



North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
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Director

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Secretary

October 11, 2011

Ms. Carolyn Callihan
Superfund Site Evaluation Section
US EPA Region IV Waste Division
61 Forsyth Street, 11th Floor
Atlanta, GA 30303-3104

Subject: Expanded Pre-CERCLIS Screening Assessment (EPSA)
Sheet Metal Restoration
Asheville, Buncombe County, NC

Dear Ms. Callihan:

This site was pre-screened for potential addition to CERCLIS. Based on findings of this Pre-CERCLIS Screening Assessment (PSA), it is recommended that this site **NOT** be listed on CERCLIS for further study.

Background:

Sheet Metal Restoration (SMR) was identified by CTS Corporation as a potential alternative TCE source for groundwater contamination in the vicinity of the CTS site in a letter sent to Senator Burr and Congressmen Schuler, Donnelly and Souder on September 28, 2009 (Ref. 1). During initial searches, the address for Sheet Metal Restoration was listed as 39 Pinnars Cove Road, however, it was determined that the addresses along Pinnars Cove Road were renumbered during an update of the local 911 system and the current address is 60 Pinnars Cove Road. Mr. Mark Hermann purchased the property in 2003 and operated a sandblasting facility onsite until 2009 when he discontinued operating on a commercial basis. Mr. Hermann now operates the sandblasting facility only sporadically as a hobby. Mr. Hermann used urea, aluminum oxide and/or walnut shells to sandblast fiberglass and sheet metal (Ref. 2). In his response to a 104-E request by EPA Region 4, Mr. Hermann admitted to using acetone in his operations (Ref. 6). The previous owner of the site, Mr. Charles F. Adams, is reported to have operated a spray paint booth in one of the buildings, but this has not been verified. Mr. Adams reported in his 104(e) response to EPA, dated June 15, 2011, that he rented the property during his ownership to his son, Mr. James Adams (Ref. 9). EPA is currently following up with Mr. James Adams to determine if and/or how he operated the paint spray booth. Currently, there is no information indicating that TCE was used and/or disposed of at this property.

November 2010 Soil Vapor Screening:

During the week of November 8, 2010, Harry Zinn and Kay Dechant of NC DENR collected soil vapor readings from 32 locations around the SMR property. Soil vapor screening locations are shown on Figure 1. Nine readings (SMR 01-05 and SMR 13-16) were placed along the driveway between 60 and 68 Pinner's Cove Road. Seven readings (SMR 06-12) were located around the SMR buildings themselves. Nine readings (SMR 17-25) were along Pinner's Cove Road and seven readings (SMR 26-32) were at special points of interest. A 5/8 inch diameter shaft with a dedicated point was driven by a Bosch hammer drill to a depth of 9 feet or to refusal. Holes were 6 feet or deeper, except those near the west side of the main building on the SMR property and those immediately downhill, which were 4 feet or less. Sample depths are noted in Table 1.

Once the holes were driven, a length of Teflon tubing was placed in the holes and the tops sealed to eliminate fresh air intrusion into the holes. A Scientific Ion Phocheck 5000, zeroed out between holes, was attached to the Teflon tubing and run for a minimum of 5 minutes. A 5/8 inch diameter hole 9 feet deep has a volume of 33.13 cubic inches or 0.5429 liters. The pump rate of the Phocheck 5000 is 220 ml/min, therefore, the volume of a nine foot deep hole would be purged after 2.47 minutes. At most holes, observed meter readings started at zero and gradually rose during the first three minutes, then stabilized. Readings were recorded after five minutes. Only at the few holes with higher readings did it take more time for the readings to stabilize. The reading was deemed to be stable if it did not vary by more than 0.01 ppm over a 30 second time period. The drive steel was decontaminated between holes. If the meter did not zero out, the Teflon tubing was changed out, which always then resulted in zero meter readings.

Most of the readings collected around the SMR facility were in the 1 to 4 ppm range. SMR 07, located close to the diesel storage tank behind the main SMR building had a reading of 5.67 ppm. This area had been cut out of the bank in order to construct the main building and refusal was encountered at 4 feet. SMR 03, located approximately 140 feet downhill from the sharp bend in the SMR driveway, had a reading of 53.9 ppm. When the hole was resampled the next day it had a reading of 0.7 ppm. A new hole was installed approximately 3 feet north, SMR 29, and it had a reading of 10.1 ppm. SMR 30 was installed 15 feet north of SMR 03 and had a reading of 0.3 ppm. SMR 31 was installed 3 feet south of SMR 03 and had a reading of 7.15 ppm. SMR 32 was installed 15 feet south of SMR 03 and had a reading of 3.41 ppm. Mr. Hermann inquired if any high readings were encountered and when he was told of the approximate locations of the higher readings in this area, he said that there was possibly an old inactive septic drain field in the general vicinity due west of SMR 03. During the property visit, no floor drains inside any of the buildings were noted and no restroom facilities were identified in any of the buildings that may have been connected to this septic system suggesting that if an old septic tank and drainfield existed, it would have been associated with a house. A review of the Aerial Photographic Analysis of Mills Gap Road Groundwater Contamination Site, by Lockheed Martin for US EPA Region 4 in January 2010, revealed a house was located in the area of the inactive septic system in 1951. The house was replaced by a larger structure, possibly a chicken coop, in 1963. The chicken coop was reduced to the present shop size in 1982 (Ref. 8).

Three additional holes were installed outside the fence at the back of the SMR facilities in areas that did not appear to have been disturbed. SMR 26 is located 20 feet outside the fence in the surface drainage pathway from the southeast corner of the main SMR building. SMR 26 had a reading of 12.8 ppm. SMR 27 is located 15 feet outside the fence at the fence corner located by the southeast corner of the medium sized shed on the SMR facility. SMR 27 had a reading of 0.00 ppb. SMR 28 is located approximately 15 feet outside the fence downhill from SMR 11 and had a reading of 0.00 ppb.

Holes SMR 17 through 25 were all located along Pinners Cove Road and all had readings of 0.00 ppb, except SMR 18 which had a reading of 0.067 ppm (Ref. 3). This location is immediately downgradient from the vehicle parking area for 54 Pinners Cove Road and the level detected is less than those found along the driveway leading to 60 Pinners Cove Road.

November 2010 Soil Vapor Survey Results:

Vapor Screening values are shown in Figure 1 and in Table 1. Low level readings taken in the vicinity of the SMR facilities could be explained by the presence of petroleum hydrocarbons related to the number of vehicles parked in this area and the amount of auto parts found all around the area. SMR 07 had a slightly higher reading but is located in close proximity to the diesel storage tank. The low levels found along the driveway may be attributable to vehicle traffic on the driveway since these locations were within the drainage pathway along the driveway. The locations along Pinners Cove Road were uphill and across the road from the drainage pathway parallel to that road, and this may be a reason these readings were consistently lower than elsewhere.

