5,110	634	U	106	U
SB-001, 24'	88.7	25.3	978 J	14.1	U	37.7	3.24 J	300	4,040	36,000	4,920	21	2,200	U
SB-001, 25'	93.2	26.1 J	510	U	3.9	82.2	U	629 J	768 J	2,190	383	6.2	66.7	U
SB-001, 25-30'	U	U	26	U	U	1.82 J	U	258	776	1,790	59.8	5.95 J	5.22 J	U
SB-001, 30'								10.2	93.9	185	4.58 J	U	U	U
SB-002, 5'	U	U	U	U	U	3.61 J	U	204	34.7	59.8 J	U	U	U	U
SB-002, 10'	U	U	U	U	U	3.00 J	U	204	106	112	U	U	U	U
SB-002, 10 dup	U	U	U	U	U	1.95 J	U	143	147	144	U	U	U	U
SB-002, 15'	U	U	1.56 J	U	U	13	U	537 J	94.4	162	U	U	U	U
SB-002, 20'	U	U	19.3	U	U	21.6	U	438	53.1	273	3.05 J	U	4.25 J	U
SB-003, 4.5'	U	U	U	U	U	U	U	13.9 J	67.3	114	U	U	U	U
SB-003, 10'	U	U	3.08 J	U	U	2.06 J	U	7.68	38.7	20	U	U	U	U
SB-003, 15'	U	U	114	U	U	21.7 J	U	8.7	73.1	72	1.71 J	U	U	U
SB-004, 5'	U	U	U	U	U	U	U	305	376	1,010	17.1 J	U	U	U
SB-004, 7.5'	U	U	U	U	U	U	U	U	34.9	51	U	U	U	U
SB-004, 10'	U	U	U	U	U	U	U	U	61.1	16.5 J	U	U	U	U
SB-004, 15'	U	U	U	U	U	U	U	U	156	66	U	U	U	U
SB-004, 20'	U	U	U	U	U	U	U	U	116	43	U	U	U	U
SB-005, 4'	U	24.3	U	U	U	U	U	U	162	97	U	U	U	U
SB-005, 10'	U	U	U	U	U	U	U	U	33.5	13.4 J	U	U	U	U
SB-005, 20'	U (3,050)	U (12,200)	1,320 J	U (3,050)	U (3,050)	U (3,050)	U (3,050)	U (3,050)	580,000 J	1,040 J	U (3,050)	U (3,050)	U (6,100)	U (3,050)
SB-005, 23'	U	U	U	U	U	U	U	U	179	70	U	U	U	U
SB-006, 4.5'	U	130	15.2 J	U	U	U	U	U	545	279	U	U	U	U
SB-007, 4.5'	U	140 J	34 J	U	U	41.2	U	U	527	287	U	U	U	U
SB-007, 20'	U	U	178 J	149 J	U	U	U	U	685	125 J	U	U	U	U
SB-008, 5'	U	120 J	65.2	U	U	36.2 J	U	19.9 J	579	406	U	U	U	U
SB-008, 7.5'	U	U	U	U	U	U	U	U	719	313	U	U	U	U
SB-008, 15'	U	U	145 J	167 J	U	80.5 J	U	U	3,860	U	U	U	U	U
SB-008, 20'	U (3,160)	1,860 J	3,210	U (3,160)	U (3,160)	1,180 J	U (3,160)	U (3,160)	93,200	3,360	U (3,160)	U (3,160)	U (6,330)	U (3,160)
SB-008, 25'	U	U	U	U	U	U	U	U	593 J	80.1 J	U	U	U	U

TABLE 2 (Continued)
VOCs IN SOIL (micrograms/kilogram)
VESTAL CHLORINATED HYDROCARBON SOURCE ASSESSMENT/REMEDY SITE
VESTAL, NEW YORK

Boring No.	Trichlorofluoromethane	Acetone	1,1-DCE	Methylene Chloride	Carbon Disulfide	1,1-DCA	2-Butanone	cis-1,2- DCE	1,1,1-TCA	TCE	Toluene	PCE	p&m-Xylene	Naphthalene
SB-009, 12.5'	U (12,200)	U (48,400)	U (12,200)	U (12,200)	U (12,200)	U (12,200)	U (12,200)	U (12,200)	136,000	86,200	U (12,200)	U (12,200)	U (24,400)	U (12,200)
SB-009, 14'	U (30,500)	U (122,000)	U (30,500)	U (30,500)	U (30,500)	U (30,500)	U (30,500)	U (30,500)	867,000	266,000	U (30,500)	U (30,500)	U (61,000)	U (30,500)
SB-009, 17'	U (30,900)	U (123,300)	19,300 J	U (30,900)	U (30,900)	U (30,900)	U (30,900)	U (30,900)	19,000,000	6,830,000	27,500 J	U (30,900)	U (61,700)	U (30,900)
SB-009, 18'	U	U	278	2,520	U	100	U	53.7	76.5	580,000	U	U	U	221
SB-009, 24.5	U	U	34.3	U	U	20.7 J	U	U	952	198	U	U	U	U
SB-009, 28.5'	U	U	17.4 J	U	U	U	U	U	345	75	U	U	U	U
SB-010, 8.5'	U	U	U	U	U	U	U	U	110	34	U	U	U	U
SB-010, 16.5'	U	U	244	U	U	40.3	U	11.0 J	3,910	106	U	U	U	U
SB-010, 22'	U	U	138	U	U	24.1 J	U	U	3,410	38	U	U	U	U
SB-011, 12.5'	U	U	U	U	U	U	U	U	132	155	U	U	U	U
SB-011, 19'	U	U	74.5	79.3	U	14.1 J	U	U	2,000	1,040	U	U	U	U
SB-012, 9'	U	U	U	U	U	U	U	U	318	1,070	U	U	U	U
SB-012, 17'	U (3,010)	U (3,010)	U (3,010)	U (3,010)	U (3,010)	U (3,010)	U (3,010)	U (3,010)	63,400	28,900	U (3,010)	U (3,010)	U (3,010)	U (3,010)
SB-012, 18'	U	U	U	U	U	U	U	U	281	1,520	U	U	U	U
SB-012, 20'	U	U	U	U	U	U	U	15.6 J	287	358	U	U	U	U
SB-012a, 6'	U	U	9.12 J	U	U	U	U	924	1,030	1,720	8.35 J	U	U	U
SB-012a, 16'	720 J	236 J	5,820 J	U	U	134 J	U	1,370 J	63,500	108,000	18,000 J	492	15,500	122 J
SB-012a, 23'	99	U	3,750 J	U	U	41.4	U	53.2	10,400 J	5,610 J	361	U	19.9 J	U
SB-013, 9'	U	84.2	U	U	U	U	U	U	65.5 J	161 J	23.5 J	U	21.0 J	U
SB-014, 17.5	U	U	U	U	U	U	U	U	6,620	2,380	31.8	21.5 J	42.7	34.4 J
SB-015, 20'	U	U	U	9.12 J	U	U	U	U	347	134	U	U	U	U
SB-016, 18'	U	U	U	U	U	U	U	U	121	163	U	U	U	U
SB-017, 20'	U	U	U	169	U	U	56.1 J	U	317	129	U	U	U	U
SB-018	REFUSAL AT 2-FEET BGS													
SB-019, 17.5	U	U	U	U	U	U	U	U	294	82	U	U	U	U
SB-020, 18.5-20'	143 J	U	520	569	U	U	U	U	70,300	15,500	U	U	U	U
SB-021,13'	U	43.6 J	10.5 J	U	U	U	U	U	1,170	1,700 J	10.4 J	U	U	17.1 J
SB-021, 15'A	U	U	10.8 J	U	U	U	U	U	804	971	U	U	U	U
SB-021, 15'	U	53.0 J	14.8 J	11.0 J	U	U	U	U	2,890 J	4,950 J	56.9 J	U	44.2 J	52.7
SB-022, 4.5'	U	U	U	U	U	U	U	U	49	36	U	U	U	U
SB-022, 11.5'	U	62.4 J	20.5 J	98.0 J	U	U	U	U	55,500 J	20, 500	U	32.3 J	141 J	2,320
SB-022, 13.5'	U	43 J	97,700 J	10,100	U	987	U	1,050	200,000	107,000	8,210 J	3,340 J	4,210 J	4,770 J
SB-022, 15'	U (61,000)	U (244,000)	U (61,000)	28,700 J	U (61,000)	U (61,000)	U (61,000)	U (61,000)	9,580,000	1,500,000	U (61,000)	U (61,000)	U (122,000)	U (61,000)
SB-022, 16'	U (2,840)	U (11,400)	U (2,840)	U (2,840)	U (2,840)	U (2,840)	U (2,840)	U (2,840)	12,100	5,040	U (2,840)	U (2,840)	U (2,840)	U (2,840)
SB-022, 20'	U	U (2,300)	161 J	213 J	U	U	U	U	12,800	2,400	U	U	U	U
SB-023, 11.5'	U (6,170)	U (24,700)	U (6,170)	U (6,170)	U (6,170)	U (6,170)	U (6,170)	U (6,170)	35,700	116,000	U (6,170)	U (6,170)	U (12,300)	4,840
SB-023, 12.5'	U (62,500)	U (250,000)	U (62,500)	U (62,500)	U (62,500)	U (62,500)	U (62,500)	U (62,500)	579,000	539,000	U (62,500)	U (62,500)	U (125,000)	U (62,500)
SB-023, 15'	U (313,000)	U (1,250, 000)	U (313,000)	U (313,000)	U (313,000)	U (313,000)	U (313,000)	U (313,000)	2,780,000	783,000	U (313,000)	U (313,000)	U (625,000)	U (313,000)
SB-023, 16'	U (595,000)	U (2,380 K)	U (595,000)	U (595,000)	U (595,000)	U (595,000)	U (595,000)	U (595,000)	23,900,000	13,000,000	U (595,000)	U (595,000)	U (1,190 K)	U (595,000)
SB-023, 20'	U (625)	U (2,500)	U (625)	165 J	U (625)	U (625)	U (625)	U (625)	12,800	2,540	U (625)	U (625)	U (1,250)	U (625)
SB-024	NOT SAMPLED													
SB-025	NOT SAMPLED													
SB-026, 15'	U	U	7.65 J	U	U	U	U	U	739	851	U	U	U	U
SB-027	NOT SAMPLED													
SB-028, 16.5'	U (6,250)	U (25,000)	38,000	U (6,250)	U (6,250)	5,340 J	U (6,250)	U (6,250)	4,730,000	12,600	U (6,250)	U (6,250)	U (12,500)	U (6,250)
SB-028, 17.5'	U (6,100)	U (24,400)	U (6,100)	8,350	U (6,100)	1,900 J	U (6,100)	U (6,100)	911,000	4,760 J	U (6,100)	U (6,100)	U (12,200)	U (6,100)
SB-028, 20'	U (5,750)	U (23,300)	U (5,750)	U (5,750)	U (5,750)	U (5,750)	U (5,750)	U (5,750)	62,800	1,830 J	U (5,750)	U (5,750)	U (11,500)	U (5,750)

TABLE 2 (Continued)
VOCs IN SOIL (micrograms/kilogram)
VESTAL CHLORINATED HYDROCARBON SOURCE ASSESSMENT/REMEDY SITE
VESTAL, NEW YORK

Boring No.	Trichlorofluoromethane	Acetone	1,1-DCE	Methylene Chloride	Carbon Disulfide	1,1-DCA	2-Butanone	cis-1,2- DCE	1,1,1-TCA	TCE	Toluene	PCE	p&m-Xylene	Naphthalene
SB-029, 16'	U (6,580)	U (26,300)	U (6,580)	U (6,580)	U (6,580)	U (6,580)	U (6,580)	U (6,580)	15,300	U (5,750)	U (6,580)	U (6,580)	U (13,200)	U (6,580)
SB-029,17.5'	U (6,100)	U (24,400)	U (6,100)	U (6,100)	U (6,100)	U (6,100)	U (6,100)	U (6,100)	7,550	U (6,100)	U (6,100)	U (6,100)	U (12,200)	U (6,100)
SB-029, 19'	U (6,250)	R	4,050 J	U (6,250)	U (6,250)	U (6,250)	U (6,250)	U (6,250)	340,000 J	U (6,250)	U (6,250)	U (6,250)	U (12,500)	U (6,250)
SB-029, 20'	U (5,880)	U (23,500)	U (5,880)	U (5,880)	U (5,880)	U (5,880)	U (5,880)	U (5,880)	29,700	U (5,880)	U (5,880)	U (5,880)	U (11,800)	U (5,880)
SB-030, 15'	U (6,020)	U (24,100)	2,930 J	U (6,020)	U (6,020)	U (6,020)	U (6,020)	U (6,020)	133,000 J	U (6,020)	U (6,020)	U (6,020)	U (1,200)	U (6,020)
SB-030, 16'	U (6,170)	U (24,700)	62,600	U (6,170)	U (6,170)	8,230	U (6,170)	U (6,170)	21,800,000	12,100	U (6,170)	U (6,170)	U (12,300)	U (6,170)
SB-030, 17.5'	U (6,100)	U (24,400)	U (6,100)	U (6,100)	U (6,100)	U (6,100)	U (6,100)	U (6,100)	69,500	U (6,100)	U (6,100)	U (6,100)	U (12,200)	U (6,100)
SB-030, 20'	U	U	173 J	151 J	U	U	U	U	4,920	177 J	U	U	U	U
SB-031, 19.5'	U (3,010)	U (12,000)	U (3,010)	U (3,010)	U (3,010)	U (3,010)	U (3,010)	U (3,010)	24,100	U (3,010)	U (3,010)	U (3,010)	U (6,020)	U (3,010)
SB-032, 15'	U	U	U (6,020)	165 J	U	U	U	U	3,430	461	U	U	U	U
SB-032, 16.5	U (31,300)	U (125,000)	U (31,300)	U (31,300)	U (31,300)	U (31,300)	U (31,300)	U (31,300)	689,000	U (31,300)	U (31,300)	U (31,300)	U (31,300)	U (31,300)
SB-032, 19'	U (617)	U (2,470)	494 J	U (617)	U (617)	U (617)	U (617)	U (617)	13,300	699	U (617)	U (617)	U (1,230)	U (617)
SB-033, 12.5'	U	R	U	159 J	U	U	U	U	3,090	669	U	U	U	U
SB-033, 16.5'	U (6,170)	R	U (6,170)	U (6,170)	U (6,170)	U (6,170)	U (6,170)	U (6,170)	121,000 J	U (6,170)	U (6,170)	U (6,170)	U (6,170)	U (6,170)
SB-033, 19.5'	U (595)	R	U (595)	U (595)	U (595)	U (595)	U (595)	U (595)	13,100	484 J	U (595)	U (595)	U (1,190)	U (595)
SB-034, 7.5'	U	U	U	U	U	U	U	U	76.9	U	U	U	U	U
SB-034, 16.5'	U (588)	U (2,350)	U (588)	U (588)	U (588)	U (588)	U (588)	U (588)	1,940	538 J	U (588)	U (588)	U (1,180)	U (588)
SB-035, 7.5'	U	U	U	U	U	U	U	U	305	U	U	U	U	U
SB-035, 19-20'	U (595)	U (2,380)	U (595)	U (595)	U (595)	U (595)	U (595)	U (595)	9,190	581 J	U (595)	U (595)	U (1,190)	U (595)
SB-036, 19.5'	U (575)	U (2,300)	410 J	U (575)	U (575)	U (575)	U (575)	U (575)	10,700	271 J	U (575)	U (575)	U (1,150)	U (575)
SB-037, 6'	U	U	U	U	U	U	U	U	80.3 J	U	U	U	U	U
SB-037, 20'	U (3,050)	U (12,000)	U (3,050)	U (3,050)	U (3,050)	U (3,050)	U (3,050)	U (3,050)	58,000	U (3,050)	U (3,050)	U (3,050)	U (6,100)	U (3,050)
SB-038, 15'	U (3,050)	U (12,200)	4,160	U (3,050)	U (3,050)	U (3,050)	U (3,050)	U (3,050)	156,000	854 J	U (3,050)	U (3,050)	U (6,100)	U (3,050)
SB-038, 18'	U (12,300)	U (49,400)	U (12,300)	U (12,300)	U (12,300)	U (12,300)	U (12,300)	U (12,300)	278,000	U (12,300)	U (12,300)	U (12,300)	U (24,700)	U (12,300)
SB-038, 20'	U (3,010)	U (12,000)	2,400 J	U (3,010)	U (3,010)	U (3,010)	U (3,010)	U (3,010)	51,600	U (3,010)	U (3,010)	U (3,010)	U (6,020)	U (3,010)
SB-039, 17'-16'	U (30, 500)	U (122,000)	12,700 J	U (30, 500)	U (30, 500)	U (30, 500)	U (30, 500)	U (30, 500)	884,000	U (30, 500)	U (30, 500)	U (30, 500)	U (61,000)	U (30, 500)
SB-039, 19.5'	U (3,010)	U (12,000)	U (3,010)	U (3,010)	U (3,010)	U (3,010)	U (3,010)	U (3,010)	86,500	U (3,010)	U (3,010)	U (3,010)	U (6,020)	U (3,010)
SB-039, 20'	U (5,950)	U (23,800)	U (5,950)	U (5,950)	U (5,950)	U (5,950)	U (5,950)	U (5,950)	18,300	U (5,950)	U (5,950)	U (5,950)	U (11,900)	U (5,950)
SB-040, 18'	U (15,400)	U (61,700)	U (15,400)	U (15,400)	U (15,400)	U (15,400)	U (15,400)	U (15,400)	328,000	U (15,400)	U (15,400)	U (15,400)	U (30, 900)	U (15,400)
SB-040, 20'	U (588)	U (2,350)	319 J	U (588)	U (588)	U (588)	U (588)	U (588)	16,700	233 J	U (588)	U (588)	U (1,180)	U (588)
SB-041, 16.5'	U (122,000)	U (488,000)	U (122,000)	U (122,000)	U (122,000)	U (122,000)	U (122,000)	U (122,000)	2,650,000	U (122,000)	U (122,000)	U (122,000)	U (244,000)	U (122,000)
SB-041, 19'	U (2,870)	U (11,500)	U (2,870)	U (2,870)	U (2,870)	U (2,870)	U (2,870)	U (2,870)	38,500	U (2,870)	U (2,870)	U (2,870)	U (5,750)	U (2,870)
SB-042, 17.5'	U (24,700)	U (98,800)	U (24,700)	U (24,700)	U (24,700)	U (24,700)	U (24,700)	U (24,700)	285,000	U (24,700)	U (24,700)	U (24,700)	U (49,400)	U (24,700)
SB-042, 19.5	U (1,220)	U (4,880)	1,180 J	U (1,220)	U (1,220)	U (1,220)	U (1,220)	U (1,220)	58,200	2110	U (1,220)	U (1,220)	U (2,440)	U (1,220)
SB-043, 20.5'	U	153 J	25.3 J	U	17.5 J	76.5 J	21.5 J	U	1,850 J	55.3 J	U	16.8 J	U	U
SB-044, 15.5'	U (602)	U (2,410)	519 J	U (602)	U (602)	U (602)	U (602)	U (602)	37,800	487 J	U (602)	U (602)	U (1,200)	U (602)
SB-044, 18'	U (128,000)	U (513,000)	U (128,000)	U (128,000)	U (128,000)	U (128,000)	U (128,000)	U (128,000)	3,200,000	U (128,000)	U (128,000)	U (128,000)	U (256,000)	U (128,000)
SB-044, 20'	U (116,000)	U (116,000)	U (116,000)	U (116,000)	U (116,000)	U (116,000)	U (116,000)	U (116,000)	4,350,000	U (116,000)	U (116,000)	U (116,000)	U (233,000)	U (116,000)
SB-045, 17.5'	U (62,500)	U (250,000)	U (62,500)	U (62,500)	U (62,500)	U (62,500)	U (62,500)	U (62,500)	1,090,000	U (62,500)	U (62,500)	U (62,500)	U (125,000)	U (62,500)
SB-046, 16'	U (625)	U (2,500)	U (625)	U (625)	U (625)	U (625)	U (625)	U (625)	8,360	209 J	U (625)	U (625)	U (1,250)	U (625)
SB-046, 16.5'	U (31,300)	U (125,000)	U (31,300)	U (31,300)	U (31,300)	U (31,300)	U (31,300)	U (31,300)	296,000	U (31,300)	U (31,300)	U (31,300)	U (62,500)	U (31,300)
SB-046, 20'	U (3,050)	U (12,200)	1,350 J	U (3,050)	U (3,050)	U (3,050)	U (3,050)	U (3,050)	95,300	3,590	U (3,050)	U (3,050)	U (6,100)	U (3,050)

TABLE 2 (Continued)
VOCs IN SOIL (micrograms/kilogram)
VESTAL CHLORINATED HYDROCARBON SOURCE ASSESSMENT/REMEDY SITE
VESTAL, NEW YORK

Boring No.	Trichlorofluoromethane	Acetone	1,1-DCE	Methylene Chloride	Carbon Disulfide	1,1,1-DCA	2-Butanone	cis-1,2- DCE	1,1,1-TCA	TCE	Toluene	PCE	p&m-Xylene	Naphthalene
SB-047, 20'	U	168 J	81.1 J	U	19.3 J	166 J	26.1 J	13.3 J	164 J	135 J	U	24.9 J		
SB-048, 20'	U	38.0 J	5.95 J	3.88 J	8.40 J	U	U	6.59 J	35.8 J	8.40 J	U	U	U	U
SB-049, 21'	U	38.1 J	22.3 J	U	U	35.2 J	U	U	272	887	U	36.3 J	U	U
SB-050, 19.5'	U	8.02 J	U	U	U	U	U	U	U	8	U	U	U	U
SB-051, 19.5'	U (3,090)	U (12,300)	1,930 J	U (3,090)	U (3,090)	U (3,090)	U (3,090)	U (3,090)	39,400	1,380 J	U (3,090)	U (3,090)	U (6,170)	U (3,090)
SB-052, 7.5'	U	U	U	U	U	U	U	U	U	4.37 J	U	U	U	U
SB-052, 19.5'	U	U	53.9 J	U	U	18.3 J	U	U	1,340	28.1 J	U	U	U	U
SB-053, 19'	U	U	U	U	U	U	U	U	U	9.42	U	U	U	U
SB-054, 20'	U	36.1	U	U	U	U	3.51 J	U	U	29.9	U	U	U	U
SB-055, 19'	U	U	3.41 J	U	U	U	U	29.8	55.3	38.2	U	U	U	U
SB-056, 19.5'	U	U	U	7.25	U	U	U	U	250 J	122	U	U	U	U

J = estimated value
K = 1,000
R = reject
U = non-detect (reporting limit)
Bold = detected compound

1,1-DCE = 1,1-Dichloroethene
1,1-DCA = 1,1-Dichloroethane
PCE = Tetrachloroethene

cis-1,2-DCE= cis-1,2-Dichloroethene
TCE = Trichloroethene

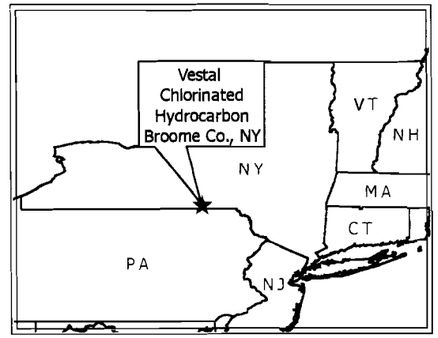
TABLE 3
VOCs IN GROUNDWATER (micrograms/liter)
VESTAL CHLORINATED HYDROCARBON SOURCE ASSESSMENT/REMEDY SITE
VESTAL, NEW YORK

	Vinyl Chloride	Chloroethane	Trichlorofluoromethane	Acetone	1,1-DCE	Methylene Chloride	Carbon Disulfide	1,1-DCA	2-Butanone	cis-1,2- DCE	1,1,1-TCA	TCE	1,1,2-TCA	Toluene	PCE	p&m-Xylene	Naphthalene
MW-001	U	U	**401 J**	U	**6,860**	**155 J**	U	**592**	U	**3,310**	**9,700**	**17,200**	U	**725**	U	U	U
MW-005	U	U	U	**2140 J**	**1,250**	U	U	**244 J**		U	**75,800**	**191 J**	U	U	U	U	U
MW-007	**1.39 J**	**9.41**	U	U	**438 J**	**438 J**	**3.83 J**	**135**	U	**5.75**	**22,100 J**	**124**	U	U	**4.25 J**	U	U
MW-009	**65.4 J**	**60.2 J**	U	U	**103,000**	**2,640 J**	U	**30,200 J**	**72.6 J**	**255 J**	**1,640,000**	**354,000**	**323 J**	**305 J**	**37.9 J**	**41.3 J**	**22.6**
MW-009 dup	U (50,000)	U (50,000)	U	U (200,000)	**16,300 J**	U (50,000)	U (50,000)	**16,900 J**	U (50,000)	U (50,000)	**466,000**	**152,000**	U (50,000)	U (50,000)	U (50,000)	U (100,000)	U (50,000)
MW-020	**8.41 J**	**234 J**	U	U	**6,310**	**17.3**	U	**1,530 J**	**5.47**	**2,490 J**	**126,000**	**2,490 J**	**8.94**	U	**5.66**	U	U
MW-43/44	U	U	U	U	U	U	U	U	U	U	**12.1**	**13.5**	U	U	U	U	U
MW-A	U	U	U	U	**2.10 J**	U	U	**3.93 J**	U	U	U	U	U	U	U	U	U
MW-A dup	U	U	U	U	**2.20 J**	U	U	**4.04 J**	U	U	U	U	U	U	U	U	U
MW-B	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-F	U	U	U	U	U	U	U	**14.2**	U	U	**246**	**2.54 J**	U	U	U	U	U
MW-G	U	U	U	**2,380 J**	U	U	U	U	U	U	**5,250**	**3,340**	U	U	U	U	U
OLD MW	U	U	U	**43.1 J**	**33**	U	U	**69.4**	U	**2.15 J**	**426**	**417 J**	U	U	U	U	U

J = estimated value
U = non-detect (reporting limit)
Bold = detected compound

1,1-DCE = 1,1-Dichloroethene
1,1-DCA = 1,1-Dichloroethane
PCE = Tetrachloroethene

cis-1,2-DCE= cis-1,2-Dichloroethene
TCE = Trichloroethene



Legend

Soil Boring and Monitor Well Locations

(Exterior to Building)

200 0 200 400

Feet

Map created using NY DOT DOQQ (2002) and site survey
GPS data. GPS collected in Lat., Lon., Decimal Degrees, WGS84

Map Creation Date: 27September2006

Coordinate system: New York State Plane (Central)
FIPS: 3102
Datum: NAD83
Units: Feet

Data: g:\arcviewprojects\reac4\00-198
MXD file: g:\arcinfoprojects\reac4\EAC00198_VestalHydrocarbon\198_sitelocationmap_f1rev003
Revision Number: 003

U.S. EPA Environmental Response Team
Response Engineering and Analytical Contract
EP-C-04-032
W.A.# 0-198

Figure 1
Site Location Map
Vestal Chlorinated Hydrocarbon Site
Vestal, New York

123′ 6″

248′

RECTIFIER ROOM

WATER METER

20 POWER

75′

LAB AREA

UTILITY AREA

150′

150′

50′

SB-003

SB-004

SB-001

SB-015

SB-012a

SB-002

LEGEND

SB-001 SOIL BORING LOCATION

AREA OF ELEVATED SOIL GAS CONCENTRATIONS

GRAPHIC SCALE

30 0 15 30 60

1 inch = 30 ft.

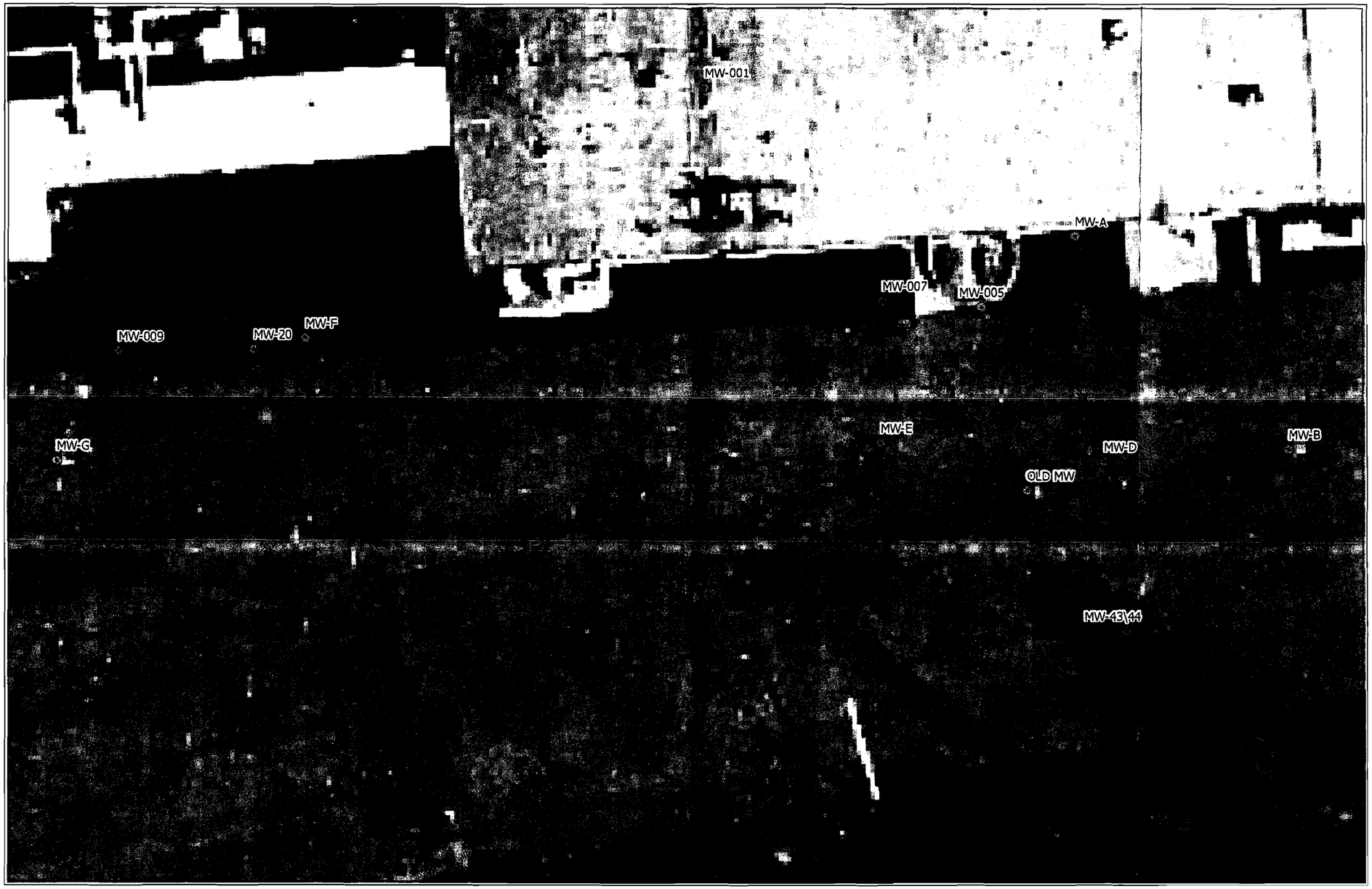
Site Plan from:
American Board Companies Inc.
rev. 5/13/04

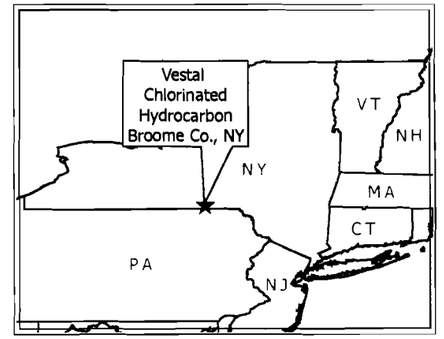
U.S. EPA ENVIRONMENTAL RESPONSE TEAM
RESPONSE ENGINEERING AND ANALYTICAL CONTRACT
EP-C-04-032
W.A.# 0 - 198

FIGURE 3
BORING LOCATIONS
INSIDE BUILDING
VESTAL CHLORINATED HYDROCARBON SITE
VESTAL, NEW YORK

12/18/06

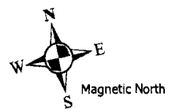
REAC4/198/198_BORLOC.dwg

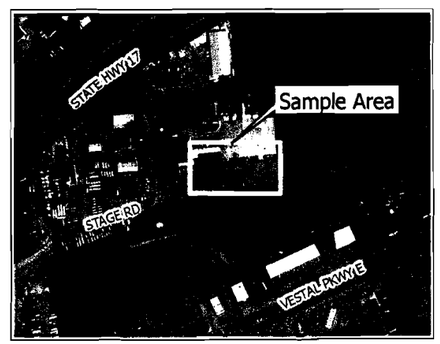




Legend

Monitor Wells





25 0 25 50

Feet

Map created using NY DOT DOQQ (2002) and site survey
GPS data. GPS collected in Lat., Lon., Decimal Degrees, WGS84

Map Creation Date: 02October2006

Coordinate system: New York State Plane (Central)
FIPS: 3102
Datum: NAD83
Units: Feet

Data: g:\arcviewprojects\reac4\00-198
MXD file: g:\arcinfoprojects\reac4\EAC00198_VestalHydrocarbon\198_wellmap_f4rev003
Revision Number: 003

U.S. EPA Environmental Response Team
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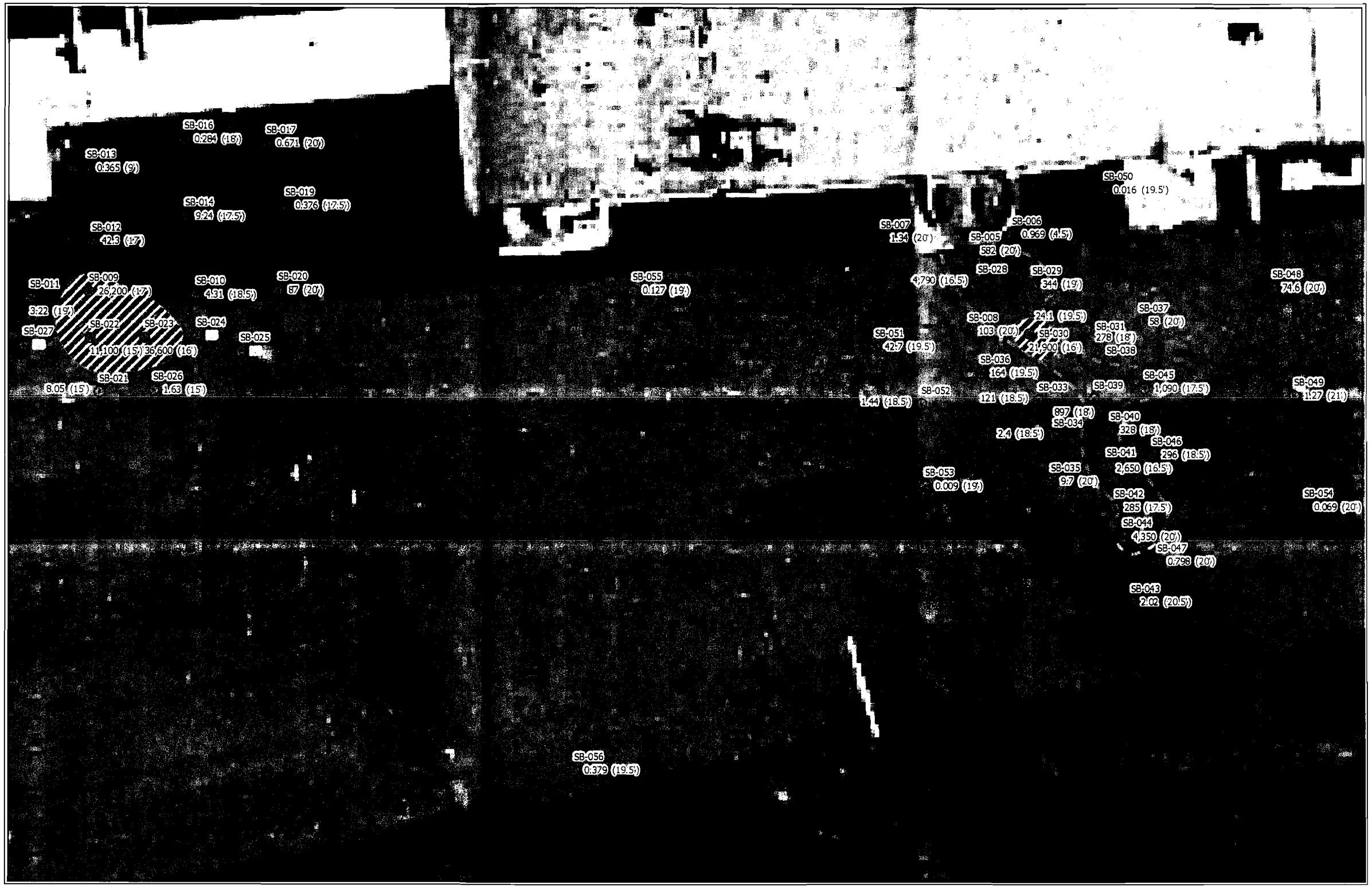
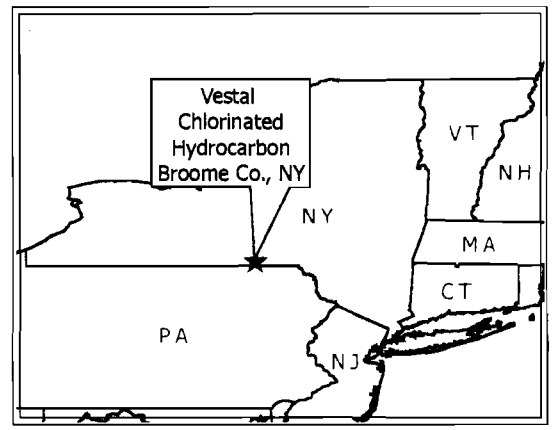
EP-C-04-032
W.A.# 0-198

Figure 4
Well Location Map
Vestal Chlorinated Hydrocarbon Site
Vestal, New York



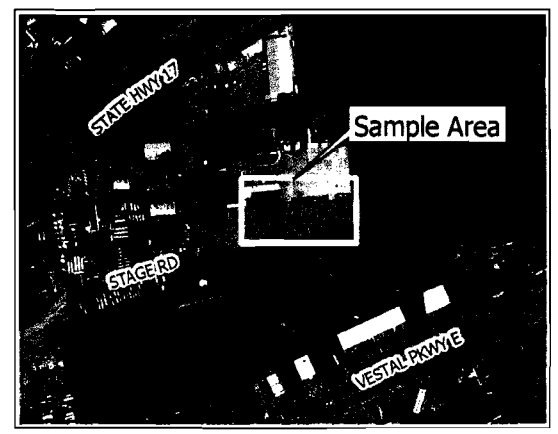


Legend

Boring Location
SB-052
1.44 (18.5')
Soil Boring
Concentration
Sample Depth

Area with Very High VOCs

Percent Levels of VOCs



Map created using NY DOT DOQQ (2002) and site survey
GPS data. GPS collected in Lat., Lon., Decimal Degrees, WGS84

Map Creation Date: 02October2006

Coordinate system: New York State Plane (Central)
FIPS: 3102
Datum: NAD83
Units: Feet

VOCs : Volatile Organic Compounds

NS : Not Sampled

NOTE: All concentration values in milligrams per kilogram (mg/kg)
All depth interval values in feet below ground surface (bgs)

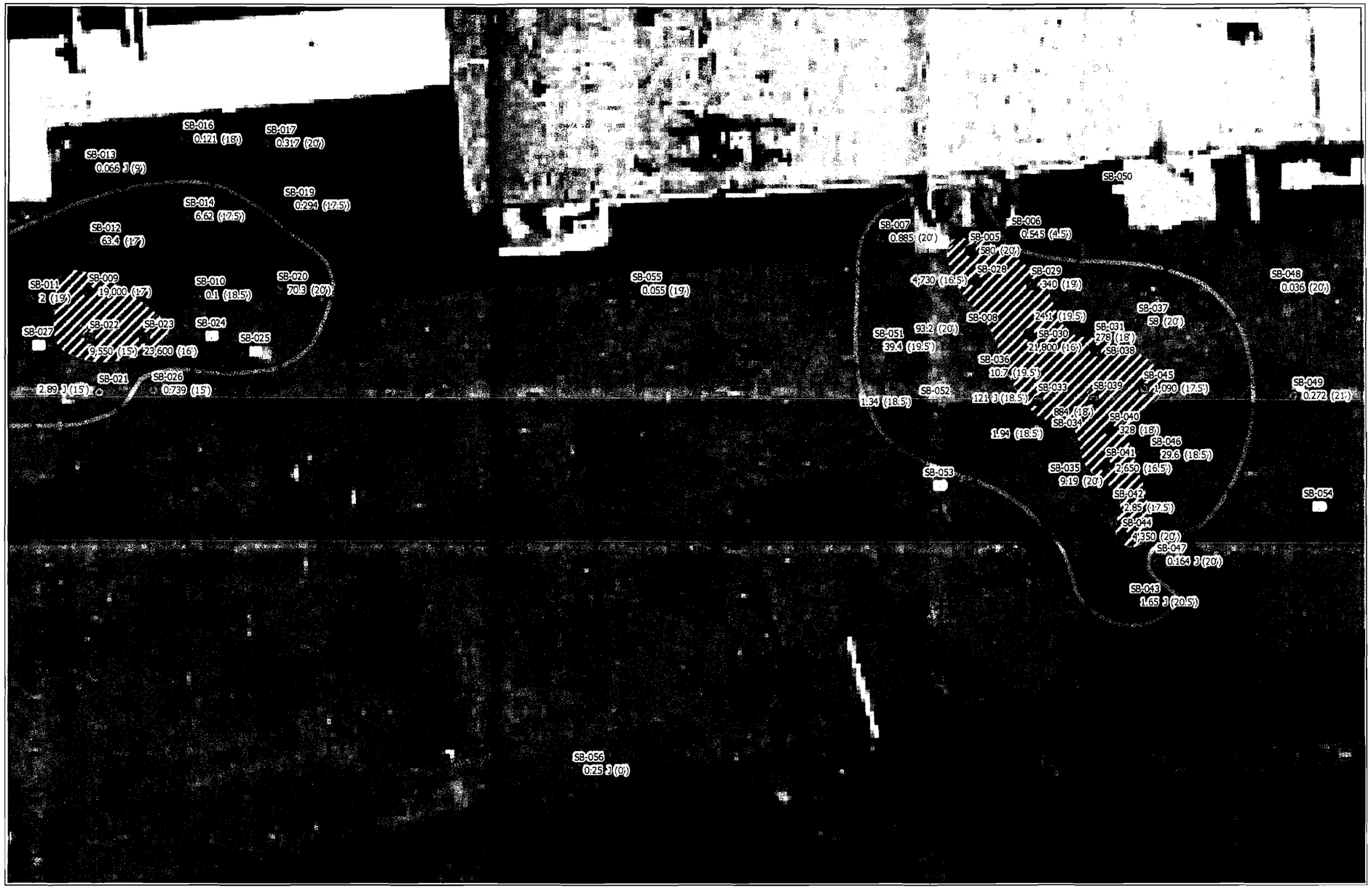
N
W
E
S
Magnetic North

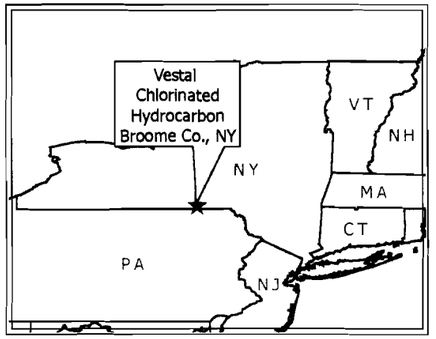
25 0 25 50
Feet

Data: g:\arcviewprojects\reac4\00-198
MXD file: g:\arcinfoprojects\reac4\EAC00198_VestalHydrocarbons\198_totalVOCs_f6rev006
Revision Number: 006

U.S. EPA Environmental Response Team
Response Engineering and Analytical Contract
EP-C-04-032
W.A.# 0-198

Figure 6
Total VOCs in Soil Samples (mg/kg)
Vestal Chlorinated Hydrocarbon Site
Vestal, New York



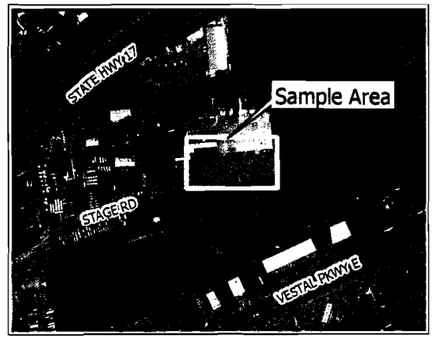


Legend

Boring Location
SB-052
Soil Boring
1.44 (18.5')
Concentration
Sample Depth

0.76 ppm 1,1,1-TCA Contour Line
(Estimated)

Area with Very High Concentrations



Map created using NY DOT DOQQ (2002) and site survey
GPS data. GPS collected in Lat., Lon., Decimal Degrees, WGS84

Map Creation Date: 02October2006

Coordinate system: New York State Plane (Central)
FIPS: 3102
Datum: NAD83
Units: Feet

1,1,1-TCA : 1,1,1-Trichloroethane

NS : Not Sampled
J : Estimated Value

NOTE: All concentration values in milligrams per kilogram (mg/kg)
All depth interval values in feet below ground surface (bgs)

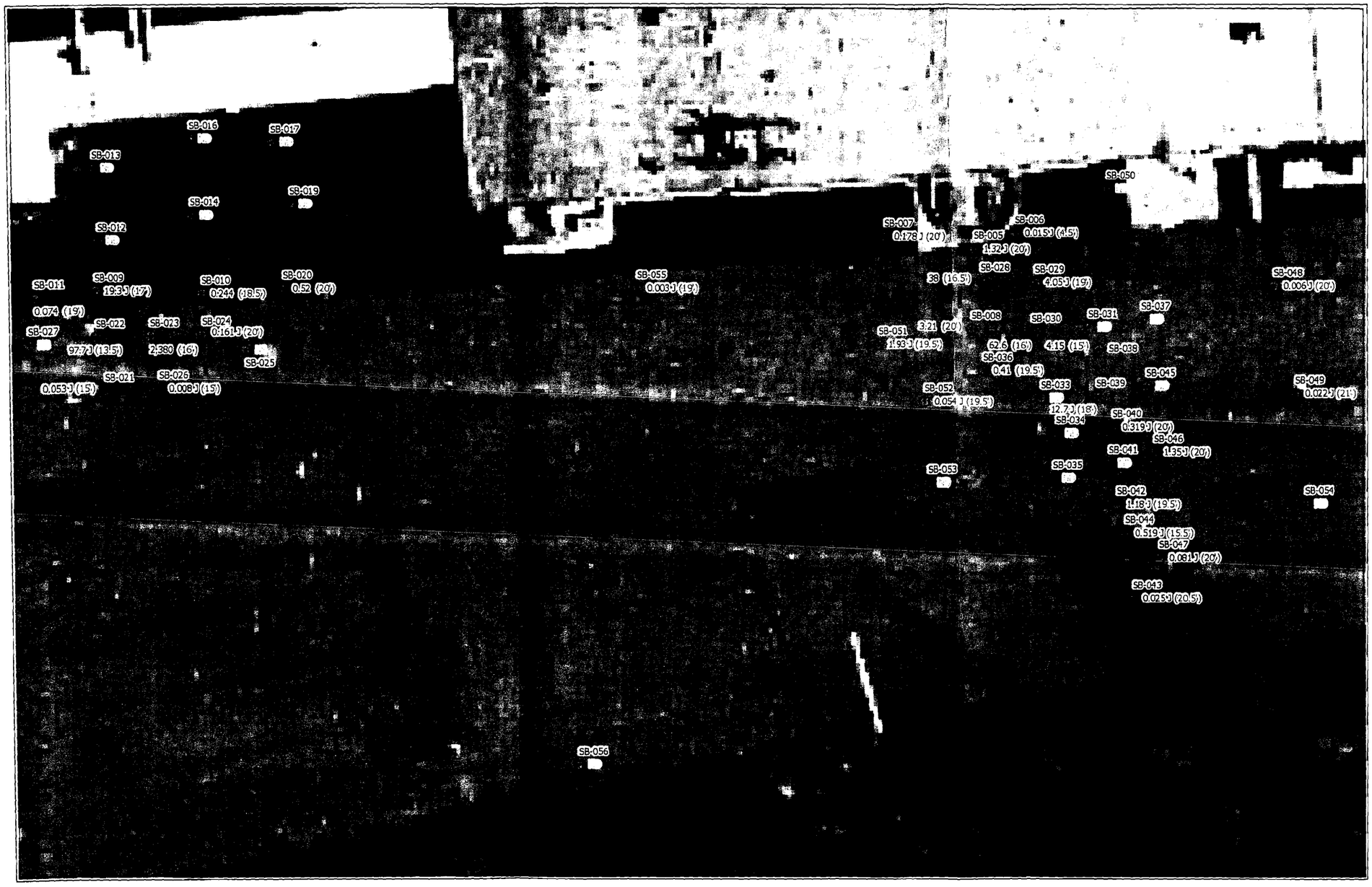
N
E
S
W
Magnetic North

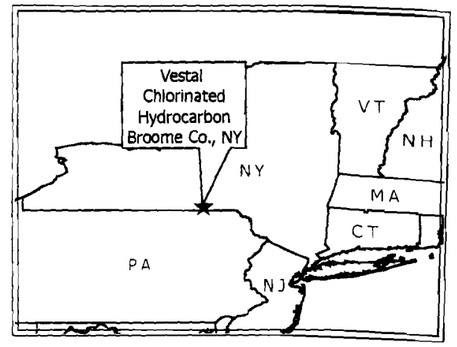
25 0 25 50
Feet

Data: g:\arcviewprojects\reac4\00-198
MXD file: g:\arcinfoprojects\reac4\EAC00198_VestalHydrocarbon\198_soil111tca_f7rev005
Revision Number: 005