Two areas were identified that required further investigation. The surface drainage pathway from the southeast corner of the main building on the SMR facility was one. Both SMR 09 inside the fence and SMR 26 outside the fence had elevated readings at 10.4 ppm and 12.8ppm. Also, SMR 03 with the highest reading at 53.9 ppm warranted further investigation. While SMR 29-32 bracketed this location and demonstrated that this is a discrete area, the cause for this elevated reading has not been definitively identified.

May 2011 Soil Sampling Activities:

On May 10, 2011 Harry Zinn and Kay Dechant of NC DENR collected soils at depths and locations closely approximating those with elevated November 2010 vapor screening results, and at two depths at one background location. Soil sampling locations are shown on Figure 1. The Sampling Plan called for the collection of soil samples from 0-2 feet, 2-4 feet and > 4 feet, based on PID readings. Chlorinated solvent release was the main concern at this property so Volatile Organic Compounds (VOCs) were the only analytes tested for.

SMR-004 SS and SMR-005 SB were collected at the location of SMR 26. A hand auger was used to dig to a depth of 2 feet, using a PID to screen the soils every 6 inches. No readings were detected and SMR-004 SS was collected from 1.5 feet to 2 feet depth. The auger was changed and the hole was continued to a depth of 4 feet while screening the soils every 6 inches. No readings were detected and SMR-005 SB was collected from 3.5 foot to 4 foot depth. The auger

was changed; however, auger refusal was encountered at 4.5 foot depth. Another hole was attempted approximately 2 feet north of the previous location. This hole also met auger refusal at 4.5 feet. No sample was collected from greater than 4 foot depth for this location.

A second location was in the vicinity of SMR 03. Three attempts were made to auger in this location, first at SMR 03, second 1 foot north and third 1 foot east, with each attempt meeting auger refusal within 1 foot. It appeared that the entire bank was composed of soil and coarse rubble. After relocating approximately 7 feet east to the bottom of the bank, samplers augured to 2 foot depth with no detections on the PID. SMR-001 SS was collected from 1.5 to 2 foot depth.

After the auger was changed, the hole was continued to 4 foot depth with no PID detections. SMR-002 SB was collected from 3.5 to 4 foot depth. After the auger was changed the hole was continued to 7.5 foot depth where auger refusal was encountered. Since no PID detections were found SMR-003 SB was collected from 7 to 7.5 foot depth.

The background sample was located immediately north of where the Hermann driveway turns left off of the common driveway shared with 68 Pinnars Cove Road. We augured to 2 foot depth with no PID detections. SMR-007 SS was collected from 1.5 to 2 foot depth. Gravel was encountered from 0 to 8 inches. All other soils in this location and the other sample locations were red sandy clay. After the auger was changed, the hole was continued to 4 foot depth with no PID detections. SMR-008 SB was collected from 3.4 to 4 foot depth. A gravel layer was encountered at 4.5 foot depth. The layer was at least 6 inches thick. Since all of the soils were similar in soil type, no sample was collected from greater than 4 foot depth at the background location (Ref. 4).

May 2011 Soil Analytical Results:

One contaminant was detected in one sample. Acetone (11 ug/kg) was detected in SMR-005-SB. This sample was collected from 3.5 to 4 foot depth in the drainage pathway coming from the main building on the SMR property. The Regional Screening Level (RSL) for residential soils is 61,000 mg/kg; the RSL for soil to groundwater (Risk Based) is 4.5 mg/kg and RfD is 70,000 mg/kg. The North Carolina Soil Remedial Goal (SRG) is 12,000 mg/kg and the SRG for the protection of groundwater is 24 mg/kg (Ref. 5).

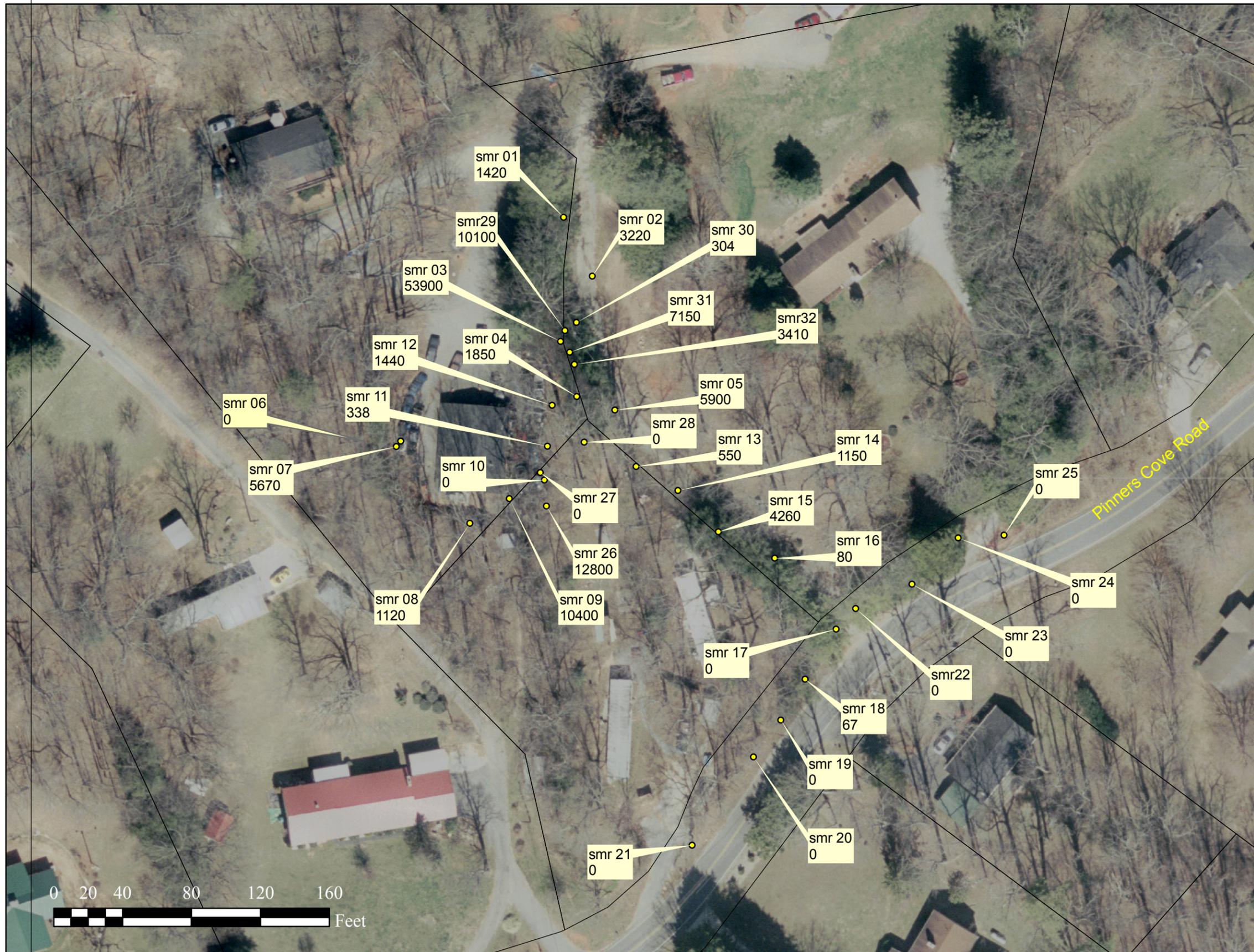
Conclusions:

The November 2010 soil vapor screening identified two areas that required further investigation. Surface soil and soil boring samples were collected on May 10, 2011 from these suspect areas as well as from a background location. Analysis of these samples did not document a release of chlorinated solvents, particularly TCE, from the property. While acetone was detected in one soil boring sample, the level was well below any applicable benchmarks. No release of VOC contamination from the property to the groundwater is suspected. Because of these results, the North Carolina Superfund Section recommends that this site **NOT** be listed on CERCLIS for further study.

Table 1
Sheet Metal Restoration EPSA
Soil Vapor Sampling Results 11-2010

Sample Location	GPS Rdg	Sample Depth (ft)	Lat	Long	HAE	East	North	MSL	PID Rdg (ppb)
smr 01	R110814A.cor	8.0	35.4959614	-82.501531	2343.992	653811.9	957993.5	2442.433	1420
smr 02	R110815A.cor	8.0	35.4958693	-82.501471	2351.955	653777.8	958010.1	2450.397	3220
smr 03	R110815C.cor	8.5	35.4957638	-82.501529	2352.556	653740	957991.7	2450.999	53900
smr 04	R110815D.cor	7.5	35.4956768	-82.501493	2346.79	653708	958001.1	2445.234	1850
smr 05	R110816A.cor	6.0	35.4956574	-82.501418	2336.023	653700.1	958023.2	2434.468	5900
smr 06	R110908A.cor	1.5	35.4955956	-82.501834	2349.358	653682	957898.8	2447.8	0
smr 07	R110909A.cor	4.0	35.4955869	-82.501842	2346.616	653678.9	957896.2	2445.058	5670
smr 08	R110909C.cor	4.0	35.4954689	-82.501693	2324.338	653634.5	957938.9	2422.782	1120
smr 09	R110909D.cor	9.0	35.4955106	-82.501618	2340.963	653648.8	957961.9	2439.407	10400
smr 10	R110909E.cor	6.0	35.4955422	-82.501551	2353.02	653659.6	957982.3	2451.465	0
smr 11	R110910A.cor	9.0	35.495596	-82.501547	2358.126	653679.1	957984.1	2456.571	338
smr 12	R110910B.cor	9.0	35.4956615	-82.50154	2339.277	653702.9	957986.9	2437.721	1440
smr 13	R110911A.cor	9.0	35.4955689	-82.501373	2346.448	653667.5	958035.6	2444.894	550
smr 14	R110911B.cor	7.0	35.495533	-82.501289	2329.923	653653.5	958059.9	2428.37	1150
smr 15	R110911C.cor	7.0	35.4954696	-82.501207	2340.804	653629.6	958083.5	2439.252	4260
smr16	R110911D.cor	6.0	35.4954304	-82.501096	2317.273	653614.2	958116.2	2415.722	80
smr 17	R110913A.cor	9.0	35.495321	-82.500971	2319.602	653573.1	958151.8	2418.053	0
smr 18	R110913B.cor	9.0	35.4952399	-82.501028	2321.061	653544.2	958133.8	2419.512	67
smr 19	R110914A.cor	6.0	35.4951731	-82.501073	2298.88	653520.4	958119.7	2397.332	0
smr 20	R110914B.cor	9.0	35.4951129	-82.501124	2327.401	653499	958103.8	2425.852	0
smr 21	R110914C.cor	9.0	35.4949691	-82.501237	2307.304	653447.9	958068.1	2405.757	0
smr22	R111008A.cor	6.5	35.495355	-82.500934		653585.1	958163.5		0
smr 23	R111008B.cor	5.0	35.4953972	-82.500826	2317.395	653599.3	958196	2415.846	0
smr 24	R111009A.cor	9.0	35.4954731	-82.500739	2307.726	653626	958222.9	2406.178	0
smr 25	R111009B.cor	3.0	35.49548	-82.50065	2304.714	653627.6	958249.4	2403.166	0
smr 26	R111009C.cor	3.0	35.4955007	-82.501545	2350.908	653644.5	957983.6	2449.353	12800
smr 27	R111010A.cor	3.0	35.4955539	-82.501559	2328.842	653664	957979.9	2427.287	0
smr 28	R111010B.cor	6.0	35.4956046	-82.501475	2336.384	653681.5	958005.5	2434.829	0
smr29		5.5	35.495781	-82.501521		653746.2	957994.2		10100
smr 30	R111011A.cor	8.5	35.4957947	-82.501499	2336.975	653750.9	958000.9	2435.418	304
smr 31	R111011B.cor	5.5	35.495747	-82.50151	2344.654	653733.7	957997	2443.098	7150
smr32		8.7	35.495728	-82.5015		653726.7	957999.9		3410

Locations are approximated on Figure 1. Locations were approximated on Arcmap and the coordinates were referenced from the digital aerial photos supplied by NC OneMap for Buncombe County. No field gps data is available for these locations



Legend

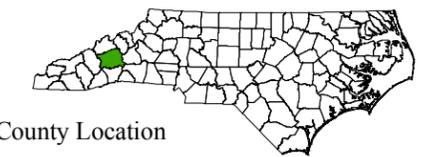
● SMR Sampling 2010

□ Property Line

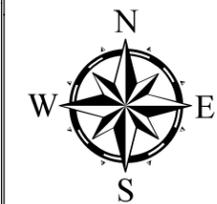
Sample Location
PID Reading (ppb equivalent)

Aerial base is 2006 imagery. Available at <http://www.nconemap.com/>.

Property lines as provided by Buncombe County at <http://www.buncombecounty.org/governing/depts/GIS/>.



County Location



Map Extent

**November 2010
Soil Vapor Sample Locations**

Site Name: **Sheet Metal Restoration**

Site Number: NCN 000 410 573

Date: November 29, 2010

Figure: 1

Scale: As Shown

Prepared by:





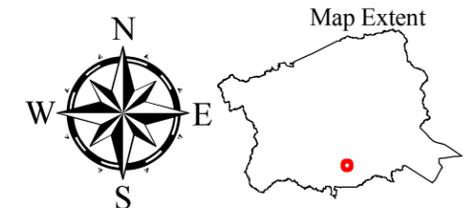
Legend

- Soil Vapor Samples
- Soil Samples

Aerial base is 2006 imagery. Available at <http://www.nconemap.com/>.