U.S. EPA Environmental Response Team
Response Engineering and Analytical Contract
EP-C-04-032
W.A.# 0-198

Figure 7
Maximum 1,1,1-TCA Concentration in Soil Samples (mg/kg)
Vestal Chlorinated Hydrocarbon Site
Vestal, New York





Legend

Boring Location

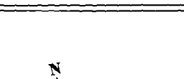
SB-052

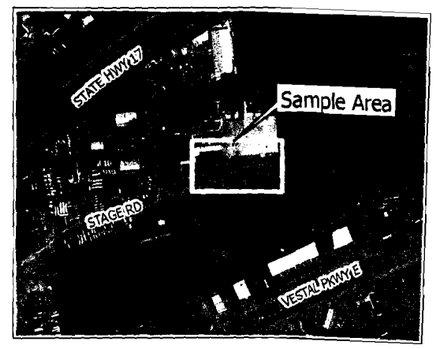
Soil Boring

1.44 (18.5')

Concentration

Sample Depth





Map created using NY DOT DOQQ (2002) and site survey
GPS data. GPS collected in Lat., Lon., Decimal Degrees, WGS84

Map Creation Date: 02October2006

Coordinate system: New York State Plane (Central)
FIPS: 3102
Datum: NAD83
Units: Feet

1,1-DCE : 1,1-Dichloroethene

ND: Non-Detect
NS : Not Sampled
J : Estimated Value

NOTE: All concentration values in milligrams per kilogram (mg/kg)
All depth interval values in feet below ground surface (bgs)

25 0 25 50
Feet

Data: g:\arcviewprojects\reac4\00-198
MXD file: g:\arcinfoprojects\reac4\EAC00198_VestalHydrocarbon\198_soil11dce_f8rev005
Revision Number: 005

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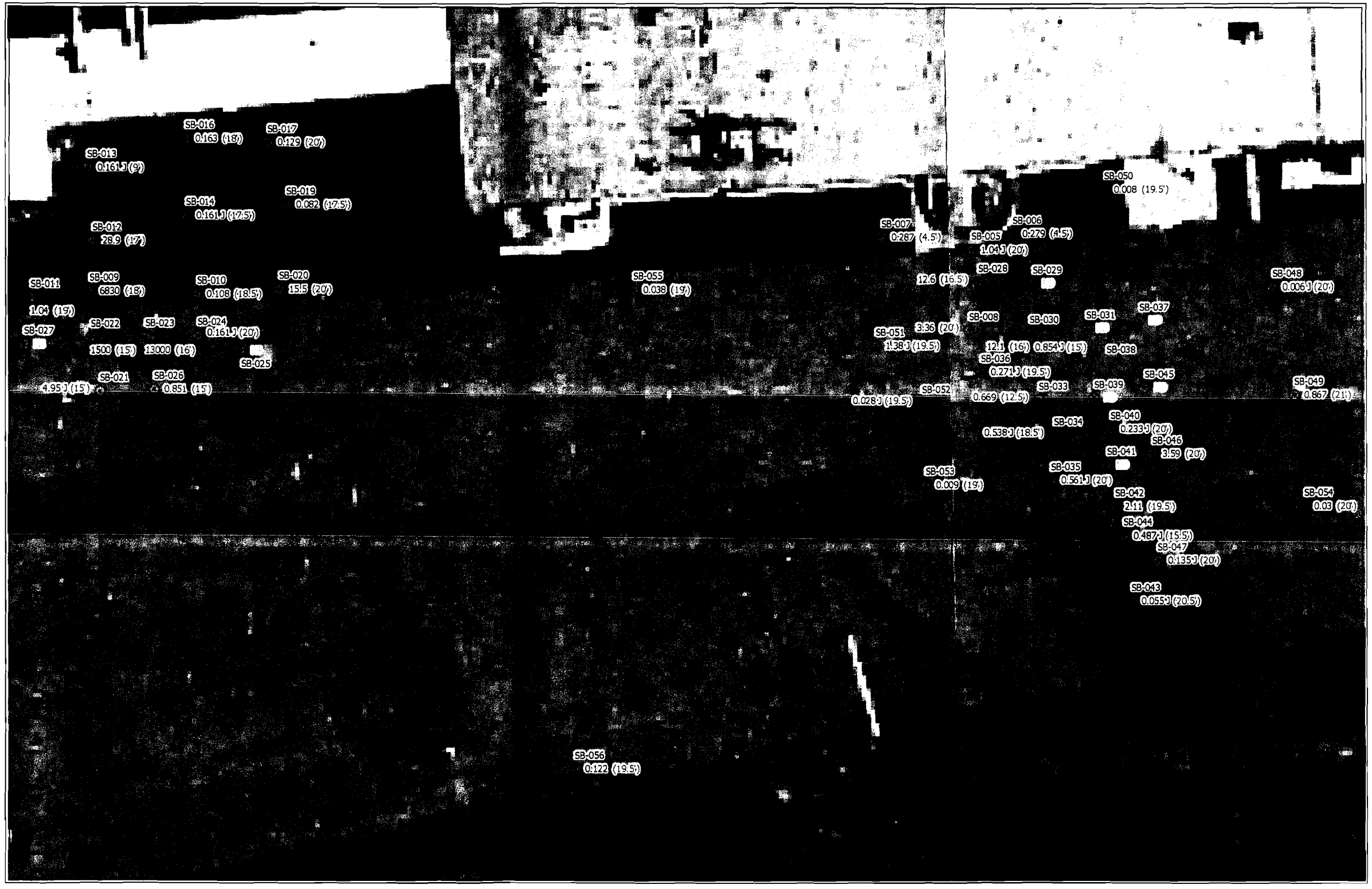
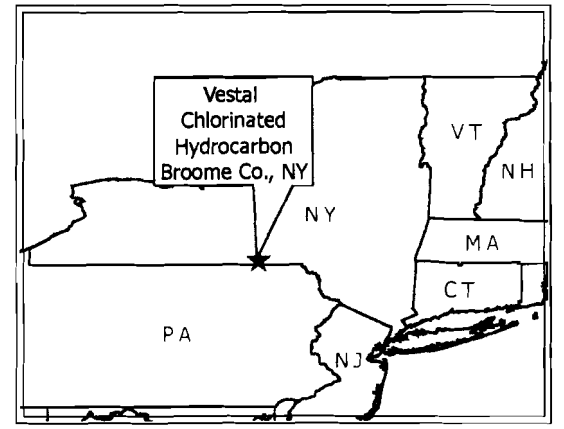
EP-C-04-032
W.A.# 0-198

Figure 8
Maximum 1,1-DCE Concentrations in Soil Samples (mg/kg)
Vestal Chlorinated Hydrocarbon Site
Vestal, New York

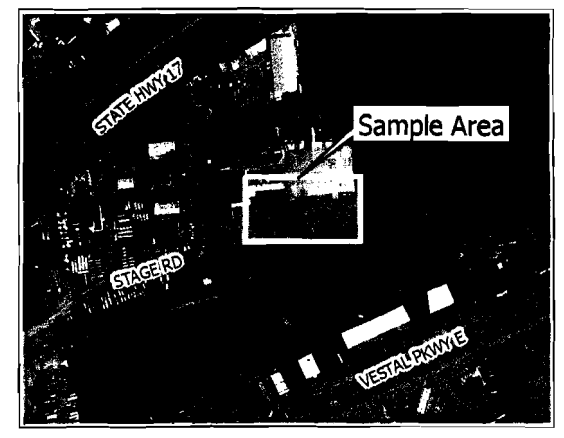




Legend

Boring Location
SB-052
Soil Boring
1.44 (18.5')
Concentration
Sample Depth

N
W
E
S
Magnetic North



Map created using NY DOT DOQQ (2002) and site survey
GPS data. GPS collected in Lat., Lon., Decimal Degrees, WGS84

Map Creation Date: 02October2006

Coordinate system: New York State Plane (Central)
FIPS: 3102
Datum: NAD83
Units: Feet

TCE : Trichloroethene

ND: Non-Detect
NS : Not Sampled
J : Estimated Value

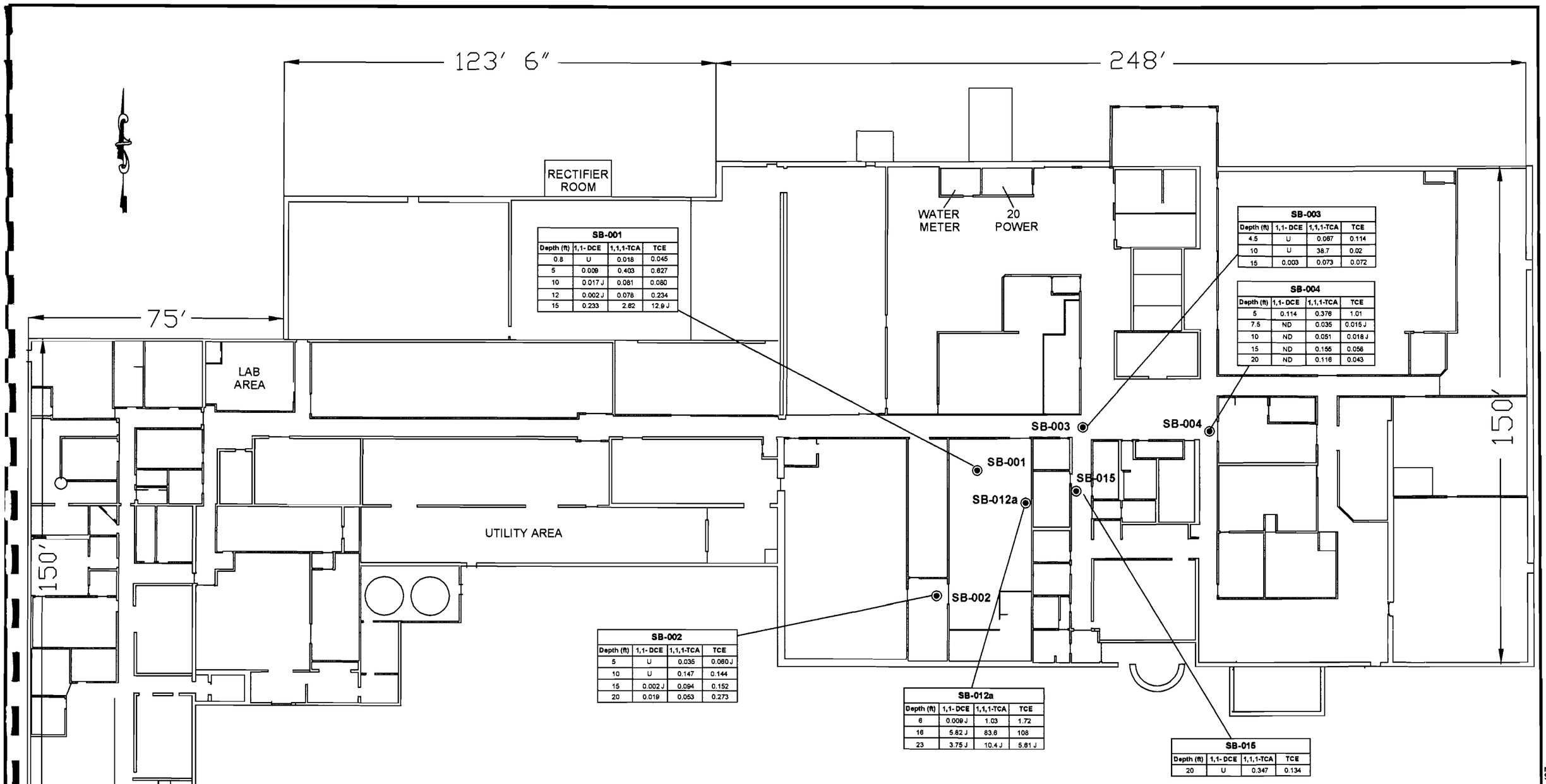
NOTE: All concentration values in milligrams per kilogram (mg/kg)
All depth interval values in feet below ground surface (bgs)

25 0 25 50
Feet

Data: g:\arcviewprojects\reac4\00-198
MXD file: g:\arcinfoprojects\reac4\EAC00198_VestalHydrocarbon\198_soiltce_f9rev005
Revision Number: 005

U.S. EPA Environmental Response Team
Response Engineering and Analytical Contract
EP-C-04-032
W.A.# 0-198

Figure 9
Maximum TCE Concentrations in Soil Samples (mg/kg)
Vestal Chlorinated Hydrocarbon Site
Vestal, New York



SB-001			
Depth (ft)	1,1- DCE	1,1,1-TCA	TCE
0.8	U	0.018	0.045
5	0.009	0.403	0.627
10	0.017 J	0.081	0.080
12	0.002 J	0.078	0.234
15	0.233	2.62	12.9 J

SB-003			
Depth (ft)	1,1- DCE	1,1,1-TCA	TCE
4.5	U	0.087	0.114
10	U	38.7	0.02
15	0.003	0.073	0.072

SB-004			
Depth (ft)	1,1- DCE	1,1,1-TCA	TCE
5	0.114	0.378	1.01
7.5	ND	0.035	0.015 J
10	ND	0.051	0.018 J
15	ND	0.155	0.056
20	ND	0.116	0.043

SB-002			
Depth (ft)	1,1- DCE	1,1,1-TCA	TCE
5	U	0.035	0.060 J
10	U	0.147	0.144
15	0.002 J	0.094	0.152
20	0.019	0.053	0.273

SB-012a			
Depth (ft)	1,1- DCE	1,1,1-TCA	TCE
6	0.009 J	1.03	1.72
16	5.82 J	83.6	108
23	3.75 J	10.4 J	5.81 J

SB-015			
Depth (ft)	1,1- DCE	1,1,1-TCA	TCE
20	U	0.347	0.134

LEGEND

SB-001 ◉ SOIL BORING LOCATION

U = NON DETECT

J = ESTIMATED VALUE

mg/kg = MILLIGRAMS / KILOGRAM

TCE = TRICHLOROETHENE

1,1-DCE = 1,1 - DICHLOROETHENE

1,1,1-TCA = 1,1,1 - TRICHLOROETHENE

GRAPHIC SCALE

30 0 15 30 60

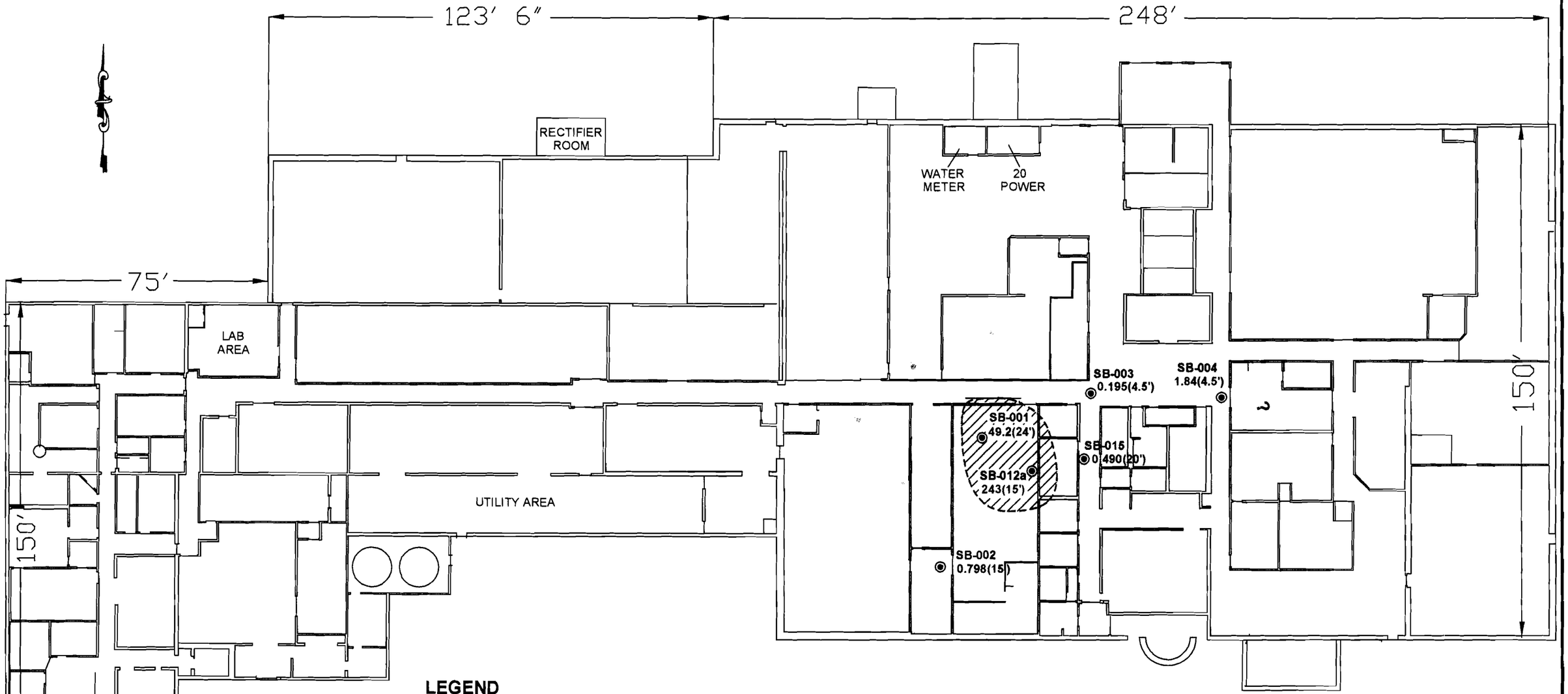
1 inch = 30 ft.

Site Plan from:
American Board Companies Inc.
rev. 5/13/04

U.S. EPA ENVIRONMENTAL RESPONSE TEAM
RESPONSE ENGINEERING AND ANALYTICAL CONTRACT
EP-C-04-032
W.A.# 0 - 198

FIGURE 10
CONCENTRATION OF SELECTED VOCS
IN SOIL SAMPLES -
SITE BUILDING (mg/kg)
VESTAL CHLORINATED HYDROCARBON SITE
VESTAL, NEW YORK

REAC4/198/198_SELECT_VOC.dwg 01/16/07



LEGEND

SB-001 0.798(15') = SOIL BORING; mg/kg (DEPTH IN FEET)

VOC = VOLATILE ORGANIC COMPOUND

mg/kg = MILLIGRAMS / KILOGRAM

AREA OF ELEVATED SOIL GAS CONCENTRATIONS

SUGGESTED ADDITIONAL BORINGS

HIGHEST VOC CONCENTRATIONS

GRAPHIC SCALE

30 0 15 30 60

1 inch = 30 ft.

Site Plan from:
American Board Companies Inc.
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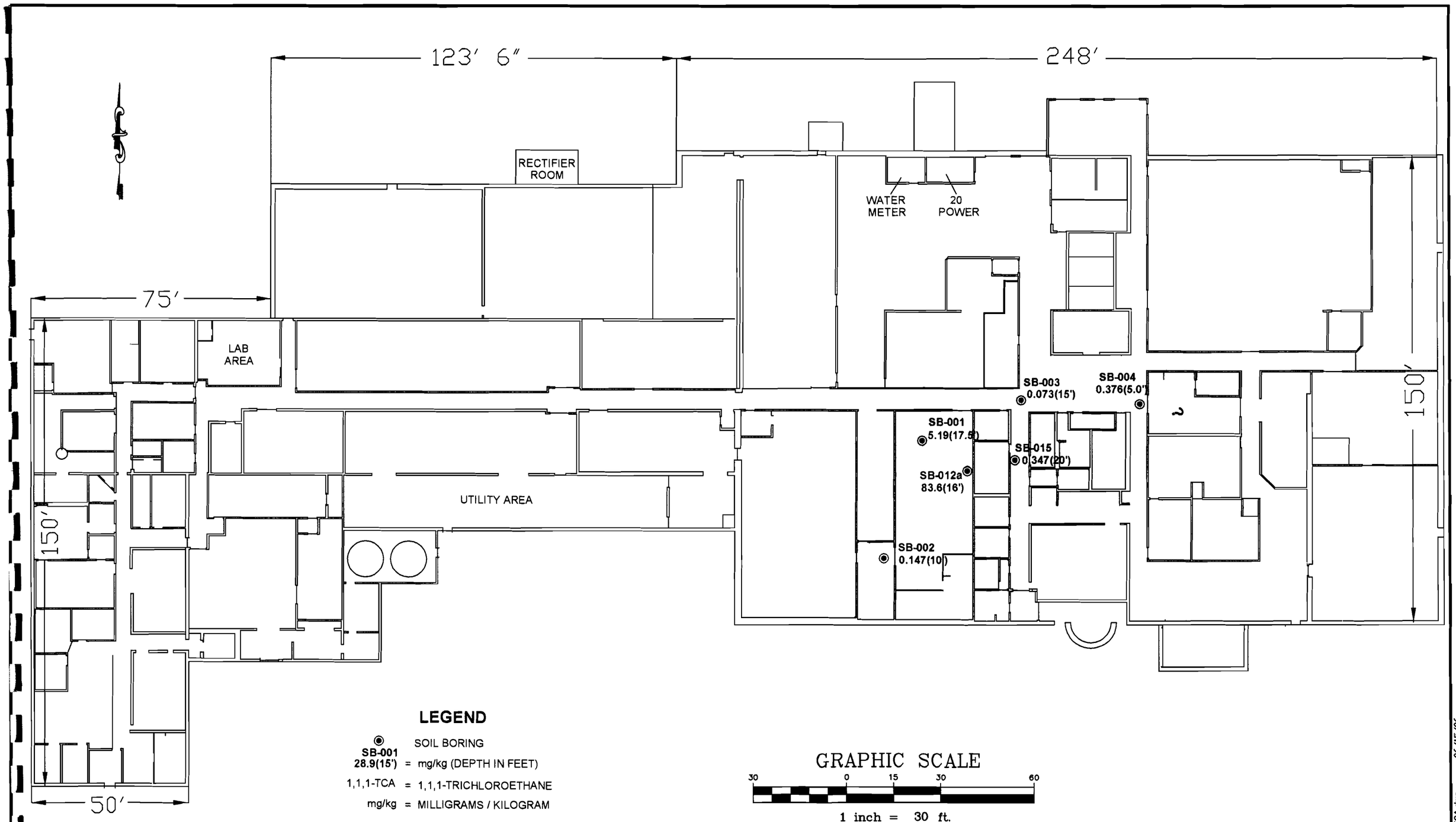
RESPONSE ENGINEERING AND ANALYTICAL CONTRACT
EP-C-04-032
W.A.# 0 - 198

FIGURE 11
MAXIMUM TOTAL VOC CONCENTRATIONS
IN SOIL SAMPLES (mg/kg)-SITE BUILDING
VESTAL CHLORINATED HYDROCARBON SITE
VESTAL, NEW YORK

06/15/06

REAC4/198/198_SG_Area.dwg



LEGEND

SB-001 28.9(15') = SOIL BORING mg/kg (DEPTH IN FEET)

1,1,1-TCA = 1,1,1-TRICHLOROETHANE

mg/kg = MILLIGRAMS / KILOGRAM

AREA OF ELEVATED SOIL GAS CONCENTRATIONS

GRAPHIC SCALE

30 0 15 30 60

1 inch = 30 ft.

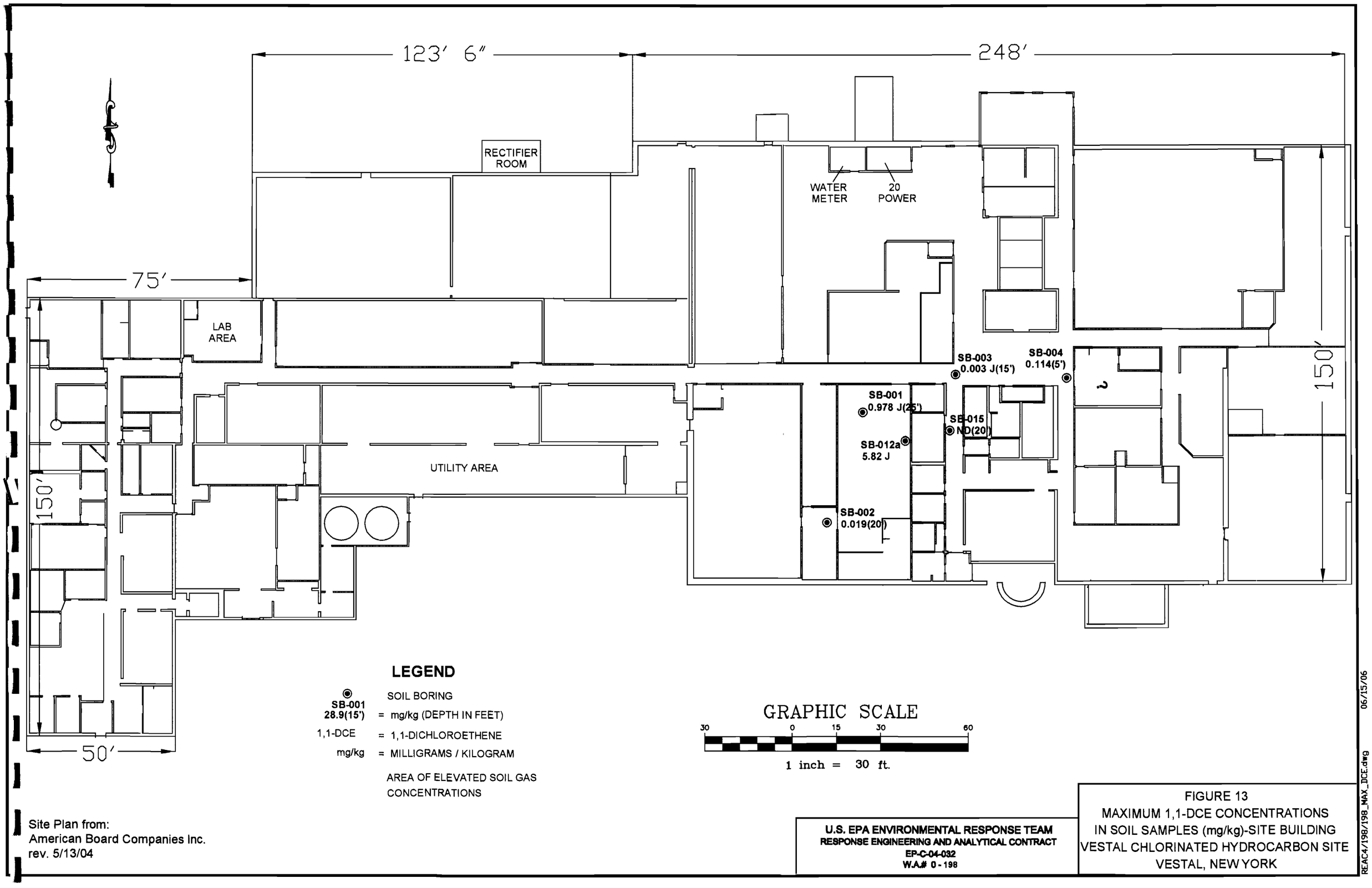
Site Plan from:
American Board Companies Inc.
rev. 5/13/04

U.S. EPA ENVIRONMENTAL RESPONSE TEAM
RESPONSE ENGINEERING AND ANALYTICAL CONTRACT
EP-C-04-032
W.A.# 0 - 198

FIGURE 12
MAXIMUM 1,1,1-TCA CONCENTRATIONS IN SOIL SAMPLES (mg/kg)-SITE BUILDING
VESTAL CHLORINATED HYDROCARBON SITE
VESTAL, NEW YORK

06/15/06

REAC4/198/198_MAX_111TCA.dwg



LEGEND

◉ SB-001 28.9(15') = SOIL BORING mg/kg (DEPTH IN FEET)

1,1-DCE = 1,1-DICHLOROETHENE

mg/kg = MILLIGRAMS / KILOGRAM

AREA OF ELEVATED SOIL GAS CONCENTRATIONS

GRAPHIC SCALE

30 0 15 30 60

1 inch = 30 ft.

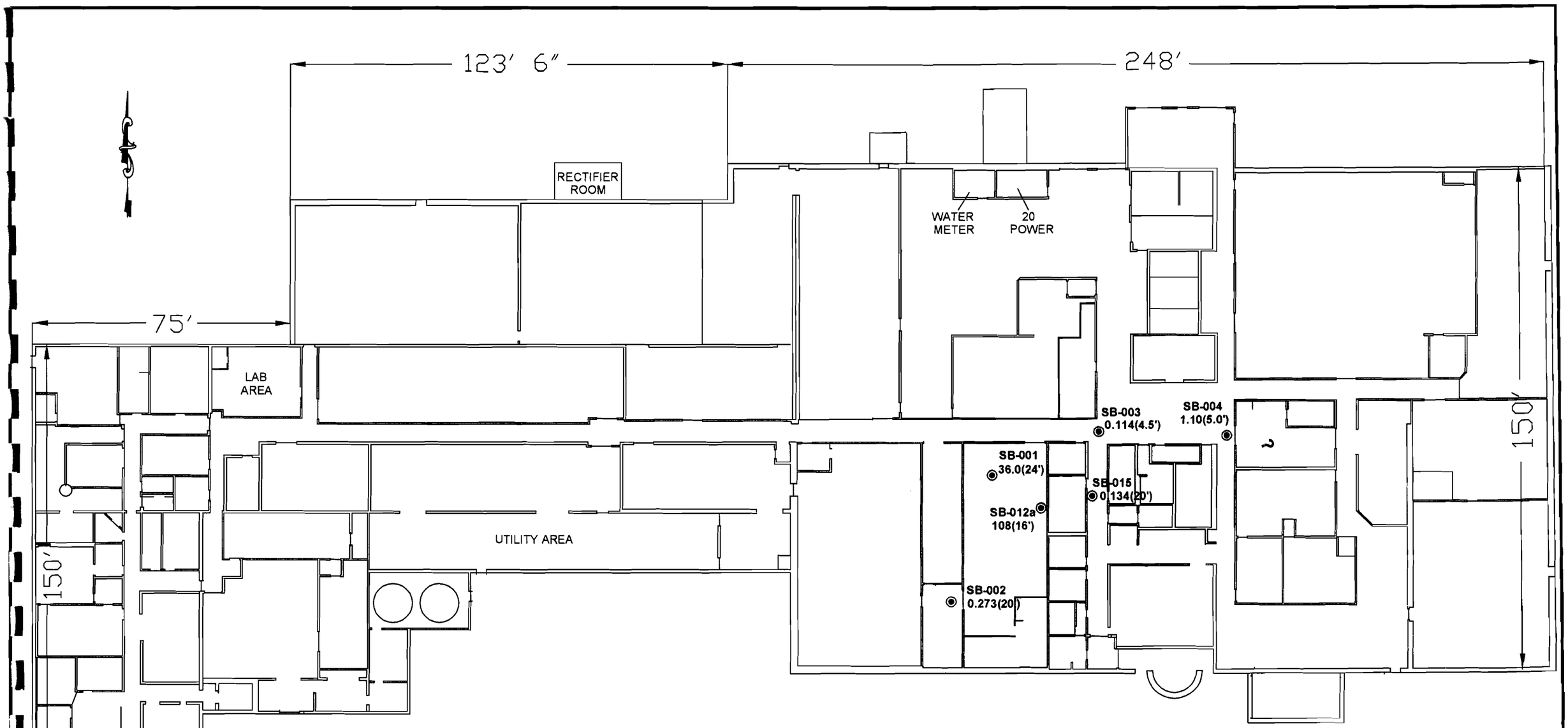
Site Plan from:
American Board Companies Inc.
rev. 5/13/04

U.S. EPA ENVIRONMENTAL RESPONSE TEAM
RESPONSE ENGINEERING AND ANALYTICAL CONTRACT
EP-C-04-032
W.A.# 0 - 198

FIGURE 13
MAXIMUM 1,1-DCE CONCENTRATIONS
IN SOIL SAMPLES (mg/kg)-SITE BUILDING
VESTAL CHLORINATED HYDROCARBON SITE
VESTAL, NEW YORK

06/15/06

REAC4/198/198_MAX_DCE.dwg



LEGEND

◉ SB-001 28.9(15')	= SOIL BORING mg/kg (DEPTH IN FEET)
TCE	= TRICHLOROETHENE
mg/kg	= MILLIGRAMS / KILOGRAM
	AREA OF ELEVATED SOIL GAS CONCENTRATIONS

GRAPHIC SCALE

30 0 15 30 60

1 inch = 30 ft.

Site Plan from:
American Board Companies Inc.
rev. 5/13/04

U.S. EPA ENVIRONMENTAL RESPONSE TEAM
RESPONSE ENGINEERING AND ANALYTICAL CONTRACT
EP-C-04-032
W.A.# 0 - 198

FIGURE 14
MAXIMUM TCE CONCENTRATIONS
IN SOIL SAMPLES (mg/kg)-SITE BUILDING
VESTAL CHLORINATED HYDROCARBON SITE
VESTAL, NEW YORK

06/15/06
REAC4/198/198_MAX_TCE.dwg

APPENDIX A
SOIL BORING LOGS
VESTAL CHLORINATED HYDROCARBON SOURCE ASSESSMENT/REMEDY SITE
VESTAL, NEW YORK

CORE DESCRIPTIONS

Depth (feet bgs)	Recovery %	FID - ppm	Lithology
SB-001			
0 - 0.25			Concrete bldg floor
0.25 - 5.0	80	20	FILL - large pebbles, poorly sorted silt and sand
5 - 10	10	1	SILT, brown to gray, slightly clayey, slightly cohesive, dry
10 - 15	100	10 - top 50 ppm 14-15 ft	SILT, brown, slightly clayey, slightly cohesive, dry to moist
15 - 20	77	20 - 100	SAND, very fine, gray-brown grading downward to clayey SILT, to silty CLAY, cohesive, wet at bottom of interval
20 - 25	47	50 -100	20 - 24 ft:SILT, clayey, gray-brown, grading downward to silty CLAY 24 - 25 ft: GRAVEL, coarse, sandy, wet
25 - 30	NA	50	SAND, brown, medium, with large gravel at 29 to 30 ft
SB-002			
0 - 5	72		Concrete fragments and FILL
5 - 10	NA	2 - 10	SILT, brownish-gray, friable to slightly cohesive, slightly clayey, dry, oxidized at bottom of core
10 - 15	75	1 - 9	SILT, brownish-gray, dry, oxidized
15 - 20	72	0.5 - 5	SILT, brownish-gray, clayey, slightly cohesive, dry to moist
SB-003			
0 - 5	69	30 - top 10 - bottom	Concrete fragments and FILL
5 - 10	33	0.5	SILT, brownish-gray, dry, oxidized
10 - 15	78	0.5	SILT, brownish-gray, uniform, friable to slightly clayey, wet
SB-004			
0 - 5	57	10 - 30	Concrete fragments and FILL
5 - 10	68	20 ppm 7.5 ft 0 ppm 10 ft	SAND, very fine to SILT, friable, brownish-gray, dry
10 - 15	70	0	SAND, very fine to SILT, friable, brown, wet at 14 ft
15 - 20	88	0	SAND, very fine to SILT, friable, brown, wet
SB-005			
0 - 5	47	100	0 - 3.5 ft: FILL 3.5 - 5 ft: CLAY, dark gray, silty, cohesive
5 - 10	80	30 ppm at top 0 ppm 6-10 ft	SILT, brown, uniform, dense, slightly clayey, moist
10 - 15	81	0	SILT, brown, uniform, dense, slightly clayey, wet
15 - 20	78	1000+ ppm in bottom half of core	SILT to very fine SAND, brown, wet
20 - 25	4	3 - 4	SAND and coarse GRAVEL, poorly sorted, saturated
SB-006			
0 - 5	70	0 ppm 0-3 ft 200 ppm 3-4 ft 850 ppm 4-5 ft	SILT, brown, uniform, dense, slightly clayey, dry
5 - 10	77	0 - 10	SILT to very fine SAND, brown, dry
10 - 15	80	0	SILT, brown, clayey, uniform, dry
15 - 20	79	0	15 -19 ft:SILT to fine SAND 19 - 20 ft:SAND, coarse and large GRAVEL
20 - 25	47	0	GRAVEL, very large, and coarse SAND, saturated

Depth (feet bgs)	Recovery %	FID - ppm	Lithology
SB-007			
0 - 5	83	0 ppm 0-4 ft 200 ppm 4-5 ft	SILT, brown to clayey SILT, organic, uniform, dry
5 - 10	75	20 ppm 6 ft 0 ppm rest of core	SILT, brown, uniform, dry
10 - 15	80	0	SILT, brown, slightly clayey to fine SAND uniform, dry
15 - 20	73	8 ppm 20 ft 0 ppm rest of core	15-19.2 ft: SILT, brown, slightly clayey to fine SAND uniform 19.2-20 ft: SAND, fine to med. and very coarse GRAVEL, wet
20 - 25	50	4 - 8.5	SAND, fine to medium and very large GRAVEL, angular
SB-008			
0 - 5	53	100 ppm 5 ft	0-0.5 ft: FILL 0.5-5 ft: SILT, gray-brown, clayey, uniform, slightly organic
5 - 10	63	5 - 10	SILT to very fine SAND, brown, uniform, dry
10 - 15	85	0 ppm 10-13 ft 100 ppm 13-15 ft	SILT to very fine SAND, brown, uniform, dry
15 - 20	25	70 - 100+	15-19.5 ft:SILT, brown, slightly clayey 19.5-20 ft: SAND and very large GRAVEL, angular, saturated
20 - 25	61		SAND and very large GRAVEL, angular, saturated
SB-009			
0 - 5	75	1 - 10	0-0.5 ft: FILL 0.5-5 ft: SILT, brown, uniform, dry
5 - 10	85	4- 8	SILT, brown, uniform, dry
10 - 15	95	300 ppm 10-13 ft 1000 ppm13-15 ft	SILT to very fine SAND, brown, uniform, dry
15 - 20	78	800 - 1000	15-18.5 ft: SILT to very fine SAND, brown 18.5-20 ft: SAND and very large GRAVEL, angular, saturated
20 - 25	53	10 - 20	SAND and very large GRAVEL, angular, saturated
SB-010			
0 - 5	80	1	SILT to very fine SAND, brown, uniform, dry
5 - 10	86	1	SILT to very fine SAND, brown, uniform, dry
10 - 15	88	1	SILT, brown, uniform
15 - 20	85	8 - 10	15-16 ft: SAND, very fine, brown, moist to wet 16-20 ft: GRAVEL, very large, angular, poorly sorted, saturated
20 - 25	72	10 - 40	GRAVEL, very large, angular, poorly sorted, saturated
SB-011			
0 - 5	NA	0 - 0.5	0-0.5 ft: FILL 0.5-5 ft:SILT, brown, uniform, dry
5 - 10	77	1	SILT to very fine SAND, brown, uniform, slightly clayey, dry
10 - 15	83	1 - 2	SILT to very fine SAND, brown, uniform, dry
15 - 20	38	10 - 30	GRAVEL, very large, angular, poorly sorted, saturated
SB-012			
0 - 5	80	1 - 9	0-1.5 ft: topsoil and fill 1.5-5 ft: SILT, brown, uniform, dry
5 - 10	80	2-10	SAND, brown, very fine, well-sorted, grading downwards to silt
10 - 15	86	20 - 50	SILT to very fine SAND, brown, uniform, dry
15 - 20	NA	100+ ppm 15-17 ft 30 ppm 17-20 ft	15-18.5 ft: SILT, brown, unifrom, dry to wet 18.5-20 ft: SAND and very large GRAVEL, angular, saturated

Depth (feet bgs)	Recovery %	FID - ppm	Lithology
SB-012a (Inside Bldg)			
0 - 4	40	2 - 7	Concrete fragments and FILL
4 - 8	57	6 - 7	SILT, brown, uniform, slightly clayey
8 - 12	NA	1 - 2	SAND and GRAVEL, poorly sorted, probably fill fallback
12 - 16	77	20 ppm top of core 500 ppm 16 ft	SILT, brown, uniform, with fine SAND lenses, dry solvent odor
16 - 20			mostly fallback
20 - 24	77	150	SILT, brown, uniform, with fine SAND lenses, dry
SB-013			
0 - 5	73	0 - 10	0-2 ft: topsoil and fill 2-5 ft: SILT to fine SAND, brown, dry
5 - 10	75	70 - 100	SILT, stained dark gray, slightly cohesive, petroleum odor, organic (?) fragments in bottom of core
10 - 15	82	2 - 3	SILT, brown, uniform, with fine sand stringers, grading downward to clayey SILT, moist
15 - 20	67	5 - 10	SILT, clayey, with very fine sand stringers, moist to saturated
SB-014			
0 - 5	88	0	0-1 ft: TOPSOIL 1-5: SILT, brown, uniform, dry
5 - 10	98	0 - 1	SILT, brown to very fine SAND, uniform, dry
10 - 15	87	0	SILT, brown, uniform, with fine sand stringers,
15 - 20	62	10 - 60	15-18.5 ft: SILT, brown, uniform, with fine sand stringers 18.5-20 ft: SAND, medium, brown, well-sorted, saturated
SB-015			
0 - 4	57	2 - 8	0-1 ft: CEMENT fragments 1-4 ft: FILL - poorly sorted snd and gravel
4 - 8	67	5- 7	SILT, brown, uniform, dry
8 - 12	80	1 - 10	SILT, brown, uniform, moist
12 - 16	61	3 - 10	SILT, brown, uniform, moist
16 - 20	78	2 - 10	SILT, sandy grading downward to fine SAND bottom of core
SB-016			
0 - 5	69	0 - 1	SILT, brown, uniform, dry
5 - 10	88	0 - 1	SILT, brown, uniform, dry
10 - 15	85	0	SILT, brown and fine SAND, weathered fossiliferous rock frag., wet
15 - 20	60	0	15-19 ft: SILT, brown, with fine SAND lenses 19-20 ft: GRAVEL, coarse with SAND, poorly sorted, saturated
SB-017			
0 - 5	83	0	0-1 ft: TOPSOIL, FILL 1-5 ft: SILT, brown, with very fine SAND lenses, dry
5 - 10	83	0	SILT, brown, very slightly sandy, uniform, dry
10 - 15	77	0	SILT, brown, with very fine SAND lenses, wet
15 - 20	58	0	SILT, brown, with very fine SAND lenses, wet
SB-018			Refusal at 2 ft
SB-019			
0 - 5	NA	0	0-1 ft: TOP SOIL 1-5 ft: SILT, brown, uniform, dry
5 - 10	NA	0 - 2	SILT, brown, with very fine SAND lenses, slightly clayey, dry
10 - 15	NA	0	SAND, very fine to SILT, brown, slightly clayey
15 - 20	53	0	SILT, brown, with very fine SAND lenses

Depth (feet bgs)	Recovery %	FID - ppm	Lithology
SB-020			
0 - 5	88	0	0-1ft: TOPSOIL 1-5 ft: SILT, brown, uniform, dry
5 - 10	90	0	SILT, brown, with very fine SAND lenses, dry
10 - 15	63	0	SILT, slightly clayey, with small fragments of organic matter
15 - 20	53	0-2 ppm 15-17 ft 20-50 ppm 17-20 ft	15-18.5 ft: SILT and very fine SAND, gray-brown, clayey, oxidized 18.5-20 ft:GRAVEL, very large, and sand, poorly sorted, saturated
SB-021			
0 - 5	78	0.5 - 4	SILT, brown, uniform, dry
5 - 10	98	0 - 1	SILT, brown, uniform, dry
10 - 15	83	10 ppm 13 ft 80-100 ppm 14-15 ft	SILT, brown, slightly clayey, uniform with fine SAND lenses
15 - 20	57	10 - 30	GRAVEL, large, with SAND, poorly sorted
SB-022			
0 - 5	69	4-8 ppm 0-4 ft 20 ppm 4-5 ft	SILT, brown, uniform, dry
5 - 10	100	10 - 25	SILT, brown, uniform, dry
10 - 15	90	300-400 ppm 10-12 ft 1000+ ppm 12-15 ft	SILT, brown, to very fine sand, moist, strong solvent odor
15 - 20	60	1000+ ppm 15-18 ft 400-800 ppm 18-20 ft	GRAVEL, large, with SAND, poorly sorted, saturated
SB-023			
0 - 5	95	1 - 4	SILT, brown, uniform, dry
5 - 10	100	2 - 15	SILT, brown, to very fine sand, uniform
10 - 15	78	100-300 ppm 10-11 ft 1000 ppm 11-15 ft	SILT, brown, oxidixed, dry, strong solvent odor
15 - 20	50	1000 + ppm top 100 ppm rest of core	GRAVEL, large, with SAND, poorly sorted, saturated, solvent odor
SB-024			
0 - 5	90	6 - 10	0-0.5 ft: BLACKTOP 0.5-5 ft: SILT and very fine SAND, brown, dry
5 - 10	100	1 - 2	SAND, very fine, brown, dry
10 - 15	95	1	SAND, very fine, brown, silty, moist
SB-025			
0 - 5	0	NA	lost core
5 - 10	90	0 - 3	SILT, brown, slightly clayey, dry
10 - 15	75	0	SILT, brown, uniform, moist to wet
SB-026			
5 - 10	98	1 - 2	SAND, very fine, brown, to SILT
10 - 15	85	3 - 10	SAND, very fine, brown, to SILT
SB-027			
5 - 10	77	0	SAND, very fine, brown, to SILT, dry
10 - 15	90	1	SILT, slightly clayey, brown, oxidized, moist
SB-028			
5 - 10	83	2 - 8	SILT to very fine SAND, brown, dry
10 - 15	88	0- 1	SILT to very fine SAND, brown, moist to wet
15 - 20	80	1000+ ppm 17-19 ft 0-1 ppm 19-20 ft	15-19 ft: SILT, brown, moist to wet 19-20 ft: GRAVEL, coarse with SAND, poorly sorted, saturated

Depth (feet bgs)	Recovery %	FID - ppm	Lithology
SB-029			
5 - 10	87	0 ppm 5-9 ft 10-20 ppm 9-10 ft	SILT, brown, slightly clayey, dry
10 - 15	75	0 - 1	SILT to very fine SAND, brown, moist to wet
15 - 20	77	1000+	SILT, brown, clayey, wet, strong solvent odor, red NAPL (?)stains
20 - 25	40	30	GRAVEL, coarse with SAND, poorly sorted, saturated
SB-030			
5 - 10	83	3 - 10	SILT to very fine SAND, brown, dry
10 - 15	83	10-20 ppm 10-11 ft 1000+ ppm 19-20 ft	SILT brown, with very fine SAND lenses, moist to wet
15 - 20	78	1000+ ppm 15-17 ft 400-500 ppm 17-20 ft	15-19.5 ft: SILT, brown, with fine SAND lenses, black staining 19.9-20 ft: GRAVEL, coarse with SAND, poorly sorted, saturated
SB-031			
5 - 10	80	2- 5	SILT, brown, uniform, dry
10 - 15	95	0 - 5	SILT to very fine SAND, brown
15 - 20	61	2-10 ppm 15-16 ft 20-50 ppm 16-18 ft 1000+ ppm 18-20 ft	15-19.7 ft: SILT to very fine SAND, brown, oxidized 19.7-20 ft: GRAVEL, coarse with SAND, poorly sorted, saturated
SB-032			
5 - 10	78	0.5 - 9	NA
10 - 15	60	1 ppm 10-12 1000+ ppm 13-15 ft	SILT, brown, clayey, uniform, moist
15 - 20	69	100 ppm 15-16 ft 1000+ ppm 16-17 ft 100-400 ppm 17-20 ft	15-19.5 ft: SILT, brown, clayey 19.5-20 ft: GRAVEL, coarse with SAND, poorly sorted, saturated
SB-033			
5 - 10	62	1 - 4	SILT, brown, uniform, dry
10 - 15	NA	2 ppm 10-11 ft 100 ppm 12.5 ft 40 ppm 15 ft	SILT, brown, clayey, oxidized, moist
15 - 20	60	20-40 ppm 15-17 ft 1000+ ppm 17-19.5 ft ~100 ppm 20 ft	15-19.5 ft SILT, brown, clayey, uniform, wet 19.5-20 ft: GRAVEL, coarse with SAND, poorly sorted, saturated
SB-034			
5 - 10	80	40 ppm 7.5 ft 2-5 ppm rest of core	SILT, brown, uniform, dry
10 - 15	78	0 - 0.5	SILT, brown, slightly clayey at 14-15 ft, oxidized, moist
15 - 20	50	3-10 ppm 15-18 ft 100-150 ppm 18-20 ft	15-18.5 ft: SILT, brown, clayey, uniform, wet 18.5-20 ft: GRAVEL, coarse with SAND, poorly sorted, saturated
SB-035			
5 - 10	80	60-80 ppm 7.5 ft 0-4 ppm rest of core	SAND, very fine to SILT, brown, uniform, dry
10 - 15	70	0 - 0.5	SILT, brown, slightly clayey, oxidized, moist to dry
15 - 20		0-10 ppm 15-17.5 ft 40 ppm 20 ft	15-19 ft: SILT, brown, clayey, sandy, wet 19-20 ft GRAVEL, coarse, with SAND, poorly sorted, saturated
SB-036			
5 - 10	65	10-15 ppm 5-9 ft 1 ppm 9-10 ft	SAND, very fine to SILT, brown, uniform, dry
10 - 15	78	1- 2	SILT, brown, slightly clayey, oxidized, dry
15 - 20	78	1-10 ppm 15-17 ft 100-150 ppm 17-20 ft	15-19 ft:SILT, brown, clayey, wet 19-20 ft: GRAVEL, coarse, with SAND, poorly sorted, saturated