Property lines as provided by Buncombe County at <http://www.buncombecounty.org/governing/depts/GIS/>.

County Location



**Soil Sample Locations
Phase 2**

Site Name: **Sheet Metal Restoration**

Site Number: NCN 000 410 573

Date: October 7, 2011

Figure: 2

Scale: As Shown

Prepared by:



Reference 1



EveryWhere. EveryDay.

U.S. HOUSE OF REPRESENTATIVES
OFFICE OF
REGIONAL ADMINISTRATOR

2009 SEP 31 A 8:50

September 28, 2009

VIA UPS SECOND DAY DELIVERY

The Honorable Richard Burr
217 Russell Senate Office Building
Washington, D.C. 20510

The Honorable Heath Shuler
U.S. House of Representatives
422 Cannon House Office Building
Washington, D.C. 20515

The Honorable Joe Donnelly
U.S. House of Representatives
1218 Longworth House Office Building
Washington, D.C. 20515

The Honorable Mark Souder
U.S. House of Representatives
2231 Rayburn House Office Building
Washington, D.C. 20515

Re: The Mills Gap Road Environmental Site, Skyland, North Carolina

Dear Senator Burr, Congressman Shuler, Congressman Donnelly and Congressman Souder:

During the course of the last seven years, CTS Corporation ("CTS"), an Indiana corporation with its headquarters in Elkhart, Indiana and an employer of close to four hundred people in the Elkhart County, Indiana, area, has cooperated with the United States Environmental Protection Agency ("EPA") and the State of North Carolina Department of Environment and Natural Resources ("NCDENR") in investigating and remediating the Site on Mills Gap Road in Buncombe County, Skyland, North Carolina, formerly owned by CTS of Asheville, Inc., and owned by Mills Gap Road Associates since 1987 (the "Site").

The work in progress by CTS at the Site, under the auspices of EPA, includes soil vapor extraction and ozone oxidation systems, both of which remove contamination from the Site. In addition, CTS is voluntarily completing a comprehensive Site investigation under the oversight of NCDENR to determine the nature, extent and location of groundwater contamination at the Site, as a prelude to performing any groundwater remediation that may be necessary.

Despite all of the work that CTS has done at the Site to date, I am advised that a Federal investigation was launched earlier this year with respect to EPA Region 4's past handling of the Site. Further, EPA currently is engaged, for at least the third time, in an effort to score the Site, to determine if it might qualify for inclusion on the National Priorities List ("NPL"). EPA recently disclosed (Exhibit 1) that its original score for the Site was "5.3" and that now it is

“16.96,” which is not even close to the 28.5 score needed for NPL inclusion. Yet, EPA continues to re-evaluate the score.

Federal, State and local public officials’ interest in this Site has been fueled by vocal members of the general public in the local Asheville area, who apparently have focused all of their attention on this Site. It seems obvious that these local citizens are not aware of the many known users of TCE, as well as other potential sources of TCE contamination, that are in their midst. The EPA needs to investigate and identify these other sources.

I. There Are Other Possible TCE Sources that EPA Should Review

A. Hazardous Waste Generators

Several of EPA’s own databases contain relevant information about other known, likely users of chlorinated solvents in areas in and around the Site. Below is a partial list of possible sources, based upon public records, either compiled by or readily accessible to, EPA (Exhibit 2).

LISTED HAZARDOUS WASTE	HAZARDOUS WASTE GENERATOR
<p>F001: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OF MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004 AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.</p>	<p>Welch Allyn Company – 95 Old Shoals Road</p> <p>Alliance Carolina Tool and Mold – Glenn Bridge Road</p> <p>Soil and Material Engineers, Inc. – 44 Buck Shoals Road</p> <p>Asheville Industries – Glen Bridge Road US 25</p>
<p>F002: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLORO BENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLORO BENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND</p>	<p>Conner Motors – 270 Mills Gap Road</p> <p>Gerber Products Company – 1840 Hendersonville Road</p> <p>Varsity Dry Cleaners – 1800 Hendersonville Road</p>

LISTED HAZARDOUS WASTE	HAZARDOUS WASTE GENERATOR
STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.	
<p>F003: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.</p>	<p>Pechiney Plastic Packaging – 3055 Sweeten Creek Road</p> <p>Tyco Electronics – 3165 Sweeten Creek Road</p> <p>Gerber Products Company – 1840 Hendersonville Road</p> <p>Volvo Construction Equipment – 2169 Hendersonville Road</p> <p>Welch Allyn Company – 95 Old Shoals Road</p>
<p>F004: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES (Emphasis added).</p>	<p>Conner Motors – 270 Mills Gap Road</p>
<p>F005: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES</p>	<p>Pechiney Plastic Packaging – 3055 Sweeten Creek Road</p>

B. Conner Motors/South Park Storage LLC, 270 Mills Gap Road

The property address for Conner Motors (listed as a Hazardous Waste Generator in EPA's database; see above) includes the South Park Storage, LLC location. The property is located across Mills Gap Road from the Site i.e., on the same side of the road as the Oaks Subdivision. The property cards (Exhibit 3) for the location indicate (and area photographs during the relevant years confirm) that the location was operated as "auto repair/tire" and "repair garage/body shop," suggestive of possible TCE usage. EPA has found other auto repair locations linked to TCE usage (Exhibit 4).

C. Carolina Insulation of Asheville, Inc.

EPA recently announced it had sampled the well at 14 Chapel Hill Church Road and found TCE. Carolina Insulation of Asheville, Inc. has operated at that location since 1991 (Exhibit 5). Various business directories indicate that the business involves insulation in connection with heating, ventilation and air conditioning ("HVAC"). It is well documented (Exhibit 6) that various solvents and adhesives are used in the process of installing insulation and HVAC components.

The location is also served by a private well and/or septic field. In fact, most, if not all, of the homes within the Chapel Hill Church Road neighborhood and the Oaks Subdivision either are, or were in the past, on private wells and with active septic fields. (See points regarding private wells and septic fields, below).

D. 1 Pinners Cove Road

This location housed a meth lab until 2006 when the resident was arrested (Exhibit 7). TCE has been routinely found by EPA at meth lab locations (Exhibit 8).

E. 39 Pinners Cove Road/60 Pinners Cove Road

This location is home to a sheet metal restoration business that specializes (among other things) in cleaning services and paint removal (Exhibit 9). The aerial photo on the Buncombe County GIS web site for the parcel at 60 Pinners Cove Road clearly shows this operation (Exhibit 10). EPA advises through its web site that TCE is used in "paint removers/strippers" (Exhibit 11).

F. 54 Pinners Cove Road

This location is owned by a former CTS of Asheville, Inc. employee who purchased plating equipment and a TCE degreaser from CTS in the mid-1980's. It appears that his business, known as Arden Electroplating, may have used the 54 Pinners Cove Road location for

some period of time. TCE use continued after the equipment was purchased from CTS of Asheville, Inc. (Exhibit 12).

II. EPA Should Identify and Investigate Properties with Past or Current Private Septic Systems

EPA knows that chlorinated solvents, including TCE, have been routinely used as additives in on-site wastewater treatment systems, commonly referred to as septic systems. In its “Special Issues Fact Sheet 1,” (Exhibit 13) EPA notes that such solvents can cause groundwater contamination, stating:

Organic solvents, often chlorinated hydrocarbons (e.g., methylene chloride, trichloroethylene) commonly used as degreasers and marketed for their ability to break down oils and grease. Organic solvents represent significant risks to ground water and wastewater treatment processes. These products can destroy resident populations of decomposer and other helpful microorganisms in the treatment system. Use of products containing organic solvents in onsite treatment systems is banned in many states. Introduction of organic solvents into onsite systems located in states that ban the use of these products may trigger liability issues if ground water becomes contaminated. (Emphasis Added).

In its “Onsite Wastewater Treatment Systems Manual” (Exhibit 14), EPA also notes that:

Almost every commonly used domestic product—cleaners, cosmetics, deodorizers, disinfectants, pesticides, laundry products, photographic products, paints, preservatives, soaps, and medicines—contains pollutants that can contaminate ground water. (p. 3-17).

The key responsibilities of the homeowner, to avoid contaminating groundwater, is to:

Dispose of all solvents, paints, antifreeze, and chemicals through local recycling and hazardous waste collection programs and avoiding disposal of toxic and hazardous materials in the wastewater stream. (Id.).

Finally, as the North Carolina Extension Cooperative Extension Service concludes:

If inadequately treated septic tank effluent enters groundwater, your well water supply and that of others nearby can be contaminated. In this case, you might unintentionally “recycle”

September 28, 2009

Page 6

this poorly treated septic tank effluent into your home with your drinking water supply. (Exhibit 15).

EPA knows that the most likely source of the contamination within the Oaks Subdivision is a local source within the Subdivision itself. In the June 17, 2009, "Trip Report – Packer Testing and Domestic Well Sampling," (Exhibit 16) EPA's contractor, Lockheed Martin Technology Services, advised EPA of the following concerning the Oaks Subdivision Groundwater contamination:

[T]he spatial distribution of toluene in wells SW-2, 4, and 5 [23 Shelby Drive, 2 Jean Drive and 15 Shelby Drive, respectively] suggests a possible shallow local source of contamination. The highest concentrations of toluene in these three wells consistently occur in the uppermost samples and decrease with depth. Furthermore, the highest concentration (100 ug/L) was detected in the packer sample from 44 to 65 feet in Well SW-5, the shallowest zone sampled in all of the wells. In contrast, both this sampling event and the previous sampling by START detected little or no toluene in Well SW-1. The toluene detections may not necessarily reflect a VOC source (that may include TCE) in or near the Oaks subdivision, but do suggest the possibility that such a source exists. Elevations of the sampled depths in this investigation are considerably below the elevation of the Mills Gap Road Site and therefore are not definitive in determining the source area. (Report, Page 3; emphasis added).

In light of these findings, Lockheed advised EPA that it should conduct four specific tasks to ascertain the location of the source. Specifically, Lockheed told EPA that it was necessary to:

- Collect soil samples to a depth of twenty feet;
- Install shallow groundwater monitor wells;
- Install semi-permanent groundwater monitor wells to depths of approximately 100 feet; and
- Install diffusion samplers in the domestic (private) wells.

EPA should implement these recommendations at the specified location and any others that appear to be local source areas for TCE. By doing so, EPA will help the residential property owners within the area determine what their responsibilities may be for the groundwater contamination. As EPA has stated (Exhibit 17), it:

Will not take enforcement action against an owner of residential property to require such owner to undertake response action or pay response costs, unless the residential homeowner's activities lead to a release or threat of release of hazardous substances, resulting in the taking of a response action at the Site. (Page 4).

III. EPA Should Identify and Investigate Properties with Private Water Supply Wells

In addition to the septic systems, most, if not all, of the homes within the Oaks Subdivision either had, or still have, private drinking water supply wells. Current North Carolina standards (Exhibit 18) are either designed to protect private well owners and prevent contamination of groundwater. Wells that are contaminated must be closed. (*Id.* 15A NCAC 02C .0113). EPA should determine the condition of the wells in the area. Wells that do not meet current standards, or which are contaminated, must be closed in accordance with North Carolina requirements to prevent further groundwater contamination.

IV. EPA Should Disclose Information Concerning Its Scoring Process

On May 28, 2008, CTS asked EPA for information about its latest attempt to score the Site (Exhibit 19), through a Freedom of Information Act request. On July 11 and 21, 2008, CTS received only partial responses (Exhibit 20). On August 19, 2008, CTS filed a timely appeal. (Exhibit 21) Although EPA acknowledged receipt of the Appeal (Exhibit 22), more than a year has passed and EPA has not acted on the Appeal. A September 9, 2009 e-mail inquiry to the EPA Appeal Officer has not yet been answered (Exhibit 23).

President Obama's January 21, 2009 Memoranda (Exhibit 24) on the Freedom of Information Act and Transparency and Open Government mandate full and complete disclosure immediately. A complete picture of the conditions at the Site will only be apparent if all the scoring information is disclosed. Accordingly, EPA should release all of the information related to its scoring process to CTS and the general public.

V. Summary

EPA needs to take the following steps:

- Investigation of all known and likely TCE users in and around the Site including, but not limited to, sending CERCLA Section 104(e) information requests to known or likely TCE users. Such investigation and requests should seek a complete history of chemical usage and operational history.
- Inspection of all private wells and septic systems to determine compliance with State and local legal requirements.

September 28, 2009

Page 8

- Sampling soil and groundwater in and around all known and suspected TCE source areas, as recommended to EPA by Lockheed.
- Disclosure of all information used by EPA and its contractors in its scoring process for the Site, including all information related to previous scoring efforts.

As President Obama stated in the January 2009 Freedom of Information Act Memorandum: "The public must be able to trust the science and scientific process informing public policy decision." The public will better understand the basis for past decisions regarding this Site if EPA completes a thorough investigation of the many other potential sources of TCE present in the local area. Certainly, if the EPA continues to focus only on "re-scoring" this Site without investigating the other potential sources, such actions will not be consistent with the EPA's stated mission of protecting human health and the environment.