Depth (feet bgs)	Recovery %	FID - ppm	Lithology
SB-037			
5 - 10	78	5 - 20	SAND, very fine to SILT, brown, uniform, dry
10 - 15	98	0	SILT to very fine SAND, brown, clayey, wet
15 - 20	NA	0-2 ppm 15-19.5 ft 100 ppm 19.5-20 ft	SILT to very fine SAND, brown, oxidized, clayey, wet
20 - 25	40	1	GRAVEL, med. to very large, sub-rounded to angular, saturated
SB-038			
5 - 10	72	100 ppm 5.5 ft 1-20 ppm rest of core	SAND, very fine grading downwards to SILT, brown, clayey, dry
10 - 15	78	10-40 ppm 10-12.5 ft 1000+ ppm 12.5-15 ft	SILT to very fine SAND, brown, clayey, dk staining at 14-15 ft
15 - 20	80	700 - 1000	SILT, clayey, brown, wet, solvent odor
SB-039			
5 - 10	78	20 - 40	SILT to very fine SAND, brown, dry
10 - 15	78	~10 ppm top half core 20-90 ppm 12.5-15 ft	SILT to very fine SAND, brown, becoming clayey 14-15 ft
15 - 20	75	300-800 ppm 15-16 ft 1000+ ppm16-19.5 ft 150 ppm 19.5-20 ft	15-19 ft: SILT, brown, clayey with some gray laminae, oxidized but also stained 19-20 ft: GRAVEL, coarse, with SAND, poorly sorted, saturated
SB-040			
5 - 10	70	2 - 10	SILT to very fine SAND, brown to gray, dry
10 - 15	83	2 - 8	SILT to very fine SAND, brown to gray, slightly clayey
15 - 20	60	470 ppm 15-17 ft 1000 ppm 17-19 ft 100 ppm 19-20 ft	15-19.2 ft: SILT, clayey, brown, clayey, wet 19.2-20 ft: GRAVEL, coarse, with SAND, poorly sorted, saturated
SB-041			
5 - 10	90	20 ppm 5-6ft 1-4 ppm 6-10 ft	5-5.5 ft: SILT, gray-brown, with rootlets 5.5-10 ft: SILT to very fine SAND, brown, oxidized dry
10 - 15	80	1- 2	SILT, brown to gray, clayey, oxidized,
15 - 20	80	2-3 ppm 15-16 ft 1000+ ppm 16.5 100-150 ppm 17-20 ft	15-18.5 ft: SILT, brown to gray, clayey, oxidized, wet 18.5 -20 ft: GRAVEL, very coarse, sub-rounded to angular, poorly sorted, saturated
SB-042			
5 - 10	80	1 - 10	SILT, brown to gray, oxidized, dry
10 - 15	83	2 ppm 10-11 ft 10-20 ppm 11-15 ft	SAND, very fine, grading downward to SILT, brown to gray, oxidized, moist
15 - 20	67	80-100 ppm 15-16.5 ft 1000+ ppm 16.5-19 ft 200 ppm 19-20 ft	
SB-043			
5 - 10	82	0 - 5	5-6 ft: CLAY, gray, gradind downwards to SILT, gray 6-10 ft: SILT, gray to vdery fine SAND, moist
10 - 15	80	0 - 2	CLAY, gray to SILT with some root/plant fragments, sparingly micaceous, moist
15 - 20	83	0 - 1	CLAY, gray, silty 15-16 ft, grading downwards to SILT, micaceous, with some root/plant fragments
20 - 25	58	1 - 10	20-20.5 ft: CLAY, gray to SILT, dense, saturated 20.5-25 ft: GRAVEL, small to very coarse, sub-rounded to angular

Depth (feet bgs)	Recovery %	FID - ppm	Lithology
SB-044			
5 - 10	78	7-10 ppm 5-7.5 ft 0-1 ppm 7.5-10 ft	SILT, gray, to gray-brown, highly oxidized, friable, dry
10 - 15	47	0 - 7	SILT, gray, to gray-brown, highly oxidized, slightly clayey, dry to moist
15 - 20	78	230 ppm 15-17.5 ft 1000 ppm 17.5-20 ft	SILT, gray to silty CLAY, massive with rare organic fragments GRAVEL, very coarse, sub-rounded to angular, saturated
20 - 25			
SB-045			
5 - 10	80	0 - 4	SILT to very fine SAND, reddish-brown, oxidized, dry to moist
10 - 15	85	0 - 2	SILT, brown to gray, clayey, oxidized, moderately cohesive
15 - 20	63	100 ppm 15-15.5 ft 1000+ ppm 15.5-19 ft 500-700 ppm 19-20 ft	15-18 ft: SILT, clayey, brown 18-19.5 ft: SILT, clayey, gray, oxidized with dark brown staining 19.5-20 ft: GRAVEL, very coarse, sub-rounded to angular, saturated
SB-046			
5 - 10	80	20 - 60 ppm 5-9 ft 1 - 2 ppm 9-10 ft	SAND, very fine, brown, grading downwards to SILT, brown, mottled, oxidized, dry
10 - 15	80	0 - 2	SILT, clayey, brown to gray, highly oxidized, dry to moist
15 - 20	61	9-10 ppm 15-16 ft 1000+ ppm 16-19 ft 150-300 ppm 19-20 ft	SILT, brown to gray, clayey, oxidized, moist to wet
SB-047			
5 - 10	93	10 ppm 5-6 ft 0 ppm 6-10 ft	SILT, brown to gray, oxidized, dry
10 - 15	89	0 -1	SILT, gray, clayey, moderately cohesive
15 - 20	83	1 - 3	CLAY, silty, to clayey SILT, gray, uniform, massive
SB-048			
5 - 10	95	7 - 10 ppm 5-9 ft 1 ppm 9-10 ft	SILT, with some very fine SAND, gray-brown, oxidized, dry
10 - 15	67	15 ppm 10 ft 1 ppm 11-15 ft	SILT, brown with some very fine SAND, slightly clayey oxidized 10-12.5 feet, moist
15 - 20	99	2	SILT, gray, clayey, grading downwards to sandy and clayey silt, rare woody fragments
SB-049			
15 - 20	75	0	SILT, brown, clayey, oxidized, grading downwards to gray clayey silt
20 -25	50-58 (?)		top 10-in: SILT, gray, clayey remainder of core: GRAVEL, large, poorly sorted, saturated
SB-050			
5 - 10	95	10-15 ppm 5-9 ft 0 ppm 9-10 ft	SILT, brown, sandy, dry
10 - 15	70	0 - 1	SILT, brown, very slightly clayey, oxidized, moist
15 - 20	90	0 - 1	SILT, brown, clayey, very slightly sandy, saturated

Depth (feet bgs)	Recovery %	FID - ppm	Lithology
SB-051			
5 - 10	75	10 ppm 5-9.5 ft 2 ppm 9.5-10 ft	SILT, brown, slightly sandy, uniform, dry
10 - 15	80	0 - 1	SAND, very fine, brown, grading downwards to SILT, occasional gray clasts
15 - 20	63	0 ppm 15-19.5 20-30 ppm 19.5-20	15-19.5 ft: SILT, brown, clayey, oxidized, wet 19.5-20 ft: GRAVEL, large, sub-rounded to angular, poorly sorted
SB-052			
5 - 10	63	10 ppm 5-6 ft 50-60 ppm 6-8 ft 1-0 ppm 8-10 ft	SAND, very fine, well-sorted, brown, grading downwards to SILT
10 - 15	75	1	SILT, brown, clayey, moist
15 - 20	67	0 ppm 15-19.5 ft 100 ppm 19.5-20 ft	SILT, brown to gray, clayey, oxidized 19.5-20 ft: GRAVEL, large, sub-rounded to angular, poorly sorted
SB-053			
5 - 10	78	20-40 ppm 5-8 ft 0 ppm 8-10 ft	SAND, very fine, brown, grading downwards to SILT, oxidized
10 - 15	73	0 - 4	SILT, brown to gray, clayey, oxidized, moderately cohesive, moist
15 - 20	77	0	15-19.5 ft: SILT, brown, clayey, oxidized 19.5-20 ft: GRAVEL, large, sub-rounded to angular, poorly sorted
SB-054			
5 - 10	88	20 ppm 5-6 ft 1-2 ppm 6-10 ft	5-6.5 ft: SILT, gray-brown, friable 6.5-10 ft: SILT, gray, clayey, oxidized, moist
10 - 15	59	0 - 4	6.5-10 ft: SILT, gray, clayey, oxidized, moist
15 - 20	83	0 - 1	SILT, brown, clayey, grading downwards to CLAY, gray, silty, cohesive, massive
SB-055			
5 - 10	73	0 - 1	SILT, brown, grading downwards to very fine SAND, well-sorted, silty
10 - 15	85	0 - 2	SILT, brown to gray, oxidized, moist to wet
15 - 20	71	0 - 3	15-19 ft: SILT, brown, clayey, oxidized, wet 19-20 ft: GRAVEL, large, sub-rounded to angular, poorly sorted
SB-056			
5 - 10	78	0 - 1	SILT, brown oxidized, dry
10 - 15	77	0	SILT, brown, some gray mottling, slightly clayey, oxidized
15 - 20	55	0	NA

bgs = below ground surface
FIF = flame ionization detector
NA = not available
ppm = parts per million

APPENDIX B
FINAL ANALYTICAL RESULTS
VESTAL CHLORINATED HYDROCARBON SOURCE ASSESSMENT/REMEDY SITE
VESTAL, NEW YORK

J = estimated value

Lockheed Martin Technology Services
Environmental Services REAC
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LOCKHEED MARTIN

DATE: November 30, 2006

TO: R. Singhvi EPA/ERT

FROM: V. Kansal Analytical Section Leader Vinod Kansal

SUBJECT: DOCUMENT TRANSMITTAL UNDER WORK ASSIGNMENT # 0-1198

Attached please find the following document prepared under this work assignment:

Vestal Chlorinated Hydrocarbon Source Assessment/Remedy - Analytical Report

Central File WA # 0-198 (w/attachment)
T. Johnson Work Assignment Manager (w/attachment)
K. Woodruff Task Leader (w/attachment)
J. Soroka Data Validation and Report Writing Group Leader (w/ attachment)

ANALYTICAL REPORT

Prepared by
LOCKHEED MARTIN, Inc.

Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Vestal, NY

November 2006

EPA Work Assignment No. 0-198
LOCKHEED MARTIN Work Order EAC00198
EPA Contract No. EP-C-04-032

Submitted to
T. Johnson
EPA-ERT

Vinod Kansal 11/30/06
V. Kansal Date
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11/27/06
D. Killeen Date
Quality Assurance Officer

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11/30/06
D. Miller Date
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Reviewed by:
J. Soroka

Table of Contents

Appendices will be furnished on request.

Introduction

REAC personnel in response to WA 0-198, provided analytical support for environmental samples collected from the Vestal Chlorinated Hydrocarbons Site, located in Vestal, NY as described in the following table. The support also included QA/QC, data review, and preparation of an analytical report containing a summary of the analytical and the QA/QC results.

The samples were treated with procedures consistent with those specified in SOP #1008.

COC #	Number of Samples	Sampling Date	Date Received	Matrix	Analysis/ Method	Laboratory	Data Package
0-198-000-09	12	08/21/06	08/23/06	Soil	VOC/REAC SOP 1807	REAC[1]	R 399
0-198-000-10	13	08/22/06	08/23/06				
0-198-000-11	10	08/22-23/06	08/24/06				
0-198-000-12	15	08/23-24/06	08/25/06				
0-198-000-13	11	08/25/06	08/28/06				
0-198-000-14	15	09/05/06	09/08/06				R 396
	17	09/06/06	09/08/06				
	1	09/06/06	09/08/06	Water	VOC/REAC SOP 1806		
0-198-000-15	6	09/07/06	09/08/06				
	6	09/07/06	09/08/06	Soil	VOC/REAC SOP 1807		R 398
0-198-000-11	9	08/22-23/06	08/24/06				
0-198-000-12	2	08/23-24/06	08/25/06				
0-198-000-13	24	08/25/06	08/28/06				
	6	08/25/06	08/28/06	Water	VOC/REAC SOP 1806		

[1]REAC Analytical Laboratory is NELAC certified.

Case Narrative

The data in this report have been validated to three significant figures. Any other representation of the data is the responsibility of the user. Values less than 25 percent of the reporting limits for organic analyses have not been reported.

VOC in Soil and Water Package R 396

The Soil Blank A091506-2 contained 1,1,1-trichloroethane. Sample numbers 15166, 15161, 15163 and

15164 contained 1,1,1-trichloroethane at less than five times the blank concentration and are reported as non detects.

For continuing calibration verification (09/09/06), acetone exceeded the percent difference criteria. Acetone results in associated samples 15185 and 15190 are reported as estimated (J).

Percent surrogate recovery for 1,2-dichloroethane-d4 did not meet QC limits for several samples. 1,1-dichloroethane results in samples 15157 and 15179: 1,1,1-trichloroethane results in samples 15157, 15179, 15177 and 04112; acetone in sample 15179; 1,1-dichloroethene in sample 15179; and trichloroethene in sample 15179 and 15177 are estimated (J).

For sample number 15164, the internal standard areas for bromochloromethane, 1,4-difluorobenzene and chlorobenzene-d5 were below 50% on the initial run and re-analysis probably due to the matrix. Results for trichloroethene are reported as `estimated (J) and the remaining analytes are rejected (R).

Result for 1,1,1-trichloroethane in sample 15165 exceeded the linear calibration range; the concentration of this compound is estimated (J).

VOC in Soil Package R 399

The glass jar containing sample 19168 was received broken. The results for this sample should be used with caution.

Soil Blank, B082706-3, contained 7.52 µg/kg acetone: the acetone results for samples 23877, 23739 and 23873 are reported as non-detects.

2-Butanone, bromoform, 4-methyl-2-pentanone, 2-hexanone, 1,2 dibromo-3-chloropropane, 1,2,4-trichlorobenzene, hexachlorobutadiene, naphthalene and 1,2,3-trichlorobenzene did not pass the percent difference QC limits for the continuing calibration on 8/27/06. 1,2,4-trichlorobenzene and naphthalene results in sample 23879 are reported as estimated (J).

Surrogate 1,2-dichloroethane-d4 recovery in sample 23881 was above the QC limits. Trichlorofluoromethane, acetone, 1,1-dichloroethane, carbon tetrachloride, tetrachloroethene, chlorobenzene, isopropyl benzene, 1,1,2,2-tetrachloroethane, n-propylbenzene, 1,3,5-trimethylbenzene, p-isopropyltoluene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, naphthalene are reported as estimated (J).

Surrogate 1,2-dichloroethane-d4 recovery in sample 00396 was above the QC limits. Methylene chloride, 1,1,2-trichloroethane, toluene, tetrachloroethene, p+m-xylenes, o-xylene, n-propylbenzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,2,4-trichlorobenzene and 1,2,3-trichlorobenzene are reported as estimated (J).

The following samples contained compounds which were outside the linear range of the calibration. Analysis of the diluted samples did not match the original results. The original results are reported as estimated (J). The relevant samples and compounds are as follows:

Sample Number	Compounds
04186	cis-1,2-dichloroethene and toluene
04187	1,1-dichloroethene and toluene
19157	cis-1,2-dichloroethene
23882	1,1-dichloroethene, 1,1,1-trichloroethane and trichloroethene
23881	1,1-dichloroethene, cis-1,2-dichloroethene and toluene
00393	1,1,1-trichloroethane and trichloroethene

1,1-Dichloroethene, cis-1,2-dichloroethene, 1,1,1-trichloroethane and toluene concentrations in sample 04199 were above the linear range of the calibration. The diluted sample concentrations were below the reporting limits. The undiluted sample results were reported as estimated (J).

1,1,1-Trichloroethane concentration in sample 00396 exceeded the linear calibration range. 1,1,1-Trichloroethane result in this sample is reported as estimated (J).

The following compounds, 1,1-dichloroethene, chloroform, 1,1,2-trichloroethane, toluene, tetrachloroethene, ethylbenzene, p&m- xylenes, 0-xylenes, 1,2,4-trimethyl benzene and naphthalene in sample number 00399, upon dilution were either diluted out or were below the reporting limit. The initial analysis results are reported as estimated (J).

Sample 23880 had possible carryover from the previous sample analysis. 1,1,1-Trichloroethane and trichloroethene results are reported as estimated (J) for this sample.

MS/MSD recovery for trichloroethene was outside the QC limits; trichloroethene result in sample 04131 is reported as estimated(J). MSD recovery for trichloroethene in sample 19154 was outside the QC limits and is reported as estimated (J).

MS/MSD recovery for trichloroethene was below 20% in sample 04185. Trichloroethene is reported as estimated (J).

Trichloroethene MS result was above the QC limits for 00394. Trichloroethene is reported as estimated (J) for this sample.

VOC in Soil and Water Package R 393

Water method blank A-083106-3 contained 1,1,1-trichloroethane. Concentration of 1,1,1-trichloroethane in sample 23893 was reported as estimated (J).

In the initial calibration of 08/28/06 percent relative standard deviation for acetone exceeded the QC criteria. Since an acceptable linear regression was not done for acetone, the acetone concentration is estimated (J) for the associated samples 15136 and 15140.

In the initial calibration of 08/30/06 percent relative standard deviation for vinyl chloride exceeded the QC criteria. Since an acceptable linear regression was not done for vinyl chloride, the vinyl chloride concentration is estimated (J) for samples 23892, 23893 and 23890.

Percent difference for chloroethane and 2,2-dichloropropane exceeded the qualifying criteria in the continuing calibration of 09/06/06. The 2,2-dichloropropane results in samples 23885, 00395, 23891, 00625, 00626, 00629, 00627, 23897, 00365, 23895 and methanol blank MBLK-090606-1 are estimated (UJ).

In the continuing calibration of 09/07/06 percent difference for chloroethane, acetone, trichlorofluoromethane and 2,2-dichloropropane exceeded the QC criteria. The trichlorofluoromethane result is estimated (J) for sample 23886

The percent recovery exceeded acceptable QC criteria for surrogate p-bromofluorobenzene in samples 19167/1000x and 15141/50x; and the surrogate 1,2-dichloroethane-d4 in samples 23892, 00397/1000x, 00366/1000x, 00366/2000x, 00397/250C, 23896/1000x and 00385/1000x. Analytes are estimated (J) in the following samples:

- The concentration of 1,1,1-trichloroethane is estimated for samples 00366, 00385, 00397, 15141, 19167 and 23896.
- The concentration of 1,1-dichloroethene is estimated for samples 00366, 00397 and 23896.
- The concentration of trichloroethene is estimated for samples 00397 and 15141.
- The concentration of 1,1-dichloroethane is estimated for sample 00397.
- The concentration of vinyl chloride, chloromethane, chloroethane, trans-1,2-dichloroethene, 2-butanone, benzene, tetrachloroethene, chlorobenzene, 1,1,1,2-tetrachloroethane, ethylbenzene, p&m-xylenes, o-xylene, 1,1,2,2-tetrachloroethane, n-propylbenzene, 1,3,5-trimethylbenzene,

1,2,4-trimethylbenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene in sample 23892.

The following analytes are estimated (J) in the following samples since the linear calibration range was exceeded for sample 23892: methylene chloride, cis-1,2-dichloroethene, chloroform, 1,1,1-trichloroethene and toluene and for sample 23890: chloroethane and cis-1,2-dichloroethene

Based on professional judgement acetone in samples 00366, 00389, 00390 and 00383 through 00387 is rejected (R) since the sample results linearly increase with dilution and are probably an artifact. The methylene chloride concentration in sample 23718 is also rejected (R) because the sample results vary with dilution and is probably an artifact.

Summary of Abbreviations

B	Analyte was found in the blank
BFB	Bromofluorobenzene
cont.	Continued
D	(Surrogate Table) value is from a diluted sample and was not calculated (Result Table) result was obtained from a diluted sample
Dioxin	Polychlorinated Dibenzo-p-dioxins (PCDD) and Polychlorinated Dibenzofurans and/or PCDD and PCDF
CLP	Contract Laboratory Procedure
COC	Chain of Custody
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
DFTPP	Decafluorotriphenylphosphine
E	Value is greater than the highest linear standard and is estimated
EMPC	Estimated maximum possible concentration
J	Value is estimated
J+	Value is estimated high
J-	Value is estimated low
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS (BS)	Matrix Spike (Blank Spike)
MSD (BSD	Matrix Spike Duplicate (Blank Spike Duplicate)
MW	Molecular Weight
NA	Not Applicable or Not Available
NC	Not Calculated
NR	Not Requested
NS	Not Spiked
% D	Percent Difference
% Rec.	Percent Recovery
ppbv	parts per billion by volume
ppm	parts per million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
QL	Quantitation Limit
R	Value is unusable
RL	Reporting Limit
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SIM	Selected Ion Monitoring
Surr	Surrogate
TCLP	Toxic Characteristics Leaching Procedure
U	Not detected

m^3	cubic meter	kg	kilogram	µg	microgram
L	liter	g	gram	pg	picogram
mg	milligram	ng	nanogram	µL	microliter

* Value exceeds the acceptable QC limit

Revision 9/21/06

Table 1.1 Result of the Analysis for VOC in Water
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Method: REAC SOP 1806

Sample No.	Water Blank B 090906-2		15185		15188		15193		15190	
Location:			MW-005 25-30'		MW-A		MW-A dup		MW-G	
Dilution Factor	1		100		1		1		100	
Analyte	Result µg/L	RL µg/L	Result µg/L	RL µg/L	Result µg/L	RL µg/L	Result µg/L	RL µg/L	Result µg/L	RL µg/L
Dichlorodifluoromethane	U	5.00	U	500	U	5.00	U	5.00	U	500
Chloromethane	U	5.00	U	500	U	5.00	U	5.00	U	500
Vinyl Chloride	U	5.00	U	500	U	5.00	U	5.00	U	500
Bromomethane	U	5.00	U	500	U	5.00	U	5.00	U	500
Chloroethane	U	5.00	U	500	U	5.00	U	5.00	U	500
Trichlorofluoromethane	U	5.00	U	500	U	5.00	U	5.00	U	500
Acetone	U	20.0	2140 J	2000	U	20.0	U	20.0	2380 J	2000
1,1-Dichloroethene	U	5.00	1250	500	2.10 J	5.00	2.20 J	5.00	U	500
Methylene Chloride	U	5.00	U	500	U	5.00	U	5.00	U	500
Carbon Disulfide	U	5.00	U	500	U	5.00	U	5.00	U	500
Methyl-t-butyl Ether	U	5.00	U	500	U	5.00	U	5.00	U	500
trans-1,2-Dichloroethene	U	5.00	U	500	U	5.00	U	5.00	U	500
1,1-Dichloroethane	U	5.00	244 J	500	3.93 J	5.00	4.04 J	5.00	U	500
2-Butanone	U	5.00	U	500	U	5.00	U	5.00	U	500
2,2-Dichloropropane	U	5.00	U	500	U	5.00	U	5.00	U	500
cis-1,2-Dichloroethene	U	5.00	U	500	U	5.00	U	5.00	U	500
Chloroform	U	5.00	U	500	U	5.00	U	5.00	U	500
1,1-Dichloropropene	U	5.00	U	500	U	5.00	U	5.00	U	500
1,2-Dichloroethane	U	5.00	U	500	U	5.00	U	5.00	U	500
1,1,1-Trichloroethane	U	5.00	75800	5000	U	5.00	U	5.00	5250	500
Carbon Tetrachloride	U	5.00	U	500	U	5.00	U	5.00	U	500
Benzene	U	5.00	U	500	U	5.00	U	5.00	U	500
Trichloroethene	U	5.00	191 J	500	U	5.00	U	5.00	3340	500
1,2-Dichloropropane	U	5.00	U	500	U	5.00	U	5.00	U	500
Bromodichloromethane	U	5.00	U	500	U	5.00	U	5.00	U	500
Dibromomethane	U	5.00	U	500	U	5.00	U	5.00	U	500
cis-1,3-Dichloropropene	U	5.00	U	500	U	5.00	U	5.00	U	500
trans-1,3-Dichloropropene	U	5.00	U	500	U	5.00	U	5.00	U	500
1,1,2-Trichloroethane	U	5.00	U	500	U	5.00	U	5.00	U	500
1,3-Dichloropropane	U	5.00	U	500	U	5.00	U	5.00	U	500
Dibromochloromethane	U	5.00	U	500	U	5.00	U	5.00	U	500
1,2-Dibromoethane	U	5.00	U	500	U	5.00	U	5.00	U	500
Bromoform	U	5.00	U	500	U	5.00	U	5.00	U	500
4-Methyl-2-pentanone	U	5.00	U	500	U	5.00	U	5.00	U	500
Toluene	U	5.00	U	500	U	5.00	U	5.00	U	500
2-Hexanone	U	5.00	U	500	U	5.00	U	5.00	U	500
Tetrachloroethene	U	5.00	U	500	U	5.00	U	5.00	U	500
Chlorobenzene	U	5.00	U	500	U	5.00	U	5.00	U	500
1,1,1,2-Tetrachloroethane	U	5.00	U	500	U	5.00	U	5.00	U	500
Ethylbenzene	U	5.00	U	500	U	5.00	U	5.00	U	500
p&m-Xylene	U	10.0	U	1000	U	10.0	U	10.0	U	1000
o-Xylene	U	5.00	U	500	U	5.00	U	5.00	U	500
Styrene	U	5.00	U	500	U	5.00	U	5.00	U	500
Isopropylbenzene	U	5.00	U	500	U	5.00	U	5.00	U	500
1,1,2,2-Tetrachloroethane	U	5.00	U	500	U	5.00	U	5.00	U	500
1,2,3-Trichloropropane	U	5.00	U	500	U	5.00	U	5.00	U	500
n-Propylbenzene	U	5.00	U	500	U	5.00	U	5.00	U	500
Bromobenzene	U	5.00	U	500	U	5.00	U	5.00	U	500
1,3,5-Trimethylbenzene	U	5.00	U	500	U	5.00	U	5.00	U	500
2-Chlorotoluene	U	5.00	U	500	U	5.00	U	5.00	U	500
4-Chlorotoluene	U	5.00	U	500	U	5.00	U	5.00	U	500
tert-Butylbenzene	U	5.00	U	500	U	5.00	U	5.00	U	500
1,2,4-Trimethylbenzene	U	5.00	U	500	U	5.00	U	5.00	U	500
sec-Butylbenzene	U	5.00	U	500	U	5.00	U	5.00	U	500
p-Isopropyltoluene	U	5.00	U	500	U	5.00	U	5.00	U	500
1,3-Dichlorobenzene	U	5.00	U	500	U	5.00	U	5.00	U	500
1,4-Dichlorobenzene	U	5.00	U	500	U	5.00	U	5.00	U	500
n-Butylbenzene	U	5.00	U	500	U	5.00	U	5.00	U	500
1,2-Dichlorobenzene	U	5.00	U	500	U	5.00	U	5.00	U	500
1,2-Dibromo-3-chloropropane	U	5.00	U	500	U	5.00	U	5.00	U	500
1,2,4-Trichlorobenzene	U	5.00	U	500	U	5.00	U	5.00	U	500
Hexachlorobutadiene	U	5.00	U	500	U	5.00	U	5.00	U	500
Naphthalene	U	5.00	U	500	U	5.00	U	5.00	U	500
1,2,3-Trichlorobenzene	U	5.00	U	500	U	5.00	U	5.00	U	500

rv2311

Table 1.1(cont.) Results of the Analysis for VOC in Water
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Method: REAC SOP 1806

Sample No.	Water Blank B 091106-1		15174		15175	
Location:			MW-B		MW-F	
Dilution Factor	1		1		1	
Analyte	Result µg/L	RL µg/L	Result µg/L	RL µg/L	Result µg/L	RL µg/L
Dichlorodifluoromethane	U	5.00	U	5.00	U	5.00
Chloromethane	U	5.00	U	5.00	U	5.00
Vinyl Chloride	U	5.00	U	5.00	U	5.00
Bromomethane	U	5.00	U	5.00	U	5.00
Chloroethane	U	5.00	U	5.00	U	5.00
Trichlorofluoromethane	U	5.00	U	5.00	U	5.00
Acetone	U	20.0	U	20.0	U	20.0
1,1-Dichloroethene	U	5.00	U	5.00	U	5.00
Methylene Chloride	U	5.00	U	5.00	U	5.00
Carbon Disulfide	U	5.00	U	5.00	U	5.00
Methyl-t-butyl Ether	U	5.00	U	5.00	U	5.00
trans-1,2-Dichloroethene	U	5.00	U	5.00	U	5.00
1,1-Dichloroethane	U	5.00	U	5.00	U	5.00
2-Butanone	U	5.00	U	5.00	U	5.00
2,2-Dichloropropane	U	5.00	U	5.00	U	5.00
cis-1,2-Dichloroethene	U	5.00	U	5.00	U	5.00
Chloroform	U	5.00	U	5.00	U	5.00
1,1-Dichloropropene	U	5.00	U	5.00	U	5.00
1,2-Dichloroethane	U	5.00	U	5.00	U	5.00
1,1,1-Trichloroethane	U	5.00	U	5.00	12.1	5.00
Carbon Tetrachloride	U	5.00	U	5.00	U	5.00
Benzene	U	5.00	U	5.00	U	5.00
Trichloroethene	U	5.00	U	5.00	13.5	5.00
1,2-Dichloropropane	U	5.00	U	5.00	U	5.00
Bromodichloromethane	U	5.00	U	5.00	U	5.00
Dibromomethane	U	5.00	U	5.00	U	5.00
cis-1,3-Dichloropropene	U	5.00	U	5.00	U	5.00
trans-1,3-Dichloropropene	U	5.00	U	5.00	U	5.00
1,1,2-Trichloroethane	U	5.00	U	5.00	U	5.00
1,3-Dichloropropane	U	5.00	U	5.00	U	5.00
Dibromochloromethane	U	5.00	U	5.00	U	5.00
1,2-Dibromoethane	U	5.00	U	5.00	U	5.00
Bromoform	U	5.00	U	5.00	U	5.00
4-Methyl-2-pentanone	U	5.00	U	5.00	U	5.00
Toluene	U	5.00	U	5.00	U	5.00
2-Hexanone	U	5.00	U	5.00	U	5.00
Tetrachloroethene	U	5.00	U	5.00	U	5.00
Chlorobenzene	U	5.00	U	5.00	U	5.00
1,1,1,2-Tetrachloroethane	U	5.00	U	5.00	U	5.00
Ethylbenzene	U	5.00	U	5.00	U	5.00
p&m-Xylene	U	10.0	U	10.0	U	10.0
o-Xylene	U	5.00	U	5.00	U	5.00
Styrene	U	5.00	U	5.00	U	5.00
Isopropylbenzene	U	5.00	U	5.00	U	5.00
1,1,2,2-Tetrachloroethane	U	5.00	U	5.00	U	5.00
1,2,3-Trichloropropane	U	5.00	U	5.00	U	5.00
n-Propylbenzene	U	5.00	U	5.00	U	5.00
Bromobenzene	U	5.00	U	5.00	U	5.00
1,3,5-Trimethylbenzene	U	5.00	U	5.00	U	5.00
2-Chlorotoluene	U	5.00	U	5.00	U	5.00
4-Chlorotoluene	U	5.00	U	5.00	U	5.00
tert-Butylbenzene	U	5.00	U	5.00	U	5.00
1,2,4-Trimethylbenzene	U	5.00	U	5.00	U	5.00
sec-Butylbenzene	U	5.00	U	5.00	U	5.00
p-Isopropyltoluene	U	5.00	U	5.00	U	5.00
1,3-Dichlorobenzene	U	5.00	U	5.00	U	5.00
1,4-Dichlorobenzene	U	5.00	U	5.00	U	5.00
n-Butylbenzene	U	5.00	U	5.00	U	5.00
1,2-Dichlorobenzene	U	5.00	U	5.00	U	5.00
1,2-Dibromo-3-chloropropane	U	5.00	U	5.00	U	5.00
1,2,4-Trichlorobenzene	U	5.00	U	5.00	U	5.00
Hexachlorobutadiene	U	5.00	U	5.00	U	5.00
Naphthalene	U	5.00	U	5.00	U	5.00
1,2,3-Trichlorobenzene	U	5.00	U	5.00	U	5.00

rv2312

Table 1.1(cont.) *Results of the Analysis for VOC in Water*
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Method: REAC SOP 1806

Sample No.	Water Blank B 091206-2		15189	
Location:			MW-43/44	
Dilution Factor	1		2	

Analyte	Result µg/L	*RL* µg/L	Result µg/L		*RL* µg/L
Dichlorodifluoromethane	U	5.00	U		10.0
Chloromethane	U	5.00	U		10.0
Vinyl Chloride	U	5.00	U		10.0
Bromomethane	U	5.00	U		10.0
Chloroethane	U	5.00	U		10.0
Trichlorofluoromethane	U	5.00	U		10.0
Acetone	U	20.0	U		40.0
1,1-Dichloroethene	U	5.00	U		10.0
Methylene Chloride	U	5.00	U		10.0
Carbon Disulfide	U	5.00	U		10.0
Methyl-t-butyl Ether	U	5.00	U		10.0
trans-1,2-Dichloroethene	U	5.00	U		10.0
1,1-Dichloroethane	U	5.00	14.2		10.0
2-Butanone	U	5.00	U		10.0
2,2-Dichloropropane	U	5.00	U		10.0
cis-1,2-Dichloroethene	U	5.00	U		10.0
Chloroform	U	5.00	U		10.0
1,1-Dichloropropene	U	5.00	U		10.0
1,2-Dichloroethane	U	5.00	U		10.0
1,1,1-Trichloroethane	U	5.00	246		10.0
Carbon Tetrachloride	U	5.00	U		10.0
Benzene	U	5.00	U		10.0
Trichloroethene	U	5.00	2.54	J	10.0
1,2-Dichloropropane	U	5.00	U		10.0
Bromodichloromethane	U	5.00	U		10.0
Dibromomethane	U	5.00	U		10.0
cis-1,3-Dichloropropene	U	5.00	U		10.0
trans-1,3-Dichloropropene	U	5.00	U		10.0
1,1,2-Trichloroethane	U	5.00	U		10.0
1,3-Dichloropropane	U	5.00	U		10.0
Dibromochloromethane	U	5.00	U		10.0
1,2-Dibromoethane	U	5.00	U		10.0
Bromoform	U	5.00	U		10.0
4-Methyl-2-pentanone	U	5.00	U		10.0
Toluene	U	5.00	U		10.0
2-Hexanone	U	5.00	U		10.0
Tetrachloroethene	U	5.00	U		10.0
Chlorobenzene	U	5.00	U		10.0
1,1,1,2-Tetrachloroethane	U	5.00	U		10.0
Ethylbenzene	U	5.00	U		10.0
p&m-Xylene	U	10.0	U		20.0
o-Xylene	U	5.00	U		10.0
Styrene	U	5.00	U		10.0
Isopropylbenzene	U	5.00	U		10.0
1,1,2,2-Tetrachloroethane	U	5.00	U		10.0
1,2,3-Trichloropropane	U	5.00	U		10.0
n-Propylbenzene	U	5.00	U		10.0
Bromobenzene	U	5.00	U		10.0
1,3,5-Trimethylbenzene	U	5.00	U		10.0
2-Chlorotoluene	U	5.00	U		10.0
4-Chlorotoluene	U	5.00	U		10.0
tert-Butylbenzene	U	5.00	U		10.0
1,2,4-Trimethylbenzene	U	5.00	U		10.0
sec-Butylbenzene	U	5.00	U		10.0
p-Isopropyltoluene	U	5.00	U		10.0
1,3-Dichlorobenzene	U	5.00	U		10.0
1,4-Dichlorobenzene	U	5.00	U		10.0
n-Butylbenzene	U	5.00	U		10.0
1,2-Dichlorobenzene	U	5.00	U		10.0
1,2-Dibromo-3-chloropropane	U	5.00	U		10.0
1,2,4-Trichlorobenzene	U	5.00	U		10.0
Hexachlorobutadiene	U	5.00	U		10.0
Naphthalene	U	5.00	U		10.0
1,2,3-Trichlorobenzene	U	5.00	U		10.0

rv2313

Table 1.1(cont.)) Results of the Analysis for VOC in Water
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Method: REAC SOP 1807

Sample No	Water Blank A 083106-1		23892		23893		23890		23887	
Location:			GW-009		GW-007		GW-020		GW-009DUP	
Dilution Factor	1				1		1		10000	
Analyte	Result µg/L	RL µg/L	Result µg/L	RL µg/L	Result µg/L	RL µg/L	Result µg/L	RL µg/L	Result µg/L	RL µg/L
Dichlorodifluoromethane	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
Chloromethane	U	5.00	2.76 J	5.00	U	5.00	U	5.00	U	50000
Vinyl Chloride	U	5.00	65.4 J	5.00	1.39 J	5.00	8.41 J	5.00	U	50000
Bromomethane	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
Chloroethane	U	5.00	60.2 J	5.00	9.41	5.00	234 J	5.00	U	50000
Trichlorofluoromethane	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
Acetone	U	20.0	U	20.0	U	20.0	U	20.0	U	200000
1,1-Dichloroethene	U	5.00	103000	50000	438 J	500	6310	5000	16300 J	50000
Methylene Chloride	U	5.00	2640 J	5.00	3.83 J	5.00	17.3	5.00	U	50000
Carbon Disulfide	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
Methyl-t-butyl Ether	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
trans-1,2-Dichloroethene	U	5.00	16.2 J	5.00	U	5.00	3.12 J	5.00	U	50000
1,1-Dichloroethane	U	5.00	30200 J	50000	135	5.00	1530 J	500	16900 J	50000
2-Butanone	U	5.00	72.6 J	5.00	U	5.00	5.47	5.00	U	50000
2,2-Dichloropropane	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
cis-1,2-Dichloroethene	U	5.00	255 J	5.00	5.75	5.00	2490 J	500	U	50000
Chloroform	U	5.00	470 J	5.00	U	5.00	8.28	5.00	U	50000
1,1-Dichloropropene	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
1,2-Dichloroethane	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
1,1,1-Trichloroethane	U	5.00	1540000	50000	22100 J	1000	126000	5000	468000	50000
Carbon Tetrachloride	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
Benzene	U	5.00	12.3 J	5.00	U	5.00	U	5.00	U	50000
Trichloroethene	U	5.00	354000	50000	124	5.00	2490 J	5000	152000	50000
1,2-Dichloropropane	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
Bromodichloromethane	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
Dibromomethane	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
cis-1,3-Dichloropropene	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
trans-1,3-Dichloropropene	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
1,1,2-Trichloroethane	U	5.00	323 J	5.00	U	5.00	8.94	5.00	U	50000
1,3-Dichloropropane	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
Dibromochloromethane	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
1,2-Dibromoethane	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
Bromoform	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
4-Methyl-2-pentanone	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
Toluene	U	5.00	305 J	5.00	U	5.00	U	5.00	U	50000
2-Hexanone	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
Tetrachloroethene	U	5.00	37.9 J	5.00	4.25 J	5.00	5.66	5.00	U	50000
Chlorobenzene	U	5.00	1.44 J	5.00	U	5.00	U	5.00	U	50000
1,1,1,2-Tetrachloroethane	U	5.00	3.09 J	5.00	U	5.00	U	5.00	U	50000
Ethylbenzene	U	5.00	12.1 J	5.00	U	5.00	U	5.00	U	50000
p&m-Xylene	U	10.0	41.3 J	10.0	U	10.0	U	10.0	U	100000
o-Xylene	U	5.00	14.7 J	5.00	U	5.00	2.39 J	5.00	U	50000
Styrene	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
Isopropylbenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
1,1,2,2-Tetrachloroethane	U	5.00	8.36 J	5.00	U	5.00	U	5.00	U	50000
1,2,3-Trichloropropane	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
n-Propylbenzene	U	5.00	1.16 J	5.00	U	5.00	U	5.00	U	50000
Bromobenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
1,3,5-Trimethylbenzene	U	5.00	1.95 J	5.00	U	5.00	U	5.00	U	50000
2-Chlorotoluene	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
4-Chlorotoluene	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
tert-Butylbenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
1,2,4-Trimethylbenzene	U	5.00	7.00 J	5.00	U	5.00	4.94 J	5.00	U	50000
sec-Butylbenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
p-Isopropyltoluene	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
1,3-Dichlorobenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
1,4-Dichlorobenzene	U	5.00	1.30 J	5.00	U	5.00	U	5.00	U	50000
n-Butylbenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
1,2-Dichlorobenzene	U	5.00	6.13 J	5.00	U	5.00	U	5.00	U	50000
1,2-Dibromo-3-chloropropane	U	5.00	U	5.00	U	5.00	U	5.00	U	50000
1,2,4-Trichlorobenzene	U	5.00	2.31 J	5.00	U	5.00	U	5.00	U	50000
Hexachlorobutadiene	1.25 J	5.00	U	5.00	U	5.00	U	5.00	U	50000
Naphthalene	U	5.00	22.8 J	5.00	U	5.00	1.61 J	5.00	U	50000
1,2,3-Trichlorobenzene	U	5.00	U	5.00	U	5.00	U	5.00	U	50000

rv_2351

Table 1.1(cont.)) Results of the Analysis for VOC in Water
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Method: REAC SOP 1807

Sample Number	Water Blank 083106-1		23889		00632	
Sample Location:			GW-001		Old MW	
Dilution Factor	1		100		10	
Analyte	Result µg/L	RL µg/L	Result µg/L	RL µg/L	Result µg/L	RL µg/L
Dichlorodifluoromethane	U	5.00	U	500	U	50.0
Chloromethane	U	5.00	U	500	U	50.0
Vinyl Chloride	U	5.00	U	500	U	50.0
Bromomethane	U	5.00	U	500	U	50.0
Chloroethane	U	5.00	U	500	U	50.0
Trichlorofluoromethane	U	5.00	401 J	500	U	50.0
Acetone	U	5.00	U	2000	43.1 J	50.0
1,1-Dichloroethene	U	5.00	6860	500	33.0 J	50.0
Methylene Chloride	U	5.00	155 J	500	U	50.0
Carbon Disulfide	U	5.00	U	500	U	50.0
Methyl-t-butyl Ether	U	5.00	U	500	U	50.0
trans-1,2-Dichloroethene	U	5.00	U	500	U	50.0
1,1-Dichloroethane	U	5.00	592	500	69.4	50.0
2-Butanone	U	5.00	U	500	U	50.0
2,2-Dichloropropane	U	5.00	U	500	U	50.0
cis-1,2-Dichloroethene	U	5.00	3310	500	2.15 J	50.0
Chloroform	U	5.00	U	500	U	50.0
1,1-Dichloropropene	U	5.00	U	500	U	50.0
1,2-Dichloroethane	U	5.00	U	500	U	50.0
1,1,1-Trichloroethane	U	5.00	9700	500	426	50.0
Carbon Tetrachloride	U	5.00	U	500	U	50.0
Benzene	U	5.00	U	500	U	50.0
Trichloroethene	U	5.00	17200	500	417 J	50.0
1,2-Dichloropropane	U	5.00	U	500	U	50.0
Bromodichloromethane	U	5.00	U	500	U	50.0
Dibromomethane	U	5.00	U	500	U	50.0
cis-1,3-Dichloropropene	U	5.00	U	500	U	50.0
trans-1,3-Dichloropropene	U	5.00	U	500	U	50.0
1,1,2-Trichloroethane	U	5.00	U	500	U	50.0
1,3-Dichloropropane	U	5.00	U	500	U	50.0
Dibromochloromethane	U	5.00	U	500	U	50.0
1,2-Dibromoethane	U	5.00	U	500	U	50.0
Bromoform	U	5.00	U	500	U	50.0
4-Methyl-2-pentanone	U	5.00	U	500	U	50.0
Toluene	U	5.00	725	500	U	50.0
2-Hexanone	U	5.00	U	500	U	50.0
Tetrachloroethene	U	5.00	U	500	U	50.0
Chlorobenzene	U	5.00	U	500	U	50.0
1,1,1,2-Tetrachloroethane	U	5.00	U	500	U	50.0
Ethylbenzene	U	5.00	U	500	U	50.0
p&m-Xylene	U	5.00	U	1000	U	50.0
o-Xylene	U	5.00	U	500	U	50.0
Styrene	U	5.00	U	500	U	50.0
Isopropylbenzene	U	5.00	U	500	U	50.0
1,1,2,2-Tetrachloroethane	U	5.00	U	500	U	50.0
1,2,3-Trichloropropane	U	5.00	U	500	U	50.0
n-Propylbenzene	U	5.00	U	500	U	50.0
Bromobenzene	U	5.00	U	500	U	50.0
1,3,5-Trimethylbenzene	U	5.00	U	500	U	50.0
2-Chlorotoluene	U	5.00	U	500	U	50.0
4-Chlorotoluene	U	5.00	U	500	U	50.0
tert-Butylbenzene	U	5.00	U	500	U	50.0
1,2,4-Trimethylbenzene	U	5.00	U	500	U	50.0
sec-Butylbenzene	U	5.00	U	500	U	50.0
p-Isopropyltoluene	U	5.00	U	500	U	50.0
1,3-Dichlorobenzene	U	5.00	U	500	U	50.0
1,4-Dichlorobenzene	U	5.00	U	500	U	50.0
n-Butylbenzene	U	5.00	U	500	U	50.0
1,2-Dichlorobenzene	U	5.00	U	500	U	50.0
1,2-Dibromo-3-chloropropane	U	5.00	U	500	U	50.0
1,2,4-Trichlorobenzene	U	5.00	U	500	U	50.0
Hexachlorobutadiene	1.25 J	5.00	U	500	U	50.0
Naphthalene	U	5.00	U	500	U	50.0
1,2,3-Trichlorobenzene	U	5.00	U	500	U	50.0

rv_2352

Table 1.2 Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No:	MeOH Blank B 091106-I	A 0-109	A 10190
Location:		SB-036 18.5'	SB-036 19.5'
Dilution Factor	50	100	100
Percent Solids	100	85	87

Analyte	Result µg/Kg		RL µg/Kg	Result µg/Kg		RL µg/Kg	Result µg/Kg		RL µg/Kg
Dichlorodifluoromethane	U		250	U		588	U		575
Chloromethane	U		250	U		588	U		575
Vinyl Chloride	U		250	U		588	U		575
Bromomethane	U		250	U		588	U		575
Chloroethane	U		250	U		588	U		575
Trichlorofluoromethane	U		250	U		588	U		575
Acetone	U		1000	U		2350	U		2300
1,1-Dichloroethene	U		250	U		588	410	J	575
Methylene Chloride	U		250	U		588	U		575
Carbon Disulfide	U		250	U		588	U		575
Methyl-t-butyl Ether	U		250	U		588	U		575
trans-1,2-Dichloroethene	U		250	U		588	U		575
1,1-Dichloroethane	U		250	U		588	U		575
2-Butanone	U		250	U		588	U		575
2,2-Dichloropropane	U		250	U		588	U		575
cis-1,2-Dichloroethene	U		250	U		588	U		575
Chloroform	U		250	U		588	U		575
1,1-Dichloropropene	U		250	U		588	U		575
1,2-Dichloroethane	U		250	U		588	U		575
1,1,1-Trichloroethane	U		250	1940		588	10700		575
Carbon Tetrachloride	U		250	U		588	U		575
Benzene	U		250	U		588	U		575
Trichloroethene	U		250	538	J	588	271	J	575
1,2-Dichloropropane	U		250	U		588	U		575
Bromodichloromethane	U		250	U		588	U		575
Dibromomethane	U		250	U		588	U		575
cis-1,3-Dichloropropene	U		250	U		588	U		575
trans-1,3-Dichloropropene	U		250	U		588	U		575
1,1,2-Trichloroethane	U		250	U		588	U		575
1,3-Dichloropropane	U		250	U		588	U		575
Dibromochloromethane	U		250	U		588	U		575
1,2-Dibromoethane	U		250	U		588	U		575
Bromoform	U		250	U		588	U		575
4-Methyl-2-pentanone	U		250	U		588	U		575
Toluene	U		250	U		588	U		575
2-Hexanone	U		250	U		588	U		575
Tetrachloroethene	U		250	U		588	U		575
Chlorobenzene	U		250	U		588	U		575
1,1,1,2-Tetrachloroethane	U		250	U		588	U		575
Ethylbenzene	U		250	U		588	U		575
p&m-Xylene	U		500	U		1180	U		1150
o-Xylene	U		250	U		588	U		575
Styrene	U		250	U		588	U		575
Isopropylbenzene	U		250	U		588	U		575
1,1,2,2-Tetrachloroethane	U		250	U		588	U		575
1,2,3-Trichloropropane	U		250	U		588	U		575
n-Propylbenzene	U		250	U		588	U		575
Bromobenzene	U		250	U		588	U		575
1,3,5-Trimethylbenzene	U		250	U		588	U		575
2-Chlorotoluene	U		250	U		588	U		575
4-Chlorotoluene	U		250	U		588	U		575
tert-Butylbenzene	U		250	U		588	U		575
1,2,4-Trimethylbenzene	U		250	U		588	U		575
sec-Butylbenzene	U		250	U		588	U		575
p-Isopropyltoluene	U		250	U		588	U		575
1,3-Dichlorobenzene	U		250	U		588	U		575
1,4-Dichlorobenzene	U		250	U		588	U		575
n-Butylbenzene	U		250	U		588	U		575
1,2-Dichlorobenzene	U		250	U		588	U		575
1,2-Dibromo-3-chloropropane	U		250	U		588	U		575
1,2,4-Trichlorobenzene	U		250	U		588	U		575
Hexachlorobutadiene	U		250	U		588	U		575
Naphthalene	U		250	U		588	U		575
1,2,3-Trichlorobenzene	U		250	U		588	U		575

rv2362

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No:	MeOH Blank B 091206-1		A 04111 SB-035 19-20'		A 04113 SB-037 20'		A 04114 SB-038 15'		A 04116 SB-038 18'	
Location:			100		500		500		2000	
Dilution Factor	50		84		83		82		81	
Percent Solids	100									
Analyte	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg
Dichlorodifluoromethane	U	250	U	595	U	3010	U	3050	U	12300
Chloromethane	U	250	U	595	U	3010	U	3050	U	12300
Vinyl Chloride	U	250	U	595	U	3010	U	3050	U	12300
Bromomethane	U	250	U	595	U	3010	U	3050	U	12300
Chloroethane	U	250	U	595	U	3010	U	3050	U	12300
Trichlorofluoromethane	U	250	U	595	U	3010	U	3050	U	12300
Acetone	U	1000	U	2380	U	12000	U	12200	U	49400
1,1-Dichloroethene	U	250	U	595	U	3010	4150	3050	U	12300
Methylene Chloride	U	250	U	595	U	3010	U	3050	U	12300
Carbon Disulfide	U	250	U	595	U	3010	U	3050	U	12300
Methyl-t-butyl Ether	U	250	U	595	U	3010	U	3050	U	12300
trans-1,2-Dichloroethene	U	250	U	595	U	3010	U	3050	U	12300
1,1-Dichloroethane	U	250	U	595	U	3010	U	3050	U	12300
2-Butanone	U	250	U	595	U	3010	U	3050	U	12300
2,2-Dichloropropane	U	250	U	595	U	3010	U	3050	U	12300
cis-1,2-Dichloroethene	U	250	U	595	U	3010	U	3050	U	12300
Chloroform	U	250	U	595	U	3010	U	3050	U	12300
1,1-Dichloropropene	U	250	U	595	U	3010	U	3050	U	12300
1,2-Dichloroethane	U	250	9190	595	58000	3010	156000	6100	278000	12300
1,1,1-Trichloroethane	U	250	U	595	U	3010	U	3050	U	12300
Carbon Tetrachloride	U	250	U	595	U	3010	U	3050	U	12300
Benzene	U	250	561 J	595	U	3010	854 J	3050	U	12300
Trichloroethene	U	250	U	595	U	3010	U	3050	U	12300
1,2-Dichloropropane	U	250	U	595	U	3010	U	3050	U	12300
Bromodichloromethane	U	250	U	595	U	3010	U	3050	U	12300
Dibromomethane	U	250	U	595	U	3010	U	3050	U	12300
cis-1,3-Dichloropropene	U	250	U	595	U	3010	U	3050	U	12300
trans-1,3-Dichloropropene	U	250	U	595	U	3010	U	3050	U	12300
1,1,2-Trichloroethane	U	250	U	595	U	3010	U	3050	U	12300
1,3-Dichloropropane	U	250	U	595	U	3010	U	3050	U	12300
Dibromochloromethane	U	250	U	595	U	3010	U	3050	U	12300
1,2-Dibromoethane	U	250	U	595	U	3010	U	3050	U	12300
Bromoform	U	250	U	595	U	3010	U	3050	U	12300
4-Methyl-2-pentanone	U	250	U	595	U	3010	U	3050	U	12300
Toluene	U	250	U	595	U	3010	U	3050	U	12300
2-Hexanone	U	250	U	595	U	3010	U	3050	U	12300
Tetrachloroethene	U	250	U	595	U	3010	U	3050	U	12300
Chlorobenzene	U	250	U	595	U	3010	U	3050	U	12300
1,1,1,2-Tetrachloroethane	U	250	U	595	U	3010	U	3050	U	12300
Ethylbenzene	U	500	U	1190	U	6020	U	6100	U	24700
p&m-Xylene	U	250	U	595	U	3010	U	3050	U	12300
o-Xylene	U	250	U	595	U	3010	U	3050	U	12300
Styrene	U	250	U	595	U	3010	U	3050	U	12300
Isopropylbenzene	U	250	U	595	U	3010	U	3050	U	12300
1,1,2,2-Tetrachloroethane	U	250	U	595	U	3010	U	3050	U	12300
1,2,3-Trichloropropane	U	250	U	595	U	3010	U	3050	U	12300
n-Propylbenzene	U	250	U	595	U	3010	U	3050	U	12300
Bromobenzene	U	250	U	595	U	3010	U	3050	U	12300
1,3,5-Trimethylbenzene	U	250	U	595	U	3010	U	3050	U	12300
2-Chlorotoluene	U	250	U	595	U	3010	U	3050	U	12300
4-Chlorotoluene	U	250	U	595	U	3010	U	3050	U	12300
tert-Butylbenzene	U	250	U	595	U	3010	U	3050	U	12300
1,2,4-Trimethylbenzene	U	250	U	595	U	3010	U	3050	U	12300
sec-Butylbenzene	U	250	U	595	U	3010	U	3050	U	12300
p-Isopropyltoluene	U	250	U	595	U	3010	U	3050	U	12300
1,3-Dichlorobenzene	U	250	U	595	U	3010	U	3050	U	12300
1,4-Dichlorobenzene	U	250	U	595	U	3010	U	3050	U	12300
n-Butylbenzene	U	250	U	595	U	3010	U	3050	U	12300
1,2-Dichlorobenzene	U	250	U	595	U	3010	U	3050	U	12300
1,2-Dibromo-3-chloropropane	U	250	U	595	U	3010	U	3050	U	12300
1,2,4-Trichlorobenzene	U	250	U	595	U	3010	U	3050	U	12300
Hexachlorobutadiene	U	250	U	595	U	3010	U	3050	U	12300
Naphthalene	U	250	U	595	U	3010	U	3050	U	12300
1,2,3-Trichlorobenzene										

r2363

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No:	MeOH Blank B 091206-1		A 10193		A 04115	
Location:			SB-03(I 20'		SB-039 17-18'	
Dilution Factor	50		500		5000	
Percent Solids	100		83		82	

Analyte	Result µg/Kg	RL µg/Kg	Result µg/Kg		RL µg/Kg	Result µg/Kg		RL µg/Kg
Dichlorodifluoromethane	U	250	U		3010	U		30500
Chloromethane	U	250	U		3010	U		30500
Vinyl Chloride	U	250	U		3010	U		30500
Bromomethane	U	250	U		3010	U		30500
Chloroethane	U	250	U		3010	U		30500
Trichlorofluoromethane	U	1000	U		12000	U		122000
Acetone	U	250	2400	J	3010	12700	J	30500
1,1-Dichloroethene	U	250	U		3010	U		30500
Methylene Chloride	U	250	U		3010	U		30500
Carbon Disulfide	U	250	U		3010	U		30500
Methyl-t-butyl Ether	U	250	U		3010	U		30500
trans-1,2-Dichloroethene	U	250	U		3010	U		30500
1,1-Dichloroethane	U	250	U		3010	U		30500
2-Butanone	U	250	U		3010	U		30500
2,2-Dichloropropane	U	250	U		3010	U		30500
cis-1,2-Dichloroethene	U	250	U		3010	U		30500
Chloroform	U	250	U		3010	U		30500
1,1-Dichloropropene	U	250	U		3010	U		30500
1,2-Dichloroethane	U	250	51600		3010	884000		30500
1,1,1-Trichloroethane	U	250	U		3010	U		30500
Carbon Tetrachloride	U	250	U		3010	U		30500
Benzene	U	250	U		3010	U		30500
Trichloroethene	U	250	U		3010	U		30500
1,2-Dichloropropane	U	250	U		3010	U		30500
Bromodichloromethane	U	250	U		3010	U		30500
Dibromomethane	U	250	U		3010	U		30500
cis-1,3-Dichloropropene	U	250	U		3010	U		30500
trans-1,3-Dichloropropene	U	250	U		3010	U		30500
1,1,2-Trichloroethane	U	250	U		3010	U		30500
1,3-Dichloropropane	U	250	U		3010	U		30500
Dibromochloromethane	U	250	U		3010	U		30500
1,2-Dibromoethane	U	250	U		3010	U		30500
Bromoform	U	250	U		3010	U		30500
4-Methyl-2-pentanone	U	250	U		3010	U		30500
Toluene	U	250	U		3010	U		30500
2-Hexanone	U	250	U		3010	U		30500
Tetrachloroethene	U	250	U		3010	U		30500
Chlorobenzene	U	250	U		3010	U		30500
1,1,1,2-Tetrachloroethane	U	250	U		3010	U		30500
Ethylbenzene	U	500	U		6020	U		61000
p&m-Xylene	U	250	J		3010	U		30500
o-Xylene	U	250	J		3010	U		30500
Styrene	U	250	U		3010	U		30500
Isopropylbenzene	U	250	U		3010	U		30500
1,1,2,2-Tetrachloroethane	U	250	U		3010	U		30500
1,2,3-Trichloropropane	U	250	U		3010	U		30500
n-Propylbenzene	U	250	U		3010	U		30500
Bromobenzene	U	250	U		3010	U		30500
1,3,5-Trimethylbenzene	U	250	U		3010	U		30500
2-Chlorotoluene	U	250	U		3010	U		30500
4-Chlorotoluene	U	250	U		3010	U		30500
tert-Butylbenzene	U	250	U		3010	U		30500
1,2,4-Trimethylbenzene	U	250	U		3010	U		30500
sec-Butylbenzene	U	250	U		3010	U		30500
p-Isopropyltoluene	U	250	U		3010	U		30500
1,3-Dichlorobenzene	U	250	U		3010	U		30500
1,4-Dichlorobenzene	U	250	U		3010	U		30500
n-Butylbenzene	U	250	U		3010	U		30500
1,2-Dichlorobenzene	U	250	U		3010	U		30500
1,2-Dibromo-3-chloropropane	U	250	U		3010	U		30500
1,2,4-Trichlorobenzene	U	250	U		3010	U		30500
Hexachlorobutadiene	U	250	U		3010	U		30500
Naphthalene	U	250	U		3010	U		30500
1,2,3-Trichlorobenzene	U	250	U		3010	U		30500

rv2364

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No:	MeOH Blank B 091206-4		A 10191 SB-039 19.5'		A 10192 SB-039 20'		A 22409 SB-040 18'		A 22428 SB-040 20'	
Location:			500		1000		2500		100	
Dilution Factor	50		83		84		81		85	
Percent Solids	100									

Analyte	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg
Dichlorodifluoromethane	U	250	U	3010	U	5950	U	15400	U	588
Chloromethane	U	250	U	3010	U	5950	U	15400	U	588
Vinyl Chloride	U	250	U	3010	U	5950	U	15400	U	588
Bromomethane	U	250	U	3010	U	5950	U	15400	U	588
Chloroethane	U	250	U	3010	U	5950	U	15400	U	588
Trichlorofluoromethane	U	250	U	3010	U	5950	U	15400	U	588
Acetone	U	1000	U	12000	U	23800	U	61700	U	2350
1,1-Dichloroethene	U	250	U	3010	U	5950	U	15400	319 J	588
Methylene Chloride	U	250	U	3010	U	5950	U	15400	U	588
Carbon Disulfide	U	250	U	3010	U	5950	U	15400	U	588
Methyl-t-butyl Ether	U	250	U	3010	U	5950	U	15400	U	588
trans-1,2-Dichloroethene	U	250	U	3010	U	5950	U	15400	U	588
1,1-Dichloroethane	U	250	U	3010	U	5950	U	15400	U	588
2-Butanone	U	250	U	3010	U	5950	U	15400	U	588
2,2-Dichloropropane	U	250	U	3010	U	5950	U	15400	U	588
cis-1,2-Dichloroethene	U	250	U	3010	U	5950	U	15400	U	588
Chloroform	U	250	U	3010	U	5950	U	15400	U	588
1,1-Dichloropropene	U	250	U	3010	U	5950	U	15400	U	588
1,2-Dichloroethane	U	250	86500	3010	18300	5950	328000	15400	16700	588
1,1,1-Trichloroethane	U	250	U	3010	U	5950	U	15400	U	588
Carbon Tetrachloride	U	250	U	3010	U	5950	U	15400	U	588
Benzene	U	250	U	3010	U	5950	U	15400	233 J	588
Trichloroethene	U	250	U	3010	U	5950	U	15400	U	588
1,2-Dichloropropane	U	250	U	3010	U	5950	U	15400	U	588
Bromodichloromethane	U	250	U	3010	U	5950	U	15400	U	588
Dibromomethane	U	250	U	3010	U	5950	U	15400	U	588
cis-1,3-Dichloropropene	U	250	U	3010	U	5950	U	15400	U	588
trans-1,3-Dichloropropene	U	250	U	3010	U	5950	U	15400	U	588
1,1,2-Trichloroethane	U	250	U	3010	U	5950	U	15400	U	588
1,3-Dichloropropane	U	250	U	3010	U	5950	U	15400	U	588
Dibromochloromethane	U	250	U	3010	U	5950	U	15400	U	588
1,2-Dibromoethane	U	250	U	3010	U	5950	U	15400	U	588
Bromoform	U	250	U	3010	U	5950	U	15400	U	588
4-Methyl-2-pentanone	U	250	U	3010	U	5950	U	15400	U	588
Toluene	U	250	U	3010	U	5950	U	15400	U	588
2-Hexanone	U	250	U	3010	U	5950	U	15400	U	588
Tetrachloroethene	U	250	U	3010	U	5950	U	15400	U	588
Chlorobenzene	U	250	U	3010	U	5950	U	15400	U	588
1,1,1,2-Tetrachloroethane	U	250	U	3010	U	5950	U	15400	U	588
Ethylbenzene	U	500	U	6020	U	11900	U	30900	U	1180
p&m-Xylene	U	250	U	3010	U	5950	U	15400	U	588
o-Xylene	U	250	U	3010	U	5950	U	15400	U	588
Styrene	U	250	U	3010	U	5950	U	15400	U	588
Isopropylbenzene	U	250	U	3010	U	5950	U	15400	U	588
1,1,2,2-Tetrachloroethane	U	250	U	3010	U	5950	U	15400	U	588
1,2,3-Trichloropropane	U	250	U	3010	U	5950	U	15400	U	588
n-Propylbenzene	U	250	U	3010	U	5950	U	15400	U	588
Bromobenzene	U	250	U	3010	U	5950	U	15400	U	588
1,3,5-Trimethylbenzene	U	250	U	3010	U	5950	U	15400	U	588
2-Chlorotoluene	U	250	U	3010	U	5950	U	15400	U	588
4-Chlorotoluene	U	250	U	3010	U	5950	U	15400	U	588
tert-Butylbenzene	U	250	U	3010	U	5950	U	15400	U	588
1,2,4-Trimethylbenzene	U	250	U	3010	U	5950	U	15400	U	588
sec-Butylbenzene	U	250	U	3010	U	5950	U	15400	U	588
p-Isopropyltoluene	U	250	U	3010	U	5950	U	15400	U	588
1,3-Dichlorobenzene	U	250	U	3010	U	5950	U	15400	U	588
1,4-Dichlorobenzene	U	250	U	3010	U	5950	U	15400	U	588
n-Butylbenzene	U	250	U	3010	U	5950	U	15400	U	588
1,2-Dichlorobenzene	U	250	U	3010	U	5950	U	15400	U	588
1,2-Dibromo-3-chloropropane	U	250	U	3010	U	5950	U	15400	U	588
1,2,4-Trichlorobenzene	U	250	U	3010	U	5950	U	15400	U	588
Hexachlorobutadiene	U	250	U	3010	U	5950	U	15400	U	588
Naphthalene	U	250	U	3010	U	5950	U	15400	U	588
1,2,3-Trichlorobenzene	U	250	U	3010	U	5950	U	15400	U	588

RV2365

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No:	MeOH Blank B 091206-4		A 23899 SB-041 16.5'		A 15159 SB-041 19'		A 15158 SB-042 19.5'		A 23898 SB-044 15.5'	
Location:			2000		500		200		100	
Dilution Factor	50									
Percent Solids	100		82		87		82		83	

Analyte	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg
Dichlorodifluoromethane	U	250	U	122000	U	2870	U	1220	U	602
Chloromethane	U	250	U	122000	U	2870	U	1220	U	602
Vinyl Chloride	U	250	U	122000	U	2870	U	1220	U	602
Bromomethane	U	250	U	122000	U	2870	U	1220	U	602
Chloroethane	U	250	U	122000	U	2870	U	1220	U	602
Trichlorofluoromethane	U	250	U	122000	U	2870	U	1220	U	602
Acetone	U	1000	U	488000	U	11500	U	4880	U	2410
1,1-Dichloroethene	U	250	U	122000	U	2870	1180 J	1220	519 J	602
Methylene Chloride	U	250	U	122000	U	2870	U	1220	U	602
Carbon Disulfide	U	250	U	122000	U	2870	U	1220	U	602
Methyl-t-butyl Ether	U	250	U	122000	U	2870	U	1220	U	602
trans-1,2-Dichloroethene	U	250	U	122000	U	2870	U	1220	U	602
1,1-Dichloroethane	U	250	U	122000	U	2870	U	1220	U	602
2-Butanone	U	250	U	122000	U	2870	U	1220	U	602
2,2-Dichloropropane	U	250	U	122000	U	2870	U	1220	U	602
cis-1,2-Dichloroethene	U	250	U	122000	U	2870	U	1220	U	602
Chloroform	U	250	U	122000	U	2870	U	1220	U	602
1,1-Dichloropropene	U	250	U	122000	U	2870	U	1220	U	602
1,2-Dichloroethane	U	250	2650000	122000	36500	2870	58200	3050	37600	3010
1,1,1-Trichloroethane	U	250	U	122000	U	2870	U	1220	U	602
Carbon Tetrachloride	U	250	U	122000	U	2870	U	1220	U	602
Benzene	U	250	U	122000	U	2870	2110	1220	487 J	602
Trichloroethene	U	250	U	122000	U	2870	U	1220	U	602
1,2-Dichloropropane	U	250	U	122000	U	2870	U	1220	U	602
Bromodichloromethane	U	250	U	122000	U	2870	U	1220	U	602
Dibromomethane	U	250	U	122000	U	2870	U	1220	U	602
cis-1,3-Dichloropropene	U	250	U	122000	U	2870	U	1220	U	602
trans-1,3-Dichloropropene	U	250	U	122000	U	2870	U	1220	U	602
1,1,2-Trichloroethane	U	250	U	122000	U	2870	U	1220	U	602
1,3-Dichloropropane	U	250	U	122000	U	2870	U	1220	U	602
Dibromochloromethane	U	250	J	122000	U	2870	U	1220	U	602
1,2-Dibromoethane	U	250	J	122000	U	2870	U	1220	U	602
Bromoform	U	250	U	122000	U	2870	U	1220	U	602
4-Methyl-2-pentanone	U	250	U	122000	U	2870	U	1220	U	602
Toluene	U	250	U	122000	U	2870	U	1220	U	602
2-Hexanone	U	250	U	122000	U	2870	U	1220	U	602
Tetrachloroethene	U	250	U	122000	U	2870	U	1220	U	802
Chlorobenzene	U	250	U	122000	U	2870	U	1220	U	602
1,1,1,2-Tetrachloroethane	U	250	U	122000	U	2870	U	1220	U	602
Ethylbenzene	U	500	U	244000	U	5750	U	2440	U	1200
p&m-Xylene	U	250	U	122000	U	2870	U	1220	U	602
o-Xylene	U	250	U	122000	U	2870	U	1220	U	602
Styrene	U	250	U	122000	U	2870	U	1220	U	602
Isopropylbenzene	U	250	U	122000	U	2870	U	1220	U	602
1,1,2,2-Tetrachloroethane	U	250	U	122000	U	2870	U	1220	U	602
1,2,3-Trichloropropane	U	250	U	122000	U	2870	U	1220	U	602
n-Propylbenzene	U	250	U	122000	U	2870	U	1220	U	602
Bromobenzene	U	250	U	122000	U	2870	U	1220	U	602
1,3,5-Trimethylbenzene	U	250	U	122000	U	2870	U	1220	U	602
2-Chlorotoluene	U	250	U	122000	U	2870	U	1220	U	602
4-Chlorotoluene	U	250	U	122000	U	2870	U	1220	U	602
tert-Butylbenzene	U	250	U	122000	U	2870	U	1220	U	602
1,2,4-Trimethylbenzene	U	250	U	122000	U	2870	U	1220	U	602
sec-Butylbenzene	U	250	U	122000	U	2870	U	1220	U	602
p-Isopropyltoluene	U	250	U	122000	U	2870	U	1220	U	602
1,3-Dichlorobenzene	U	250	U	122000	U	2870	U	1220	U	602
1,4-Dichlorobenzene	U	250	U	122000	U	2870	U	1220	U	602
n-Butylbenzene	U	250	U	122000	U	2870	U	1220	U	602
1,2-Dichlorobenzene	U	250	U	122000	U	2870	U	1220	U	602
1,2-Dibromo-3-chloropropane	U	250	U	122000	U	2870	U	1220	U	602
1,2,4-Trichlorobenzene	U	250	U	122000	U	2870	U	1220	U	602
Hexachlorobutadiene	U	250	U	122000	U	2870	U	1220	U	602
Naphthalene	U	250	U	122000	U	2870	U	1220	U	602
1,2,3-Trichlorobenzene										

rv2366

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No:	MeOH Blank B 091206-4		A 15156 SB-044 20'		A 15160 SB-045 17.5'		A 15167 SB-046 16'		A 15178 SB-046 18.5'	
Location:										
Dilution Factor	50		20000		10000		100		5000	
Percent Solids	100		86		80		80		80	
Analyte	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg
Dichlorodifluoromethane	U	250	U	116000	U	62500	U	625	U	31300
Chloromethane	U	250	U	116000	U	62500	U	625	U	31300
Vinyl Chloride	U	250	U	116000	U	62500	U	625	U	31300
Bromomethane	U	250	U	118000	U	62500	U	625	U	31300
Chloroethane	U	250	U	116000	U	62500	U	625	U	31300
Trichlorofluoromethane	U	250	U	116000	U	62500	U	625	U	31300
Acetone	U	1000	U	465000	U	250000	U	2500	U	125000
1,1-Dichloroethene	U	250	U	116000	U	62500	U	625	U	31300
Methylene Chloride	U	250	U	116000	U	62500	U	625	U	31300
Carbon Disulfide	U	250	U	116000	U	62500	U	625	U	31300
Methyl-t-butyl Ether	U	250	U	116000	U	62500	U	625	U	31300
trans-1,2-Dichloroethene	U	250	U	116000	U	62500	U	625	U	31300
1,1-Dichloroethane	U	250	U	116000	U	62500	U	625	U	31300
2-Butanone	U	250	U	116000	U	62500	U	625	U	31300
2,2-Dichloropropane	U	250	U	116000	U	62500	U	625	U	31300
cis-1,2-Dichloroethene	U	250	U	116000	U	62500	U	625	U	31300
Chloroform	U	250	U	116000	U	62500	U	625	U	31300
1,1-Dichloropropene	U	250	U	116000	U	62500	U	625	U	31300
1,2-Dichloroethane	U	250	4350000	116000	1090000	62500	5360	625	296000	31300
1,1,1-Trichloroethane	U	250	U	116000	U	62500	U	625	U	31300
Carbon Tetrachloride	U	250	U	116000	U	62500	U	625	U	31300
Benzene	U	250	U	116000	U	62500	209 J	625	U	31300
Trichloroethene	U	250	U	116000	U	62500	U	625	U	31300
1,2-Dichloropropane	U	250	U	116000	U	62500	U	625	U	31300
Bromodichloromethane	U	250	U	116000	U	62500	U	625	U	31300
Dibromomethane	U	250	U	116000	U	62500	U	625	U	31300
cis-1,3-Dichloropropene	U	250	U	116000	U	62500	U	625	U	31300
trans-1,3-Dichloropropene	U	250	U	116000	U	62500	U	625	U	31300
1,1,2-Trichloroethane	U	250	U	116000	U	62500	U	625	U	31300
1,3-Dichloropropane	U	250	U	116000	U	62500	U	625	U	31300
Dibromochloromethane	U	250	U	116000	U	62500	U	625	U	31300
1,2-Dibromoethane	U	250	U	116000	U	62500	U	625	U	31300
Bromoform	U	250	U	116000	U	62500	U	625	U	31300
4-Methyl-2-pentanone	U	250	U	116000	U	62500	U	625	U	31300
Toluene	U	250	U	116000	U	62500	U	625	U	31300
2-Hexanone	U	250	U	116000	U	62500	U	625	U	31300
Tetrachloroethene	U	250	U	116000	U	62500	U	625	U	31300
Chlorobenzene	U	250	U	116000	U	62500	U	625	U	31300
1,1,1,2-Tetrachloroethane	U	250	U	116000	U	62500	U	625	U	31300
Ethylbenzene	U	500	U	233000	U	125000	U	1250	U	62500
p&m-Xylene	U	250	U	116000	U	62500	U	625	U	31300
o-Xylene	U	250	U	116000	U	62500	U	625	U	31300
Styrene	U	250	U	116000	U	62500	U	625	U	31300
Isopropylbenzene	U	250	U	116000	U	62500	U	625	U	31300
1,1,2,2-Tetrachloroethane	U	250	U	116000	U	62500	U	625	U	31300
1,2,3-Trichloropropane	U	250	U	116000	U	62500	U	625	U	31300
n-Propylbenzene	U	250	U	116000	U	62500	U	625	U	31300
Bromobenzene	U	250	U	116000	U	62500	U	625	U	31300
1,3,5-Trimethylbenzene	U	250	U	116000	U	62500	U	625	U	31300
2-Chlorotoluene	U	250	U	116000	U	62500	U	625	U	31300
4-Chlorotoluene	U	250	U	116000	U	62500	U	625	U	31300
tert-Butylbenzene	U	250	U	116000	U	62500	U	625	U	31300
1,2,4-Trimethylbenzene	U	250	U	116000	U	62500	U	625	U	31300
sec-Butylbenzene	U	250	U	116000	U	62500	U	625	U	31300
p-Isopropyltoluene	U	250	U	116000	U	62500	U	625	U	31300
1,3-Dichlorobenzene	U	250	U	116000	U	62500	U	625	U	31300
1,4-Dichlorobenzene	U	250	U	116000	U	62500	U	625	U	31300
n-Butylbenzene	U	250	U	116000	U	62500	U	625	U	31300
1,2-Dichlorobenzene	U	250	U	116000	U	62500	U	625	U	31300
1,2-Dibromo-3-chloropropane	U	250	U	116000	U	62500	U	625	U	31300
1,2,4-Trichlorobenzene	U	250	U	116000	U	62500	U	625	U	31300
Hexachlorobutadiene	U	250	U	116000	U	62500	U	625	U	31300
Naphthalene	U	250	U	116000	U	62500	U	625	U	31300
1,2,3-Trichlorobenzene										

RV2367

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No:	MeOH Blank B 091306-1		A 15168 SB-046 20'		A 15154 SB-051 19.5'		A 15194 SB-042 17.5		A 15155 SB-044 18'	
Location:			500		500		4000		20000	
Dilution Factor	50		50		50		40		200	
Percent Solids	100		82		81		81		78	
Analyte	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg
Dichlorodifluoromethane	U	250	U	3050	U	3090	U	24700	U	128000
Chloromethane	U	250	U	3050	U	3090	U	24700	U	128000
Vinyl Chloride	U	250	U	3050	U	3090	U	24700	U	128000
Bromomethane	U	250	U	3050	U	3090	U	24700	U	128000
Chloroethane	U	250	U	3050	U	3090	U	24700	U	128000
Trichlorofluoromethane	U	250	U	3050	U	3090	U	24700	U	128000
Acetone	U	1000	U	12200	U	12300	U	98800	U	513000
1,1-Dichloroethene	U	250	1350 J	3050	1930 J	3090	U	24700	U	128000
Methylene Chloride	U	250	U	3050	U	3090	U	24700	U	128000
Carbon Disulfide	U	250	U	3050	U	3090	U	24700	U	128000
Methyl-t-butyl Ether	U	250	U	3050	U	3090	U	24700	U	128000
trans-1,2-Dichloroethene	U	250	U	3050	U	3090	U	24700	U	128000
1,1-Dichloroethane	U	250	U	3050	U	3090	U	24700	U	128000
2-Butanone	U	250	U	3050	U	3090	U	24700	U	128000
2,2-Dichloropropane	U	250	U	3050	U	3090	U	24700	U	128000
cis-1,2-Dichloroethene	U	250	U	3050	U	3090	U	24700	U	128000
Chloroform	U	250	U	3050	U	3090	U	24700	U	128000
1,1-Dichloropropene	U	250	U	3050	U	3090	U	24700	U	128000
1,2-Dichloroethane	U	250	5300	3050	39400	3090	285000	24700	3200000	128000
1,1,1-Trichloroethane	U	250	U	3050	U	3090	U	24700	U	128000
Carbon Tetrachloride	U	250	U	3050	U	3090	U	24700	U	128000
Benzene	U	250	3590	3050	1380 J	3090	U	24700	U	128000
Trichloroethene	U	250	U	3050	U	3090	U	24700	U	128000
1,2-Dichloropropane	U	250	U	3050	U	3090	U	24700	U	128000
Bromodichloromethane	U	250	U	3050	U	3090	U	24700	U	128000
Dibromomethane	U	250	U	3050	U	3090	U	24700	U	128000
cis-1,3-Dichloropropene	U	250	U	3050	U	3090	U	24700	U	128000
trans-1,3-Dichloropropene	U	250	U	3050	U	3090	U	24700	U	128000
1,1,2-Trichloroethane	U	250	U	3050	U	3090	U	24700	U	128000
1,3-Dichloropropane	U	250	U	3050	U	3090	U	24700	U	128000
Dibromochloromethane	U	250	U	3050	U	3090	U	24700	U	128000
1,2-Dibromoethane	U	250	U	3050	U	3090	U	24700	U	128000
Bromoform	U	250	U	3050	U	3090	U	24700	U	128000
4-Methyl-2-pentanone	U	250	U	3050	U	3090	U	24700	U	128000
Toluene	U	250	U	3050	U	3090	U	24700	U	128000
2-Hexanone	U	250	U	3050	U	3090	U	24700	U	128000
Tetrachloroethene	U	250	U	3050	U	3090	U	24700	U	128000
Chlorobenzene	U	250	U	3050	U	3090	U	24700	U	128000
1,1,1,2-Tetrachloroethane	U	250	U	3050	U	3090	U	24700	U	128000
Ethylbenzene	U	500	U	6100	U	6170	U	49400	U	256000
p&m-Xylene	U	250	U	3050	U	3090	U	24700	U	128000
o-Xylene	U	250	U	3050	U	3090	U	24700	U	128000
Styrene	U	250	U	3050	U	3090	U	24700	U	128000
Isopropylbenzene	U	250	U	3050	U	3090	U	24700	U	128000
1,1,2,2-Tetrachloroethane	U	250	U	3050	U	3090	U	24700	U	128000
1,2,3-Trichloropropane	U	250	U	3050	U	3090	U	24700	U	128000
n-Propylbenzene	U	250	U	3050	U	3090	U	24700	U	128000
Bromobenzene	U	250	U	3050	U	3090	U	24700	U	128000
1,3,5-Trimethylbenzene	U	250	U	3050	U	3090	U	24700	U	128000
2-Chlorotoluene	U	250	U	3050	U	3090	U	24700	U	128000
4-Chlorotoluene	U	250	U	3050	U	3090	U	24700	U	128000
tert-Butylbenzene	U	250	U	3050	U	3090	U	24700	U	128000
1,2,4-Trimethylbenzene	U	250	U	3050	U	3090	U	24700	U	128000
sec-Butylbenzene	U	250	U	3050	U	3090	U	24700	U	128000
p-Isopropyltoluene	U	250	U	3050	U	3090	U	24700	U	128000
1,3-Dichlorobenzene	U	250	U	3050	U	3090	U	24700	U	128000
1,4-Dichlorobenzene	U	250	U	3050	U	3090	U	24700	U	128000
n-Butylbenzene	U	250	U	3050	U	3090	U	24700	U	128000
1,2-Dichlorobenzene	U	250	U	3050	U	3090	U	24700	U	128000
1,2-Dibromo-3-chloropropane	U	250	U	3050	U	3090	U	24700	U	128000
1,2,4-Trichlorobenzene	U	250	U	3050	U	3090	U	24700	U	128000
Hexachlorobutadiene	U	250	U	3050	U	3090	U	24700	U	128000
Naphthalene	U	250	U	3050	U	3090	U	24700	U	128000
1,2,3-Trichlorobenzene										

rv2368

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No:	Soil Blank A 091206-4		A 04108 SB-034 7.5'		A 04110 SB-035 7.5'		A 15157 SB-043 20.5'		A 15179 SB-047 20'	
Location:										
Dilution Factor	1		1		5		10		5	
Percent Solids	100		86		83		80		80	
Analyte	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg
Dichlorodifluoromethane	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
Chloromethane	U	5.00	U	5.81	U	30.1	U	82.5	U	31.3
Vinyl Chloride	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
Bromomethane	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
Chloroethane	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
Trichlorofluoromethane	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
Acetone	U	20.0	U	23.3	U	120	153 J	250	168 J	125
1,1-Dichloroethene	U	5.00	U	5.81	U	30.1	25.3 J	62.5	81.1 J	31.3
Methylene Chloride	U	5.00	U	5.81	U	30.1	U	82.5	U	31.3
Carbon Disulfide	U	5.00	U	5.81	U	30.1	17.5 J	62.5	19.3 J	31.3
Methyl-t-butyl Ether	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
trans-1,2-Dichloroethene	U	5.00	U	5.81	U	30.1	U	82.5	U	31.3
1,1-Dichloroethane	U	5.00	U	5.81	U	30.1	76.5 J	62.5	166 J	31.3
2-Butanone	U	5.00	U	5.81	U	30.1	21.5 J	62.5	26.1 J	31.3
2,2-Dichloropropane	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
cis-1,2-Dichloroethene	U	5.00	U	5.81	U	30.1	U	62.5	13.3 J	31.3
Chloroform	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
1,1-Dichloropropene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
1,2-Dichloroethane	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
1,1,1-Trichloroethane	1.65 J	5.00	76.9	5.81	305	30.1	1650 J	62.5	164 J	31.3
Carbon Tetrachloride	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
Benzene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
Trichloroethene	U	5.00	U	5.81	U	30.1	55.3 J	82.5	135 J	31.3
1,2-Dichloropropane	U	5.00	U	5.81	U	30.1	U	82.5	U	31.3
Bromodichloromethane	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
Dibromomethane	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
cis-1,3-Dichloropropene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
trans-1,3-Dichloropropene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
1,1,2-Trichloroethane	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
1,3-Dichloropropane	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
Dibromochloromethane	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
1,2-Dibromoethane	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
Bromoform	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
4-Methyl-2-pentanone	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
Toluene	U	5.00	U	5.81	U	30.1	16.6 J	62.5	24.9 J	31.3
2-Hexanone	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
Tetrachloroethene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
Chlorobenzene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
1,1,1,2-Tetrachloroethane	U	5.00	U	5.81	U	30.1	U	62.5	U	62.5
Ethylbenzene	U	10.0	U	11.6	U	60.2	U	125	U	31.3
p&m-Xylene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
o-Xylene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
Styrene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
Isopropylbenzene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
1,1,2,2-Tetrachloroethane	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
1,2,3-Trichloropropane	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
n-Propylbenzene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
Bromobenzene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
1,3,5-Trimethylbenzene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
2-Chlorotoluene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
4-Chlorotoluene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
tert-Butylbenzene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
1,2,4-Trimethylbenzene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
sec-Butylbenzene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
p-Isopropyltoluene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
1,3-Dichlorobenzene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
1,4-Dichlorobenzene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
n-Butylbenzene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
1,2-Dichlorobenzene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
1,2-Dibromo-3-chloropropane	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
1,2,4-Trichlorobenzene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
Hexachlorobutadiene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
Naphthalene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3
1,2,3-Trichlorobenzene	U	5.00	U	5.81	U	30.1	U	62.5	U	31.3

rv2369

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No:	Soil Blank A 091206-4		A 15 .77 SB-04 3 20'	
Location:			2	
Dilution Factor	1			
Percent Solids	100		81	

Analyte	Result µg/Kg		RL µg/Kg	Result µg/Kg		RL µg/Kg
Dichlorodifluoromethane	U		5.00	U		12.3
Chloromethane	U		5.00	U		12.3
Vinyl Chloride	U		5.00	U		12.3
Bromomethane	U		5.00	U		12.3
Chloroethane	U		5.00	U		12.3
Trichlorofluoromethane	U		5.00	U		12.3
Acetone	U		20.0	38.0	J	49.4
1,1-Dichloroethene	U		5.00	5.95	J	12.3
Methylene Chloride	U		5.00	3.88	J	12.3
Carbon Disulfide	U		5.00	8.40	J	12.3
Methyl-t-butyl Ether	U		5.00	U		12.3
trans-1,2-Dichloroethene	U		5.00	U		12.3
1,1-Dichloroethane	U		5.00	U		12.3
2-Butanone	U		5.00	U		12.3
2,2-Dichloropropane	U		5.00	U		12.3
cis-1,2-Dichloroethene	U		5.00	6.59	J	12.3
Chloroform	U		5.00	U		12.3
1,1-Dichloropropene	U		5.00	U		12.3
1,2-Dichloroethane	U		5.00	U		12.3
1,1,1-Trichloroethane	1.65	J	5.00	35.8	J	12.3
Carbon Tetrachloride	U		5.00	U		12.3
Benzene	U		5.00	U		12.3
Trichloroethene	U		5.00	64.0	J	12.3
1,2-Dichloropropane	U		5.00	U		12.3
Bromodichloromethane	U		5.00	U		12.3
Dibromomethane	U		5.00	U		12.3
cis-1,3-Dichloropropene	U		5.00	U		12.3
trans-1,3-Dichloropropene	U		5.00	U		12.3
1,1,2-Trichloroethane	U		5.00	U		12.3
1,3-Dichloropropane	U		5.00	U		12.3
Dibromochloromethane	U		5.00	U		12.3
1,2-Dibromoethane	U		5.00	U		12.3
Bromoform	U		5.00	U		12.3
4-Methyl-2-pentanone	U		5.00	U		12.3
Toluene	U		5.00	U		12.3
2-Hexanone	U		5.00	U		12.3
Tetrachloroethene	U		5.00	U		12.3
Chlorobenzene	U		5.00	U		12.3
1,1,1,2-Tetrachloroethane	U		5.00	U		12.3
Ethylbenzene	U		10.0	U		24.7
p&m-Xylene	U		5.00	U		12.3
o-Xylene	U		5.00	U		12.3
Styrene	U		5.00	U		12.3
Isopropylbenzene	U		5.00	U		12.3
1,1,2,2-Tetrachloroethane	U		5.00	U		12.3
1,2,3-Trichloropropane	U		5.00	U		12.3
n-Propylbenzene	U		5.00	U		12.3
Bromobenzene	U		5.00	U		12.3
1,3,5-Trimethylbenzene	U		5.00	U		12.3
2-Chlorotoluene	U		5.00	U		12.3
4-Chlorotoluene	U		5.00	U		12.3
tert-Butylbenzene	U		5.00	U		12.3
1,2,4-Trimethylbenzene	U		5.00	U		12.3
sec-Butylbenzene	U		5.00	U		12.3
p-Isopropyltoluene	U		5.00	U		12.3
1,3-Dichlorobenzene	U		5.00	U		12.3
1,4-Dichlorobenzene	U		5.00	U		12.3
n-Butylbenzene	U		5.00	U		12.3
1,2-Dichlorobenzene	U		5.00	U		12.3
1,2-Dibromo-3-chloropropane	U		5.00	U		12.3
1,2,4-Trichlorobenzene	U		5.00	U		12.3
Hexachlorobutadiene	U		5.00	U		12.3
Naphthalene	U		5.00	U		12.3
1,2,3-Trichlorobenzene	U		5.00	U		12.3

rv2370

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No:	Soil Blank A 091306-2		A 04112	
Location:			SB-037 6'	
Dilution Factor	1		2	
Percent Solids	100		85	

Analyte	Result µg/Kg		RL µg/Kg	Result µg/Kg		RL µg/Kg
Dichlorodifluoromethane	U		5.00	U		11.8
Chloromethane	U		5.00	U		11.8
Vinyl Chloride	U		5.00	U		11.8
Bromomethane	U		5.00	U		11.8
Chloroethane	U		5.00	U		11.8
Trichlorofluoromethane	U		5.00	U		11.8
Acetone	U		20.0	U		47.1
1,1-Dichloroethene	U		5.00	U		11.8
Methylene Chloride	U		5.00	U		11.8
Carbon Disulfide	U		5.00	U		11.8
Methyl-t-butyl Ether	U		5.00	U		11.8
trans-1,2-Dichloroethene	U		5.00	U		11.8
1,1-Dichloroethane	U		5.00	U		11.8
2-Butanone	U		5.00	U		11.8
2,2-Dichloropropane	U		5.00	U		11.8
cis-1,2-Dichloroethene	U		5.00	U		11.8
Chloroform	U		5.00	U		11.8
1,1-Dichloropropene	U		5.00	U		11.8
1,2-Dichloroethane	2.01	J	5.00	80.3	J	11.8
1,1,1-Trichloroethene	U		5.00	U		11.8
Carbon Tetrachloride	U		5.00	U		11.8
Benzene	U		5.00	U		11.8
Trichloroethene	U		5.00	U		11.8
1,2-Dichloropropane	U		5.00	U		11.8
Bromodichloromethane	U		5.00	U		11.8
Dibromomethane	U		5.00	U		11.8
cis-1,3-Dichloropropene	U		5.00	U		11.8
trans-1,3-Dichloropropene	U		5.00	U		11.8
1,1,2-Trichloroethane	U		5.00	U		11.8
1,3-Dichloropropane	U		5.00	U		11.8
Dibromochloromethane	U		5.00	U		11.8
1,2-Dibromoethane	U		5.00	U		11.8
Bromoform	U		5.00	U		11.8
4-Methyl-2-pentanone	U		5.00	U		11.8
Toluene	U		5.00	U		11.8
2-Hexanone	U		5.00	U		11.8
Tetrachloroethene	U		5.00	U		11.8
Chlorobenzene	U		5.00	U		11.8
1,1,1,2-Tetrachloroethane	U		5.00	U		11.8
Ethylbenzene	U		10.0	U		23.5
p&m-Xylene	U		5.00	U		11.8
o-Xylene	U		5.00	U		11.8
Styrene	U		5.00	U		11.8
Isopropylbenzene	U		5.00	U		11.8
1,1,2,2-Tetrachloroethane	U		5.00	U		11.8
1,2,3-Trichloropropane	U		5.00	U		11.8
n-Propylbenzene	U		5.00	U		11.8
Bromobenzene	U		5.00	U		11.8
1,3,5-Trimethylbenzene	U		5.00	U		11.8
2-Chlorotoluene	U		5.00	U		11.8
4-Chlorotoluene	U		5.00	U		11.8
tert-Butylbenzene	U		5.00	U		11.8
1,2,4-Trimethylbenzene	U		5.00	U		11.8
sec-Butylbenzene	U		5.00	U		11.8
p-Isopropyltoluene	U		5.00	U		11.8
1,3-Dichlorobenzene	U		5.00	U		11.8
1,4-Dichlorobenzene	U		5.00	U		11.8
n-Butylbenzene	U		5.00	U		11.8
1,2-Dichlorobenzene	U		5.00	U		11.8
1,2-Dibromo-3-chloropropane	U		5.00	U		11.8
1,2,4-Trichlorobenzene	U		5.00	U		11.8
Hexachlorobutadiene	U		5.00	U		11.8
Naphthalene	U		5.00	U		11.8
1,2,3-Trichlorobenzene	U		5.00	U		11.8

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No:	Soil Blank A 091506-2		A 15180 SB-049 21'		A 15166 SB-050 19.5'		15153 SB055-19'		15161 SB053-19'	
Location:										
Dilution Factor	1		10		1		2		1	
Percent Solids	100		79		86		82		81	
Analyte	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg
Dichlorodifluoromethane	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Chloromethane	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Vinyl Chloride	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Bromomethane	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Chloroethane	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Trichlorofluoromethane	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Acetone	U	20.0	38.1 J	253	8.02 J	23.3	U	48.8	U	24.7
1,1-Dichloroethene	U	5.00	22.3 J	63.3	U	5.81	3.41 J	12.2	U	6.17
Methylene Chloride	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Carbon Disulfide	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Methyl-t-butyl Ether	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
trans-1,2-Dichloroethene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
1,1-Dichloroethane	U	5.00	35.2	63.3	U	5.81	U	12.2	U	6.17
2-Butanone	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
2,2-Dichloropropane	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
cis-1,2-Dichloroethene	U	5.00	U	63.3	U	5.81	29.8	12.2	U	6.17
Chloroform	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
1,1-Dichloropropene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
1,2-Dichloroethane	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
1,1,1-Trichloroethane	2.38 J	5.00	272	63.3	U	5.81	55.3	12.2	U	6.17
Carbon Tetrachloride	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Benzene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Trichloroethene	U	5.00	867	63.3	7.73	5.81	38.2	12.2	9.42	6.17
1,2-Dichloropropane	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Bromodichloromethane	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Dibromomethane	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
cis-1,3-Dichloropropene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
trans-1,3-Dichloropropene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
1,1,2-Trichloroethane	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
1,3-Dichloropropane	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Dibromochloromethane	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
1,2-Dibromoethane	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Bromoform	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
4-Methyl-2-pentanone	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Toluene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
2-Hexanone	U	5.00	36.3 J	63.3	U	5.81	U	12.2	U	6.17
Tetrachloroethene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Chlorobenzene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
1,1,1,2-Tetrachloroethane	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Ethylbenzene	U	10.0	U	127	U	11.6	U	24.4	U	12.3
p&m-Xylene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
o-Xylene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Styrene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Isopropylbenzene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
1,1,2,2-Tetrachloroethane	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
1,2,3-Trichloropropane	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
n-Propylbenzene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Bromobenzene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
1,3,5-Trimethylbenzene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
2-Chlorotoluene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
4-Chlorotoluene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
tert-Butylbenzene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
1,2,4-Trimethylbenzene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
sec-Butylbenzene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
p-Isopropyltoluene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
1,3-Dichlorobenzene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
1,4-Dichlorobenzene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
n-Butylbenzene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
1,2-Dichlorobenzene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
1,2-Dibromo-3-chloropropane	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
1,2,4-Trichlorobenzene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Hexachlorobutadiene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
Naphthalene	U	5.00	U	63.3	U	5.81	U	12.2	U	6.17
1,2,3-Trichlorobenzene										

rv2372

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No:	Soil Blank A 091506-2		15163 SB054-20'		15164 SB052-7.5'		15165 SB056-19.5'		15162 SB052-19.5'	
Location:										
Dilution Factor	1		1		1		1		10	
Percent Solids	100		81		86		81		80	

Analyte	Result µg/Kg		RL µg/Kg	Result µg/Kg		RL µg/Kg	Result µg/Kg		RL µg/Kg	Result µg/Kg		RL µg/Kg	Result µg/Kg		RL µg/Kg
Dichlorodifluoromethane	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Chloromethane	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Vinyl Chloride	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Bromomethane	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Chloroethane	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Trichlorofluoromethane	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Acetone	U		20.0	36.1		24.7	R		23.3	U		24.7	U		250
1,1-Dichloroethene	U		5.00	U		6.17	R		5.81	U		6.17	53.9	J	62.5
Methylene Chloride	U		5.00	U		6.17	R		5.81	7.25		6.17	U		62.5
Carbon Disulfide	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Methyl-t-butyl Ether	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
trans-1,2-Dichloroethene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
1,1-Dichloroethane	U		5.00	U		6.17	R		5.81	U		6.17	16.3	J	62.5
2-Butanone	U		5.00	3.51	J	6.17	R		5.81	U		6.17	U		62.5
2,2-Dichloropropane	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
cis-1,2-Dichloroethene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Chloroform	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
1,1-Dichloropropene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
1,2-Dichloroethane	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
1,1,1-Trichloroethane	2.36	J	5.00	U		6.17	R		5.81	U		6.17	U		62.5
Carbon Tetrachloride	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Benzene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Trichloroethene	U		5.00	29.9		6.17	4.37	J	5.81	122		6.17	28.1	J	62.5
1,2-Dichloropropane	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Bromodichloromethane	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Dibromomethane	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
cis-1,3-Dichloropropene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
trans-1,3-Dichloropropene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
1,1,2-Trichloroethane	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
1,3-Dichloropropane	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Dibromochloromethane	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
1,2-Dibromoethane	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Bromoform	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
4-Methyl-2-pentanone	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Toluene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
2-Hexanone	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Tetrachloroethene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Chlorobenzene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
1,1,1,2-Tetrachloroethane	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Ethylbenzene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
p&m-Xylene	U		10.0	U		12.3	R		11.6	U		12.3	U		125
o-Xylene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Styrene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Isopropylbenzene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
1,1,2,2-Tetrachloroethane	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
1,2,3-Trichloropropane	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
n-Propylbenzene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Bromobenzene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
1,3,5-Trimethylbenzene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
2-Chlorotoluene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
4-Chlorotoluene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
tert-Butylbenzene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
1,2,4-Trimethylbenzene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
sec-Butylbenzene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
p-Isopropyltoluene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
1,3-Dichlorobenzene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
1,4-Dichlorobenzene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
n-Butylbenzene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
1,2-Dichlorobenzene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
1,2-Dibromo-3-chloropropane	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
1,2,4-Trichlorobenzene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Hexachlorobutadiene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
Naphthalene	U		5.00	U		6.17	R		5.81	U		6.17	U		62.5
1,2,3-Trichlorobenzene															