Sincerely,



James L. Cummins
Senior Vice President
Administration

Enclosures

cc: Mr. Bill A. Roderick (w/enclosures)
Mr. A. Stanley Melburg (w/enclosures)

Reference 2

MEMO

DATE: June 15, 2010

TO: File

FROM: Harry Zinn, Environmental Engineer
North Carolina DENR, Superfund Section

RE: Meeting with Mark Hermann
Sheet Metal Restoration site
Skyland, Buncombe County, North Carolina

On Wednesday, June 9, 2010 James Bateson (NCDENR), Carolyn Callihan (EPA Region 4) and I met with Mr. Mark Hermann, owner of 60 Pinner's Cove Road (formerly 39 Pinner's Cove Road) to discuss the current and former usage of the property. Mr. Hermann bought the property on July 17, 2003. The former owner, Charles F. Adams, operated a paint spray booth in a portion of one of the buildings on the southern portion of the property. Mr. Hermann did not know of the extent of the operation of the paint booth. Mr. Hermann converted the paint booth into a sand blasting booth where he used urea, aluminum oxide, or walnut shells to sand blast fiberglass and sheet metal. His conversion included paneling the walls of the booth with abrasion resistant sheeting. Paint residue on this new surface showed evidence of spray painting of only three bumpers or other small auto body parts. No other evidence of chemical or solvent stripping or of painting activity was noted. Due to zoning issues in Limestone Township in Buncombe County, Mr. Hermann curtailed his commercial operation, Sheet Metal Restoration Service, in 2009. He is allowed to continue sandblasting for himself and a few friends but not on a commercial basis. This workload has diminished over the last year as well.

Mr. Hermann gave us a tour of the site which is comprised of three main buildings. The first building is a storage building that was used to reclaim the blasting media. The second building had a storage area in the front with the sand blasting booth in the back. There is a small storage room to the side where small containers (less than 1 gallon) of various resins and solvents were stored. The third building was used for storage of various motor and transmission parts.

Behind the main building is located a diesel air compressor. In this area are several 55 gallon plastic drums. Two of these contain diesel fuel; three or four contain gasoline which was purchased for use during the gasoline shortage that was experienced in the area in September 2008. One other drum is used to contain used motor oil.

Reference 3



North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

December 6, 2010

Ms. Carolyn Callihan
Superfund Site Evaluation Section
US EPA Region IV Waste Division
61 Forsyth Street SW, 11th Floor
Atlanta, GA 30303

Subject: Soil Vapor Sampling Trip Report
Sheet Metal Restoration
NCN 000 410 573
Asheville, Buncombe County, NC

Dear Ms. Callihan:

This Trip Report covers the soil vapor sampling site activity conducted by NC DENR at the Sheet Metal Restoration site at 60 Pinnars Cove Road, Asheville, Buncombe County, NC 28803. The purpose of this trip was to test soil vapors at depths up to nine feet deep with a Photo Ionizing Detector (PID) capable of detecting volatile organic compounds down to the part per billion range to determine if a release of volatile organic compounds may have been released from this area.

Background:

Sheet Metal Restoration (SMR) was identified by CTS Corporation as a potential alternative TCE source for groundwater contamination in the vicinity of the CTS site in a letter sent to Senator Burr and Congressmen Schuler, Donnelly and Souder on September 28, 2009. During initial searches, the address for Sheet Metal Restoration was listed as 39 Pinnars Cove Road, however, it was determined that the addresses along Pinnars Cove Road were renumbered during an update of the local 911 system and the current address is 60 Pinnars Cove Road. Mr. Mark Hermann purchased the property in 2003 and operated a sandblasting facility onsite until 2009 when he discontinued operating on a commercial basis. Mr. Hermann now operates more on a hobby basis. Mr. Hermann used urea, aluminum oxide and/or walnut shells to sandblast fiberglass and sheet metal. The previous owner of the site, Mr. Charles F. Adams, is reported to have operated a spray paint booth in one of the buildings, but this has not been verified.

Activities:

During the week of November 8, 2010, Harry Zinn and Kay Dechant of NC DENR collected soil vapor readings from 32 locations around the SMR site. Nine readings (smr 01-05

and smr 13-16) were placed along the driveway between 60 and 68 Pinnars Cove Road, seven readings (smr 06-12) were around the SMR buildings themselves, nine readings (smr 17-25) were along Pinnars Cove Road and the last seven readings (smr 26-32) were at special points of interest. A 5/8 inch diameter shaft with a dedicated point was driven by a Bosch hammer drill to a depth of 9 feet or to refusal. Most holes were 6 feet or deeper. Only the holes around the west side of the main building on the SMR site and those immediately downhill from them were 4 feet or less. Once the hole was driven, a length of Teflon tubing was placed in the hole and the top sealed to eliminate any fresh air intrusion into the hole. A Scientific Ion Phocheck 5000, zeroed out between holes, was attached to the Teflon tubing and run for a minimum of 5 minutes. A 5/8 inch diameter hole 9 feet deep has a volume of 33.13 cubic inches or 0.5429 liters. The pump rate of the Phocheck 5000 is 220 ml/min, therefore, the volume of a nine foot deep hole would be purged after 2.47 minutes. According to Kay Dechant, the meter started at zero and gradually rose during the first three minutes and stabilized until the reading was recorded after five minutes. Only at the few holes with higher readings did it take more time for the readings to stabilize. The reading was deemed to be stable if it did not vary by more than 0.01 ppm over a 30 second time period. The drive steel was decontaminated between holes and if the meter was not able to be zeroed out, the Teflon tubing was changed out which always allowed the meter to be zeroed.

Most of the readings collected around the SMR facility were in the 1 to 4 ppm range. Smr 07, located close to the diesel storage tank behind the main SMR building had a reading of 5.67 ppm. This area had been cut out of the bank in order to construct the main building and refusal was encountered at 4 feet. Smr 03, located approximately 140 feet downhill from the sharp bend in the SMR driveway, had a reading of 53.9 ppm. When the hole was resampled the next day it had a reading of 711 ppb. A new hole was installed approximately 3 feet north, smr 29, and it had a reading of 10.1 ppm. Smr 30 was installed 15 feet north of smr 03 and had a reading of 304 ppb. Smr 31 was installed 3 feet south of smr 03 and had a reading of 7.15 ppm. Smr 32 was installed 15 feet south of smr 03 and had a reading of 3.41 ppm. Mr. Hermann inquired if any high readings were encountered and when he was told of the approximate locations of the higher readings in this area, he said that there was possibly an old inactive septic drain field in the general vicinity due west of smr 03.