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	Soil Blank B 082506-2		04131 SB-001-0.8'		04182 SB-001-5'		04183 SB-001-10'		04184 SB-001-12'	
Location	1		1		1		1		1	
Dilution Factor	100		94		94		84		85	
Percent Solids										

Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Dichlorodifluoromethane	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
Chloromethane	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
Vinyl Chloride	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
Bromomethane	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
Chloroethane	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
Trichlorofluoromethane	U	20.0	U	21.3	U	21.3	9.99 J	23.8	167	23.5
Acetone	U	5.00	U	5.32	9.30	5.32	1.75 J	5.95	1.72 J	5.88
1,1-Dichloroethene	U	5.00	U	5.32	U	5.32	U	5.95	22.4	5.88
Methylene Chloride	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
Carbon Disulfide	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
Methyl-t-butyl Ether	U	5.00	U	5.32	7.52	5.32	1.57 J	5.95	U	5.88
trans-1,2-Dichloroethene	U	5.00	U	5.32	132	5.32	3.81 J	5.95	10.8	5.88
1,1-Dichloroethane	U	5.00	U	5.32	U	5.32	U	5.95	49.9	5.88
2-Butanone	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
2,2-Dichloropropane	U	5.00	3.97 J	5.32	528	53.2	147	5.95	767	58.8
cis-1,2-Dichloroethene	U	5.00	U	5.32	1.46 J	5.32	U	5.95	U	5.88
Chloroform	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
1,1-Dichloropropene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
1,2-Dichloroethane	U	5.00	17.6	5.32	403	53.2	81.4	5.95	78.3	5.88
1,1,1-Trichloroethane	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
Carbon Tetrachloride	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
Benzene	U	5.00	44.7 J	5.32	627	53.2	80.3	5.95	234	58.8
Trichloroethene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
1,2-Dichloropropane	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
Bromodichloromethane	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
Dibromomethane	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
cis-1,3-Dichloropropene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
trans-1,3-Dichloropropene	U	5.00	U	5.32	U	5.32	U	5.95	4.04 J	5.88
1,1,2-Trichloroethane	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
1,3-Dichloropropane	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
Dibromochloromethane	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
1,2-Dibromoethane	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
Bromoform	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
4-Methyl-2-pentanone	U	5.00	U	5.32	3.05 J	5.32	3.46 J	5.95	67.4	5.88
Toluene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
2-Hexanone	U	5.00	U	5.32	7.24	5.32	U	5.95	U	5.88
Tetrachloroethene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
Chlorobenzene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
1,1,1,2-Tetrachloroethane	U	5.00	U	5.32	U	5.32	U	5.95	1.74 J	5.88
Ethylbenzene	U	10.0	U	10.6	U	10.6	U	11.9	7.54 J	11.8
p&m-Xylene	U	5.00	U	5.32	U	5.32	U	5.95	4.53 J	5.88
o-Xylene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
Styrene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
Isopropylbenzene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
1,1,2,2-Tetrachloroethane	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
1,2,3-Trichloropropane	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
n-Propylbenzene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
Bromobenzene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
1,3,5-Trimethylbenzene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
2-Chlorotoluene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
4-Chlorotoluene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
tert-Butylbenzene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
1,2,4-Trimethylbenzene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
sec-Butylbenzene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
p-Isopropyltoluene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
1,3-Dichlorobenzene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
1,4-Dichlorobenzene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
n-Butylbenzene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
1,2-Dichlorobenzene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
1,2-Dibromo-3-chloropropane	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
1,2,4-Trichlorobenzene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
Hexachlorobutadiene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
Naphthalene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88
1,2,3-Trichlorobenzene	U	5.00	U	5.32	U	5.32	U	5.95	U	5.88

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	Soil Blank B 082506-2		04185		04186		04187		04188	
Location			SB-001-15'		SB-001-17.5'		SB-001-20'		SB-001-22.5'	
Dilution Factor	1		1		1		1		1	
Percent Solids	100		83		82		83		82	

Analyte	Result µg/kg	RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg
Dichlorodifluoromethane	U	5.00	U		6.02	U		8.10	U		6.02	U		6.10
Chloromethane	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
Vinyl Chloride	U	5.00	2.93	J	6.02	U		6.10	U		6.02	U		6.10
Bromomethane	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
Chloroethane	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
Trichlorofluoromethane	U	5.00	24.6		6.02	9.82		6.10	49.2		6.02	203		6.10
Acetone	U	20.0	117		24.1	83.0		24.4	37.4		24.1	88.0		24.4
1,1-Dichloroethene	U	5.00	233		6.02	182		6.10	466	J	6.02	901		610
Methylene Chloride	U	5.00	145		6.02	157		6.10	42.0		6.02	180		6.10
Carbon Disulfide	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
Methyl-t-butyl Ether	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
trans-1,2-Dichloroethene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
1,1-Dichloroethane	U	5.00	56.4		6.02	27.9		6.10	12.2		6.02	28.8		6.10
2-Butanone	U	5.00	31.3		6.02	11.3		6.10	U		6.02	U		6.10
2,2-Dichloropropane	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
cis-1,2-Dichloroethene	U	5.00	1040		602	719	J	6.10	71.4		6.02	177		6.10
Chloroform	U	5.00	3.92	J	6.02	4.01	J	6.10	1.77	J	6.02	4.34	J	6.10
1,1-Dichloropropene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
1,2-Dichloroethane	U	5.00	2.94	J	6.02	3.61	J	6.10	U		6.02	3.28	J	6.10
1,1,1-Trichloroethane	U	5.00	2620		1200	5190		610	793		602	2550		610
Carbon Tetrachloride	U	5.00	U		6.02	U		6.10	U		6.02	3.99	J	6.10
Benzene	U	5.00	2.80	J	6.02	3.45	J	6.10	2.39	J	6.02	5.80	J	6.10
Trichloroethene	U	5.00	12900	J	602	4230		610	2540		602	8110		610
1,2-Dichloropropane	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
Bromodichloromethane	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
Dibromomethane	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
cis-1,3-Dichloropropene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
trans-1,3-Dichloropropene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
1,1,2-Trichloroethane	U	5.00	13.4		6.02	17.9		6.10	9.47		6.02	U		6.10
1,3-Dichloropropane	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
Dibromochloromethane	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
1,2-Dibromoethane	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
Bromoform	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
4-Methyl-2-pentanone	U	5.00	7.53		6.02	U		6.10	U		6.02	U		6.10
Toluene	U	5.00	259	J	602	313	J	6.10	321	J	6.02	634		610
2-Hexanone	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
Tetrachloroethene	U	5.00	U		6.02	U		6.10	U		6.02	1.65	J	6.10
Chlorobenzene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
1,1,1,2-Tetrachloroethane	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
Ethylbenzene	U	5.00	14.5		6.02	11.0		6.10	7.30		6.02	21.9		6.10
p&m-Xylene	U	10.0	68.7		12.0	57.5		12.2	41.1		12.0	109		12.2
o-Xylene	U	5.00	23.4		6.02	18.4		6.10	9.42		6.02	26.4		6.10
Styrene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
Isopropylbenzene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
1,1,2,2-Tetrachloroethane	U	5.00	2.46	J	6.02	3.33	J	6.10	U		6.02	4.56	J	6.10
1,2,3-Trichloropropane	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
n-Propylbenzene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
Bromobenzene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
1,3,5-Trimethylbenzene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
2-Chlorotoluene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
4-Chlorotoluene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
tert-Butylbenzene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
1,2,4-Trimethylbenzene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
sec-Butylbenzene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
p-Isopropyltoluene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
1,3-Dichlorobenzene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
1,4-Dichlorobenzene	U	5.00	U		6.02	2.89	J	6.10	1.53	J	6.02	U		6.10
n-Butylbenzene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
1,2-Dichlorobenzene	U	5.00	7.96		6.02	20.0		6.10	11.4		6.02	3.15		6.10
1,2-Dibromo-3-chloropropane	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
1,2,4-Trichlorobenzene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
Hexachlorobutadiene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
Naphthalene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10
1,2,3-Trichlorobenzene	U	5.00	U		6.02	U		6.10	U		6.02	U		6.10

rv_2328

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	Soil Blank B 082606-2		04198 SB-001-24'		04199 SB-001-25'		04200 SB-001-25-30'		15134 SB-001-30'	
Location			1		1		1		1	
Dilution Factor	1		1		1		1		1	
Percent Solids	100		78		85		41		85	

Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Dichlorodifluoromethane	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
Chloromethane	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
Vinyl Chloride	U	5.00	U	6.41	U	5.88	19.6	12.2	U	5.88
Bromomethane	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
Chloroethane	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
Trichlorofluoromethane	U	5.00	225	6.41	88.7	5.88	93.2	12.2	U	5.88
Acetone	U	20.0	110	25.6	25.3	23.5	26.1 J	48.8	U	23.5
1,1-Dichloroethene	U	5.00	693	256	978 J	5.88	510	122	26.0	5.88
Methylene Chloride	U	5.00	186	6.41	14.1	5.88	U	12.2	U	5.88
Carbon Disulfide	U	5.00	U	6.41	U	5.88	3.90 J	12.2	U	5.88
Methyl-t-butyl Ether	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
trans-1,2-Dichloroethene	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
1,1-Dichloroethane	U	5.00	34.3	6.41	37.7	5.88	62.2	12.2	1.82 J	5.88
2-Butanone	U	5.00	9.29	6.41	3.24 J	5.88	U	12.2	U	5.88
2,2-Dichloropropane	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
cis-1,2-Dichloroethene	U	5.00	300	256	629 J	5.88	258	12.2	10.2	5.88
Chloroform	U	5.00	6.44	6.41	U	5.88	U	12.2	U	5.88
1,1-Dichloropropene	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
1,2-Dichloroethane	U	5.00	5.72 J	6.41	U	5.88	U	12.2	U	5.88
1,1,1-Trichloroethane	U	5.00	4040	256	768 J	5.88	776	122	93.9	5.86
Carbon Tetrachloride	U	5.00	2.68 J	6.41	U	5.88	U	12.2	U	5.88
Benzene	U	5.00	9.53	6.41	U	5.88	U	12.2	U	5.88
Trichloroethene	U	5.00	36000	1280	2190	588	1790	122	165	5.88
1,2-Dichloropropane	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
Bromodichloromethane	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
Dibromomethane	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
cis-1,3-Dichloropropene	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
trans-1,3-Dichloropropene	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
1,1,2-Trichloroethane	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
1,3-Dichloropropane	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
Dibromochloromethane	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
1,2-Dibromoethane	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
Bromoform	U	5.00	U	6.41	U	5.88	U	12.2	U	5.86
4-Methyl-2-pentanone	U	5.00	4920	1280	383 J	5.88	59.8	12.2	4.58 J	5.88
Toluene	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
2-Hexanone	U	5.00	21.0	6.41	6.20	5.88	5.85 J	12.2	U	5.88
Tetrachloroethene	U	5.00	3.35 J	6.41	U	5.88	U	12.2	U	5.88
Chlorobenzene	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
1,1,1,2-Tetrachloroethane	U	5.00	211	6.41	20.6	5.88	U	12.2	U	5.88
Ethylbenzene	U	10.0	2200	256	86.7	11.8	5.22 J	24.4	U	11.8
p&m-Xylene	U	5.00	208	6.41	18.7	5.88	U	12.2	U	5.88
o-Xylene	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
Styrene	U	5.00	1.71 J	6.41	U	5.88	U	12.2	U	5.88
Isopropylbenzene	U	5.00	8.58	6.41	U	5.88	U	12.2	U	5.88
1,1,2,2-Tetrachloroethane	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
1,2,3-Trichloropropane	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
n-Propylbenzene	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
Bromobenzene	U	5.00	3.97 J	6.41	U	5.88	U	12.2	U	5.88
1,3,5-Trimethylbenzene	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
2-Chlorotoluene	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
4-Chlorotoluene	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
tert-Butylbenzene	U	5.00	9.05	6.41	U	5.88	U	12.2	U	5.88
1,2,4-Trimethylbenzene	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
sec-Butylbenzene	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
p-Isopropyltoluene	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
1,3-Dichlorobenzene	U	5.00	6.35 J	6.41	8.45	5.88	29.4	12.2	2.05 J	5.88
1,4-Dichlorobenzene	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
n-Butylbenzene	U	5.00	38.5	6.41	41.1	5.88	70.3	12.2	5.20 J	5.88
1,2-Dichlorobenzene	U	5.00	J	6.41	U	5.88	U	12.2	U	5.88
1,2-Dibromo-3-chloropropane	U	5.00	J	6.41	U	5.88	11.6 J	12.2	U	5.88
1,2,4-Trichlorobenzene	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
Hexachlorobutadiene	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
Naphthalene	U	5.00	U	6.41	U	5.88	U	12.2	U	5.88
1,2,3-Trichlorobenzene										

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	Soil Blank B 082606-2		19154 SB-002-5'		19155 SB-002-10'		19156 SB-002-10'dup		19157 SB-002-15'	
Location	1		1		1		1		1	
Dilution Factor	100		93		81		77		82	
Percent Solids										

Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Dichlorodifluoromethane	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Chloromethane	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Vinyl Chloride	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Bromomethane	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Chloroethane	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Trichlorofluoromethane	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Acetone	U	20.0	U	21.5	U	24.7	U	26.0	U	24.4
1,1-Dichloroethene	U	5.00	U	5.38	U	6.17	U	6.49	1.56 J	6.10
Methylene Chloride	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Carbon Disulfide	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Methyl-t-butyl Ether	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
trans-1,2-Dichloroethene	U	5.00	2.18 J	5.38	U	6.17	U	6.49	U	6.10
1,1-Dichloroethane	U	5.00	3.61 J	5.38	3.00 J	6.17	1.95 J	6.49	13.0	6.10
2-Butanone	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
2,2-Dichloropropane	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
cis-1,2-Dichloroethene	U	5.00	204	26.9	204	6.17	143	6.49	537 J	6.10
Chloroform	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
1,1-Dichloropropene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
1,2-Dichloroethane	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
1,1,1-Trichloroethane	U	5.00	34.7	5.38	105	6.17	147	6.49	94.4	6.10
Carbon Tetrachloride	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Benzene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Trichloroethene	U	5.00	59.8 J	5.38	112	6.17	144	6.49	152	6.10
1,2-Dichloropropane	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Bromodichloromethane	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Dibromomethane	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
cis-1,3-Dichloropropene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
trans-1,3-Dichloropropene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
1,1,2-Trichloroethane	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
1,3-Dichloropropane	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Dibromochloromethane	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
1,2-Dibromoethane	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Bromoform	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
4-Methyl-2-pentanone	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Toluene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
2-Hexanone	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Tetrachloroethene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Chlorobenzene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
1,1,1,2-Tetrachloroethane	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Ethylbenzene	U	10.0	U	10.8	U	12.3	U	13.0	U	12.2
p&m-Xylene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
o-Xylene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Styrene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Isopropylbenzene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
1,1,2,2-Tetrachloroethane	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
1,2,3-Trichloropropane	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
n-Propylbenzene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Bromobenzene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
1,3,5-Trimethylbenzene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
2-Chlorotoluene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
4-Chlorotoluene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
tert-Butylbenzene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
1,2,4-Trimethylbenzene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
sec-Butylbenzene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
p-Isopropyltoluene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
1,3-Dichlorobenzene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
1,4-Dichlorobenzene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
n-Butylbenzene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
1,2-Dichlorobenzene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
1,2-Dibromo-3-chloropropane	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
1,2,4-Trichlorobenzene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Hexachlorobutadiene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
Naphthalene	U	5.00	U	5.38	U	6.17	U	6.49	U	6.10
1,2,3-Trichlorobenzene										

Table 1.2 (cont.) :Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	Soil Blank B 082606-3		19158 SB-002-20'		19159 SB-003-10'		19160 SB-003-15'	
Location	1		1		1		1	
Dilution Factor	100		83		87		83	
Percent Solids								

Analyte	Result µg/kg	RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg		RL µg/kg
Dichlorodifluoromethane	U	5.00	U		6.02	U	5.75	U		6.02
Chloromethane	U	5.00	U		6.02	U	5.75	U		6.02
Vinyl Chloride	U	5.00	3.19	J	6.02	U	5.75	U		6.02
Bromomethane	U	5.00	U		6.02	U	5.75	U		6.02
Chloroethane	U	5.00	U		6.02	U	5.75	U		6.02
Trichlorofluoromethane	U	5.00	U		6.02	U	5.75	U		6.02
Acetone	U	20.0	U		24.1	U	23.0	U		24.1
1,1-Dichloroethene	U	5.00	19.3		6.02	U	5.75	3.08	J	6.02
Methylene Chloride	U	5.00	U		6.02	U	5.75	U		6.02
Carbon Disulfide	U	5.00	U		6.02	U	5.75	U		6.02
Methyl-t-butyl Ether	U	5.00	U		6.02	U	5.75	U		6.02
trans-1,2-Dichloroethene	U	5.00	2.23	J	6.02	U	5.75	U		6.02
1,1-Dichloroethane	U	5.00	21.6		6.02	U	5.75	2.06	J	6.02
2-Butanone	U	5.00	U		6.02	U	5.75	U		6.02
2,2-Dichloropropane	U	5.00	U		6.02	U	5.75	U		6.02
cis-1,2-Dichloroethene	U	5.00	438		30.1	7.66	5.75	8.70		6.02
Chloroform	U	5.00	U		6.02	U	5.75	U		6.02
1,1-Dichloropropene	U	5.00	U		6.02	U	5.75	U		6.02
1,2-Dichloroethane	U	5.00	U		6.02	U	5.75	U		6.02
1,1,1-Trichloroethane	U	5.00	53.1		6.02	38.7	5.75	73.1		6.02
Carbon Tetrachlonde	U	5.00	U		6.02	U	5.75	U		6.02
Benzene	U	5.00	U		6.02	U	5.75	U		6.02
Trichloroethene	U	5.00	273		30.1	19.8	5.75	72.2		6.02
1,2-Dichloropropane	U	5.00	U		6.02	U	5.75	U		6.02
Bromodichloromethane	U	5.00	U		6.02	U	5.75	U		6.02
Dibromomethane	U	5.00	U		6.02	U	5.75	U		6.02
cis-1,3-Dichloropropene	U	5.00	U		6.02	U	5.75	U		6.02
trans-1,3-Dichloropropene	U	5.00	U		6.02	U	5.75	U		6.02
1,1,2-Trichloroethane	U	5.00	U		6.02	U	5.75	U		6.02
1,3-Dichloropropane	U	5.00	U		6.02	U	5.75	U		6.02
Dibromochloromethane	U	5.00	U		6.02	U	5.75	U		6.02
1,2-Dibromoethane	U	5.00	U		6.02	U	5.75	U		6.02
Bromoform	U	5.00	U		6.02	U	5.75	U		6.02
4-Methyl-2-pentanone	U	5.00	3.05	J	6.02	U	5.75	1.71	J	6.02
Toluene	U	5.00	U		6.02	U	5.75	U		6.02
2-Hexanone	U	5.00	U		6.02	U	5.75	U		6.02
Tetrachloroethene	U	5.00	U		6.02	U	5.75	U		6.02
Chlorobenzene	U	5.00	U		6.02	U	5.75	U		6.02
1,1,1,2-Tetrachloroethane	U	5.00	U		6.02	U	5.75	U		6.02
Ethylbenzene	U	10.0	4.25	J	12.0	U	11.5	U		12.0
p&m-Xylene	U	5.00	U		6.02	U	5.75	U		6.02
o-Xylene	U	5.00	U		6.02	U	5.75	U		6.02
Styrene	U	5.00	U		6.02	U	5.75	U		6.02
Isopropylbenzene	U	5.00	U		6.02	U	5.75	U		6.02
1,1,2,2-Tetrachloroethane	U	5.00	U		6.02	U	5.75	U		6.02
1,2,3-Trichloropropane	U	5.00	U		6.02	U	5.75	U		6.02
n-Propylbenzene	U	5.00	U		6.02	U	5.75	U		6.02
Bromobenzene	U	5.00	U		6.02	U	5.75	U		6.02
1,3,5-Trimethylbenzene	U	5.00	U		6.02	U	5.75	U		6.02
2-Chlorotoluene	U	5.00	U		6.02	U	5.75	U		6.02
4-Chlorotoluene	U	5.00	U		6.02	U	5.75	U		6.02
tert-Butylbenzene	U	5.00	U		6.02	U	5.75	U		6.02
1,2,4-Trimethylbenzene	U	5.00	U		6.02	U	5.75	U		6.02
sec-Butylbenzene	U	5.00	U		6.02	U	5.75	U		6.02
p-Isopropyltoluene	U	5.00	U		6.02	U	5.75	U		6.02
1,3-Dichlorobenzene	U	5.00	1.65	J	6.02	U	5.75	U		6.02
1,4-Dichlorobenzene	U	5.00	U		6.02	U	5.75	U		6.02
n-Butylbenzene	U	5.00	12.7		6.02	U	5.75	U		6.02
1,2-Dichlorobenzene	U	5.00	U		6.02	U	5.75	U		6.02
1,2-Dibromo-3-chloropropane	U	5.00	U		6.02	U	5.75	U		6.02
1,2,4-Trichlorobenzene	U	5.00	U		6.02	U	5.75	U		6.02
Hexachlorobutadiene	U	5.00	U		6.02	U	5.75	U		6.02
Naphthalene	U	5.00	U		6.02	J	5.75	U		6.02
1,2,3-Trichlorobenzene										

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	Soil Blank B 082606-1		19162 SB-004-7.5'		19163 SB-004-10'		19164 SB-004 15'		19165 SB-004 20'	
Location			5		5		5		5	
Dilution Factor	1									
Percent Solids	100		87		84		81		82	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Dichlorodifluoromethane	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Chloromethane	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Vinyl Chloride	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Bromomethane	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Chloroethane	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Trichlorofluoromethane	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Acetone	U	20.0	U	115	U	119	U	123	U	122
1,1-Dichloroethene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Methylene Chloride	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Carbon Disulfide	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Methyl-t-butyl Ether	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
trans-1,2-Dichloroethene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
1,1-Dichloroethane	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
2-Butanone	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
2,2-Dichloropropane	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
cis-1,2-Dichloroethene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Chloroform	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
1,1-Dichloropropene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
1,2-Dichloroethane	U	5.00	34.9	28.7	51.1	29.8	155	30.9	116	30.5
1,1,1-Trichloroethane	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Carbon Tetrachloride	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Benzene	U	5.00	14.7 J	28.7	18.5 J	29.8	58.0	30.9	43.1	30.5
Trichloroethene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
1,2-Dichloropropane	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Bromodichloromethane	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Dibromomethane	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
cis-1,3-Dichloropropene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
trans-1,3-Dichloropropene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
1,1,2-Trichloroethane	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
1,3-Dichloropropane	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Dibromochloromethane	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
1,2-Dibromoethane	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Bromoform	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
4-Methyl-2-pentanone	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Toluene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
2-Hexanone	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Tetrachloroethene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Chlorobenzene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
1,1,1,2-Tetrachloroethane	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Ethylbenzene	U	10.0	U	57.5	U	59.5	U	61.7	U	61.0
p&m-Xylene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
o-Xylene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Styrene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Isopropylbenzene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
1,1,2,2-Tetrachloroethane	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
1,2,3-Trichloropropane	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
n-Propylbenzene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Bromobenzene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
1,3,5-Trimethylbenzene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
2-Chlorotoluene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
4-Chlorotoluene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
tert-Butylbenzene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
1,2,4-Trimethylbenzene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
sec-Butylbenzene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
p-Isopropyltoluene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
1,3-Dichlorobenzene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
1,4-Dichlorobenzene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
n-Butylbenzene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
1,2-Dichlorobenzene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
1,2-Dibromo-3-chloropropane	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
1,2,4-Trichlorobenzene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Hexachlorobutadiene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
Naphthalene	U	5.00	U	28.7	U	29.8	U	30.9	U	30.5
1,2,3-Trichlorobenzene										

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	Soil Blank B 082606-1	0M181
Location		SB-003-4.5'
Dilution Factor	1	5
Percent Solids	100	95

Analyte	Result µg/kg	RL µg/kg	Result µg/kg		RL µg/kg
Dichlorodifluoromethane	U	5.00	U		26.3
Chloromethane	U	5.00	U		26.3
Vinyl Chloride	U	5.00	U		26.3
Bromomethane	U	5.00	U		26.3
Chloroethane	U	5.00	U		26.3
Trichlorofluoromethane	U	5.00	U		26.3
Acetone	U	20.0	U		105
1,1-Dichloroethene	U	5.00	U		26.3
Methylene Chloride	U	5.00	U		26.3
Carbon Disulfide	U	5.00	U		26.3
Methyl-t-butyl Ether	U	5.00	U		26.3
trans-1,2-Dichloroethene	U	5.00	U		26.3
1,1-Dichloroethane	U	5.00	U		26.3
2-Butanone	U	5.00	U		26.3
2,2-Dichloropropane	U	5.00	U		26.3
cis-1,2-Dichloroethene	U	5.00	13.9	J	26.3
Chloroform	U	5.00	U		26.3
1,1-Dichloropropene	U	5.00	U		26.3
1,2-Dichloroethane	U	5.00	U		26.3
1,1,1-Trichloroethane	U	5.00	67.3		26.3
Carbon Tetrachloride	U	5.00	U		26.3
Benzene	U	5.00	U		26.3
Trichloroethene	U	5.00	114		26.3
1,2-Dichloropropane	U	5.00	U		26.3
Bromodichloromethane	U	5.00	U		26.3
Dibromomethane	U	5.00	U		26.3
cis-1,3-Dichloropropene	U	5.00	U		26.3
trans-1,3-Dichloropropene	U	5.00	U		26.3
1,1,2-Trichloroethane	U	5.00	U		26.3
1,3-Dichloropropane	U	5.00	U		26.3
Dibromochloromethane	U	5.00	U		26.3
1,2-Dibromoethane	U	5.00	U		26.3
Bromoform	U	5.00	U		26.3
4-Methyl-2-pentanone	U	5.00	U		26.3
Toluene	U	5.00	U		26.3
2-Hexanone	U	5.00	U		26.3
Tetrachloroethene	U	5.00	U		26.3
Chlorobenzene	U	5.00	U		26.3
1,1,1,2-Tetrachloroethane	U	5.00	U		26.3
Ethylbenzene	U	10.0	U		52.6
p&m-Xylene	U	5.00	U		26.3
o-Xylene	U	5.00	U		26.3
Styrene	U	5.00	U		26.3
Isopropylbenzene	U	5.00	U		26.3
1,1,2,2-Tetrachloroethane	U	5.00	U		26.3
1,2,3-Trichloropropane	U	5.00	U		26.3
n-Propylbenzene	U	5.00	U		26.3
Bromobenzene	U	5.00	U		26.3
1,3,5-Trimethylbenzene	U	5.00	U		26.3
2-Chlorotoluene	U	5.00	U		26.3
4-Chlorotoluene	U	5.00	U		26.3
tert-Butylbenzene	U	5.00	U		26.3
1,2,4-Trimethylbenzene	U	5.00	U		26.3
sec-Butylbenzene	U	5.00	U		26.3
p-Isopropyltoluene	U	5.00	U		26.3
1,3-Dichlorobenzene	U	5.00	U		26.3
1,4-Dichlorobenzene	U	5.00	U		26.3
n-Butylbenzene	U	5.00	U		26.3
1,2-Dichlorobenzene	U	5.00	U		26.3
1,2-Dibromo-3-chloropropane	U	5.00	U		26.3
1,2,4-Trichlorobenzene	U	5.00	J		26.3
Hexachlorobutadiene	U	5.00	J		26.3
Naphthalene	U	5.00	J		26.3
1,2,3-Trichlorobenzene	U	5.00	J		26.3

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	Soil Blank B 082706-2		19169 SB005-4'		19168 SB005-23'		19170 SB006-4.5'		15135 SB007-4.5'	
Location			1		5		5		10	
Dilution Factor	1		1		1		1		1	
Percent Solids	100		83		86		77		75	

Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Dichlorodifluoromethane	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Chloromethane	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Vinyl Chloride	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Bromomethane	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Chloroethane	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Trichlorofluoromethane	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Acetone	U	20.0	24.3	24.1	U	116	130	130	140 J	267
1,1-Dichloroethene	U	5.00	U	6.02	U	29.1	15.2 J	32.5	34.0 J	66.7
Methylene Chloride	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Carbon Disulfide	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Methyl-t-butyl Ether	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
trans-1,2-Dichloroethene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
1,1-Dichloroethane	U	5.00	U	6.02	U	29.1	U	32.5	41.2 J	66.7
2-Butanone	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
2,2-Dichloropropane	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
cis-1,2-Dichloroethene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Chloroform	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
1,1-Dichloropropene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
1,2-Dichloroethane	U	5.00	162	6.02	179	29.1	545	32.5	527	66.7
1,1,1-Trichloroethane	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Carbon Tetrachloride	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Benzene	U	5.00	96.6	6.02	70.2	29.1	279	32.5	287	66.7
Trichloroethene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
1,2-Dichloropropane	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Bromodichloromethane	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Dibromomethane	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
cis-1,3-Dichloropropene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
trans-1,3-Dichloropropene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
1,1,2-Trichloroethane	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
1,3-Dichloropropane	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Dibromochloromethane	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
1,2-Dibromoethane	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Bromoform	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
4-Methyl-2-pentanone	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Toluene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
2-Hexanone	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Tetrachloroethene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Chlorobenzene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
1,1,1,2-Tetrachloroethane	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Ethylbenzene	U	10.0	U	12.0	U	58.1	U	64.9	U	133
p&m-Xylene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
o-Xylene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Styrene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Isopropylbenzene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
1,1,2,2-Tetrachloroethane	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
1,2,3-Trichloropropane	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
n-Propylbenzene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Bromobenzene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
1,3,5-Trimethylbenzene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
2-Chlorotoluene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
4-Chlorotoluene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
tert-Butylbenzene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
1,2,4-Trimethylbenzene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
sec-Butylbenzene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
p-Isopropyltoluene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
1,3-Dichlorobenzene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
1,4-Dichlorobenzene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
n-Butylbenzene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
1,2-Dichlorobenzene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
1,2-Dibromo-3-chloropropane	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
1,2,4-Trichlorobenzene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Hexachlorobutadiene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
Naphthalene	U	5.00	U	6.02	U	29.1	U	32.5	U	66.7
1,2,3-Trichlorobenzene										

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	Soil Blank B 082706-2		15137 SB008-5'		15138 SB008-7.5'		23733 SB-009-18'		23734 SB-009-24.5'	
Location			5		5		5		5	
Dilution Factor	1		10		1		84		93	
Percent Solids	100		61		85					

Analyte	Result µg/kg	RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg
Dichlorodifluoromethane	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
Chloromethane	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
Vinyl Chloride	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
Bromomethane	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
Chloroethane	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
Trichlorofluoromethane	U	20.0	120	J	247	U	118	U		119	U		108
Acetone	U	5.00	65.2		61.7	U	29.4	278		29.8	34.3		26.9
1,1-Dichloroethene	U	5.00	U		61.7	U	29.4	2520		298	U		26.9
Methylene Chloride	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
Carbon Disulfide	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
Methyl-t-butyl Ether	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
trans-1,2-Dichloroethene	U	5.00	36.2	J	61.7	U	29.4	100		29.8	20.7	J	26.9
1,1-Dichloroethane	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
2-Butanone	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
2,2-Dichloropropane	U	5.00	19.9	J	61.7	U	29.4	53.7		29.8	U		26.9
cis-1,2-Dichloroethene	U	5.00	U		61.7	U	29.4	69.6		29.8	U		26.9
Chloroform	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
1,1-Dichloropropene	U	5.00	U		61.7	U	29.4	76.5		29.8	U		26.9
1,2-Dichloroethane	U	5.00	579		61.7	719	29.4	580000		59500	952		53.8
1,1,1-Trichloroethane	U	5.00	U		61.7	U	29.4	88.8		29.8	U		26.9
Carbon Tetrachloride	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
Benzene	U	5.00	406		61.7	313	29.4	149000		59500	198		53.8
Trichloroethene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
1,2-Dichloropropane	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
Bromodichloromethane	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
Dibromomethane	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
cis-1,3-Dichloropropene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
trans-1,3-Dichloropropene	U	5.00	U		61.7	U	29.4	312		29.8	U		26.9
1,1,2-Trichloroethane	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
1,3-Dichloropropane	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
Dibromochloromethane	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
1,2-Dibromoethane	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
Bromoform	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
4-Methyl-2-pentanone	U	5.00	U		61.7	U	29.4	186		29.8	U		26.9
Toluene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
2-Hexanone	U	5.00	U		61.7	U	29.4	35.2		29.8	U		26.9
Tetrachloroethene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
Chlorobenzene	U	5.00	U		61.7	U	29.4	13.9	J	29.8	U		26.9
1,1,1,2-Tetrachloroethane	U	5.00	U		61.7	U	29.4	11.9	J	29.8	U		26.9
Ethylbenzene	U	10.0	U		123	U	58.8	50.9	J	59.5	U		53.8
p&m-Xylene	U	5.00	U		61.7	U	29.4	11.4	J	29.8	U		26.9
o-Xylene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
Styrene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
Isopropylbenzene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
1,1,2,2-Tetrachloroethane	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
1,2,3-Trichloropropane	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
n-Propylbenzene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
Bromobenzene	U	5.00	U		61.7	U	29.4	406		298	U		26.9
1,3,5-Trimethylbenzene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
2-Chlorotoluene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
4-Chlorotoluene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
tert-Butylbenzene	U	5.00	U		61.7	U	29.4	14.6	J	29.8	U		26.9
1,2,4-Trimethylbenzene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
sec-Butylbenzene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
p-Isopropyltoluene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
1,3-Dichlorobenzene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
1,4-Dichlorobenzene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
n-Butylbenzene	U	5.00	U		61.7	U	29.4	11.5	J	29.8	U		26.9
1,2-Dichlorobenzene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
1,2-Dibromo-3-chloropropane	U	5.00	U		61.7	U	29.4	7.56	J	29.8	U		26.9
1,2,4-Trichlorobenzene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
Hexachlorobutadiene	U	5.00	U		61.7	U	29.4	221	J	298	U		26.9
Naphthalene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9
1,2,3-Trichlorobenzene	U	5.00	U		61.7	U	29.4	U		29.8	U		26.9

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	Soil Blank B 082706-2		23736 SB-009-28.5'		23879 SB014-17.5'		23870 SB011-12.5'		23876 SB012-20'	
Location			5		5		5		5	
Dilution Factor	1									
Percent Solids	100		90		82		82		88	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Dichlorodifluoromethane	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Chloromethane	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Vinyl Chloride	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Bromomethane	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Chloroethane	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Trichlorofluoromethane	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Acetone	U	20.0	U	111	U	122	U	122	U	114
1,1-Dichloroethene	U	5.00	17.4 J	27.8	U	30.5	U	30.5	U	28.4
Methylene Chloride	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Carbon Disulfide	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Methyl-t-butyl Ether	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
trans-1,2-Dichloroethene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
1,1-Dichloroethane	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
2-Butanone	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
2,2-Dichloropropane	U	5.00	U	27.8	U	30.5	U	30.5	15.6 J	28.4
cis-1,2-Dichloroethene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Chloroform	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
1,1-Dichloropropene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
1,2-Dichloroethane	U	5.00	345	27.8	6620	610	132	30.5	287	28.4
1,1,1-Trichloroethane	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Carbon Tetrachloride	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Benzene	U	5.00	75.4	27.8	2360	610	155	30.5	358	28.4
Trichloroethene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
1,2-Dichloropropane	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Bromodichloromethane	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Dibromomethane	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
cis-1,3-Dichloropropene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
trans-1,3-Dichloropropene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
1,1,2-Trichloroethane	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
1,3-Dichloropropane	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Dibromochloromethane	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
1,2-Dibromoethane	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Bromoform	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
4-Methyl-2-pentanone	U	5.00	U	27.8	31.8	30.5	U	30.5	U	28.4
Toluene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
2-Hexanone	U	5.00	U	27.8	21.5 J	30.5	U	30.5	U	28.4
Tetrachloroethene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Chlorobenzene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
1,1,1,2-Tetrachloroethane	U	5.00	U	27.8	13.3 J	30.5	U	30.5	U	28.4
Ethylbenzene	U	10.0	U	55.6	42.7 J	61.0	U	61.0	U	56.8
p&m-Xylene	U	5.00	U	27.8	12.9 J	30.5	U	30.5	U	28.4
o-Xylene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Styrene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Isopropylbenzene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
1,1,2,2-Tetrachloroethane	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
1,2,3-Trichloropropane	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
n-Propylbenzene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Bromobenzene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
1,3,5-Trimethylbenzene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
2-Chlorotoluene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
4-Chlorotoluene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
tert-Butylbenzene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
1,2,4-Trimethylbenzene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
sec-Butylbenzene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
p-Isopropyltoluene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
1,3-Dichlorobenzene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
1,4-Dichlorobenzene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
n-Butylbenzene	U	5.00	U	27.8	35.7	30.5	U	30.5	U	28.4
1,2-Dichlorobenzene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
1,2-Dibromo-3-chloropropane	U	5.00	U	27.8	58.0 J	30.5	U	30.5	U	28.4
1,2,4-Trichlorobenzene	U	5.00	U	27.8	U	30.5	U	30.5	U	28.4
Hexachlorobutadiene	U	5.00	U	27.8	34.4 J	30.5	U	30.5	U	28.4
Naphthalene	U	5.00	U	27.8	10.5 J	30.5	U	30.5	U	28.4
1,2,3-Trichlorobenzene										

rv_2336

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	Soil Blank B 082706-3		19161 SB-004-5'		04197 SB005-10'		23875 SB012-18'		23877 SB011-19'	
Location			0		5		5		5	
Dilution Factor	1		10		84		84		84	
Percent Solids	100		40							
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Dichlorodifluoromethane	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Chloromethane	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Vinyl Chloride	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Bromomethane	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Chloroethane	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Trichlorofluoromethane	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Acetone	7.52 J	20.0	U	222	U	119	U	119	U	119
1,1-Dichloroethene	U	5.00	114	55.6	U	29.8	U	29.8	74.5	29.8
Methylene Chloride	U	5.00	U	55.6	U	29.8	U	29.8	79.3	29.8
Carbon Disulfide	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Methyl-t-butyl Ether	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
trans-1,2-Dichloroethene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
1,1-Dichloroethane	U	5.00	21.7 J	55.6	U	29.8	U	29.8	14.1 J	29.8
2-Butanone	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
2,2-Dichloropropane	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
cis-1,2-Dichloroethene	U	5.00	305	55.6	U	29.8	U	29.8	U	29.8
Chloroform	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
1,1-Dichloropropene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
1,2-Dichloroethane	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
1,1,1-Trichloroethane	U	5.00	376	55.6	33.5	29.8	281	29.8	2000	595
Carbon Tetrachloride	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Benzene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Trichloroethene	U	5.00	1010	55.6	13.4 J	29.8	1520	29.8	1040	595
1,2-Dichloropropane	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Bromodichloromethane	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Dibromomethane	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
cis-1,3-Dichloropropene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
trans-1,3-Dichloropropene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
1,1,2-Trichloroethane	U	5.00	U	55.6	U	29.8	U	29.8	12.7 J	29.8
1,3-Dichloropropane	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Dibromochloromethane	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
1,2-Dibromoethane	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Bromoform	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
4-Methyl-2-pentanone	U	5.00	17.1 J	55.6	U	29.8	U	29.8	U	29.8
Toluene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
2-Hexanone	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Tetrachloroethene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Chlorobenzene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
1,1,1,2-Tetrachloroethane	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Ethylbenzene	U	10.0	U	111	U	59.5	U	59.5	U	59.5
p&m-Xylene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
o-Xylene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Styrene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Isopropylbenzene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
1,1,2,2-Tetrachloroethane	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
1,2,3-Trichloropropane	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
n-Propylbenzene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Bromobenzene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
1,3,5-Trimethylbenzene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
2-Chlorotoluene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
4-Chlorotoluene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
tert-Butylbenzene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
1,2,4-Trimethylbenzene	U	5.00	J	55.6	U	29.8	U	29.8	U	29.8
sec-Butylbenzene	U	5.00	J	55.6	U	29.8	U	29.8	U	29.8
p-Isopropyltoluene	U	5.00	J	55.6	U	29.8	U	29.8	U	29.8
1,3-Dichlorobenzene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
1,4-Dichlorobenzene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
n-Butylbenzene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
1,2-Dichlorobenzene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
1,2-Dibromo-3-chloropropane	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
1,2,4-Trichlorobenzene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Hexachlorobutadiene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
Naphthalene	U	5.00	U	55.6	U	29.8	U	29.8	U	29.8
1,2,3-Trichlorobenzene										

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	Soil Blank B 082706-3		23739 SB012-9'		23873 SB010-18.5'		23737 SB010-22'		23738 SB010-8.5'	
Location			5		5		5		5	
Dilution Factor	1									
Percent Solids	100		83		70		80		82	

Analyte	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg
Dichlorodifluoromethane	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Chloromethane	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Vinyl Chloride	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Bromomethane	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Chloroethane	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Trichlorofluoromethane	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Acetone	7.52	J	20.0	U		120	U		143	U		125	U		122
1,1-Dichloroethene	U		5.00	U		30.1	244		35.7	138		31.3	U		30.5
Methylene Chloride	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Carbon Disulfide	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Methyl-t-butyl Ether	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
trans-1,2-Dichloroethene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
1,1-Dichloroethane	U		5.00	U		30.1	40.3		35.7	24.1	J	31.3	U		30.5
2-Butanone	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
2,2-Dichloropropane	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
cis-1,2-Dichloroethene	U		5.00	U		30.1	11.0	J	35.7	U		31.3	U		30.5
Chloroform	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
1,1-Dichloropropene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
1,2-Dichloroethane	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
1,1,1-Trichloroethane	U		5.00	318		30.1	3910		714	3410		313	110		30.5
Carbon Tetrachloride	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Benzene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Trichloroethene	U		5.00	1070		301	108		35.7	38.4		31.3	33.7		30.5
1,2-Dichloropropane	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Bromodichloromethane	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Dibromomethane	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
cis-1,3-Dichloropropene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
trans-1,3-Dichloropropene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
1,1,2-Trichloroethane	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
1,3-Dichloropropane	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Dibromochloromethane	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
1,2-Dibromoethane	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Bromoform	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
4-Methyl-2-pentanone	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Toluene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
2-Hexanone	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Tetrachloroethene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Chlorobenzene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
1,1,1,2-Tetrachloroethane	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Ethylbenzene	U		10.0	U		60.2	U		71.4	U		62.5	U		61.0
p&m-Xylene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
o-Xylene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Styrene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Isopropylbenzene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
1,1,2,2-Tetrachloroethane	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
1,2,3-Trichloropropane	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
n-Propylbenzene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Bromobenzene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
1,3,5-Trimethylbenzene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
2-Chlorotoluene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
4-Chlorotoluene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
tert-Butylbenzene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
1,2,4-Trimethylbenzene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
sec-Butylbenzene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
p-Isopropyltoluene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
1,3-Dichlorobenzene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
1,4-Dichlorobenzene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
n-Butylbenzene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
1,2-Dichlorobenzene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
1,2-Dibromo-3-chloropropane	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
1,2,4-Trichlorobenzene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Hexachlorobutadiene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
Naphthalene	U		5.00	U		30.1	U		35.7	U		31.3	U		30.5
1,2,3-Trichlorobenzene															

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	Soil Blank B 082706-3		23882 SB014a-23'		23883 SB016-18'		23878 SB012a-6'		23881 SB012a-16'	
Location			5		5		5		5	
Dilution Factor	1		8.1		82		85		85	
Percent Solids	100									

Analyte	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg
Dichlorodifluoromethane	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
Chloromethane	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
Vinyl Chloride	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
Bromomethane	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
Chloroethane	U		5.00	U		30.5	U	30.5	U		29.4	720	J	29.4
Trichlorofluoromethane	U		5.00	99.0		30.5	U	122	U		118	236	J	118
Acetone	7.52	J	20.0	U		122	U	30.5	U		29.4	5820	J	29.4
1,1-Dichloroethene	U		5.00	3750	J	30.5	U	30.5	U		29.4	U		29.4
Methylene Chloride	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
Carbon Disulfide	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
Methyl-t-butyl Ether	U		5.00	U		30.5	U	30.5	U		29.4	8.35	J	29.4
trans-1,2-Dichloroethene	U		5.00	U		30.5	U	30.5	9.12	J	29.4	134	J	29.4
1,1-Dichloroethane	U		5.00	41.4		30.5	U	30.5	U		29.4	U		29.4
2-Butanone	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
2,2-Dichloropropane	U		5.00	U		30.5	U	30.5	924		29.4	1370	J	294
cis-1,2-Dichloroethene	U		5.00	53.2		30.5	U	30.5	U		29.4	U		29.4
Chloroform	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
1,1-Dichloropropene	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
1,2-Dichloroethane	U		5.00	U		30.5	U	30.5	U		29.4	83600		58800
1,1,1-Trichloroethane	U		5.00	10400	J	30.5	121	30.5	1030		29.4	604	J	29.4
Carbon Tetrachloride	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
Benzene	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
Trichloroethene	U		5.00	5610	J	30.5	163	30.5	1720		294	108000		58800
1,2-Dichloropropane	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
Bromodichloromethane	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
Dibromomethane	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
cis-1,3-Dichloropropene	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
trans-1,3-Dichloropropene	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
1,1,2-Trichloroethane	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
1,3-Dichloropropane	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
Dibromochloromethane	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
1,2-Dibromoethane	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
Bromoform	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
4-Methyl-2-pentanone	U		5.00	361		30.5	U	30.5	8.35	J	29.4	18000	J	294
Toluene	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
2-Hexanone	U		5.00	U		30.5	U	30.5	U		29.4	492	J	29.4
Tetrachloroethene	U		5.00	U		30.5	U	30.5	U		29.4	38.0	J	29.4
Chlorobenzene	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
1,1,1,2-Tetrachloroethane	U		5.00	U		30.5	U	30.5	U		29.4	3400		294
Ethylbenzene	U		10.0	19.9	J	61.0	U	61.0	U		58.8	15500		294
p&m-Xylene	U		5.00	U		30.5	U	30.5	U		29.4	3480		294
o-Xylene	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
Styrene	U		5.00	U		30.5	U	30.5	U		29.4	309	J	29.4
Isopropylbenzene	U		5.00	U		30.5	U	30.5	U		29.4	93.0	J	29.4
1,1,2,2-Tetrachloroethane	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
1,2,3-Trichloropropane	U		5.00	U		30.5	U	30.5	U		29.4	316	J	29.4
n-Propylbenzene	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
Bromobenzene	U		5.00	U		30.5	U	30.5	U		29.4	658	J	29.4
1,3,5-Trimethylbenzene	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
2-Chlorotoluene	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
4-Chlorotoluene	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
tert-Butylbenzene	U		5.00	U		30.5	U	30.5	U		29.4	1550		294
1,2,4-Trimethylbenzene	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
sec-Butylbenzene	U		5.00	U		30.5	U	30.5	U		29.4	266	J	29.4
p-Isopropyltoluene	U		5.00	U		30.5	U	30.5	U		29.4	25.5	J	29.4
1,3-Dichlorobenzene	U		5.00	U		30.5	U	30.5	U		29.4	337	J	29.4
1,4-Dichlorobenzene	U		5.00	8.11	J	30.5	U	30.5	U		29.4	U		29.4
n-Butylbenzene	U		5.00	U		30.5	U	30.5	U		29.4	1150		294
1,2-Dichlorobenzene	U		5.00	53.0		30.5	U	30.5	U		29.4	U		29.4
1,2-Dibromo-3-chloropropane	U		5.00	U		30.5	U	30.5	U		29.4	111	J	29.4
1,2,4-Trichlorobenzene	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
Hexachlorobutadiene	U		5.00	U		30.5	U	30.5	U		29.4	122	J	29.4
Naphthalene	U		5.00	U		30.5	U	30.5	U		29.4	U		29.4
1,2,3-Trichlorobenzene														

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	Soil Blank B 082706-3		23880	
Location			SB013-9'	
Dilution Factor	1		5	
Percent Solids	100		84	