Three additional holes were installed outside the fence at the back of the SMR facilities in areas that did not appear to have been disturbed. Smr 26 is located 20 feet outside the fence in the surface drainage pathway from the southeast corner of the main SMR building. Smr 26 had a reading of 12.8 ppm. Smr 27 is located 15 feet outside the fence at the fence corner located by the southeast corner of the medium sized shed on the SMR facility. Smr 27 had a reading of 0.00 ppb. Smr 28 is located approximately 15 feet outside the fence downhill from smr 11 and had a reading of 0.00 ppb.

Smr 17-25 were all located along Pinnars Cove Road and all had readings of 0.00 ppb except smr 18 which had a reading of 67 ppb.

Ms. Callihan
December 6, 2010
Page 3 of 3

Conclusions:

Low level readings taken in the vicinity of the SMR facilities could be explained by the presence of petroleum hydrocarbons related to the number of vehicles parked in this area and the amount of auto parts found all around the area. Smr 07 had a slightly higher reading but is located in close proximity to the diesel storage tank. The low levels found along the driveway may be attributable to vehicle traffic on the driveway since these locations were within the drainage pathway along the driveway. The locations along Pinnars Cove Road were uphill from the drainage pathway along Pinnars Cove Road and may be the reason these readings were consistently lower than elsewhere.

There are two areas that may require further investigation. The surface drainage pathway from the southeast corner of the main building on the SMR facility is one. Both smr 09 inside the fence and smr 26 outside the fence had elevated readings at 10.4 ppm and 12.8ppm. Also, smr 03 with the highest reading at 53.9 ppm warrants further investigation. While smr 29-32 bracket this location and demonstrate that this is a discrete area, the cause for this elevated reading has not been definitively identified.

If you have any questions regarding this Trip Report, please e-mail me at harry.zinn@ncdenr.gov or call (919) 508-8488.