Analyte	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg
Dichlorodifluoromethane	U		5.00	U		29.8
Chloromethane	U		5.00	U		29.8
Vinyl Chloride	U		5.00	U		29.8
Bromomethane	U		5.00	U		29.8
Chloroethane	U		5.00	U		29.8
Trichlorofluoromethane	U		5.00	U		29.8
Acetone	7.52	J	20.0	84.2		119
1,1-Dichloroethene	U		5.00	U		29.8
Methylene Chloride	U		5.00	U		29.8
Carbon Disulfide	U		5.00	U		29.8
Methyl-t-butyl Ether	U		5.00	U		29.8
trans-1,2-Dichloroethene	U		5.00	U		29.8
1,1-Dichloroethane	U		5.00	U		29.8
2-Butanone	U		5.00	U		29.8
2,2-Dichloropropane	U		5.00	U		29.8
cis-1,2-Dichloroethene	U		5.00	U		29.8
Chloroform	U		5.00	U		29.8
1,1-Dichloropropene	U		5.00	U		29.8
1,2-Dichloroethane	U		5.00	66.5	J	29.8
1,1,1-Trichloroethane	U		5.00	U		29.8
Carbon Tetrachloride	U		5.00	U		29.8
Benzene	U		5.00	161	J	29.8
Trichloroethene	U		5.00	U		29.8
1,2-Dichloropropane	U		5.00	U		29.8
Bromodichloromethane	U		5.00	U		29.8
Dibromomethane	U		5.00	U		29.8
cis-1,3-Dichloropropene	U		5.00	U		29.8
trans-1,3-Dichloropropene	U		5.00	U		29.8
1,1,2-Trichloroethane	U		5.00	U		29.8
1,3-Dichloropropane	U		5.00	U		29.8
Dibromochloromethane	U		5.00	U		29.8
1,2-Dibromoethane	U		5.00	U		29.8
Bromoform	U		5.00	U		29.8
4-Methyl-2-pentanone	U		5.00	23.5	J	29.8
Toluene	U		5.00	U		29.8
2-Hexanone	U		5.00	U		29.8
Tetrachloroethene	U		5.00	U		29.8
Chlorobenzene	U		5.00	U		29.8
1,1,1,2-Tetrachloroethane	U		5.00	U		29.8
Ethylbenzene	U		10.0	21.0	J	59.5
p&m-Xylene	U		5.00	8.69	J	29.8
o-Xylene	U		5.00	U		29.8
Styrene	U		5.00	U		29.8
Isopropylbenzene	U		5.00	U		29.8
1,1,2,2-Tetrachloroethane	U		5.00	U		29.8
1,2,3-Trichloropropane	U		5.00	U		29.8
n-Propylbenzene	U		5.00	U		29.8
Bromobenzene	U		5.00	U		29.8
1,3,5-Trimethylbenzene	U		5.00	U		29.8
2-Chlorotoluene	U		5.00	U		29.8
4-Chlorotoluene	U		5.00	U		29.8
tert-Butylbenzene	U		5.00	U		29.8
1,2,4-Trimethylbenzene	U		5.00	U		29.8
sec-Butylbenzene	U		5.00	U		29.8
p-Isopropyltoluene	U		5.00	U		29.8
1,3-Dichlorobenzene	U		5.00	U		29.8
1,4-Dichlorobenzene	U		5.00	U		29.8
n-Butylbenzene	U		5.00	U		29.8
1,2-Dichlorobenzene	U		5.00	U		29.8
1,2-Dibromo-3-chloropropane	U		5.00	U		29.8
1,2,4-Trichlorobenzene	U		5.00	U		29.8
Hexachlorobutadiene	U		5.00	U		29.8
Naphthalene	U		5.00	U		29.8
1,2,3-Trichlorobenzene	U		5.00	U		29.8

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	Soil Blank B 082806-2		00398 SB021-15A		00394 SB021-13		00393 SB021-15	
Location			5		5		5	
Dilution Factor	1		50		82		82	
Percent Solids	100							

Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Dichlorodifluoromethane	U	5.00	U	27.8	U	30.5	U	30.5
Chloromethane	U	5.00	U	27.8	U	30.5	U	30.5
Vinyl Chloride	U	5.00	U	27.8	U	30.5	U	30.5
Bromomethane	U	5.00	U	27.8	U	30.5	U	30.5
Chloroethane	U	5.00	U	27.8	U	30.5	U	30.5
Trichlorofluoromethane	U	20.0	U	111	43.8 J	122	53.0 J	122
Acetone	U	5.00	10.8 J	27.8	10.5 J	30.5	14.8 J	30.5
1,1-Dichloroethene	U	5.00	U	27.8	U	30.5	11.0 J	30.5
Methylene Chloride	U	5.00	U	27.8	U	30.5	U	30.5
Carbon Disulfide	U	5.00	U	27.8	U	30.5	U	30.5
Methyl-t-butyl Ether	U	5.00	U	27.8	U	30.5	U	30.5
trans-1,2-Dichloroethene	U	5.00	U	27.8	U	30.5	U	30.5
1,1-Dichloroethane	U	5.00	U	27.8	U	30.5	U	30.5
2-Butanone	U	5.00	U	27.8	U	30.5	U	30.5
2,2-Dichloropropane	U	5.00	U	27.8	U	30.5	U	30.5
cis-1,2-Dichloroethene	U	5.00	U	27.8	U	30.5	U	30.5
Chloroform	U	5.00	U	27.8	U	30.5	U	30.5
1,1-Dichloropropene	U	5.00	U	27.8	U	30.5	U	30.5
1,2-Dichloroethane	U	5.00	804	27.8	1170	30.5	2890 J	30.5
1,1,1-Trichloroethane	U	5.00	U	27.8	U	30.5	U	30.5
Carbon Tetrachloride	U	5.00	U	27.8	U	30.5	U	30.5
Benzene	U	5.00	971	27.8	1700 J	305	4950 J	30.5
Trichloroethene	U	5.00	U	27.8	U	30.5	U	30.5
1,2-Dichloropropane	U	5.00	U	27.8	U	30.5	U	30.5
Bromodichloromethane	U	5.00	U	27.8	U	30.5	U	30.5
Dibromomethane	U	5.00	U	27.8	U	30.5	U	30.5
cis-1,3-Dichloropropene	U	5.00	U	27.8	U	30.5	U	30.5
trans-1,3-Dichloropropene	U	5.00	U	27.8	U	30.5	11.1 J	30.5
1,1,2-Trichloroethane	U	5.00	U	27.8	U	30.5	U	30.5
1,3-Dichloropropane	U	5.00	U	27.8	U	30.5	U	30.5
Dibromochloromethane	U	5.00	U	27.8	U	30.5	U	30.5
1,2-Dibromoethane	U	5.00	U	27.8	U	30.5	U	30.5
Bromoform	U	5.00	U	27.8	U	30.5	U	30.5
4-Methyl-2-pentanone	U	5.00	U	27.8	10.4 J	30.5	56.9	30.5
Toluene	U	5.00	U	27.8	U	30.5	U	30.5
2-Hexanone	U	5.00	U	27.8	U	30.5	U	30.5
Tetrachloroethene	U	5.00	U	27.8	U	30.5	U	30.5
Chlorobenzene	U	5.00	U	27.8	U	30.5	U	30.5
1,1,1,2-Tetrachloroethane	U	5.00	U	27.8	U	30.5	7.93 J	30.5
Ethylbenzene	U	10.0	U	55.6	U	61.0	44.2 J	61.0
p&m-Xylene	U	5.00	U	27.8	U	30.5	12.4 J	30.5
o-Xylene	U	5.00	U	27.8	U	30.5	U	30.5
Styrene	U	5.00	U	27.8	U	30.5	U	30.5
Isopropylbenzene	U	5.00	U	27.8	U	30.5	U	30.5
1,1,2,2-Tetrachloroethane	U	5.00	U	27.8	U	30.5	U	30.5
1,2,3-Trichloropropane	U	5.00	U	27.8	U	30.5	U	30.5
n-Propylbenzene	U	5.00	U	27.8	U	30.5	U	30.5
Bromobenzene	U	5.00	U	27.8	U	30.5	U	30.5
1,3,5-Trimethylbenzene	U	5.00	U	27.8	U	30.5	U	30.5
2-Chlorotoluene	U	5.00	U	27.8	U	30.5	U	30.5
4-Chlorotoluene	U	5.00	U	27.8	U	30.5	U	30.5
tert-Butylbenzene	U	5.00	U	27.8	U	30.5	U	30.5
1,2,4-Trimethylbenzene	U	5.00	U	27.8	U	30.5	U	30.5
sec-Butylbenzene	U	5.00	U	27.8	U	30.5	U	30.5
p-Isopropyltoluene	U	5.00	U	27.8	U	30.5	U	30.5
1,3-Dichlorobenzene	U	5.00	U	27.8	U	30.5	U	30.5
1,4-Dichlorobenzene	U	5.00	U	27.8	U	30.5	U	30.5
n-Butylbenzene	U	5.00	8.44 J	27.8	24.5 J	30.5	56.0	30.5
1,2-Dichlorobenzene	U	5.00	U	27.8	U	30.5	U	30.5
1,2-Dibromo-3-chloropropane	U	5.00	U	27.8	13.2 J	30.5	U	30.5
1,2,4-Trichlorobenzene	U	5.00	U	27.8	U	30.5	U	30.5
Hexachlorobutadiene	U	5.00	U	27.8	17.1 J	30.5	52.7	30.5
Naphthalene	U	5.00	U	27.8	U	30.5	U	30.5
1,2,3-Trichlorobenzene	U	5.00	U	27.8	U			

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	Soil Blank B 082806-2		23888 SB019-17.5		00392 SB026-15'		00624 SB022-4.5		00396 SB022-11.5	
Location			5		5		5		5	
Dilution Factor	1		80		83		86		81	
Percent Solids	100									

Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg		RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg		RL µg/kg
Dichlorodifluoromethane	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
Chloromethane	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
Vinyl Chloride	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
Bromomethane	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
Chloroethane	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
Trichlorofluoromethane	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
Acetone	U	20.0	U	125	U		120	U	116	62.4	J	123
1,1-Dichloroethene	U	5.00	U	31.3	7.65	J	30.1	U	29.1	20.5	J	30.9
Methylene Chloride	U	5.00	U	31.3	U		30.1	U	29.1	98.0	J	30.9
Carbon Disulfide	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
Methyl-t-butyl Ether	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
trans-1,2-Dichloroethene	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
1,1-Dichloroethane	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
2-Butanone	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
2,2-Dichloropropane	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
cis-1,2-Dichloroethene	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
Chloroform	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
1,1-Dichloropropene	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
1,2-Dichloroethane	U	5.00	294	31.3	739		30.1	49.0	29.1	55500	J	617
1,1,1-Trichloroethane	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
Carbon Tetrachloride	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
Benzene	U	5.00	81.8	31.3	851		30.1	36.3	29.1	20500		617
Trichloroethene	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
1,2-Dichloropropane	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
Bromodichloromethane	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
Dibromomethane	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
cis-1,3-Dichloropropene	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
trans-1,3-Dichloropropene	U	5.00	U	31.3	U		30.1	U	29.1	147	J	30.9
1,1,2-Trichloroethane	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
1,3-Dichloropropane	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
Dibromochloromethane	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
1,2-Dibromoethane	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
Bromoform	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
4-Methyl-2-pentanone	U	5.00	U	31.3	U		30.1	U	29.1	49.9	J	30.9
Toluene	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
2-Hexanone	U	5.00	U	31.3	U		30.1	U	29.1	32.3	J	30.9
Tetrachloroethene	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
Chlorobenzene	U	5.00	U	31.3	U		30.1	U	29.1	10.0	J	30.9
1,1,1,2-Tetrachloroethane	U	5.00	U	31.3	U		30.1	U	29.1	25.4	J	30.9
Ethylbenzene	U	10.0	U	62.5	U		60.2	U	58.1	141	J	61.7
p&m-Xylene	U	5.00	U	31.3	U		30.1	U	29.1	56.2	J	30.9
o-Xylene	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
Styrene	U	5.00	U	31.3	U		30.1	U	29.1	9.01	J	30.9
Isopropylbenzene	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
1,1,2,2-Tetrachloroethane	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
1,2,3-Trichloropropane	U	5.00	U	31.3	U		30.1	U	29.1	36.4	J	30.9
n-Propylbenzene	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
Bromobenzene	U	5.00	U	31.3	U		30.1	U	29.1	54.3	J	30.9
1,3,5-Trimethylbenzene	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
2-Chlorotoluene	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
4-Chlorotoluene	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
tert-Butylbenzene	U	5.00	U	31.3	U		30.1	U	29.1	299	J	30.9
1,2,4-Trimethylbenzene	U	5.00	U	31.3	U		30.1	U	29.1	8.27	J	30.9
sec-Butylbenzene	U	5.00	U	31.3	U		30.1	U	29.1	14.5	J	30.9
p-Isopropyltoluene	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
1,3-Dichlorobenzene	U	5.00	U	31.3	U		30.1	U	29.1	32.3	J	30.9
1,4-Dichlorobenzene	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
n-Butylbenzene	U	5.00	U	31.3	8.25	J	30.1	U	29.1	221	J	30.9
1,2-Dichlorobenzene	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
1,2-Dibromo-3-chloropropane	U	5.00	U	31.3	19.8	J	30.1	U	29.1	650	J	30.9
1,2,4-Trichlorobenzene	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9
Hexachlorobutadiene	U	5.00	U	31.3	U		30.1	U	29.1	2320		617
Naphthalene	U	5.00	U	31.3	U		30.1	U	29.1	239	J	30.9
1,2,3-Trichlorobenzene	U	5.00	U	31.3	U		30.1	U	29.1	U		30.9

FV_2342

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	Soil Blank B 082606-2		00399		
Location			SB022-13.5		
Dilution Factor	1		5		
Percent Solids	100		84		

Analyte	Result µg/kg		RL µg/kg	Result µg/kg		RL µg/kg
Dichlorodifluoromethane	U		5.00	U		29.8
Chloromethane	U		5.00	U		29.8
Vinyl Chloride	U		5.00	U		29.8
Bromomethane	U		5.00	U		29.8
Chloroethane	U		5.00	U		29.8
Trichlorofluoromethane	U		5.00	U		29.8
Acetone	U		20.0	43	J	119
1,1-Dichloroethene	U		5.00	97700	J	29.8
Methylene Chloride	U		5.00	10100		2980
Carbon Disulfide	U		5.00	U		29.8
Methyl-t-butyl Ether	U		5.00	U		29.8
trans-1,2-Dichloroethene	U		5.00	U		29.8
1,1-Dichloroethane	U		5.00	987		29.8
2-Butanone	U		5.00	U		29.8
2,2-Dichloropropane	U		5.00	U		29.8
cis-1,2-Dichloroethene	U		5.00	1050		29.8
Chloroform	U		5.00	1230	J	29.8
1,1-Dichloropropene	U		5.00	U		29.8
1,2-Dichloroethane	U		5.00	U		29.8
1,1,1-Trichloroethane	U		5.00	200000		59500
Carbon Tetrachloride	U		5.00	U		29.8
Benzene	U		5.00	155		29.8
Trichloroethene	U		5.00	107000		2980
1,2-Dichloropropane	U		5.00	U		29.8
Bromodichloromethane	U		5.00	U		29.8
Dibromomethane	U		5.00	U		29.8
cis-1,3-Dichloropropene	U		5.00	U		29.8
trans-1,3-Dichloropropene	U		5.00	U		29.8
1,1,2-Trichloroethane	U		5.00	10900	J	29.8
1,3-Dichloropropane	U		5.00	U		29.8
Dibromochloromethane	U		5.00	U		29.8
1,2-Dibromoethane	U		5.00	U		29.8
Bromoform	U		5.00	U		29.8
4-Methyl-2-pentanone	U		5.00	128		29.8
Toluene	U		5.00	6210	J	29.8
2-Hexanone	U		5.00	U		29.8
Tetrachloroethene	U		5.00	3340	J	29.8
Chlorobenzene	U		5.00	49.5		29.8
1,1,1,2-Tetrachloroethane	U		5.00	897		29.8
Ethylbenzene	U		5.00	1210	J	29.8
p&m-Xylene	U		10.0	4210	J	59.5
o-Xylene	U		5.00	1450	J	29.8
Styrene	U		5.00	U		29.8
Isopropylbenzene	U		5.00	230		29.8
1,1,2,2-Tetrachloroethane	U		5.00	205		29.8
1,2,3-Trichloropropane	U		5.00	U		29.8
n-Propylbenzene	U		5.00	458		29.8
Bromobenzene	U		5.00	U		29.8
1,3,5-Trimethylbenzene	U		5.00	494		29.8
2-Chlorotoluene	U		5.00	U		29.8
4-Chlorotoluene	U		5.00	U		29.8
tert-Butylbenzene	U		5.00	U		29.8
1,2,4-Trimethylbenzene	U		5.00	1950	J	29.8
sec-Butylbenzene	U		5.00	47.1		29.8
p-Isopropyltoluene	U		5.00	77.0		29.8
1,3-Dichlorobenzene	U		5.00	22.0	J	29.8
1,4-Dichlorobenzene	U		5.00	102		29.8
n-Butylbenzene	U		5.00	U		29.8
1,2-Dichlorobenzene	U		5.00	506		29.8
1,2-Dibromo-3-chloropropane	U		5.00	U		29.8
1,2,4-Trichlorobenzene	U		5.00	468		29.8
Hexachlorobutadiene	U		5.00	U		29.8
Naphthalene	U		5.00	4770	J	29.8
1,2,3-Trichlorobenzene	U		5.00	113		29.8

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: PEAC SOP 1807

Sample No	Soil Blank B 083006-1		23884	
Location			SB015-20'	
Dilution Factor	1		5	
Percent Solids	100		85	
Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Dichlorodifluoromethane	U	5.00	U	29.4
Chloromethane	U	5.00	U	29.4
Vinyl Chloride	U	5.00	U	29.4
Bromomethane	U	5.00	U	29.4
Chloroethane	U	5.00	U	29.4
Trichlorofluoromethane	U	5.00	U	29.4
Acetone	U	20.0	U	118
1,1-Dichloroethene	U	5.00	U	29.4
Methylene Chloride	U	5.00	9.12 J	29.4
Carbon Disulfide	U	5.00	U	29.4
Methyl-t-butyl Ether	U	5.00	U	29.4
trans-1,2-Dichloroethene	U	5.00	U	29.4
1,1-Dichloroethane	U	5.00	U	29.4
2-Butanone	U	5.00	U	29.4
2,2-Dichloropropane	U	5.00	U	29.4
cis-1,2-Dichloroethene	U	5.00	U	29.4
Chloroform	U	5.00	U	29.4
1,1-Dichloropropene	U	5.00	U	29.4
1,2-Dichloroethane	U	5.00	347	29.4
1,1,1-Trichloroethane	U	5.00	U	29.4
Carbon Tetrachloride	U	5.00	U	29.4
Benzene	U	5.00	134	29.4
Trichloroethene	U	5.00	U	29.4
1,2-Dichloropropane	U	5.00	U	29.4
Bromodichloromethane	U	5.00	U	29.4
Dibromomethane	U	5.00	U	29.4
cis-1,3-Dichloropropene	U	5.00	U	29.4
trans-1,3-Dichloropropene	U	5.00	U	29.4
1,1,2-Trichloroethane	U	5.00	U	29.4
1,3-Dichloropropane	U	5.00	U	29.4
Dibromochloromethane	U	5.00	U	29.4
1,2-Dibromoethane	U	5.00	U	29.4
Bromoform	U	5.00	U	29.4
4-Methyl-2-pentanone	U	5.00	U	29.4
Toluene	U	5.00	U	29.4
2-Hexanone	U	5.00	U	29.4
Tetrachloroethene	U	5.00	U	29.4
Chlorobenzene	U	5.00	U	29.4
1,1,1,2-Tetrachloroethane	U	5.00	U	29.4
Ethylbenzene	U	10.0	U	58.8
p&m-Xylene	U	5.00	U	29.4
o-Xylene	U	5.00	U	29.4
Styrene	U	5.00	U	29.4
Isopropylbenzene	U	5.00	U	29.4
1,1,2,2-Tetrachloroethane	U	5.00	U	29.4
1,2,3-Trichloropropane	U	5.00	U	29.4
n-Propylbenzene	U	5.00	U	29.4
Bromobenzene	U	5.00	U	29.4
1,3,5-Trimethylbenzene	U	5.00	U	29.4
2-Chlorotoluene	U	5.00	U	29.4
4-Chlorotoluene	U	5.00	U	29.4
tert-Butylbenzene	U	5.00	U	29.4
1,2,4-Trimethylbenzene	U	5.00	U	29.4
sec-Butylbenzene	U	5.00	U	29.4
p-Isopropyltoluene	U	5.00	U	29.4
1,3-Dichlorobenzene	U	5.00	U	29.4
1,4-Dichlorobenzene	U	5.00	U	29.4
n-Butylbenzene	U	5.00	U	29.4
1,2-Dichlorobenzene	U	5.00	U	29.4
1,2-Dibromo-3-chloropropane	U	5.00	U	29.4
1,2,4-Trichlorobenzene	U	5.00	U	29.4
Hexachlorobutadiene	J	5.00	J	29.4
Naphthalene	J	5.00	J	29.4
1,2,3-Trichlorobenzene				

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	MeOH Blank B 090506-2		0[illegible]628 SB023-16		23894 SB023-20		00391 SB028-17.5	
Location			10[illegible]000		100		1000	
Dilution Factor	50		[illegible]4		80		82	
Percent Solids	100							

Analyte	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg	Result µg/kg	RL µg/kg
Dichlorodifluoromethane	U	250	U	595000	U	625	U	6100
Chloromethane	U	250	U	595000	U	625	U	6100
Vinyl Chloride	U	250	U	595000	U	625	U	6100
Bromomethane	U	250	U	595000	U	625	U	6100
Chloroethane	U	250	U	595000	U	625	U	6100
Trichlorofluoromethane	U	1000	U	2380000	U	2500	U	24400
Acetone	U	250	U	595000	U	625	8350	6100
1,1-Dichloroethene	U	250	U	595000	165 J	625	U	6100
Methylene Chloride	U	250	U	595000	U	625	U	6100
Carbon Disulfide	U	250	U	595000	U	625	U	6100
Methyl-t-butyl Ether	U	250	U	595000	U	625	U	6100
trans-1,2-Dichloroethene	U	250	U	595000	U	625	1800 J	6100
1,1-Dichloroethane	U	250	U	595000	U	625	U	6100
2-Butanone	U	250	U	595000	U	625	U	6100
2,2-Dichloropropane	U	250	U	595000	U	625	U	6100
cis-1,2-Dichloroethene	U	250	U	595000	U	625	U	6100
Chloroform	U	250	U	595000	U	625	U	6100
1,1-Dichloropropene	U	250	U	595000	U	625	U	6100
1,2-Dichloroethane	U	250	23600000	1190000	12800	625	811000	61000
1,1,1-Trichloroethane	U	250	U	595000	U	625	U	6100
Carbon Tetrachloride	U	250	U	595000	U	625	U	6100
Benzene	U	250	13000000	595000	2540	625	4760 J	6100
Trichloroethene	U	250	U	595000	U	625	U	6100
1,2-Dichloropropane	U	250	U	595000	U	625	U	6100
Bromodichloromethane	U	250	U	595000	U	625	U	6100
Dibromomethane	U	250	U	595000	U	625	U	6100
cis-1,3-Dichloropropene	U	250	U	595000	U	625	U	6100
trans-1,3-Dichloropropene	U	250	U	595000	U	625	U	6100
1,1,2-Trichloroethane	U	250	U	595000	U	625	U	6100
1,3-Dichloropropane	U	250	U	595000	U	625	U	6100
Dibromochloromethane	U	250	U	595000	U	625	U	6100
1,2-Dibromoethane	U	250	U	595000	U	625	U	6100
Bromoform	U	250	U	595000	U	625	U	6100
4-Methyl-2-pentanone	U	250	U	595000	U	625	U	6100
Toluene	U	250	U	595000	U	625	U	6100
2-Hexanone	U	250	U	595000	U	625	U	6100
Tetrachloroethene	U	250	U	595000	U	625	U	6100
Chlorobenzene	U	250	U	595000	U	625	U	6100
1,1,1,2-Tetrachloroethane	U	250	U	595000	U	625	U	6100
Ethylbenzene	U	500	U	1190000	U	1250	U	12200
p&m-Xylene	U	250	U	595000	U	625	U	6100
o-Xylene	U	250	U	595000	U	625	U	6100
Styrene	U	250	U	595000	U	625	U	6100
Isopropylbenzene	U	250	U	595000	U	625	U	6100
1,1,2,2-Tetrachloroethane	U	250	U	595000	U	625	U	6100
1,2,3-Trichloropropane	U	250	U	595000	U	625	U	6100
n-Propylbenzene	U	250	U	595000	U	625	U	6100
Bromobenzene	U	250	U	595000	U	625	U	6100
1,3,5-Trimethylbenzene	U	250	U	595000	U	625	U	6100
2-Chlorotoluene	U	250	U	595000	U	625	U	6100
4-Chlorotoluene	U	250	U	595000	U	625	U	6100
tert-Butylbenzene	U	250	U	595000	U	625	U	6100
1,2,4-Trimethylbenzene	U	250	U	595000	U	625	U	6100
sec-Butylbenzene	U	250	U	595000	U	625	U	6100
p-Isopropyltoluene	U	250	U	595000	U	625	U	6100
1,3-Dichlorobenzene	U	250	U	595000	U	625	U	6100
1,4-Dichlorobenzene	U	250	U	595000	U	625	U	6100
n-Butylbenzene	U	250	U	595000	U	625	U	6100
1,2-Dichlorobenzene	U	250	U	595000	U	625	U	6100
1,2-Dibromo-3-chloropropane	U	250	U	595000	U	625	U	6100
1,2,4-Trichlorobenzene	U	250	U	595000	U	625	U	6100
Hexachlorobutadiene	U	250	U	595000	U	625	U	6100
Naphthalene	U	250	U	595000	U	625	U	6100
1,2,3-Trichlorobenzene								

Table 1.1 Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No:	MeOH Blank A 082706-1		19167		
Location:			SB005-20'		
Dilution Factor	50		500		
Percent Solids	100		82		
Analyte	Result µg/L	RL µg/Kg	Result µg/L		RL µg/Kg
Dichlorodifluoromethane	U	250	U		3050
Chloromethane	U	250	U		3050
Vinyl Chloride	U	250	U		3050
Bromomethane	U	250	U		3050
Chloroethane	U	250	U		3050
Trichlorofluoromethane	U	1000	U		12200
Acetone	U	250	1320	J	3050
1,1-Dichloroethene	U	250	U		3050
Methylene Chloride	U	250	U		3050
Carbon Disulfide	U	250	U		3050
Methyl-t-butyl Ether	U	250	U		3050
trans-1,2-Dichloroethene	U	250	U		3050
1,1-Dichloroethane	U	250	U		3050
2-Butanone	U	250	U		3050
2,2-Dichloropropane	U	250	U		3050
cis-1,2-Dichloroethene	U	250	U		3050
Chloroform	U	250	U		3050
1,1-Dichloropropene	U	250	U		3050
1,2-Dichloroethane	U	250	580000	J	61000
1,1,1-Trichloroethane	U	250	U		3050
Carbon Tetrachloride	U	250	U		3050
Benzene	U	250	1040	J	3050
Trichloroethene	U	250	U		3050
1,2-Dichloropropane	U	250	U		3050
Bromodichloromethane	U	250	U		3050
Dibromomethane	U	250	U		3050
cis-1,3-Dichloropropene	U	250	U		3050
trans-1,3-Dichloropropene	U	250	U		3050
1,1,2-Trichloroethane	U	250	U		3050
1,3-Dichloropropane	U	250	U		3050
Dibromochloromethane	U	250	U		3050
1,2-Dibromoethane	U	250	U		3050
Bromoform	U	250	U		3050
4-Methyl-2-pentanone	U	250	U		3050
Toluene	U	250	U		3050
2-Hexanone	U	250	U		3050
Tetrachloroethene	U	250	U		3050
Chlorobenzene	U	250	U		3050
1,1,1,2-Tetrachloroethane	U	250	U		3050
Ethylbenzene	U	500	U		6100
p&m-Xylene	U	250	U		3050
o-Xylene	U	250	U		3050
Styrene	U	250	U		3050
Isopropylbenzene	U	250	U		3050
1,1,2,2-Tetrachloroethane	U	250	U		3050
1,2,3-Trichloropropane	U	250	U		3050
n-Propylbenzene	U	250	U		3050
Bromobenzene	U	250	U		3050
1,3,5-Trimethylbenzene	U	250	U		3050
2-Chlorotoluene	U	250	U		3050
4-Chlorotoluene	U	250	U		3050
tert-Butylbenzene	U	250	U		3050
1,2,4-Trimethylbenzene	U	250	U		3050
sec-Butylbenzene	U	250	U		3050
p-Isopropyltoluene	U	250	U		3050
1,3-Dichlorobenzene	U	250	U		3050
1,4-Dichlorobenzene	U	250	U		3050
n-Butylbenzene	U	250	U		3050
1,2-Dichlorobenzene	U	250	U		3050
1,2-Dibromo-3-chloropropane	U	250	U		3050
1,2,4-Trichlorobenzene	U	250	U		3050
Hexachlorobutadiene	U	250	U		3050
Naphthalene	U	250	U		3050
1,2,3-Trichlorobenzene	U	250	U		3050

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Westai Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No:	MeOH Blank A 082906-1		15138 SB007-20'		15139 SB008-15'		15140 SB008-20'		15141 SB008-25'	
Location:										
Dilution Factor	50		50		50		500		50	
Percent Solids	100		65		82		79		88	

Analyte	Result µg/L	RL µg/Kg	Result µg/Kg		RL µg/Kg	Result µg/Kg		RL µg/Kg	Result µg/Kg		RL µg/Kg	Result µg/Kg		RL µg/Kg
Dichlorodifluoromethane	U	250	U		294	U		305	U		3160	U		284
Chloromethane	U	250	U		294	U		305	U		3160	U		284
Vinyl Chloride	U	250	U		294	U		305	U		3160	U		284
Bromomethane	U	250	U		294	U		305	U		3160	U		284
Chloroethane	U	250	U		294	U		305	U		3160	U		284
Trichlorofluoromethane	U	250	U		294	U		305	U		3160	U		284
Acetone	U	1000	178	J	1180	U		1220	1860	J	12700	U		1140
1,1-Dichloroethene	U	250	U		294	145	J	305	3210		3160	U		284
Methylene Chloride	U	250	149	J	294	167	J	305	U		3160	U		284
Carbon Disulfide	U	250	U		294	U		305	U		3160	U		284
Methyl-t-butyl Ether	U	250	U		294	U		305	U		3160	U		284
trans-1,2-Dichloroethene	U	250	U		294	U		305	U		3160	U		284
1,1-Dichloroethane	U	250	U		294	80.5	J	305	1180	J	3160	U		284
2-Butanone	U	250	U		294	U		305	U		3160	U		284
2,2-Dichloropropane	U	250	U		294	U		305	U		3160	U		284
cis-1,2-Dichloroethene	U	250	U		294	U		305	U		3160	U		284
Chloroform	U	250	U		294	U		305	U		3160	U		284
1,1-Dichloropropene	U	250	U		294	U		305	U		3160	U		284
1,2-Dichloroethane	U	250	885		294	3660		305	93200		3160	593	J	284
1,1,1-Trichloroethane	U	250	U		294	U		305	U		3160	U		284
Carbon Tetrachloride	U	250	U		294	U		305	U		3160	U		284
Benzene	U	250	125	J	294	U		305	3360		3160	80.1	J	284
Trichloroethene	U	250	U		294	U		305	U		3160	U		284
1,2-Dichloropropane	U	250	U		294	U		305	U		3160	U		284
Bromodichloromethane	U	250	U		294	U		305	U		3160	U		284
Dibromomethane	U	250	U		294	U		305	U		3160	U		284
cis-1,3-Dichloropropene	U	250	U		294	U		305	U		3160	U		284
trans-1,3-Dichloropropene	U	250	U		294	U		305	U		3160	U		284
1,1,2-Trichloroethane	U	250	U		294	U		305	U		3160	U		284
1,3-Dichloropropane	U	250	U		294	U		305	U		3160	U		284
Dibromochloromethane	U	250	U		294	U		305	U		3160	U		284
1,2-Dibromoethane	U	250	U		294	U		305	U		3160	U		284
Bromoform	U	250	U		294	U		305	U		3160	U		284
4-Methyl-2-pentanone	U	250	U		294	U		305	U		3160	U		284
Toluene	U	250	U		294	U		305	U		3160	U		284
2-Hexanone	U	250	U		294	U		305	U		3160	U		284
Tetrachloroethene	U	250	U		294	U		305	U		3160	U		284
Chlorobenzene	U	250	U		294	U		305	U		3160	U		284
1,1,1,2-Tetrachloroethane	U	250	U		294	U		305	U		3160	U		284
Ethylbenzene	U	500	U		588	U		610	U		6330	U		568
p&m-Xylene	U	250	U		294	U		305	U		3160	U		284
o-Xylene	U	250	U		294	U		305	U		3160	U		284
Styrene	U	250	U		294	U		305	U		3160	U		284
Isopropylbenzene	U	250	U		294	U		305	U		3160	U		284
1,1,2,2-Tetrachloroethane	U	250	U		294	U		305	U		3160	U		284
1,2,3-Trichloropropane	U	250	U		294	U		305	U		3160	U		284
n-Propylbenzene	U	250	U		294	U		305	U		3160	U		284
Bromobenzene	U	250	U		294	U		305	U		3160	U		284
1,3,5-Trimethylbenzene	U	250	U		294	U		305	U		3160	U		284
2-Chlorotoluene	U	250	U		294	U		305	U		3160	U		284
4-Chlorotoluene	U	250	U		294	U		305	U		3160	U		284
tert-Butylbenzene	U	250	U		294	U		305	U		3160	U		284
1,2,4-Trimethylbenzene	U	250	U		294	U		305	U		3160	U		284
sec-Butylbenzene	U	250	U		294	U		305	U		3160	U		284
p-Isopropyltoluene	U	250	U		294	U		305	U		3160	U		284
1,3-Dichlorobenzene	U	250	U		294	U		305	U		3160	U		284
1,4-Dichlorobenzene	U	250	U		294	U		305	U		3160	U		284
n-Butylbenzene	U	250	U		294	U		305	U		3160	U		284
1,2-Dichlorobenzene	U	250	U		294	U		305	U		3160	U		284
1,2-Dibromo-3-chloropropane	U	250	U		294	U		305	U		3160	U		284
1,2,4-Trichlorobenzene	U	250	U		294	U		305	U		3160	U		284
Hexachlorobutadiene	U	250	U		294	U		305	U		3160	U		284
Naphthalene	U	250	U		294	U		305	U		3160	U		284
1,2,3-Trichlorobenzene														

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No:	MeOH Blank A 082906-1		23719 SB009-14'		23718 SB009-17'	
Location:			5000		5000	
Dilution Factor	50		82		81	
Percent Solids	100					

Analyte	Result µg/L	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg		RL µg/Kg
Dichlorodifluoromethane	U	250	U	30500	U		30900
Chloromethane	U	250	U	30500	U		30900
Vinyl Chloride	U	250	U	30500	U		30900
Bromomethane	U	250	U	30500	U		30900
Chloroethane	U	250	U	30500	U		30900
Trichlorofluoromethane	U	250	U	30500	U		30900
Acetone	U	1000	U	122000	U		123000
1,1-Dichloroethene	U	250	U	30500	19300	J	30900
Methylene Chloride	U	250	U	30500	R		30900
Carbon Disulfide	U	250	U	30500	U		30900
Methyl-t-butyl Ether	U	250	U	30500	U		30900
trans-1,2-Dichloroethene	U	250	U	30500	U		30900
1,1-Dichloroethane	U	250	U	30500	U		30900
2-Butanone	U	250	U	30500	U		30900
2,2-Dichloropropane	U	250	U	30500	U		30900
cis-1,2-Dichloroethene	U	250	U	30500	U		30900
Chloroform	U	250	U	30500	U		30900
1,1-Dichloropropene	U	250	U	30500	U		30900
1,2-Dichloroethane	U	250	867000	30500	19300000		1540000
1,1,1-Trichloroethane	U	250	U	30500	U		30900
Carbon Tetrachloride	U	250	U	30500	U		30900
Benzene	U	250	266000	30500	6830000		1540000
Trichloroethene	U	250	U	30500	U		30900
1,2-Dichloropropane	U	250	U	30500	U		30900
Bromodichloromethane	U	250	U	30500	U		30900
Dibromomethane	U	250	U	30500	U		30900
cis-1,3-Dichloropropene	U	250	U	30500	U		30900
trans-1,3-Dichloropropene	U	250	U	30500	8700	J	30900
1,1,2-Trichloroethane	U	250	U	30500	U		30900
1,3-Dichloropropane	U	250	U	30500	U		30900
Dibromochloromethane	U	250	U	30500	U		30900
1,2-Dibromoethane	U	250	U	30500	U		30900
Bromoform	U	250	U	30500	U		30900
4-Methyl-2-pentanone	U	250	U	30500	27500	J	30900
Toluene	U	250	U	30500	U		30900
2-Hexanone	U	250	U	30500	U		30900
Tetrachloroethene	U	250	U	30500	U		30900
Chlorobenzene	U	250	U	30500	U		30900
1,1,1,2-Tetrachloroethane	U	250	U	30500	U		30900
Ethylbenzene	U	500	U	61000	U		61700
p&m-Xylene	U	250	U	30500	U		30900
o-Xylene	U	250	U	30500	U		30900
Styrene	U	250	U	30500	U		30900
Isopropylbenzene	U	250	U	30500	U		30900
1,1,2,2-Tetrachloroethane	U	250	U	30500	U		30900
1,2,3-Trichloropropane	U	250	U	30500	U		30900
n-Propylbenzene	U	250	U	30500	U		30900
Bromobenzene	U	250	U	30500	41200		30900
1,3,5-Trimethylbenzene	U	250	U	30500	U		30900
2-Chlorotoluene	U	250	U	30500	U		30900
4-Chlorotoluene	U	250	U	30500	U		30900
tert-Butylbenzene	U	250	U	30500	U		30900
1,2,4-Trimethylbenzene	U	250	U	30500	U		30900
sec-Butylbenzene	U	250	U	30500	U		30900
p-Isopropyltoluene	U	250	U	30500	U		30900
1,3-Dichlorobenzene	U	250	U	30500	U		30900
1,4-Dichlorobenzene	U	250	U	30500	U		30900
n-Butylbenzene	U	250	U	30500	U		30900
1,2-Dichlorobenzene	U	250	U	30500	U		30900
1,2-Dibromo-3-chloropropane	U	250	U	30500	U		30900
1,2,4-Trichlorobenzene	U	250	U	30500	U		30900
Hexachlorobutadiene	U	250	U	30500	U		30900
Naphthalene	U	250	U	30500	U		30900
1,2,3-Trichlorobenzene							

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Westal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No:	MeOH Blank A 083006-2		15142 SB009-5'		19166 SB009-12.5'	
Location:					2000	
Dilution Factor	50		50		82	
Percent Solids	100		88			
Analyte	Result µg/L	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg
Dichlorodifluoromethane	U	250	U	291	U	12200
Chloromethane	U	250	U	291	U	12200
Vinyl Chloride	U	250	U	291	U	12200
Bromomethane	U	250	U	291	U	12200
Chloroethane	U	250	U	291	U	12200
Trichlorofluoromethane	U	250	U	291	U	12200
Acetone	U	1000	U	1160	U	48800
1,1-Dichloroethene	U	250	U	291	U	12200
Methylene Chloride	U	250	U	291	U	12200
Carbon Disulfide	U	250	U	291	U	12200
Methyl-t-butyl Ether	U	250	U	291	U	12200
trans-1,2-Dichloroethene	U	250	U	291	U	12200
1,1-Dichloroethane	U	250	U	291	U	12200
2-Butanone	U	250	U	291	U	12200
2,2-Dichloropropane	U	250	U	291	U	12200
cis-1,2-Dichloroethene	U	250	U	291	U	12200
Chloroform	U	250	U	291	U	12200
1,1-Dichloropropene	U	250	U	291	U	12200
1,2-Dichloroethane	U	250	1640	291	136000	12200
1,1,1-Trichloroethane	U	250	U	291	U	12200
Carbon Tetrachloride	U	250	U	291	U	12200
Benzene	U	250	1950	291	86200	12200
Trichloroethene	U	250	U	291	U	12200
1,2-Dichloropropane	U	250	U	291	U	12200
Bromodichloromethane	U	250	U	291	U	12200
Dibromomethane	U	250	U	291	U	12200
cis-1,3-Dichloropropene	U	250	U	291	U	12200
trans-1,3-Dichloropropene	U	250	U	291	U	12200
1,1,2-Trichloroethane	U	250	U	291	U	12200
1,3-Dichloropropane	U	250	U	291	U	12200
Dibromochloromethane	U	250	U	291	U	12200
1,2-Dibromoethane	U	250	U	291	U	12200
Bromoform	U	250	U	291	U	12200
4-Methyl-2-pentanone	U	250	133 J	291	U	12200
Toluene	U	250	U	291	U	12200
2-Hexanone	U	250	U	291	U	12200
Tetrachloroethene	U	250	U	291	U	12200
Chlorobenzene	U	250	U	291	U	12200
1,1,1,2-Tetrachloroethane	U	250	U	291	U	12200
Ethylbenzene	U	500	94.2 J	581	U	24400
p&m-Xylene	U	250	U	291	U	12200
o-Xylene	U	250	U	291	U	12200
Styrene	U	250	U	291	U	12200
Isopropylbenzene	U	250	U	291	U	12200
1,1,2,2-Tetrachloroethane	U	250	U	291	U	12200
1,2,3-Trichloropropane	U	250	U	291	U	12200
n-Propylbenzene	U	250	U	291	U	12200
Bromobenzene	U	250	389	291	U	12200
1,3,5-Trimethylbenzene	U	250	U	291	U	12200
2-Chlorotoluene	U	250	U	291	U	12200
4-Chlorotoluene	U	250	U	291	U	12200
tert-Butylbenzene	U	250	U	291	U	12200
1,2,4-Trimethylbenzene	U	250	U	291	U	12200
sec-Butylbenzene	U	250	U	291	U	12200
p-Isopropyltoluene	U	250	U	291	U	12200
1,3-Dichlorobenzene	U	250	U	291	U	12200
1,4-Dichlorobenzene	U	250	U	291	U	12200
n-Butylbenzene	U	250	U	291	U	12200
1,2-Dichlorobenzene	U	250	U	291	U	12200
1,2-Dibromo-3-chloropropane	U	250	220 J	291	U	12200
1,2,4-Trichlorobenzene	U	250	U	291	U	12200
Hexachlorobutadiene	U	250	U	291	U	12200
Naphthalene	U	250	44 J	291	U	12200
1,2,3-Trichlorobenzene						

Table 1 2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No:	MeOH Blank A 083106-2		23740	
Location:			SB012-17'	
Dilution Factor	50		500	
Percent Solids	100		83	
Analyte	Result µg/L	RL µg/Kg	Result µg/Kg	RL µg/Kg
Dichlorodifluoromethane	U	250	U	3010
Chloromethane	U	250	U	3010
Vinyl Chloride	U	250	U	3010
Bromomethane	U	250	U	3010
Chloroethane	U	250	U	3010
Trichlorofluoromethane	U	250	U	3010
Acetone	U	250	U	3010
1,1-Dichloroethene	U	250	U	3010
Methylene Chloride	U	250	U	3010
Carbon Disulfide	U	250	U	3010
Methyl-t-butyl Ether	U	250	U	3010
trans-1,2-Dichloroethene	U	250	U	3010
1,1-Dichloroethane	U	250	U	3010
2-Butanone	U	250	U	3010
2,2-Dichloropropane	U	250	U	3010
cis-1,2-Dichloroethene	U	250	U	3010
Chloroform	U	250	U	3010
1,1-Dichloropropene	U	250	U	3010
1,2-Dichloroethane	U	250	63400	3010
1,1,1-Trichloroethane	U	250	U	3010
Carbon Tetrachloride	U	250	U	3010
Benzene	U	250	28900	3010
Trichloroethene	U	250	U	3010
1,2-Dichloropropane	U	250	U	3010
Bromodichloromethane	U	250	U	3010
Dibromomethane	U	250	U	3010
cis-1,3-Dichloropropene	U	250	U	3010
trans-1,3-Dichloropropene	U	250	U	3010
1,1,2-Trichloroethane	U	250	U	3010
1,3-Dichloropropane	U	250	U	3010
Dibromochloromethane	U	250	U	3010
1,2-Dibromoethane	U	250	U	3010
Bromoform	U	250	U	3010
4-Methyl-2-pentanone	U	250	U	3010
Toluene	U	250	U	3010
2-Hexanone	U	250	U	3010
Tetrachloroethene	U	250	U	3010
Chlorobenzene	U	250	U	3010
1,1,1,2-Tetrachloroethane	U	250	U	3010
Ethylbenzene	U	250	U	3010
p&m-Xylene	U	250	U	3010
o-Xylene	U	250	U	3010
Styrene	U	250	U	3010
Isopropylbenzene	U	250	U	3010
1,1,2,2-Tetrachloroethane	U	250	U	3010
1,2,3-Trichloropropane	U	250	U	3010
n-Propylbenzene	U	250	U	3010
Bromobenzene	U	250	U	3010
1,3,5-Trimethylbenzene	U	250	U	3010
2-Chlorotoluene	U	250	U	3010
4-Chlorotoluene	U	250	U	3010
tert-Butylbenzene	U	250	U	3010
1,2,4-Trimethylbenzene	U	250	U	3010
sec-Butylbenzene	U	250	U	3010
p-Isopropyltoluene	U	250	U	3010
1,3-Dichlorobenzene	U	250	U	3010
1,4-Dichlorobenzene	U	250	U	3010
n-Butylbenzene	U	250	U	3010
1,2-Dichlorobenzene	U	250	U	3010
1,2-Dibromo-3-chloropropane	U	250	U	3010
1,2,4-Trichlorobenzene	U	250	U	3010
Hexachlorobutadiene	U	250	U	3010
Naphthalene	U	250	U	3010
1,2,3-Trichlorobenzene	U	250	U	3010

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	MeOH Blank A 090606-I		23385 SB07-20'		00395 SB022-15		23891 SB022-20		00625 SB022-16	
Location:										
Dilution Factor	50		20		10000		100		500	
Percent Solids	100		82		82		87		88	
Analyte	Result µg/L	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg
Dichlorodifluoromethane	U	250	U	122	U	61000	U	575	U	2840
Chloromethane	U	250	U	122	U	61000	U	575	U	2840
Vinyl Chloride	U	250	U	122	U	61000	U	575	U	2840
Bromomethane	U	250	U	122	U	61000	U	575	U	2840
Chloroethane	U	250	U	122	U	61000	U	575	U	2840
Trichlorofluoromethane	U	250	U	122	U	61000	U	575	U	2840
Acetone	U	1000	U	488	U	244000	U	2300	U	11400
1,1-Dichloroethene	U	250	U	122	U	61000	161 J	575	U	2840
Methylene Chloride	U	250	169	122	28700 J	61000	213 J	575	U	2840
Carbon Disulfide	U	250	U	122	U	61000	U	575	U	2840
Methyl-t-butyl Ether	U	250	U	122	U	61000	U	575	U	2840
trans-1,2-Dichloroethene	U	250	U	122	U	61000	U	575	U	2840
1,1-Dichloroethane	U	250	U	122	U	61000	U	575	U	2840
2-Butanone	U	250	56.1 J	122	U	61000	U	575	U	2840
2,2-Dichloropropane	U	250	U	122	U J	61000	U J	575	U J	2840
cis-1,2-Dichloroethene	U	250	U	122	U	61000	U	575	U	2840
Chloroform	U	250	U	122	U	61000	U	575	U	2840
1,1-Dichloropropene	U	250	U	122	U	61000	U	575	U	2840
1,2-Dichloroethane	U	250	U	122	U	61000	U	575	U	2840
1,1,1-Trichloroethane	U	250	317	122	9550000	610000	12800	575	12100	2840
Carbon Tetrachloride	U	250	U	122	U	61000	U	575	U	2840
Benzene	U	250	U	122	U	61000	U	575	U	2840
Trichloroethene	U	250	129	122	1500000	61000	2400	575	5040	2840
1,2-Dichloropropane	U	250	U	122	U	61000	U	575	U	2840
Bromodichloromethane	U	250	U	122	U	61000	U	575	U	2840
Dibromomethane	U	250	U	122	U	61000	U	575	U	2840
cis-1,3-Dichloropropene	U	250	U	122	U	61000	U	575	U	2840
trans-1,3-Dichloropropene	U	250	U	122	U	61000	U	575	U	2840
1,1,2-Trichloroethane	U	250	U	122	U	61000	U	575	U	2840
1,3-Dichloropropane	U	250	U	122	U	61000	U	575	U	2840
Dibromochloromethane	U	250	U	122	U	61000	U	575	U	2840
1,2-Dibromoethane	U	250	U	122	U	61000	U	575	U	2840
Bromoform	U	250	U	122	U	61000	U	575	U	2840
4-Methyl-2-pentanone	U	250	U	122	U	61000	U	575	U	2840
Toluene	U	250	U	122	U	61000	U	575	U	2840
2-Hexanone	U	250	U	122	U	61000	U	575	U	2840
Tetrachloroethene	U	250	U	122	U	61000	U	575	U	2840
Chlorobenzene	U	250	U	122	U	61000	U	575	U	2840
1,1,1,2-Tetrachloroethane	U	250	U	122	U	61000	U	575	U	2840
Ethylbenzene	U	500	U	244	U	122000	U	1150	U	5680
p&m-Xylene	U	250	U	122	U	61000	U	575	U	2840
o-Xylene	U	250	U	122	U	61000	U	575	U	2840
Styrene	U	250	U	122	U	61000	U	575	U	2840
Isopropylbenzene	U	250	U	122	U	61000	U	575	U	2840
1,1,2,2-Tetrachloroethane	U	250	U	122	U	61000	U	575	U	2840
1,2,3-Trichloropropane	U	250	U	122	U	61000	U	575	U	2840
n-Propylbenzene	U	250	U	122	U	61000	U	575	U	2840
Bromobenzene	U	250	U	122	U	61000	U	575	U	2840
1,3,5-Trimethylbenzene	U	250	U	122	U	61000	U	575	U	2840
2-Chlorotoluene	U	250	U	122	U	61000	U	575	U	2840
4-Chlorotoluene	U	250	U	122	U	61000	U	575	U	2840
tert-Butylbenzene	U	250	U	122	U	61000	U	575	U	2840
1,2,4-Trimethylbenzene	U	250	U	122	U	61000	U	575	U	2840
sec-Butylbenzene	U	250	U	122	U	61000	U	575	U	2840
p-Isopropyltoluene	U	250	U	122	U	61000	U	575	U	2840
1,3-Dichlorobenzene	U	250	U	122	U	61000	U	575	U	2840
1,4-Dichlorobenzene	U	250	U	122	U	61000	U	575	U	2840
n-Butylbenzene	U	250	U	122	U	61000	U	575	U	2840
1,2-Dichlorobenzene	U	250	U	122	U	61000	U	575	U	2840
1,2-Dibromo-3-chloropropane	U	250	U	122	U	61000	U	575	U	2840
1,2,4-Trichlorobenzene	U	250	U	122	U	61000	U	575	2020 J	2840
Hexachlorobutadiene	U	250	U	122	U	61000	U	575	U	2840
Naphthalene	U	250	U	122	U	61000	U			
1,2,3-Trichlorobenzene										

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	MeOH Blank A 090606-1		00626 SB023-11.5		00629 SB023-12.5		00627 SB023-15		23897 SB028-16.5	
Location:			1000		10000		50000		1000	
Dilution Factor	50		81		80		80		80	
Percent Solids	100									

Analyte	Result µg/L	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg
Dichlorodifluoromethane	U	250	U	6170	U	62500	U	313000	U	6250
Chloromethane	U	250	U	6170	U	62500	U	313000	U	6250
Vinyl Chloride	U	250	U	6170	U	62500	U	313000	U	6250
Bromomethane	U	250	U	6170	U	82500	U	313000	U	6250
Chloroethane	U	250	U	6170	U	62500	U	313000	U	6250
Trichlorofluoromethane	U	250	U	6170	U	62500	U	313000	U	6250
Acetone	U	1000	U	24700	U	250000	U	1250000	U	25000
1,1-Dichloroethene	U	250	U	6170	U	62500	U	313000	38000	6250
Methylene Chloride	U	250	U	6170	U	62500	U	313000	U	6250
Carbon Disulfide	U	250	U	6170	U	62500	U	313000	U	6250
Methyl-t-butyl Ether	U	250	U	6170	U	62500	U	313000	U	6250
trans-1,2-Dichloroethene	U	250	U	6170	U	62500	U	313000	5340 J	6250
1,1-Dichloroethane	U	250	U	6170	U	62500	U	313000	U	6250
2-Butanone	U J	250	U J	6170	U J	62500	U J	313000	U J	6250
2,2-Dichloropropane	U	250	U	6170	U	62500	U	313000	U	6250
cis-1,2-Dichloroethene	U	250	U	6170	U	62500	U	313000	U	6250
Chloroform	U	250	U	6170	U	62500	U	313000	U	6250
1,1-Dichloropropene	U	250	U	6170	U	62500	U	313000	U	6250
1,2-Dichloroethane	U	250	35700	6170	579000	62500	2780000	313000	4730000	313000
1,1,1-Trichloroethane	U	250	U	6170	U	62500	U	313000	U	6250
Carbon Tetrachloride	U	250	U	6170	U	62500	U	313000	U	6250
Benzene	U	250	115000	6170	539000	62500	783000	313000	12600	6250
Trichloroethene	U	250	U	6170	U	62500	U	313000	U	6250
1,2-Dichloropropane	U	250	U	6170	U	62500	U	313000	U	6250
Bromodichloromethane	U	250	U	6170	U	62500	U	313000	U	6250
Dibromomethane	U	250	U	6170	U	62500	U	313000	U	6250
cis-1,3-Dichloropropene	U	250	U	6170	U	62500	U	313000	U	6250
trans-1,3-Dichloropropene	U	250	U	6170	U	62500	U	313000	U	6250
1,1,2-Trichloroethane	U	250	U	6170	U	62500	U	313000	U	6250
1,3-Dichloropropane	U	250	U	6170	U	62500	U	313000	U	6250
Dibromochloromethane	U	250	U	6170	U	62500	U	313000	U	6250
1,2-Dibromoethane	U	250	U	6170	U	62500	U	313000	U	6250
Bromoform	U	250	U	6170	U	62500	U	313000	U	6250
4-Methyl-2-pentanone	U	250	U	6170	U	62500	U	313000	U	6250
Toluene	U	250	U	6170	U	62500	U	313000	U	6250
2-Hexanone	U	250	U	6170	U	62500	U	313000	U	6250
Tetrachloroethene	U	250	U	6170	U	62500	U	313000	U	6250
Chlorobenzene	U	250	U	6170	U	62500	U	313000	U	6250
1,1,1,2-Tetrachloroethane	U	250	U	6170	U	62500	U	313000	U	6250
Ethylbenzene	U	500	U	12300	U	125000	U	625000	U	12500
p&m-Xylene	U	250	U	6170	U	62500	U	313000	U	6250
o-Xylene	U	250	U	6170	U	62500	U	313000	U	6250
Styrene	U	250	U	6170	U	62500	U	313000	U	6250
Isopropylbenzene	U	250	U	6170	U	62500	U	313000	U	6250
1,1,2,2-Tetrachloroethane	U	250	U	6170	U	62500	U	313000	U	6250
1,2,3-Trichloropropane	U	250	U	6170	U	62500	U	313000	U	6250
n-Propylbenzene	U	250	U	6170	U	62500	U	313000	U	6250
Bromobenzene	U	250	U	6170	U	62500	U	313000	U	6250
1,3,5-Trimethylbenzene	U	250	U	6170	U	62500	U	313000	U	6250
2-Chlorotoluene	U	250	U	6170	U	62500	U	313000	U	6250
4-Chlorotoluene	U	250	U	6170	U	62500	U	313000	U	6250
tert-Butylbenzene	U	250	U	6170	U	62500	U	313000	U	6250
1,2,4-Trimethylbenzene	U	250	U	6170	U	62500	U	313000	U	6250
sec-Butylbenzene	U	250	U	6170	U	62500	U	313000	U	6250
p-Isopropyltoluene	U	250	U	6170	U	62500	U	313000	U	6250
1,3-Dichlorobenzene	U	250	U	6170	U	62500	U	313000	U	6250
1,4-Dichlorobenzene	U	250	U	6170	U	62500	U	313000	U	6250
n-Butylbenzene	U	250	U	6170	U	62500	U	313000	U	6250
1,2-Dichlorobenzene	U	250	U	6170	U	62500	U	313000	U	6250
1,2-Dibromo-3-chloropropane	U	250	2270 J	6170	U	62500	U	313000	U	6250
1,2,4-Trichlorobenzene	U	250	U	6170	U	62500	U	313000	U	6250
Hexachlorobutadiene	U	250	4840 J	6170	U	62500	U	313000	U	6250
Naphthalene	U	250	U	6170	U	62500	U	313000	U	6250
1,2,3-Trichlorobenzene										

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	MeOH Blank A 090606-1		20365 SB028-20		23895 SB029-16	
Location:			1000		1000	
Dilution Factor	50		87		76	
Percent Solids	100					
Analyte	Result µg/L	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg
Dichlorodifluoromethane	U	250	U	5750	U	6580
Chloromethane	U	250	U	5750	U	6580
Vinyl Chloride	U	250	U	5750	U	6580
Bromomethane	U	250	U	5750	U	6580
Chloroethane	U	250	U	5750	U	6580
Trichlorofluoromethane	U	250	U	5750	U	6580
Acetone	U	1000	U	23000	U	26300
1,1-Dichloroethene	U	250	U	5750	U	6580
Methylene Chloride	U	250	U	5750	U	6580
Carbon Disulfide	U	250	U	5750	U	6580
Methyl-t-butyl Ether	U	250	U	5750	U	6580
trans-1,2-Dichloroethene	U	250	U	5750	U	6580
1,1-Dichloroethane	U	250	U	5750	U	6580
2-Butanone	U	250	U	5750	U	6580
2,2-Dichloropropane	U	250	U	5750	U	6580
cis-1,2-Dichloroethene	U	250	U	5750	U	6580
Chloroform	U	250	U	5750	U	6580
1,1-Dichloropropene	U	250	U	5750	U	6580
1,2-Dichloroethane	U	250	52800	5750	15300	6580
1,1,1-Trichloroethane	U	250	U	5750	U	6580
Carbon Tetrachloride	U	250	U	5750	U	6580
Benzene	U	250	1630 J	5750	U	6580
Trichloroethene	U	250	U	5750	U	6580
1,2-Dichloropropane	U	250	U	5750	U	6580
Bromodichloromethane	U	250	U	5750	U	6580
Dibromomethane	U	250	U	5750	U	6580
cis-1,3-Dichloropropene	U	250	U	5750	U	6580
trans-1,3-Dichloropropene	U	250	U	5750	U	6580
1,1,2-Trichloroethane	U	250	U	5750	U	6580
1,3-Dichloropropane	U	250	U	5750	U	6580
Dibromochloromethane	U	250	U	5750	U	6580
1,2-Dibromoethane	U	250	U	5750	U	6580
Bromoform	U	250	U	5750	U	6580
4-Methyl-2-pentanone	U	250	U	5750	U	6580
Toluene	U	250	U	5750	U	6580
2-Hexanone	U	250	U	5750	U	6580
Tetrachloroethene	U	250	U	5750	U	6580
Chlorobenzene	U	250	U	5750	U	6580
1,1,1,2-Tetrachloroethane	U	250	U	5750	U	6580
Ethylbenzene	U	500	U	11500	U	13200
p&m-Xylene	U	250	U	5750	U	6580
o-Xylene	U	250	U	5750	U	6580
Styrene	U	250	U	5750	U	6580
Isopropylbenzene	U	250	U	5750	U	6580
1,1,2,2-Tetrachloroethane	U	250	U	5750	U	6580
1,2,3-Trichloropropane	U	250	U	5750	U	6580
n-Propylbenzene	U	250	U	5750	U	6580
Bromobenzene	U	250	U	5750	U	6580
1,3,5-Trimethylbenzene	U	250	U	5750	U	6580
2-Chlorotoluene	U	250	U	5750	U	6580
4-Chlorotoluene	U	250	U	5750	U	6580
tert-Butylbenzene	U	250	U	5750	U	6580
1,2,4-Trimethylbenzene	U	250	U	5750	U	6580
sec-Butylbenzene	U	250	U	5750	U	6580
p-Isopropyltoluene	U	250	U	5750	U	6580
1,3-Dichlorobenzene	U	250	U	5750	U	6580
1,4-Dichlorobenzene	U	250	U	5750	U	6580
n-Butylbenzene	U	250	U	5750	U	6580
1,2-Dichlorobenzene	U	250	U	5750	U	6580
1,2-Dibromo-3-chloropropane	U	250	U	5750	U	6580
1,2,4-Trichlorobenzene	U	250	U	5750	U	6580
Hexachlorobutadiene	U	250	U	5750	U	6580
Naphthalene	U	250	U	5750	U	6580
1,2,3-Trichlorobenzene	U	250	U	5750	U	6580

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	MeOH Blank A 090706-1		23886 SB020-18.5-20		00634 SB029-17.5		00630 SB029-20		00397 SB030-16	
Location:										
Dilution Factor	50		50		1000		1000		1000	
Percent Solids	100		77		82		85		81	
Analyte	Result µg/L	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg
Dichlorodifluoromethane	U	250	U	325	U	6100	U	5880	U	6170
Chloromethane	U	250	U	325	U	6100	U	5880	U	6170
Vinyl Chloride	U	250	U	325	U	6100	U	5880	U	6170
Bromomethane	U	250	U	325	U	6100	U	5880	U	6170
Chloroethane	U	250	U	325	U	6100	U	5880	U	6170
Trichlorofluoromethane	U	250	143 J	325	U	6100	U	5880	U	6170
Acetone	U	1000	U	1300	U	24400	U	23500	U	24700
1,1-Dichloroethene	U	250	520	325	U	6100	U	5880	62600	8170
Methylene Chloride	U	250	569	325	U	6100	U	5880	U	6170
Carbon Disulfide	U	250	U	325	U	6100	U	5880	U	6170
Methyl-t-butyl Ether	U	250	U	325	U	6100	U	5880	U	6170
trans-1,2-Dichloroethene	U	250	U	325	U	6100	U	5880	U	6170
1,1-Dichloroethane	U	250	U	325	U	6100	U	5880	8230	6170
2-Butanone	U	250	U	325	U	6100	U	5880	U	6170
2,2-Dichloropropane	U	250	U	325	U	6100	U	5880	U	6170
cis-1,2-Dichloroethene	U	250	U	325	U	6100	U	5880	U	6170
Chloroform	U	250	U	325	U	6100	U	5880	U	6170
1,1-Dichloropropene	U	250	U	325	U	6100	U	5880	U	6170
1,2-Dichloroethane	U	250	70300	3250	7550	6100	29700	5880	21800000	1540000
1,1,1-Trichloroethane	U	250	U	325	U	6100	U	5880	U	6170
Carbon Tetrachloride	U	250	U	325	U	6100	U	5880	U	6170
Benzene	U	250	15500	3250	U	6100	U	5880	12100	6170
Trichloroethene	U	250	U	325	U	6100	U	5880	U	6170
1,2-Dichloropropane	U	250	U	325	U	6100	U	5880	U	6170
Bromodichloromethane	U	250	U	325	U	6100	U	5880	U	6170
Dibromomethane	U	250	U	325	U	6100	U	5880	U	6170
cis-1,3-Dichloropropene	U	250	U	325	U	6100	U	5880	U	6170
trans-1,3-Dichloropropene	U	250	U	325	U	6100	U	5880	U	6170
1,1,2-Trichloroethane	U	250	U	325	U	6100	U	5880	U	6170
1,3-Dichloropropane	U	250	U	325	U	6100	U	5880	U	6170
Dibromochloromethane	U	250	U	325	U	6100	U	5880	U	6170
1,2-Dibromoethane	U	250	U	325	U	6100	U	5880	U	6170
Bromoform	U	250	U	325	U	6100	U	5880	U	6170
4-Methyl-2-pentanone	U	250	U	325	U	6100	U	5880	U	6170
Toluene	U	250	U	325	U	6100	U	5880	U	6170
2-Hexanone	U	250	U	325	U	6100	U	5880	U	6170
Tetrachloroethene	U	250	U	325	U	6100	U	5880	U	6170
Chlorobenzene	U	250	U	325	U	6100	U	5880	U	6170
1,1,1,2-Tetrachloroethane	U	250	U	325	U	6100	U	5880	U	6170
Ethylbenzene	U	500	U	649	U	12200	U	11800	U	12300
p&m-Xylene	U	250	U	325	U	6100	U	5880	U	6170
o-Xylene	U	250	U	325	U	6100	U	5880	U	6170
Styrene	U	250	U	325	U	6100	U	5880	U	6170
Isopropylbenzene	U	250	U	325	U	6100	U	5880	U	6170
1,1,2,2-Tetrachloroethane	U	250	U	325	U	6100	U	5880	U	6170
1,2,3-Trichloropropane	U	250	U	325	U	6100	U	5880	U	6170
n-Propylbenzene	U	250	U	325	U	6100	U	5880	U	6170
Bromobenzene	U	250	U	325	U	6100	U	5880	U	6170
1,3,5-Trimethylbenzene	U	250	U	325	U	6100	U	5880	U	6170
2-Chlorotoluene	U	250	U	325	U	6100	U	5880	U	6170
4-Chlorotoluene	U	250	U	325	U	6100	U	5880	U	6170
tert-Butylbenzene	U	250	U	325	U	6100	U	5880	U	6170
1,2,4-Trimethylbenzene	U	250	U	325	U	6100	U	5880	U	6170
sec-Butylbenzene	U	250	U	325	U	6100	U	5880	U	6170
p-Isopropyltoluene	U	250	U	325	U	6100	U	5880	U	6170
1,3-Dichlorobenzene	U	250	U	325	U	6100	U	5880	U	6170
1,4-Dichlorobenzene	U	250	U	325	U	6100	U	5880	U	6170
n-Butylbenzene	U	250	U	325	U	6100	U	5880	U	6170
1,2-Dichlorobenzene	U	250	U	325	U	6100	U	5880	U	6170
1,2-Dibromo-3-chloropropane	U	250	U	325	U	6100	U	5880	U	6170
1,2,4-Trichlorobenzene	U	250	U	325	U	6100	U	5880	U	6170
Hexachlorobutadiene	U	250	U	325	U	6100	U	5880	U	6170
Naphthalene	U	250	U	325	U	6100	U	5880	U	6170
1,2,3-Trichlorobenzene										

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	MeOH Blank A 090706I1		00400 SB030-17.5		23896 SB030-15	
Location:			1400		1000	
Dilution Factor	50		1		83	
Percent Solids	100		82			

Analyte	Result µg/L	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg		RL µg/Kg
Dichlorodifluoromethane	U	250	U	6100	U		6020
Chloromethane	U	250	U	6100	U		6020
Vinyl Chloride	U	250	U	6100	U		6020
Bromomethane	U	250	U	6100	U		6020
Chloroethane	U	250	U	6100	U		6020
Trichlorofluoromethane	U	1000	U	24400	U		24100
Acetone	U	250	U	6100	2930	J	6020
1,1-Dichloroethene	U	250	U	6100	U		6020
Methylene Chloride	U	250	U	6100	U		6020
Carbon Disulfide	U	250	U	6100	U		6020
Methyl-t-butyl Ether	U	250	U	6100	U		6020
trans-1,2-Dichloroethene	U	250	U	6100	U		6020
1,1-Dichloroethane	U	250	U	6100	U		6020
2-Butanone	U	250	U	6100	U		6020
2,2-Dichloropropane	U	250	U	6100	U		6020
cis-1,2-Dichloroethene	U	250	U	6100	U		6020
Chloroform	U	250	U	6100	U		6020
1,1-Dichloropropene	U	250	U	6100	U		6020
1,2-Dichloroethane	U	250	69500	6100	133000	J	6020
1,1,1-Trichloroethane	U	250	U	6100	U		6020
Carbon Tetrachloride	U	250	U	6100	U		6020
Benzene	U	250	U	6100	U		6020
Trichloroethene	U	250	U	6100	U		6020
1,2-Dichloropropane	U	250	U	6100	U		6020
Bromodichloromethane	U	250	U	6100	U		6020
Dibromomethane	U	250	U	6100	U		6020
cis-1,3-Dichloropropene	U	250	U	6100	U		6020
trans-1,3-Dichloropropene	U	250	U	6100	U		6020
1,1,2-Trichloroethane	U	250	U	6100	U		6020
1,3-Dichloropropane	U	250	U	6100	U		6020
Dibromochloromethane	U	250	U	6100	U		6020
1,2-Dibromoethane	U	250	U	6100	U		6020
Bromoform	U	250	U	6100	U		6020
4-Methyl-2-pentanone	U	250	U	6100	U		6020
Toluene	U	250	U	6100	U		6020
2-Hexanone	U	250	U	6100	U		6020
Tetrachloroethene	U	250	U	6100	U		6020
Chlorobenzene	U	250	U	6100	U		6020
1,1,1,2-Tetrachloroethane	U	250	U	6100	U		6020
Ethylbenzene	U	500	U	12200	U		1200
p&m-Xylene	U	250	U	6100	U		6020
o-Xylene	U	250	U	6100	U		6020
Styrene	U	250	U	6100	U		6020
Isopropylbenzene	U	250	U	6100	U		6020
1,1,2,2-Tetrachloroethane	U	250	U	6100	U		6020
1,2,3-Trichloropropane	U	250	U	6100	U		6020
n-Propylbenzene	U	250	U	6100	U		6020
Bromobenzene	U	250	U	6100	U		6020
1,3,5-Trimethylbenzene	U	250	U	6100	U		6020
2-Chlorotoluene	U	250	U	6100	U		6020
4-Chlorotoluene	U	250	U	6100	U		6020
tert-Butylbenzene	U	250	U	6100	U		6020
1,2,4-Trimethylbenzene	U	250	U	6100	U		6020
sec-Butylbenzene	U	250	U	6100	U		6020
p-Isopropyltoluene	U	250	U	6100	U		6020
1,3-Dichlorobenzene	U	250	U	6100	U		6020
1,4-Dichlorobenzene	U	250	U	6100	U		6020
n-Butylbenzene	U	250	U	6100	U		6020
1,2-Dichlorobenzene	U	250	U	6100	U		6020
1,2-Dibromo-3-chloropropane	U	250	U	6100	U		6020
1,2,4-Trichlorobenzene	U	250	U	6100	U		6020
Hexachlorobutadiene	U	250	U	6100	U		6020
Naphthalene	U	250	U	6100	U		6020
1,2,3-Trichlorobenzene							

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	MeOH Blank A 090706-3		00388	
Location:			SB032-16.5	
Dilution Factor	50		5000	
Percent Solids	100		80	
Analyte	Result µg/L	RL µg/Kg	Result µg/Kg	RL µg/Kg
Dichlorodifluoromethane	U	250	U	31300
Chloromethane	U	250	U	31300
Vinyl Chloride	U	250	U	31300
Bromomethane	U	250	U	31300
Chloroethane	U	250	U	31300
Trichlorofluoromethane	U	250	U	31300
Acetone	U	1000	U	125000
1,1-Dichloroethene	U	250	U	31300
Methylene Chloride	U	250	U	31300
Carbon Disulfide	U	250	U	31300
Methyl-t-butyl Ether	U	250	U	31300
trans-1,2-Dichloroethene	U	250	U	31300
1,1-Dichloroethane	U	250	U	31300
2-Butanone	U	250	U	31300
2,2-Dichloropropane	U	250	U	31300
cis-1,2-Dichloroethene	U	250	U	31300
Chloroform	U	250	U	31300
1,1-Dichloropropene	U	250	U	31300
1,2-Dichloroethane	U	250	U	31300
1,1,1-Trichloroethane	U	250	689000	31300
Carbon Tetrachloride	U	250	U	31300
Benzene	U	250	U	31300
Trichloroethene	U	250	U	31300
1,2-Dichloropropane	U	250	U	31300
Bromodichloromethane	U	250	U	31300
Dibromomethane	U	250	U	31300
cis-1,3-Dichloropropene	U	250	U	31300
trans-1,3-Dichloropropene	U	250	U	31300
1,1,2-Trichloroethane	U	250	U	31300
1,3-Dichloropropane	U	250	U	31300
Dibromochloromethane	U	250	U	31300
1,2-Dibromoethane	U	250	U	31300
Bromoform	U	250	U	31300
4-Methyl-2-pentanone	U	250	U	31300
Toluene	U	250	U	31300
2-Hexanone	U	250	U	31300
Tetrachloroethene	U	250	U	31300
Chlorobenzene	U	250	U	31300
1,1,1,2-Tetrachloroethane	U	250	U	31300
Ethylbenzene	U	250	U	31300
p&m-Xylene	U	500	U	62500
o-Xylene	U	250	U	31300
Styrene	U	250	U	31300
Isopropylbenzene	U	250	U	31300
1,1,2,2-Tetrachloroethane	U	250	U	31300
1,2,3-Trichloropropane	U	250	U	31300
n-Propylbenzene	U	250	U	31300
Bromobenzene	U	250	U	31300
1,3,5-Trimethylbenzene	U	250	U	31300
2-Chlorotoluene	U	250	U	31300
4-Chlorotoluene	U	250	U	31300
tert-Butylbenzene	U	250	U	31300
1,2,4-Trimethylbenzene	U	250	U	31300
sec-Butylbenzene	U	250	U	31300
p-Isopropyltoluene	U	250	U	31300
1,3-Dichlorobenzene	U	250	U	31300
1,4-Dichlorobenzene	U	250	U	31300
n-Butylbenzene	U	250	U	31300
1,2-Dichlorobenzene	U	250	U	31300
1,2-Dibromo-3-chloropropane	U	250	U	31300
1,2,4-Trichlorobenzene	U	250	U	31300
Hexachlorobutadiene	U	250	U	31300
Naphthalene	U	250	U	31300
1,2,3-Trichlorobenzene	U	250	U	31300

rv_2368

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	MeOH Blank A 090806-2		00366 SB029-19		00383 SB030-20		00390 SB031-19.5		00389 SB032-15	
Location:										
Dilution Factor	50		1000		50		500		50	
Percent Solids	100		80		86		83		82	

Analyte	Result µg/L	RL µg/Kg	Result µg/Kg		RL µg/Kg	Result µg/Kg		RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg		RL µg/Kg
Dichlorodifluoromethane	U	250	U		6250	U		291	U	3010	U		305
Chloromethane	U	250	U		6250	U		291	U	3010	U		305
Vinyl Chloride	U	250	U		6250	U		291	U	3010	U		305
Bromomethane	U	250	U		8250	U		291	U	3010	U		305
Chloroethane	U	250	U		6250	U		291	U	3010	U		305
Trichlorofluoromethane	U	250	U		6250	U		291	U	3010	U		305
Acetone	U	1000	R		25000	R		1160	R	12000	R		1220
1,1-Dichloroethene	U	250	4050	J	6250	173	J	291	U	3010	82.3	J	305
Methylene Chloride	U	250	U		6250	151	J	291	U	3010	165	J	305
Carbon Disulfide	U	250	U		6250	U		291	U	3010	U		305
Methyl-t-butyl Ether	U	250	U		6250	U		291	U	3010	U		305
trans-1,2-Dichloroethene	U	250	U		6250	U		291	U	3010	U		305
1,1-Dichloroethane	U	250	U		6250	U		291	U	3010	U		305
2-Butanone	U	250	U		6250	U		291	U	3010	U		305
2,2-Dichloropropane	U	250	U		6250	U		291	U	3010	U		305
cis-1,2-Dichloroethene	U	250	U		6250	U		291	U	3010	U		305
Chloroform	U	250	U		6250	U		291	U	3010	U		305
1,1-Dichloropropene	U	250	U		6250	U		291	U	3010	U		305
1,2-Dichloroethane	U	250	340000	J	106000	4920		291	24100	3010	3430		305
1,1,1-Trichloroethane	U	250	U		6250	U		291	U	3010	U		305
Carbon Tetrachloride	U	250	U		6250	U		291	U	3010	U		305
Benzene	U	250	U		6250	177	J	291	U	3010	461		305
Trichloroethene	U	250	U		6250	U		291	U	3010	U		305
1,2-Dichloropropane	U	250	U		6250	U		291	U	3010	U		305
Bromodichloromethane	U	250	U		6250	U		291	U	3010	U		305
Dibromomethane	U	250	U		6250	U		291	U	3010	U		305
cis-1,3-Dichloropropene	U	250	U		6250	U		291	U	3010	U		305
trans-1,3-Dichloropropene	U	250	U		6250	U		291	U	3010	U		305
1,1,2-Trichloroethane	U	250	U		6250	U		291	U	3010	U		305
1,3-Dichloropropane	U	250	U		6250	U		291	U	3010	U		305
Dibromochloromethane	U	250	U		6250	U		291	U	3010	U		305
1,2-Dibromoethane	U	250	U		6250	U		291	U	3010	U		305
Bromoform	U	250	U		6250	U		291	U	3010	U		305
4-Methyl-2-pentanone	U	250	U		6250	U		291	U	3010	U		305
Toluene	U	250	U		6250	U		291	U	3010	U		305
2-Hexanone	U	250	U		6250	U		291	U	3010	U		305
Tetrachloroethene	U	250	U		6250	U		291	U	3010	U		305
Chlorobenzene	U	250	U		6250	U		291	U	3010	U		305
1,1,1,2-Tetrachloroethane	U	250	U		6250	U		291	U	3010	U		305
Ethylbenzene	U	500	U		12500	U		581	U	6020	U		610
p&m-Xylene	U	250	U		6250	U		291	U	3010	U		305
o-Xylene	U	250	U		6250	U		291	U	3010	U		305
Styrene	U	250	U		6250	U		291	U	3010	U		305
Isopropylbenzene	U	250	U		6250	U		291	U	3010	U		305
1,1,2,2-Tetrachloroethane	U	250	U		6250	U		291	U	3010	U		305
1,2,3-Trichloropropane	U	250	U		6250	U		291	U	3010	U		305
n-Propylbenzene	U	250	U		6250	U		291	U	3010	U		305
Bromobenzene	U	250	U		6250	U		291	U	3010	U		305
1,3,5-Trimethylbenzene	U	250	U		6250	U		291	U	3010	U		305
2-Chlorotoluene	U	250	U		6250	U		291	U	3010	U		305
4-Chlorotoluene	U	250	U		6250	U		291	U	3010	U		305
tert-Butylbenzene	U	250	U		6250	U		291	U	3010	U		305
1,2,4-Trimethylbenzene	U	250	U		6250	U		291	U	3010	U		305
sec-Butylbenzene	U	250	U		6250	U		291	U	3010	U		305
p-Isopropyltoluene	U	250	U		6250	U		291	U	3010	U		305
1,3-Dichlorobenzene	U	250	U		6250	U		291	U	3010	U		305
1,4-Dichlorobenzene	U	250	U		6250	U		291	U	3010	U		305
n-Butylbenzene	U	250	U		6250	U		291	U	3010	U		305
1,2-Dichlorobenzene	U	250	U		6250	U		291	U	3010	U		305
1,2-Dibromo-3-chloropropane	U	250	U		6250	U		291	U	3010	U		305
1,2,4-Trichlorobenzene	U	250	U		6250	U		291	U	3010	U		305
Hexachlorobutadiene	U	250	U		6250	U		291	U	3010	U		305
Naphthalene	U	250	U		6250	U		291	U	3010	U		305
1,2,3-Trichlorobenzene													

Table 1.2 (cont.) Results of the Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Method: REAC SOP 1807

Sample No	MeOH Blank A 090806-2		00386 SB032-19		00387 SB033-12.5		00385 SB033-18.5		00384 SB033-19.5	
Location:										
Dilution Factor	50		100		50		1000		100	
Percent Solids	100		81		82		81		84	
Analyte	Result µg/L	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg
Dichlorodifluoromethane	U	250	U	617	U	305	U	6170	U	595
Chloromethane	U	250	U	617	U	305	U	6170	U	595
Vinyl Chloride	U	250	U	617	U	305	U	6170	U	595
Bromomethane	U	250	U	617	U	305	U	6170	U	595
Chloroethane	U	250	U	617	U	305	U	6170	U	595
Trichlorofluoromethane	U	1000	R	2470	R	1220	R	24700	R	2380
Acetone	U	250	494 J	617	U	305	U	6170	U	595
1,1-Dichloroethene	U	250	U	617	159 J	305	U	6170	U	595
Methylene Chloride	U	250	U	617	U	305	U	6170	U	595
Carbon Disulfide	U	250	U	617	U	305	U	6170	U	595
Methyl-t-butyl Ether	U	250	U	617	U	305	U	6170	U	595
trans-1,2-Dichloroethene	U	250	U	617	U	305	U	6170	U	595
1,1-Dichloroethane	U	250	U	617	U	305	U	6170	U	595
2-Butanone	U	250	U	617	U	305	U	6170	U	595
2,2-Dichloropropane	U	250	U	617	U	305	U	6170	U	595
cis-1,2-Dichloroethene	U	250	U	617	U	305	U	6170	U	595
Chloroform	U	250	U	617	U	305	U	6170	U	595
1,1-Dichloropropene	U	250	U	617	U	305	121000 J	6170	13100	595
1,2-Dichloroethane	U	250	13300	617	3090	305	U	6170	U	595
1,1,1-Trichloroethane	U	250	U	617	U	305	U	6170	U	595
Carbon Tetrachloride	U	250	U	617	U	305	U	6170	454 J	595
Benzene	U	250	699	617	669	305	U	6170	U	595
Trichloroethene	U	250	U	617	U	305	U	6170	U	595
1,2-Dichloropropane	U	250	U	617	U	305	U	6170	U	595
Bromodichloromethane	U	250	U	617	U	305	U	6170	U	595
Dibromomethane	U	250	U	617	U	305	U	6170	U	595
cis-1,3-Dichloropropene	U	250	U	617	U	305	U	6170	U	595
trans-1,3-Dichloropropene	U	250	U	617	U	305	U	6170	U	595
1,1,2-Trichloroethane	U	250	U	617	U	305	U	6170	U	595
1,3-Dichloropropane	U	250	U	617	U	305	U	6170	U	595
Dibromochloromethane	U	250	U	617	U	305	U	6170	U	595
1,2-Dibromoethane	U	250	U	617	U	305	U	6170	U	595
Bromoform	U	250	U	617	U	305	U	6170	U	595
4-Methyl-2-pentanone	U	250	U	617	U	305	U	6170	U	595
Toluene	U	250	U	617	U	305	U	6170	U	595
2-Hexanone	U	250	U	617	U	305	U	6170	U	595
Tetrachloroethene	U	250	U	617	U	305	U	6170	U	595
Chlorobenzene	U	250	U	617	U	305	U	6170	U	595
1,1,1,2-Tetrachloroethane	U	250	U	617	U	305	U	6170	U	595
Ethylbenzene	U	500	U	1230	U	610	U	12300	U	1190
p&m-Xylene	U	250	U	617	U	305	U	6170	U	595
o-Xylene	U	250	U	617	U	305	U	6170	U	595
Styrene	U	250	U	617	U	305	U	6170	U	595
Isopropylbenzene	U	250	U	617	U	305	U	6170	U	595
1,1,2,2-Tetrachloroethane	U	250	U	617	U	305	U	6170	U	595
1,2,3-Trichloropropane	U	250	U	617	U	305	U	6170	U	595
n-Propylbenzene	U	250	U	617	U	305	U	6170	U	595
Bromobenzene	U	250	U	617	U	305	U	6170	U	595
1,3,5-Trimethylbenzene	U	250	U	617	U	305	U	6170	U	595
2-Chlorotoluene	U	250	U	617	U	305	U	6170	U	595
4-Chlorotoluene	U	250	U	617	U	305	U	6170	U	595
tert-Butylbenzene	U	250	U	617	U	305	U	6170	U	595
1,2,4-Trimethylbenzene	U	250	U	617	U	305	U	6170	U	595
sec-Butylbenzene	U	250	U	617	U	305	U	6170	U	595
p-Isopropyltoluene	U	250	U	617	U	305	U	6170	U	595
1,3-Dichlorobenzene	U	250	U	617	U	305	U	6170	U	595
1,4-Dichlorobenzene	U	250	U	617	U	305	U	6170	U	595
n-Butylbenzene	U	250	U	617	U	305	U	6170	U	595
1,2-Dichlorobenzene	U	250	U	617	U	305	U	6170	U	595
1,2-Dibromo-3-chloropropane	U	250	U	617	U	305	U	6170	U	595
1,2,4-Trichlorobenzene	U	250	U	617	U	305	U	6170	U	595
Hexachlorobutadiene	U	250	U	617	U	305	U	6170	U	595
Naphthalene	U	250	U	617	U	305	U	6170	U	595
1,2,3-Trichlorobenzene										

Table 2.1 Results of the Internal Standard Areas & Surrogate Percent Recoveries for VOC in Water
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Analysis Date 09/09/06
Matrix Water

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
BV5716D	Cal Check Area	327801	2365770	1435140			
BV5718.D	Water Blank B090906-2	316555	2316266	1375335	104	100	98
BV5719.D	LCS BW 41	316158	2332374	1392383	105	98	98
BV5721.D	15185/100x	316995	2279489	1346873	106	100	100
BV5723.D	15188	310085	2235111	1339016	106	100	99
BV5724.D	15188 MS	315411	2269002	1355622	104	99	99
BV5725.D	15188 MSD	314540	2287550	1374456	105	99	99
BV5726.D	15193	313018	2250749	1341385	105	100	99
BV5730.D	15190/100x	306377	2238030	1336510	105	100	100
BV5731.D	15185/1000x	307988	2245679	1347883	105	99	100

isv1305

Analysis Date 09/11/06
Matrix Water

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
BV5745D	Cal Check Area	367634	2666120	1592960			
BV5748.D	Water Blank B091106-1	348964	2607075	1538289	101	102	98
BV5751.D	15174	334445	2461051	1456389	103	102	99
BV5752.D	15175	325491	2400405	1434207	103	101	98

isv1306

Analysis Date 09/12/06
Matrix Water

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
BV5757D	Cal Check Area	328734	2395330	1469990			
BV5760.D	Water Blank B091206-2	313998	2334973	1395797	106	101	99
BV5763.D	15189/2x	311039	2295940	1384626	105	101	98

isv 1308

Internal Standards	Surrogate Standards	Limits Water
IS 1= Bromochloromethane	Surr. 1= 1,2-Dichloroethane-d4	76 - 114
IS 2= 1,4-Difluorobenzene	Surr. 2= Toluene-d8	88 - 110
IS 3= Chlorobenzene-d5	Surr. 3= p-Bromofluorobenzene	86 - 115

Table 2. 2 Results of the LCS Analysis for VOC in Water
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Sample ID: LCS BW 41

Analyte	LCS Spike Added µg/L	LCS Result µg/L	LCS % Recovery	QC Limits % Recovery
1,1-Dichloroethene	50.0	56.2	112	70 - 130
Benzene	50.0	51.0	102	70 - 130
Trichloroethene	50.0	51.8	104	70 - 130
Toluene	50.0	51.1	102	70 - 130
Chlorobenzene	50.0	50.4	101	70 - 130

Table 2.3 Results of MS/MSD Analysis for VOC in Water
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Sample No. : 15188

Analyte	Sample Result µg/L	MS Spike Added µg/L	MSD Spike Added µg/L	MS Result µg/L	MSD Result µg/L	MS % Rec.	MSD % Rec.	RPD	QC Limits % Recovery	QC Limits RPD
1,1-Dichloroethene	2.1	50.0	50.0	57.6	58.1	111	112	1	61 - 145	14
Benzene	U	50.0	50.0	52.3	50.7	105	101	3	76 - 127	11
Trichloroethene	U	50.0	50.0	54.2	55.4	108	111	2	71 - 120	14
Toluene	U	50.0	50.0	52.2	51.0	104	102	2	76 - 125	11
Chlorobenzene	U	50.0	50.0	52.0	50.6	104	101	3	75 - 130	11

msv 809

Table 2.4 Results of the Internal Standard Areas & Surrogate Percent Recoveries for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Analysis Date 09/11/06
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
BV5745D	Cal Check Area	367634	2666120	1592960			
BV5749.D	MeOH Blank B091106-1	346370	2582597	1526536	102	102	98
BV5750.D	LCS BM 04	339326	2525871	1501388	102	101	98
BV5754.D	04109/100x	301207	2223638	1356110	103	100	101
BV5755.D	10190/100x	296810	2210361	1362966	104	99	101

isv1307

Analysis Date 09/12/06
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
BV5757D	Cal Check Area	328734	2395330	1469990			
BV5759.D	MeOH Blank B091206-1	322916	2350873	1414796	105	101	99
BV5761.D	LCS BM 05	315276	2318658	1398043	104	100	99
BV5764.D	04111/100x	294083	2158899	1339456	104	99	102
BV5765.D	04113/500x	306617	2268507	1384481	105	100	99
BV5766.D	04114/500x	308055	2307145	1397350	105	101	99
BV5767.D	04111/100x ms	287079	2154620	1335051	103	99	102
BV5768.D	04111/100x msd	288464	2179540	1331915	104	100	103
BV5769.D	04113/500x ms	310089	2314606	1414350	104	100	100
BV5770.D	04113/500 x msd	307763	2318240	1405399	105	100	99
BV5771.D	04116/2000x	312133	2290419	1376817	105	101	100
BV5772.D	10193/500x	306765	2271950	1382306	105	101	100
BV5773.D	04115/5000x	307914	2265419	1374649	106	100	100

isv1309

Analysis Date 09/12/06
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
BV5777D	Cal Check Area	320490	2335860	1426210			
BV5779.D	MeOH Blank B091206-4	315559	2286315	1359567	103	102	100
BV5780.D	10191/500x	307895	2243459	1362227	104	101	101
BV5781.D	10192/1000x	309882	2250057	1356406	104	101	101
BV5782.D	22409/25000x	309448	2214547	1338097	106	101	101
BV5783.D	22428/100x	279683	2086851	1291542	105	99	103
BV5784.D	23899/20000x	305110	2218923	1339841	105	101	100
BV5785.D	15159/500x	300712	2200495	1346278	106	100	100
BV5787.D	15158/200x	297260	2160471	1329841	105	100	103
BV5788.D	23898/100x	274600	2042777	1256175	106	100	105
BV5790.D	15156/20000x	300666	2214793	1327627	106	101	101
BV5791.D	15160/10000x	296465	2190202	1322583	107	101	101
BV5792.D	15167/100x	274504	2034964	1259166	105	100	104
BV5793.D	15178/5000x	294809	2148711	1306033	105	101	101

isv1310

Internal Standards	Surrogate Standards	Limits Soil
IS 1= Bromochloromethane	Surr. 1= 1,2-Dichloroethane-d4	70-121
IS 2= 1,4-Difluorobenzene	Surr. 2= Toluene-d8	84-138
IS 3= Chlorobenzene-d5	Surr. 3= p-Bromofluorobenzene	59-113

Table 2.4 (cont.) Results of the Internal Standard Areas & Surrogate Percent Recoveries for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Analysis Date 09/12/06
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
AV5020D	Cal Check Area	214729	1393827	784386			
AV5024.D	Soil Blank A091206-4	179799	1238902	658698	111	104	88
AV5025.D	LCS AS 32	171554	1222437	655071	114	103	86
AV5026.D	04108	150478	1077363	578894	118	104	84
AV5029.D	04110/5x	152374	1064695	577965	121	104	84
AV5033.D	15157/10x	140947	984213	539993	127 *	105	80
AV5034.D	15179/5x	140057	955243	533283	123 *	104	83
AV5035.D	15177/2x	118320	783900	436321	124 *	105	78

isv1311

Analysis Date 09/13/06
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
AV5039D	Cal Check Area	160886	1081630	646716			
AV5041.D	Soil Blank A 091306-2	149690	1058045	578481	119	105	84
AV5042.D	04112/2x	101836	664400	370018	122 *	102	81
AV5043.D	04112/2x ms	147349	1058454	591295	124 *	101	82
AV5044.D	04112/2x msd	145776	1059099	587633	125 *	102	82
AV5045.D	15157/10x	142974	992384	552186	126 *	103	81
AV5046.D	15179/5x	138488	948860	531995	125 *	104	82
AV5047.D	15177/2x	134839	940737	527767	124 *	104	79

isv1312

Analysis Date 09/13/06
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
BV5795D	Cal Check Area	305775	2233380	1412210			
BV5796.D	MeOH Blank B091306-1	305152	2251573	1371849	107	100	97
BV5797.D	15168/500x	297835	2210206	1360424	108	100	98
BV5798.D	15154/500x	298376	2202550	1367092	108	100	97
BV5799.D	15168/500 x ms	294621	2223478	1381999	109	99	97
BV5800.D	15168/500x msd	296446	2217635	1379077	108	99	97
BV5801.D	04114/1000x	294712	2209324	1355968	109	100	97
BV5802.D	15194/4000x	296339	2177701	1344778	109	100	97
BV5803.D	15158/500x	295630	2237108	1380779	108	100	96
BV5804.D	23898/500x	301090	2242915	1394750	109	100	97
BV5805.D	15155/20000x	295869	2196651	1347408	108	100	97

isv1313

Internal Standards	Surrogate Standards		Limits Soil
IS 1= Bromochloromethane	Surr. 1=	1,2-Dichloroethane-d4	70-121
IS 2= 1,4-Difluorobenzene	Surr. 2=	Toluene-d8	84-138
IS 3= Chlorobenzene-d5	Surr. 3=	p-Bromofluorobenzene	59-113

Table 2.4 (cont.) Results of the Internal Standard Areas & Surrogate Percent Recoveries for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Analysis Date 09/15/06
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
AV5068D	Cal Check Area	145861	933651	580872			
AV5070.D	Soil Blank A091506-2	136346	954204	533166	98	108	101
AV5071.D	15180/10x	135221	923369	509082	99	109	97
AV5072.D	15166	129410	906176	498239	97	108	100
AV5073.D	15153/2x	128427	888248	493889	98	108	100
AV5074.D	15161	118966	854338	463378	97	110	100
AV5076.D	15163	115119	800368	432027	97	111	100
AV5077.D	15164	47035 *	321396 *	176872 *	99	108	99
AV5078.D	15165	115203	803320	439851	96	109	100
AV5083.D	15162/10x	111564	769280	424590	98	109	103
AV5085.D	15164	59301 *	405543 *	222288 *	99	109	102

isv1316

Analysis Date 060825
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
BV5315.D	Cal Check Area	168464	1403110	894290			
BV5318.D	Soil Blank B 082506-2	162459	1401174	826544	109	102	86
BV5319.D	LCS-BS-94	157045	1455203	846483	109	102	83
BV5320.D	04131	151772	1265580	723882	107	106	79
BV5321.D	04131 ms	149965	1336090	745757	107	106	80
BV5322.D	04131 msd	133225	1302049	694324	103	109	76
BV5323.D	04182	145210	1103151	472327	105	126	61
BV5324.D	04183	143711	1189497	682612	104	107	82
BV5325.D	04184	146050	1235204	729286	105	104	82
BV5326.D	04185	166208	1333659	850192	107	99	83
BV5327.D	04186	165038	1372970	870055	106	98	85
BV5328.D	04187	145893	1314663	810218	107	102	83
BV5329.D	04188	145171	1333134	823351	108	106	83

isv1273

Internal Standards	Surrogate Standards	Limits Soil
IS 1= Bromochloromethane	Surr 1= 1,2-Dichloroethane-d4	70-121
IS 2= 1,4-Difluorobenzene	Surr 2= Toluene-d8	84-138
IS 3= Chlorobenzene-d5	Surr. 3= p-Bromofluorobenzene	59-113

Table 2.4 (cont.) Results of the Internal Standard Areas & Surrogate Percent Recoveries for VOC in Soil
WA# 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Analysis Date 060826
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
BV5333.D	Cal Check Area	167493	1402160	870301			
BV5335.D	Soil Blank B 082606-2	158872	1355769	794462	110	102	86
BV5336.D	04198	176663	1516310	903772	110	109	85
BV5337.D	04199	165178	1428827	771653	105	111	78
BV5338.D	04200	153644	1367444	751247	105	109	79
BV5339.D	15134	162342	1349361	772833	110	104	82
BV5340.D	15154	152498	1209291	666972	107	109	80
BV5341.D	15154 ms	133664	1286814	714462	106	106	81
BV5342.D	15154 msd	139562	1321332	732609	103	106	80
BV5343.D	15155	135419	1130654	634042	106	108	80
BV5344.D	15156	135001	1049378	597077	109	108	81
BV5345.D	15157	141730	1159485	670255	108	106	82
BV5346.D	15158	144300	1200708	709213	105	111	80
BV5347.D	15159	136466	1165290	666731	108	107	82
BV5348.D	15160	139495	1168444	680787	112	105	82

isv1274

Analysis Date 060826
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
BV5350.D	Cal Check Area	161226	1336300	848819			
BV5351.D	Soil Blank 082606-1	165225	1417536	808109	108	104	84
BV5352.D	LCS BS 95	160648	1459178	843606	110	102	83
BV5359.D	19162/5x	148215	1309923	753644	112	106	82
BV5360.D	19162/5x MS	132395	1352325	755543	109	105	80
BV5361.D	19162/5x MSD	123594	1281239	705406	108	106	81
BV5362.D	19163/5x	153437	1311190	765938	111	104	82
BV5364.D	19164/5x	135401	1270259	712901	111	108	79
BV5365.D	19165/5x	148742	1291014	750593	112	105	83
BV5366.D	04181/5x	155638	1302840	762099	111	105	83
BV5353.D	04182/10x	171935	1361594	771025	107	106	79
BV5354.D	04184/10x	166831	1346193	797131	106	104	83
BV5355.D	04200/10x	158034	1341862	169593	110	106	82
BV5356.D	19154/5x	160927	1292536	734155	106	107	80
BV5358.D	19158/5x	161568	1297647	751085	105	108	81

isv1275

Internal Standards	Surrogate Standards	Limits Soil
IS 1= Bromochloromethane	Surr. 1= 1,2-Dichloroethane-d4	70-121
IS 2= 1,4-Difluorobenzene	Surr. 2= Toluene-d8	84-138
IS 3= Chlorobenzene-d5	Surr. 3= p-Bromofluorobenzene	59-113

Table 2.4 (cont.) Results of the Internal Standard Areas & Surrogate Percent Recoveries for VOC in Soil
WA# 3-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Analysis Date 060827
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
BV5370.D	Cal Check Area	155659	1404140	832393			
BV5372.D	Soil Blank B 082706-2	150489	1401067	811309	110	103	84
BV5373.D	19169	140491	1240552	705735	111	106	81
BV5375.D	19168/5x	145362	1287291	741337	111	105	81
BV5376.D	19170/5x	142097	1256753	690805	113	110	77
BV5377.D	15135/10x	130537	1166498	652007	112	109	77
BV5378.D	15137/10x	150422	1284840	757930	111	104	87
BV5379.D	15138/5x	132674	1160562	670718	115	106	80
BV5380.D	23733/5x	146458	1454732	861073	111	105	87
BV5381.D	23734/5x	140910	1425991	801729	109	104	86
BV5382.D	23736/5x	149274	1320600	756953	111	105	83
BV5383.D	23879/5x	143331	1327217	793561	116	106	87
BV5384.D	23870/5x	161383	1400998	791641	109	105	84
BV5385.D	23876/5x	144902	1316279	747913	108	105	82

isv1276

Analysis Date 060827
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
BV5391.D	Cal Check Area	161067	1464310	903965			
BV5392.D	soil blank B 082706-3	160702	1513526	859073	105	104	85
BV5393.D	19161/10x	164993	1361954	711551	107	111	72
BV5395.D	04197/5x	135923	1276253	722807	109	105	81
BV5397.D	23875/5x	145402	1300784	751584	113	105	81
BV5398.D	23877/5x	142433	1313392	751505	115	106	82
BV5399.D	23739/5x	152230	1336639	778526	113	104	81
BV5400.D	23873/5x	154398	1347966	766617	115	105	81
BV5401.D	23737/5x	148457	1294647	735281	115	105	82
BV5402.D	23738/5x	131581	1234677	703509	112	107	79
BV5403.D	23882/5x	153859	1340449	802392	113	106	82
BV5404.D	23883/5x	148096	1281238	753792	113	105	82
BV5406.D	23878/5x	138273	1141751	539091	105	122	65
BV5407.D	23881/5x	152402	1584288	984366	125	97	87
BV5408.D	23880/5x	180200	1715215	916623	99	109	92

isv1278

Internal Standards	Surrogate Standards	Limits Soil
IS 1= Bromochloromethane	Surr. 1= 1,2-Dichloroethane-d4	70-121
IS 2= 1,4-Difluorobenzene	Surr. 2= Toluene-d8	84-138
IS 3= Chlorobenzene-d5	Surr. 3= p-Bromofluorobenzene	59-113

Table 2.4 (cont.) Results of the Internal Standard Areas & Surrogate Percent Recoveries for VOC in Soil
WA# 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Analysis Date 060828
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
BV5415.D	Cal Check Area	160543	1348590	849832			
BV5417.D	Soil Blank B082806-2	166776	1380535	820255	110	101	86
BV5418.D	LCS-BS-96	157978	1381938	829620	111	100	84
BV5421.D	23734/10x	143663	1217239	741910	119	101	84
BV5422.D	00398/5x	139032	1163418	711395	118	102	82
BV5423.D	00394/5x	129482	1114389	679040	120	103	86
BV5424.D	00393/5x	137696	1189481	722654	119	101	86
BV5426.D	23888/5x	135488	1158694	699461	116	102	82
BV5427.D	00392/5x	126135	1130799	690512	121	103	83
BV5428.D	00624/5x	132282	1145921	695696	117	102	82
BV5429.D	00396/5x	133794	1206686	798777	122	99	91
BV5430.D	00399/5x	211641	1639859	975737	74	102	102

isv1279

Analysis Date 060830
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
BV5466.D	Cal Check Area	374532	2699000	1461419			
BV5474.D	Soil Blank B 083006-1	258578	1998888	997354	111	105	83
BV5475.D	23884/5x	254841	1899359	975643	117	103	84
BV5476.D	23884/5x MS	206671	1785453	906904	118	103	82
BV5477.D	23884/5x MSD	198328	1689838	856109	118	103	80

isv1284

Analysis Date 060905
Matrix: Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
BV5466.D	Cal Check Area	286434	2036260	1165800			
BV5634.D	MeOH Blank B 090506-2	296963	2095545	1142265	99	104	99
BV5635.D	00628/100000x	293831	2109604	1139941	98	105	102
BV5636.D	23894/100x	279627	1983098	1120954	99	102	103
BV5637.D	00391/1000x	275257	1935084	1069258	101	103	99

isv1284

Internal Standards	Surrogate Standards	Limits Water
IS 1= Bromochloromethane	Surr. 1= 1,2-Dichloroethane-d4	76-114
IS 2= 1,4-Difluorobenzene	Surr. 2= Toluene-d8	88-110
IS 3= Chlorobenzene-d5	Surr. 3= p-Bromofluorobenzene	86-115

Table 2.4 (cont.) Results of the Internal Standard Areas & Surrogate Percent Recoveries for VOC in Soil
WA# 3-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Analysis Date 060826

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3	
BV5632.D	Cal Check Area	203188	1484240	826512				
AV4535.D	Methanol blank A08I2706-1	198209	1497803	792266	108	103	89	
AV4537.D	04185/100x	192752	1450100	774928	108	103	87	
AV4538.D	04185/100x ms	195875	1505656	815991	109	101	85	*
AV4539.D	04185/100x msd	201327	1520340	825077	109	100	85	*
AV4540.D	04186/100x	192627	1442271	790034	108	102	88	
AV4541.D	04187/100x	198378	1499829	799430	109	103	86	
AV4542.D	04188/100x	197289	1492894	798649	108	103	87	
AV4544.D	04199/100x	195683	1499101	801203	110	103	86	

ISV1277

Analysis Date 060829
Matrix: Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
AV4585.D	Cal Check Area	193101	1352880	742665			
AV4586.D	Methanol Blank A 082906-1	194051	1398117	753652	104	102	91
AV4587.D	04185/200x	194620	1430537	751375	106	103	88
AV4588.D	04198/200x	194712	1394847	739877	106	103	89
AV4599.D	23733/50x	197245	1414899	817322	109	98	95
AV4601.D	23879/100x	210598	1539268	865335	104	99	92

ISV1280

Analysis Date 060830
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
AV4609.D	Cal Check Area	214923	1482035	877838			
AV4611.D	Methanol Blank A 083006-2	201475	1441033	832112	105	98	93
AV4614.D	23875/50x	189915	1382790	795863	109	97	95
AV4615.D	23877/100x	194529	1419323	824150	108	98	94
AV4616.D	23877/100x ms	193127	1446853	841753	107	97	93
AV4617.D	23877/100x msd	194652	1444393	845850	108	96	93
AV4618.D	23739/50x	191953	1397271	807481	109	97	96
AV4619.D	23873/100x	196839	1445154	825531	106	99	93
AV4620.D	23737/50x	188513	1383434	801275	107	97	96
AV4622.D	23882/100x ms	193610	1457799	839547	107	97	94
AV4623.D	23882/100x msd	193938	1454537	836214	106	97	93
AV4624.D	23878/50x	189303	1403972	804714	107	98	96
AV4625.D	23881/50x	192911	1463882	1011627	111	105	104

ISV1281

Internal Standards	Surrogate Standards	Limits Water
IS 1= Bromochloromethane	Surr 1= 1,2-Dichloroethane-d4	76 - 114
IS 2= 1,4-Difluorobenzene	Surr. 2= Toluene-d8	88 - 110
IS 3= Chlorobenzene-d5	Surr 3= p-Bromofluorobenzene	86 - 115

Table 2.4 (cont.) Results of the Internal Standard Areas & Surrogate Percent Recoveries for VOC in Soil
WA# 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Analysis Date 060831
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
AV4645.D	Cal Check Area	290096	1983200	1084320			
AV4649.D	Methanol Blank A 083106-2	216001	1540250	866897	108	101	91
AV4650.D	04198/40x	200103	1468348	865791	111	101	101
AV4651.D	23881/10000x	214416	1538275	865297	108	102	93
AV4653.D	23733/10000x	200364	1415540	799379	112	102	95
AV4654.D	00394/50x	190516	1374735	799498	110	100	98
AV4655.D	00394/50x ms	189997	1410025	822837	109	98	99
AV4656.D	00394/50x msd	192489	1439461	838604	111	98	100

ISV1283

Analysis Date 060906
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
AV4837.D	Cal Check Area	224624	1633780	907969			
AV4838.D	MeOH Blank A 090606-1	221580	1648560	887487	105	105	95
AV4842.D	00396/100x	205929	1618842	886717	101	104	98
AV4843.D	00399/500x	233023	1715518	914336	104	106	95
AV4844.D	00399/10000x	224277	1621561	870875	104	106	95

ISV1297

Analysis Date 060907
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
AV4860.D	Cal Check Area	216853	1555470	903098			
AV4861.D	MeOH Blank A 090706-1	217393	1596113	874644	109	104	93
AV4869.D	00628/200000x	203644	1479505	827305	114	104	91
AV4870.D	00391/10000x	202147	1469730	821515	114	104	90

ISV1298

Analysis Date 060827
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
AV4534D	Cal Check Area	203188	1484240	826512			
AV4535.D	Methanol blank A082706-1	198209	1497803	792266	108	103	89
AV4536.D	LCS AM 08	190350	1433627	782318	109	100	87
AV4547.D	19167/500x	194293	1478141	792360	110	103	86
AV4548.D	19167/10000x	181809	1430158	774964	113	102	86

ISV1277

Internal Standards	Surrogate Standards	Limits Water
IS 1= Bromochloromethane	Surr. 1= 1,2-Dichloroethane-d4	76 - 114
IS 2= 1,4-Difluorobenzene	Surr. 2= Toluene-d8	88 - 110
IS 3= Chlorobenzene-d5	Surr. 3= p-Bromofluorobenzene	86 - 115

Table 2.4 (cont.) Results of the Internal Standard Areas & Surrogate Percent Recoveries for VOC in Soil
WA# 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Analysis Date 060826
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
AV4585D	Cal Check Area	135101	1351880	742665			
AV4586.D	Methanol Blank A 082906-1	145051	1398117	753652	104	102	91
AV4590.D	15136/50x	138421	1313252	716299	108	102	90
AV4591.D	15139/50x	144008	1351709	732339	108	102	90
AV4592.D	15140/500x	148637	1362631	723885	107	103	87
AV4593.D	15141/50x	150666	1350138	735611	106	102	86
AV4596.D	23719/5000x	157564	1399208	787152	107	99	89
AV4597.D	23718/5000x	155084	1386148	796842	110	99	89

ISV1280

Analysis Date 060829
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
AV4609D	Cal Check Area	214023	1482035	877838			
AV4611.D	Methanol Blank A 083006-2	201475	1441033	832112	105	98	93
AV4612.D	15142/50x	185254	1369876	796063	108	99	95
AV4613.D	19166/2000x	203967	1464319	826145	108	98	92

isv1281

Analysis Date 060830
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
AV4645D	Cal Check Area	290096	1983200	1084320			
AV4649.D	Methanol Blank A 083106-2	216001	1540250	866897	108	101	91
AV4652.D	23718/250000x	197519	1435143	827072	109	100	98
AV4658.D	23740/500x	213540	1554297	869596	110	102	95

isv1283

Analysis Date 060831
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
AV4661D	Cal Check Area	222940	1542000	912001			
AV4662.D	Water Blank A 083106-1	214840	1582414	889480	109	101	93
AV4663.D	23892	167341	1328530	1115900	130	100	96
AV4664.D	23893	306521	2198611	1188095	95	104	97
AV4665.D	23890	233972	2048080	1169325	106	102	97
AV4666.D	23892/10000x	333807	2387122	1234671	88	105	100
AV4667.D	23887/10000x	323043	2366008	1231636	90	106	101
AV4669.D	23889/100x	320233	2298124	1191956	89	106	102
AV4671.D	23893/100x	295825	2136948	1127157	92	105	101
AV4672.D	23893/100x ms	284583	2021448	1079746	95	104	100
AV4673.D	23893/100x msd	271586	1925974	1036958	97	103	99
AV4674.D	00632/10x	259866	1842528	1004037	101	103	98
AV4675.D	23890/1000x	247116	1724037	956646	103	102	96

isv1285

Internal Standards	Surrogate Standards	Limits Water
IS 1= Bromochloromethane	Surr 1= 1,2-Dichloroethane-d4	76-114
IS 2= 1,4-Difluorobenzene	Surr 2= Toluene-d8	88-110
IS 3= Chlorobenzene-d5	Surr 3= p-Bromofluorobenzene	86-115

Table 2.4 (cont.) Results of the Internal Standard Areas & Surrogate Percent Recoveries for VOC in Soil
WA# 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Analysis Date 060906
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
AV4837D	Cal Check Area	224624	1633780	907969			
AV4838.D	MeOH Blank A 090606-1	221580	1648560	887487	105	105	95
AV4839.D	LCS AM.09	216296	1612886	880016	105	103	93
AV4841.D	23886/20x	219421	1650028	881979	102	106	97
AV4845.D	00395/10000x	215123	1589273	854849	106	105	95
AV4846.D	23891/100x	214902	1606937	880693	103	105	97
AV4847.D	00625/500x	218758	1598741	862746	106	105	95
AV4848.D	00626/1000x	219011	1607843	867192	107	105	94
AV4849.D	00629/10000x	218582	1619758	874362	107	106	94
AV4850.D	00627/50000x	214095	1554451	847615	107	105	94
AV4851.D	23897/1000x	217436	1603128	856482	109	105	94
AV4852.D	00365/1000x	215521	1573631	849183	108	105	93
AV4853.D	23895/1000x	211252	1537031	837955	108	105	93

isv1297

Analysis Date 060907
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
AV4860D	Cal Check Area	216853	1555470	903098			
AV4861.D	MeOH Blank A 090706-1	217393	1596113	874644	109	104	93
AV4862.D	23886/50x	209749	1541909	853724	108	104	99
AV4863.D	23886/500x	213860	1554208	852311	110	105	93
AV4867.D	00395/100000x	209673	1536821	855425	113	104	91
AV4868.D	23897/50000x	206548	1536536	851969	114	104	91
AV4872.D	00634/1000x	219056	1594435	881059	110	104	90
AV4874.D	00630/1000x	208038	1562083	872845	114	104	89
AV4875.D	00397/1000x	209415	1587340	869308	118 *	104	91
AV4876.D	00400/1000x	207001	1527196	849910	114	104	90
AV4877.D	23896/1000x	204328	1518300	850744	116 *	104	89

isv1298

Analysis Date 060907
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
AV4884D	Cal Check Area	228678	1638500	969453			
AV4886.D	MeOH Blank A 090706-3	204777	1476674	834150	114	103	89
AV4889.D	00388/5000x	195767	1429940	815969	119 *	103	86

isv1299

Internal Standards	Surrogate Standards	Limits Water
IS 1= Bromochloromethane	Surr. 1= 1,2-Dichloroethane-d4	76-114
IS 2= 1,4-Difluorobenzene	Surr. 2= Toluene-d8	88-110
IS 3= Chlorobenzene-d5	Surr. 3= p-Bromofluorobenzene	86-115

Table 2.4 (cont.) Results of the Internal Standard Areas & Surrogate Percent Recoveries for VOC in Soil
WA# 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Analysis Date 060908
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1		Surr. 2	Surr. 3
AV4897D	Cal Check Area	167929	1191410	707708				
AV4899.D	MeOH Blank A 080806-2	151855	1135352	620064	111		104	102
AV4900.D	00366/1000x	150049	1110524	607828	117	*	104	101
AV4901.D	00366/2000x	159705	1092724	600283	116	*	104	100
AV4902.D	00397/250000x	153138	1065436	595151	117	*	103	101
AV4904.D	00383/50x	152907	1090834	601655	113		103	107
AV4905.D	00390/500x	159614	1134222	615103	114		104	102
AV4906.D	00388/5000x	156609	1118346	609540	117	*	104	110
AV4907.D	00389/50x	155693	1117714	606673	111		105	107
AV4908.D	00386/100x	156581	1121657	619723	111		104	106
AV4909.D	00387/50x	155756	1117802	610330	111		104	110
AV4910.D	00385/1000x	162709	1172904	626499	115	*	104	104
AV4911.D	00384/100x	157222	1118219	615275	113		104	107
AV4912.D	00384/100x ms	159437	1177808	652108	110		102	106
AV4913.D	00384/100x msd	160630	1173739	643202	110		103	107

isv1304

Analysis Date 060909
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1		Surr. 2	Surr. 3
AV4923D	Cal Check Area	201006	1396610	764531				
AV4924.D	MeOH Blank A 090906-1	195283	1342414	712401	109		100	91
AV4926.D	00385/1000x	177335	1231414	653783	115	*	100	90

isv1352

Analysis Date 060831
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
AV4677D	Cal Check Area	235759	1630310	953072			
AV4680.D	Water Blank A 083106-3	228190	1609907	900212	107	101	84
AV4681.D	23893/200x	225600	1575492	883746	106	102	95

isv1377

Analysis Date 060830
Matrix Soil

File ID	Sample No.	IS 1	IS 2	IS 3	Surr. 1	Surr. 2	Surr. 3
AV4632D	Cal Check Area	229704	1601510	955940			
AV4634.D	Water Blank A 083106-3	212140	1508119	861891	110	98	88
AV4635.D	LCS AW 69	201042	1463659	85141	113	96	86

isv1282

Internal Standards	Surrogate Standards	Limits Water	Soil
IS 1= Bromochloromethane	Surr. 1= 1,2-Dichloroethane-d4	76-114	70-121
IS 2= 1,4-Difluorobenzene	Surr. 2= Toluene-d8	88-110	84-138
IS 3= Chlorobenzene-d5	Surr. 3= p-Bromofluorobenzene	86-115	59-113

Table 2.5 Results of the LCS Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Sample ID: LCS BM 04

Analyte	LCS Spike Added µg/Kg	LCS Result µg/Kg	LCS % Recovery	QC Limits % Recovery
1,1-Dichloroethene	50.0	47.8	96	70 - 130
Benzene	50.0	48.8	98	70 - 130
Trichloroethene	50.0	48.6	97	70 - 130
Toluene	50.0	49.2	98	70 - 130
Chlorobenzene	50.0	47.7	95	70 - 130

Sample ID: LCS BM 05

Analyte	LCS Spike Added µg/Kg	LCS Result µg/Kg	LCS % Recovery	QC Limits % Recovery
1,1-Dichloroethene	50.0	54.6	109	70 - 130
Benzene	50.0	48.0	96	70 - 130
Trichloroethene	50.0	47.8	96	70 - 130
Toluene	50.0	47.7	95	70 - 130
Chlorobenzene	50.0	47.0	94	70 - 130

Sample ID: LCS AS 32

Analyte	LCS Spike Added µg/Kg	LCS Result µg/Kg	LCS % Recovery	QC Limits % Recovery
1,1-Dichloroethene	50.0	58.5	117	70 - 130
Benzene	50.0	49.4	99	70 - 130
Trichloroethene	50.0	40.5	81	70 - 130
Toluene	50.0	53.2	106	70 - 130
Chlorobenzene	50.0	48.2	96	70 - 130

Table 2.5 (cont.) Results of the LCS Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy

Sample ID: LCS BS 94

Analyte	LCS Spike Added µg/Kg	LCS Result µg/Kg	LCS % Recovery	QC Limits % Recovery
1,1-Dichloroethene	50.0	59.6	51	119 - 130
Benzene	50.0	54.5	49	109 - 130
Trichloroethene	50.0	52.3	49	105 - 130
Toluene	50.0	56.7	51	113 - 130
Chlorobenzene	50.0	54.3	51	109 - 130

Sample ID: LCS BS 95

Analyte	LCS Spike Added µg/Kg	LCS Result µg/Kg	LCS % Recovery	QC Limits % Recovery
1,1-Dichloroethene	50.0	55.7	51	111 - 130
Benzene	50.0	52.7	49	105 - 130
Trichloroethene	50.0	50.3	49	101 - 130
Toluene	50.0	54.6	51	109 - 130
Chlorobenzene	50.0	52.2	51	104 - 130

Sample ID: LCS BS 96

Analyte	LCS Spike Added µg/Kg	LCS Result µg/Kg	LCS % Recovery	QC Limits % Recovery
1,1-Dichloroethene	50.0	54.9	51	110 - 130
Benzene	50.0	53.2	49	106 - 130
Trichloroethene	50.0	50.0	49	100 - 130
Toluene	50.0	52.6	51	105 - 130
Chlorobenzene	50.0	50.7	51	101 - 130

Table 2.5 (cont.) Results of the LCS Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results based on Dry Weight

Sample ID: LCS AM 08

Analyte	LCS Spike Added µg/Kg	LCS Result µg/Kg	LCS % Recovery	QC Limits % Recovery
1,1-Dichloroethene	50.0	62.7	125	70 - 130
Benzene	50.0	57.9	116	70 - 130
Trichloroethene	50.0	55.6	111	70 - 130
Toluene	50.0	56.5	113	70 - 130
Chlorobenzene	50.0	51.4	103	70 - 130

Sample ID: LCS AM 09

Analyte	LCS Spike Added µg/Kg	LCS Result µg/Kg	LCS % Recovery	QC Limits % Recovery
1,1-Dichloroethene	50.0	55.4	111	70 - 130
Benzene	50.0	50.4	101	70 - 130
Trichloroethene	50.0	49.4	99	70 - 130
Toluene	50.0	53.2	106	70 - 130
Chlorobenzene	50.0	51.1	102	70 - 130

Sample ID: LCS AW 69

Analyte	LCS Spike Added µg/Kg	LCS Result µg/Kg	LCS % Recovery	QC Limits % Recovery
1,1-Dichloroethene	50.0	51.1	102	70 - 130
Benzene	50.0	52.2	106	70 - 130
Trichloroethene	50.0	47.5	95	70 - 130
Toluene	50.0	49.3	99	70 - 130
Chlorobenzene	50.0	43.4	87	70 - 130

Table 2.6 Results of MS/MSD Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Sample No. : 04112/2x

Analyte	Sample Result µg/kg	MS Spike Added µg/kg	MSD Spike Added µg/kg	MS Result µg/kg	MSD Result µg/kg	MS % Rec.	MSD % Rec.	RPD	QC Limits % Recovery	QC Limits RPD
1,1-Dichloroethene	U	118	118	187	182	159	155	3	59 - 172	22
Benzene	U	118	118	135	129	115	110	4	66 - 142	21
Trichloroethene	U	118	118	109	102	93	87	6	62 - 137	24
Toluene	U	118	118	137	131	116	111	4	59 - 139	21
Chlorobenzene	U	118	118	125	118	106	101	5	60 - 133	21

msv 805

Sample No. : 04111/100x

Analyte	Sample Result µg/kg	MS Spike Added µg/kg	MSD Spike Added µg/kg	MS Result µg/kg	MSD Result µg/kg	MS % Rec.	MSD % Rec.	RPD	QC Limits % Recovery	QC Limits RPD
1,1-Dichloroethene	U	5950	5950	5610	5690	94	96	2	59 - 172	22
Benzene	U	5950	5950	5740	5760	96	97	0	66 - 142	21
Trichloroethene	561	5950	5950	6900	6920	106	107	0	62 - 137	24
Toluene	U	5950	5950	5680	5760	95	97	1	59 - 139	21
Chlorobenzene	U	5950	5950	5630	5710	95	96	1	60 - 133	21

msv 806

Sample No. : 04113/500x

Analyte	Sample Result µg/kg	MS Spike Added µg/kg	MSD Spike Added µg/kg	MS Result µg/kg	MSD Result µg/kg	MS % Rec.	MSD % Rec.	RPD	QC Limits % Recovery	QC Limits RPD
1,1-Dichloroethene	U	30100	30100	27300	28000	91	93	2	59 - 172	22
Benzene	U	30100	30100	29000	29800	96	99	3	66 - 142	21
Trichloroethene	U	30100	30100	29400	30100	98	100	2	62 - 137	24
Toluene	U	30100	30100	28800	29900	96	99	4	59 - 139	21
Chlorobenzene	U	30100	30100	28500	29600	95	98	4	60 - 133	21

msv 807

Sample No. : 15168/500x

Analyte	Sample Result µg/kg	MS Spike Added µg/kg	MSD Spike Added µg/kg	MS Result µg/kg	MSD Result µg/kg	MS % Rec.	MSD % Rec.	RPD	QC Limits % Recovery	QC Limits RPD
1,1-Dichloroethene	U	30500	30500	36100	30800	119	101	16	59 - 172	22
Benzene	U	30500	30500	31200	30500	102	100	2	66 - 142	21
Trichloroethene	3590	30500	30500	36800	33200	99	97	2	62 - 137	24
Toluene	U	30500	30500	30300	29700	99	98	2	59 - 139	21
Chlorobenzene	U	30500	30500	29700	29200	97	96	2	60 - 133	21

msv 808

Table 2.6 (cont.) Results of MS/MSD Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Sample No. : 04131

Analyte	Sample Result µg/kg	MS Spike Added µg/kg	MSD Spike Added µg/kg	MS Result µg/kg	MSD Result µg/kg	MS % Rec.		MSD % Rec.		RPD	QC Limits % Recovery	QC Limits RPD
1,1-Dichloroethene	U	53.2	53.2	63.0	67.3	118		127		7	59 - 172	22
Benzene	U	53.2	53.2	55.5	54.2	104		102		3	66 - 142	21
Trichloroethene	44.5	53.2	53.2	120	130	141	*	160	*	13	62 - 137	24
Toluene	U	53.2	53.2	60.7	61.8	114		116		2	59 - 139	21
Chlorobenzene	U	53.2	53.2	54.0	52.9	101		99		2	60 - 133	21

msv 810

Sample No: 19162

Analyte	Sample Result µg/kg	MS Spike Added µg/kg	MSD Spike Added µg/kg	MS Result µg/kg	MSD Result µg/kg	MS % Rec.	MSD % Rec.	RPD	QC Limits % Recovery	QC Limits RPD
1,1-Dichloroethene	U	287	287	370	0	129	129	0	59 - 172	22
Benzene	U	287	287	311	301	108	105	3	66 - 142	21
Trichloroethene	14.7	287	287	303	297	100	98	2	62 - 137	24
Toluene	U	287	287	334	331	116	115	1	59 - 139	21
Chlorobenzene	U	287	287	311	0	108	107	1	60 - 133	21

msv 811

Sample No: 23884

Analyte	Sample Result µg/kg	MS Spike Added µg/kg	MSD Spike Added µg/kg	MS Result µg/kg	MSD Result µg/kg	MS % Rec.	MSD % Rec.	RPD	QC Limits % Recovery	QC Limits RPD
1,1-Dichloroethene	U	294	294	435	470	148	160	8	59 - 172	22
Benzene	U	294	294	304	313	103	107	3	66 - 142	21
Trichloroethene	134	294	294	423	413	98	95	3	62 - 137	24
Toluene	U	294	294	325	326	111	113	2	59 - 139	21
Chlorobenzene	U	294	294	292	292	99	101	2	60 - 133	21

msv 812

Sample No: 04185

Analyte	Sample Result µg/kg	MS Spike Added µg/kg	MSD Spike Added µg/kg	MS Result µg/kg	MSD Result µg/kg	MS % Rec.		MSD % Rec.		RPD	QC Limits % Recovery	QC Limits RPD
1,1-Dichloroethene	233	6020	6020	6820	6930	109		111		2	59 - 172	22
Benzene	280	6020	6020	6140	6350	102		105		3	66 - 142	21
Trichloroethene	12900	6020	6020	11300	11800	0	*	0	*	NC	62 - 137	24
Toluene	259	6020	6020	6180	6360	98		101		3	59 - 139	21
Chlorobenzene	U	6020	6020	5390	5530	89		92		3	60 - 133	21

msv 813

Table 2.6 (cont.) Results of MS/MSD Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Sample No: 23877

Analyte	Sample Result µg/kg	MS Spike Added µg/kg	MSD Spike Added µg/kg	MS Result µg/kg	MSD Result µg/kg	MS % Rec.	MSD % Rec.	RPD	QC Limits % Recovery	QC Limits RPD
1,1-Dichloroethene	74.5	5950	5950	6560	6400	109	106	3	59 - 172	22
Benzene	U	5950	5950	6100	6100	102	103	0	66 - 142	21
Trichloroethene	1040	5950	5950	6870	6890	98	98	0	62 - 137	24
Toluene	U	5950	5950	5940	5900	100	99	1	59 - 139	21
Chlorobenzene	U	5950	5950	5930	5340	91	90	1	60 - 133	21

msv814

Sample No: 23882

Analyte	Sample Result µg/kg	MS Spike Added µg/kg	MSD Spike Added µg/kg	MS Result µg/kg	MSD Result µg/kg	MS % Rec.	MSD % Rec.	RPD	QC Limits % Recovery	QC Limits RPD
1,1-Dichloroethene	420	6100	6100	6480	6490	99	100	1	59 - 172	22
Benzene	U	6100	6100	6180	6270	101	103	1	66 - 142	21
Trichloroethene	1980	6100	6100	7900	8060	97	100	3	62 - 137	24
Toluene	361	6100	6100	6180	6300	95	97	2	59 - 139	21
Chlorobenzene	U	6100	6100	5420	5540	89	91	2	60 - 133	21

msv815

Sample No: 00394

Analyte	Sample Result µg/kg	MS Spike Added µg/kg	MSD Spike Added µg/kg	MS Result µg/kg	MSD Result µg/kg	MS % Rec.		MSD % Rec.	RPD	QC Limits % Recovery	QC Limits RPD
1,1-Dichloroethene	10.5	3050	3050	3310	3580	108		117	8	59 - 172	22
Benzene	U	3050	3050	3110	3040	102		100	2	66 - 142	21
Trichloroethene	1700	3050	3050	5900	5800	138	*	134	3	62 - 137	24
Toluene	10.4	3050	3050	3190	3120	104		102	2	59 - 139	21
Chlorobenzene	U	3050	3050	3010	2990	99		98	1	60 - 133	21

msv816

Sample No: 19154

Analyte	Sample Result µg/kg	MS Spike Added µg/kg	MSD Spike Added µg/kg	MS Result µg/kg	MSD Result µg/kg	MS % Rec.		MSD % Rec.		RPD	QC Limits % Recovery	QC Limits RPD
1,1-Dichloroethene	U	53.8	53.8	65.7	61.1	122		114		7	59 - 172	22
Benzene	U	53.8	53.8	54.4	52.3	101		97		4	66 - 142	21
Trichloroethene	59.8	53.8	53.8	94.3	77.1	64		32	*	67 *	62 - 137	24
Toluene	U	53.8	53.8	57.8	55.4	108		103		4	59 - 139	21
Chlorobenzene	U	53.8	53.8	49.7	48.6	92		90		2	60 - 133	21

msv820

Table 2.6 (cont.) Results of MS/MSD Analysis for VOC in Soil
WA # 0-198 Vestal Chlorinated Hydrocarbon Source Assessment/Remedy
Results Based on Dry Weight

Sample No. : 23893

Analyte	Sample Result µg/kg	MS Spike Added µg/kg	MSD Spike Added µg/kg	MS Result µg/kg	MSD Result µg/kg	MS % Rec.	MSD % Rec.	RPD	QC Limits % Recovery	QC Limits RPD
1,1-Dichloroethene	438	5000	5000	6030	5930	112	110	2	61 - 145	14
Benzene	U	5000	5000	4770	4750	95	95	0	76 - 127	11
Trichloroethene	124	5000	5000	5330	5210	104	102	2	71 - 120	14
Toluene	U	5000	5000	5150	5100	103	102	1	76 - 125	11
Chlorobenzene	U	5000	5000	4920	4820	98	96	2	75 - 130	11

msv 817

Sample No. : 00384

Analyte	Sample Result µg/kg	MS Spike Added µg/kg	MSD Spike Added µg/kg	MS Result µg/kg	MSD Result µg/kg	MS % Rec.	MSD % Rec.	RPD	QC Limits % Recovery	QC Limits RPD
1,1-Dichloroethene	U	5950	5950	6340	6510	107	109	3	59 - 172	22
Benzene	U	5950	5950	5830	5970	98	100	2	66 - 142	21
Trichloroethene	454	5950	5950	6560	6740	103	106	3	62 - 137	24
Toluene	U	5950	5950	6440	6660	108	112	3	59 - 139	21
Chlorobenzene	U	5950	5950	6300	6480	106	109	3	60 - 133	21

msv819

) 32 ... CHAIN OF CUSTODY RECORD

PA Contract ~~68-C99-223~~ EP-C-04-032

Project Name: Vestal ... rinated Hydrocarbons
Project Number: 0-198
LM Contact: N. Woodruff Phone: 732-321-4231

U-F...-000-9
No: 02503
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

0198-DAR-113006

REAC#	Sample No	Sampling Location	Matrix	Dat Collected	# of Bottles	Container/Preservative	VOCs		REAC#	
	04131	SB-001 -0.8'	S	08/21/2006	1	4-oz. glass / 4°C			11753	
	~~04181~~	~~-4.5'~~								
	04182	-5'							11754	
	04183	-10'							11755	
	04184	-12'							11756	
	04185	-15'							11757	
	04186	-17.5'							11758	
	04187	-20'							11759	
	04188	-22.5'							11760	
	04198	-24'							11761	
	04199	-25'							11762	
		~~-3~~								
	04200	-25-30'	water soil						11763	
	15134	-30'	water soil						11764	

076

Matrix:

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:

Received 4°C 8/23/06

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
All / analysis	[signature]	08/22/2006	[signature]	8/23/06	8:30	All/Analysis	[signature]	8/23/06	Y. [signature]	8-23-06	09:00
all / storage	A-FV-[signature]	9/6/06	[signature]	9/6/06	15:05						

, Edison, N
321-4200
Contract ~~68-C99-223~~ EP-C-04-032

CHAIN OF CUSTODY RECORD

Project Name: Vestal C ...rinated Hydrocarbons
Project Number: 0-198
LM Contact: K. Woodruff Phone: 732-321-4231

0-198-000-TO
No: ~~7402514~~
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

0198-DAR-11

Sample Identification

Analyses Requested

C#	Sample No	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative 4°C	VOCs
5	19154	SB-002 - 5'	soil	04/22/2006	1	40z; glass / None	
60	19155	- 10'			1		
67	19156	- 10' dup			1		
68	19157	- 15'					
69	19158	- 20'					
70	19159	SB-003 - 10'					
71	19160	- 15'					
72	19162	SB-004 - 7.5'					
773	19163	- 10'					
774	19161	- 5'					
77c	19164	SB-004 15'					
	19165	SB-004 20'					
077	~~04-145~~ 04181	SB-003-4.5'	soil	04/22/2006	1	40z glass / None	VOC

atrix:

- Air
T-Animal Tissue
L- Drum Liquids
S- Drum Solids
W- Groundwater
- Oil
R-Product
T-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:

Received 4°C JM 8/23/06

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
All / Analysis		04/22/2006		8/23/06	8:30	All / Analysis		8/23/06		8-23-06	09:00
all / storage	A. J.	9/16/06		9/16/06	15:05						

U.S. GPO 2000-5

321 [illegible] CHAIN OF CUSTODY RECORD

A Contract ~~68-C99-223~~ EP-C-04-032 (KW)

0198-DAR-113006

Project Name: [illegible] hydrocarbons
Project Number: O-198
LM Contact: K. Woodruff Phone: 732 321-4231

O-198-C [illegible] -11

No: (KW) ~~802095~~
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

Sample Identification / **Analyses Requested**

EACH	Sample No	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative	VOCs	Soil moisture
7[illegible]	19169	SB005-4'	S	8/22/06	1	4oz glass/ 4°C	X	
799	C4197	SB005-10'			1		X	X
800	19167	SB005-20'			1		X	
801	19168	SB005-23'			1		X	
1802	19170	SB006-4-5'			1		X	
1803	15135	SB007-4.5'		8/23/06	1		X	
1804	15136	SB007-20'			1		X	
1805	15137	SB008-5'			1		X	
1806	15138	SB008-7.5'			1		X	NW
1807	15139	SB008-15'			1		X	X
1808	15140	SB008-20'			1		X	
180[illegible]	15141	SB008-25'			1		X	
181[illegible]	15142	SB009-5'			1		X	
1811	19166	SB009-12.5'			1		X	X
181[illegible]	23719	SB009-14'			1		X	
11813	23718	SB009-17'			1		X	X
11814	23733	SB-009-18'			1		X	
11815	23734	SB-009-24.5			1		X	
11816	23736	SB-009-28.5			1		X	

078

Matrix:

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue

PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:
*Sample 19168 ~~was JM~~ Arrived broken JM 8/24/06
Sample was re-packed into a clean dry sample container JM 8/24/06

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #:

Received 3°C JM 8/24/06

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
all/analysis	K. Woodruff	8/23/06	[illegible]	8/24/06	9:35	All/Analysis	[illegible]	8/24/06	J. [illegible]	8-24-06	10:30
all/VOCs	[illegible]	9/6/06	[illegible]	9/6/06	15:05						

☆ U.S. GPO: 2000-521-151

..., Edison, ...
321-4200
Contract ~~68-C-99-223~~ EP-C-04-032 (RW)

0198-DAR-113006

CHAIN OF CUSTODY RECORD

Project Name: Vestal Hydrocarbons
Project Number: 0-198
LM Contact: K. Woodruff Phone: 732-321-4231

0-198-...0-12
No: (RW) ~~02...36~~
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

Sample Identification | Analyses Requested

...C#	Sample No	Sampling Location	Matrix	Date Collected *	# of Bottles	Container/Preservative	VOCs
...826	23879	SB014-17.5'	S	8/24/06	1	4-oz glass/cool	X
...827	23870	SB011-12.5'	↓	↓	↓	↓	X
...828	23876	(RW) SB012 ~~SB011~~-20'					X
...829	23875	(RW) SB012 ~~SB011~~-18'					X
...830	23740	(RW) SB012 ~~SB011~~-17					X
...831	23877	SB011-19'					X
...832	23739	(RW) SB012 ~~SB011~~-9					X
...833	23873	SB010-18.5'		8/23/06			X
...834	23737	SB010-22'		8/23/06			X
...835	23738	SB010-8.5'		8/23/06			X
...836	23882	(RW) SB012B ~~SB012~~-23'		8/24/06			X
...837	23883	SB016-18'					X
...838	23884	SB015-20'					X
...839	23878	(RW) SB012B ~~SB012~~-6'					X
...840	23881	(RW) SB012-9 ~~SB012~~-16'					X
...841	23880	SB013-9'					X
...842	23885	SB017-20'	↓	↓	↓	↓	X

RW

Matrix:
A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

QA (CLS) 08/24/06

Special Instructions: *Collection date on labels of Samples 23870, 23876, 23875, 23740, 23877, 23739, 23873, 23737, and 23738 is 8/23/06 JM 8/25/06

Ken Woodruff confirmed the sampling date for samples from location SB011 is 8/23/06 JM 8/25/06

Received 5°C JM 8/25/06

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #:

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
all analyses	K. Woodruff	8/24/06	[signature]	8/25/06	9:40	All/Analysis	[signature]	8/25/06	Y. [signature]	8-25-06	10:00
all VOC	A. LV. [signature]	9/6/06	[signature]	9/6/06	15:05						

U.S. GPO: 2000-...

...A Contract ~~68-C99-223~~ EP-C-04-032

(NW) 0198-DAR-113006

Project Name: Vertal Hydrocarbons
Project Number: 0-198
LM Contact: R. Woodruff Phone: 732-321-4231

0-198- -13
No: ~~02597~~ NW
Sheet 01 of ~~01~~ 02 (Do not copy)
(for addnl. samples use new form) NW

Sample Identification | **Analyses Requested**

REAC#	Sample No	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative	VOCs				
11943	00398	SB021-15A	S	8/25/06	1	4 oz glass/ 4°C	X				
11944	00394	SB021-~~15~~ 13 NW	S	8/25/06	1		X				
11945	00393	SB021-15	S	8/25/06	1		X				
11946	23886	SB020-18.5-20	S	8/24/06	1		X				
11947	23888	SB019-17.5	S	8/24/06	1		X				
11948	NW ~~23880~~ 00392	SB026-15'	S	8/25/06	1		X				
11949	00624	SB022-4.5	S	8/25/06	1		X				
11950	00396	SB022-11.5	S	8/25/06	1		X				
11951	00399	SB022-13.5	S	8/25/06	1		X				
11952	00395	SB022-15	S	8/25/06	1		X				
11953	00625	SB022-16	S	8/25/06	1		X				
11954	23891	SB022-20	S	8/25/06	1		X				
11955	00626	SB023-11.5	S	8/25/06	1		X				
11956	00629	SB023-12.5	S	8/25/06	1		X				
11957	00627	SB023-15	S	8/25/06	1		X				
11958	00628	SB023-16	S	8/25/06	1		X				
11959	23894	SB023-20	S	8/25/06	1		X				
11960	00391	SB028-17.5	S	8/25/06	1		X				
11961	23897	SB028-16.5	S	8/25/06	1		X				
11962	00365	SB028-20	S	8/25/06	1		X				

080

Matrix:

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue

PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:

Received 4°C 8/28/06

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
all analyses	R Woodruff	8/26/06	[signature]	8/28/06	8:20	All Analysis	[signature]	8/28/06	A. LV [signature]	8/28/06	09:20

☆ U.S. GPO: 2000-521-151

, Edison, NJ
321-4200
Contract ~~68-C99-223~~ New EPC-04-032

CHAIN OF CUSTODY RECORD

Project Name: Vestal Hydrocarbon
Project Number: 0-198
LM Contact: R. Woodruff Phone: 732-321-4231

0-198-[illegible]-13

New No: 02 ~~01~~ 03 ~~02598~~
Sheet ~~01~~ of ~~01~~ (Do not copy)
(for addnl. samples use new form)

0198-DAR-133006

Sample Identification

Analyses Requested

LC#	Sample No	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative	VOCs
963	23895	SB029-16	S	8/25/06	1	4-oz glass/4°C	X
964	00634	SB029-17.5		8/25/06			X
965	00366	SB029-19		8/25/06			X
966	00630	SB029-20		8/25/06			X
967	00397	SB030-16		8/26/06			X
968	00400	SB030-17.5		8/26/06			X
969	00383	SB030-20		8/26/06			X
970	23896	SB030-15					X
971	00390	SB031-19.5					X
972	00388	SB032-16.5					X
973	00389	SB032-15					X
974	00386	SB032-19					X
975	00387	SB033-12.5					X
976	00385	SB033-18.5					X
977	00384	SB033-19.5					X

NW

RW

Matrix:

A- Air
T-Animal Tissue
L- Drum Liquids
S- Drum Solids
W- Groundwater
- Oil
R-Product
T-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:

Received 4°C JM 8/28/06

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
all / analysis	R Woodruff	8/26/06	[illegible]	8/28/06	8:20	All Analysis	[illegible]	8/28/06	A-HV	8/28/06	09:20
all / Storage	A-HV	8/28/06	[illegible]	8/30/06	11:45						

Con[redacted] EP-C-04-032

0198-DAR-113006

Project [redacted] Tell yd rbd
Project Number: O-198
LM Contact: K Woodruff Phone: 732-321-4231

No: ~~01902~~ 02
Sheet ~~01~~ 02 of ~~01~~ 02 (Do not copy)
(for addnl. samples use new form)

Sample Identification / **Analyses Requested**

REAC#	Sample No	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative	VOCs				
2141	A 15158	SB-042 19.5'	S	09/06/06	1 *	4 oz Glass / 4°C	X				
2142	A 15157	SB-043 20.5'	↓	↓	1	↓	X				
2143	A 23898	SB-044 15.5'			1		X				
2144	A 15155	SB-044 18'			1 *		X				
2145	A 15156	SB-044 20'			1 *		X				
2146	A 15160	SB-045 17.5'			1		X				
2147	A 15167	SB-046 16'			1		X				
2148	A 15178	SB-046 18.5'			1		X				
2149	A 15168	SB-046 20'			1		X				
2150	A 15179	SB-047 20'			1		X				
12151	A 15177	SB-048 20'			1		X				
1215	A 15180	SB-049 21'			1		X				
1215	A 15166	SB-050 19.5'			1		X				
121	A 15154	SB-051 19.5'			1		X				
12155	A 15185	MW-005 25-30'	W	09/06/06	3	40ml VOA / 4°C	X				

082

Matrix:
A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

* High VOCs, FID= 1000 ppm+

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #:

Received 5°C 9/8/06

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
All Analyses	K. Woodruff	9/07/06	[illegible]	9/7/06	1420	Analysis	[illegible]	9/7/06	[illegible]	9/8/06	7:40
All/Analysis	[illegible]	9/8/06	[illegible]	09/08/06	09:30						

..., Edison, NJ
321-420(
Contract ~~68-C99-223~~ EP-C-04-032

0198-DAR-1...006

CHAIN OF CUST...Y RECORD

Project Name: Vestar Hydrocarbons
Project Number: 0-198
LM Contact: R Woodruff Phone: 732-321-4221

0-198-(...-14
No: ~~01901~~ KW
Sheet 01 of 01 02 (Do not copy) KW
(for addnl. samples use new form)

Sample Identification / **Analyses Requested**

LAC#	Sample No	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative	VOCA
4...	A 04108	SB-034 7.5'	S	09/05/06	1	4oz glass/ 4°C	X
24	A 04109	SB-034 18.5'	↓	↓	1	↓	X
25	A 04110	SB-035 7.5'			1		X
26	A 04111	SB-035 19-20'			1		X
27	A 10190	SB-036 19.5'			1		X
28	A 04112	SB-037 6'			1		X
29	A 04113	SB-037 20'			1		X
130	A 04114	SB-038 15'			1 *		X
131	A 04116	SB-038 18'			1 *		X
132	A 10193	SB-038 20'			1 *		X
13?	A 04115	SB-039 17-18			1 *		X
13?	A 10191	SB-039 19.5'			1 *		X
13?	A 10192	SB-039 20'			1 *		X
	~~A15194~~	~~SB-~~ (RW)					
136	A 22409	SB-040 18'		09/05/06	1 *	4oz glass 4°C	X
137	A 22428	SB-040 20'		↓	1		X
2138	A 23899	SB-041 16.5'		09/06/06	1 *		X
2139	A 15159	SB-041 19'		↓	1		X
2140	A 15194	SB-042 17.5	↓	↓	1	↓	X

KW

Matrix:
A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:
* High VOCA, FID = 1000 ppm +

SAMPLES TRANSFERRED FROM
CHAIN OF COUSTODY #:

Received SOC [initials] 9/8/06

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
All/Analyses	R. Woodruff	9/07/06	[signature]	09/07/06	1420	Analysis	[signature]	9/7/06	[signature]	9/8/06	7:40
All/Analysis	[signature]	9/8/06	[signature]	09/08/06	0930						

083

U.S. GPO: 2000-521-151

[illegible] 321-[illegible]
PA Contract ~~68-C99-223~~ EP-C-04-032
0198-DAR-11[illegible]

CHAIN OF CUSTODY RECORD

Project Name: Vertal [illegible]
Project Number: 0-198
LM Contact: K. Woodruff Phone: 732-321-4231

0-1 000-13
No: ~~02599~~ 03
Sheet ~~01~~ of ~~01~~ 03 (Do not copy)
(for addnl. samples use new form)

Sample Identification / **Analyses Requested**

REAC#	Sample No	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative	VOCs				
11978	23892	GW-009	GW	8/25/06	6	40ml VOA/4°C	X				
11979	23893	GW-007	↓	8/25/06	3	↓	X				
11980	23890	GW-020	↓	8/25/06	3	↓	X				
11981	23889	GW-001	↓	8/25/06	3	↓	X				
11982	23887	GW-009 DUP	↓	8/25/06	3	↓	X				
11983	00632	old MW	↓	8/25/06	3	↓	X				

HW

084

Matrix:

A- Air; AT-Animal Tissue; DL- Drum Liquids; DS- Drum Solids; GW- Groundwater; O- Oil; PR-Product; PT-Plant Tissue; PW- Potable Water; S- Soil; SD- Sediment; SL- Sludge; SW- Surface Water; TX-TCLP Extract; W- Water; X- Other

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:

Received 4°C [initials] 8/28/06

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
all analyses	K. Woodruff	8/28/06	[signature]	8/28/06	8:20	All Analysis	[signature]	8/28/06	A. [signature]	8/28/06	09:20
all Storage	A. [signature]	9/20/06	[signature]	9/20/06	11:45						

321-420(
Contract ~~68-C99-223~~ EP-C-04-032

0198-DAR-13009 085

CHAIN OF CUST Y RECORD

Project Name: Vestal Hydrocarbons
Project Number: 0-198
LM Contact: K. Woodruff Phone: 732-321-4231

0-190 100-15
No: ~~1993~~
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

Sample Identification / **Analyses Requested**

C#	Sample No	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative	VOCs					
56	15153	SB055-19'	S	9/7/06	1	4oz glass/4°C	X					
57	15161	SB053-19'	S	↓	1	↓	X					
58	15162	SB052-19.5'	S	↓	1	↓	X					
59	15163	SB054-20'	S	↓	1	↓	X					
60	15164	SB052-7.5'	S	↓	1	↓	X					
61	15165	SB056-19.5'	S	↓	1	↓	X					
62	15174	MW-B	W	↓	3	40ml vial/4°C	X					
63	15175	MW-F	W	↓	3	↓	X					
64	* 15188	MW-A	W	↓	~~3~~ 6 KW	↓	X					
65	15193	MW-A dup	W	↓	3	↓	X					
66	15189	MW-43/44	W	↓	3	↓	X					
6[illegible]	15190	MW-G	W	↓	3	↓	X					

KW KW

Matrix:
A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

* ms/msd

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:

Received SC 7°C 9/8/06

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
All analyses	K. Woodruff	9/8/06	[signature]	8 Sep 06	10:23	All	[signature]	8 Sep 06	[signature]	9/8/06	14:35
All Analysis	[signature]	9/8/06	[signature]	9/8/06	15:25						