Sincerely,

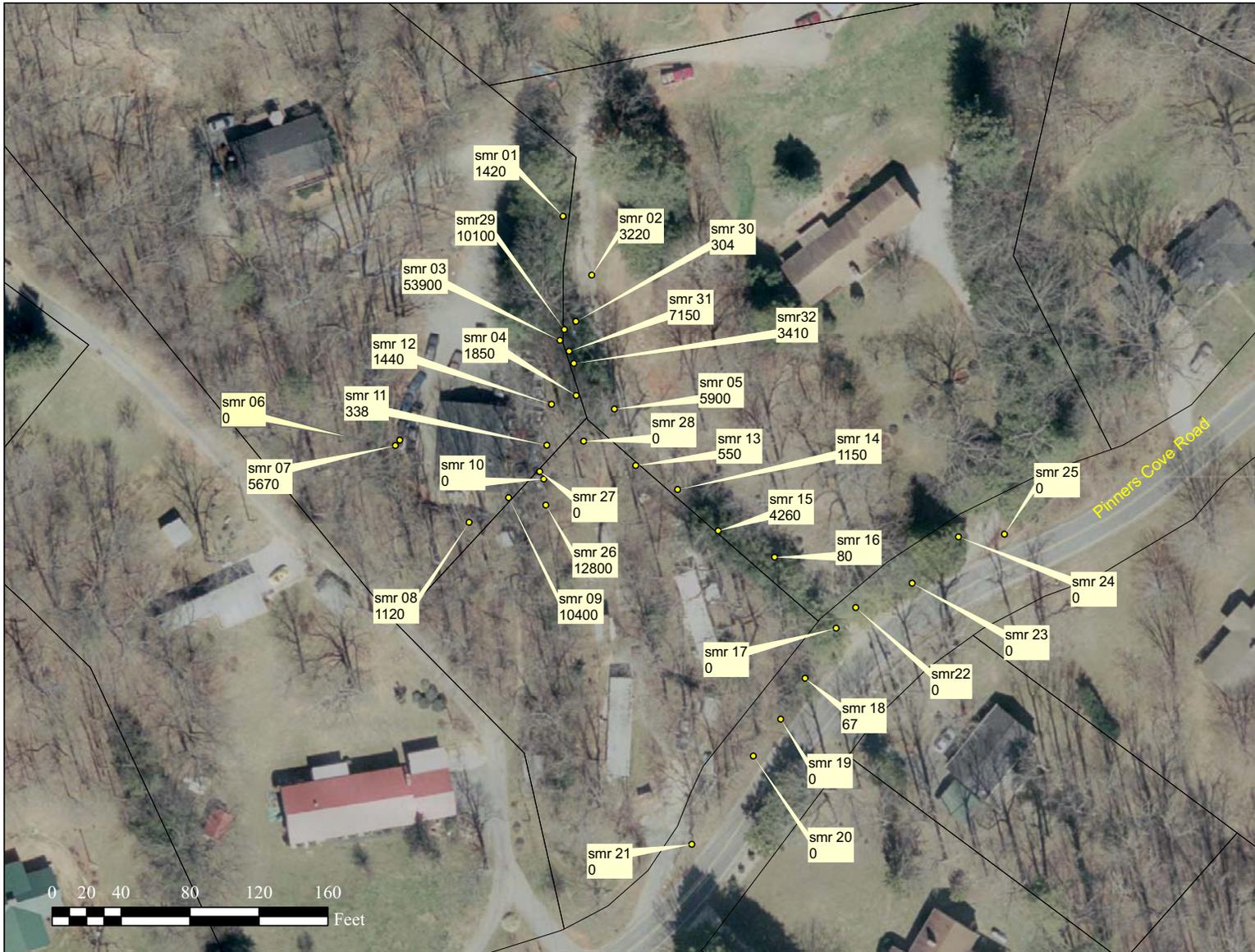

_____, 12-6-10
Harry Zinn Date
Environmental Engineer
NC Superfund Section

Cc: File
Jim Bateson

Soil Vapor Sampling Results 11-2010

Sample Location	GPS Rdg	Sample Depth (ft)	Lat	Long	HAE	East	North	MSL	PID Rdg (ppb)
smr 01	R110814A.cor	8.0	35.4959614	-82.501531	2343.992	653811.9	957993.5	2442.433	1420
smr 02	R110815A.cor	8.0	35.4958693	-82.501471	2351.955	653777.8	958010.1	2450.397	3220
smr 03	R110815C.cor	8.5	35.4957638	-82.501529	2352.556	653740	957991.7	2450.999	53900
smr 04	R110815D.cor	7.5	35.4956768	-82.501493	2346.79	653708	958001.1	2445.234	1850
smr 05	R110816A.cor	6.0	35.4956574	-82.501418	2336.023	653700.1	958023.2	2434.468	5900
smr 06	R110908A.cor	1.5	35.4955956	-82.501834	2349.358	653682	957898.8	2447.8	0
smr 07	R110909A.cor	4.0	35.4955869	-82.501842	2346.616	653678.9	957896.2	2445.058	5670
smr 08	R110909C.cor	4.0	35.4954689	-82.501693	2324.338	653634.5	957938.9	2422.782	1120
smr 09	R110909D.cor	9.0	35.4955106	-82.501618	2340.963	653648.8	957961.9	2439.407	10400
smr 10	R110909E.cor	6.0	35.4955422	-82.501551	2353.02	653659.6	957982.3	2451.465	0
smr 11	R110910A.cor	9.0	35.495596	-82.501547	2358.126	653679.1	957984.1	2456.571	338
smr 12	R110910B.cor	9.0	35.4956615	-82.50154	2339.277	653702.9	957986.9	2437.721	1440
smr 13	R110911A.cor	9.0	35.4955689	-82.501373	2346.448	653667.5	958035.6	2444.894	550
smr 14	R110911B.cor	7.0	35.495533	-82.501289	2329.923	653653.5	958059.9	2428.37	1150
smr 15	R110911C.cor	7.0	35.4954696	-82.501207	2340.804	653629.6	958083.5	2439.252	4260
smr16	R110911D.cor	6.0	35.4954304	-82.501096	2317.273	653614.2	958116.2	2415.722	80
smr 17	R110913A.cor	9.0	35.495321	-82.500971	2319.602	653573.1	958151.8	2418.053	0
smr 18	R110913B.cor	9.0	35.4952399	-82.501028	2321.061	653544.2	958133.8	2419.512	67
smr 19	R110914A.cor	6.0	35.4951731	-82.501073	2298.88	653520.4	958119.7	2397.332	0
smr 20	R110914B.cor	9.0	35.4951129	-82.501124	2327.401	653499	958103.8	2425.852	0
smr 21	R110914C.cor	9.0	35.4949691	-82.501237	2307.304	653447.9	958068.1	2405.757	0
smr22	R111008A.cor	6.5	35.495355	-82.500934		653585.1	958163.5		0
smr 23	R111008B.cor	5.0	35.4953972	-82.500826	2317.395	653599.3	958196	2415.846	0
smr 24	R111009A.cor	9.0	35.4954731	-82.500739	2307.726	653626	958222.9	2406.178	0
smr 25	R111009B.cor	3.0	35.49548	-82.50065	2304.714	653627.6	958249.4	2403.166	0
smr 26	R111009C.cor	3.0	35.4955007	-82.501545	2350.908	653644.5	957983.6	2449.353	12800
smr 27	R111010A.cor	3.0	35.4955539	-82.501559	2328.842	653664	957979.9	2427.287	0
smr 28	R111010B.cor	6.0	35.4956046	-82.501475	2336.384	653681.5	958005.5	2434.829	0
smr29		5.5	35.495781	-82.501521		653746.2	957994.2		10100
smr 30	R111011A.cor	8.5	35.4957947	-82.501499	2336.975	653750.9	958000.9	2435.418	304
smr 31	R111011B.cor	5.5	35.495747	-82.50151	2344.654	653733.7	957997	2443.098	7150
smr32		8.7	35.495728	-82.5015		653726.7	957999.9		3410

Locations plotted on Figure 1 no gps available



Legend

- SMR Sampling 2010
- Property Line
- Sample Location PID Reading

Aerial base is 2006 imagery. Available at <http://www.nconemap.com/>.

Property lines as provided by Buncombe County at <http://www.buncombecounty.org/governing/depts/GIS/>.

County Location



Sample Locations

Site Name: **Sheet Metal Restoration**

Site Number: NCN 000 410 573

Date: November 29, 2010

Figure: 1

Scale: As Shown

Prepared by:



Sheet Metal Restoration
Soil Vapor Sampling 11/2010



smr 01



smr 02



smr 03



smr 04



smr 05



smr 05



smr 06



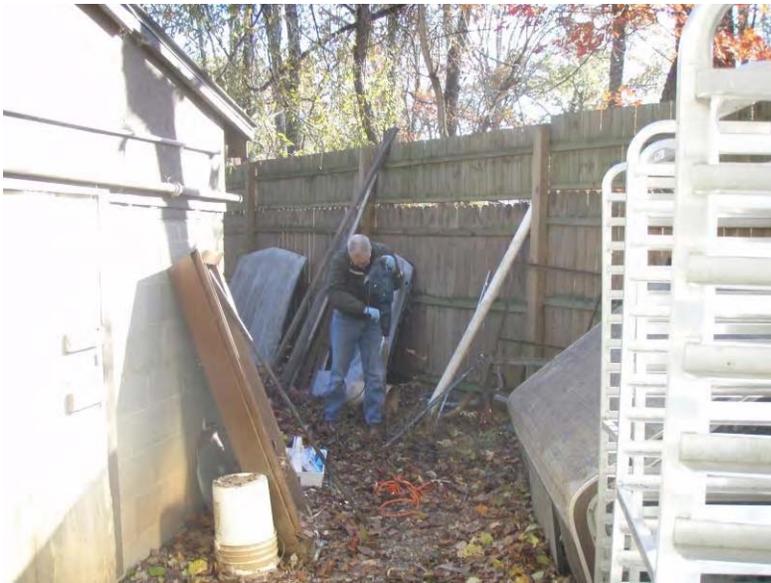
smr 06



smr 07



smr 08



smr 09



smr 10



smr 11



smr 12



smr 13



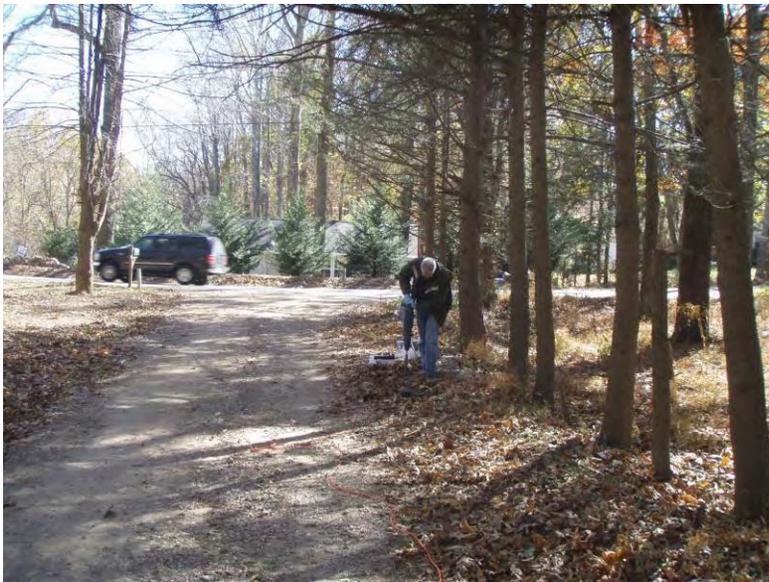
smr 13



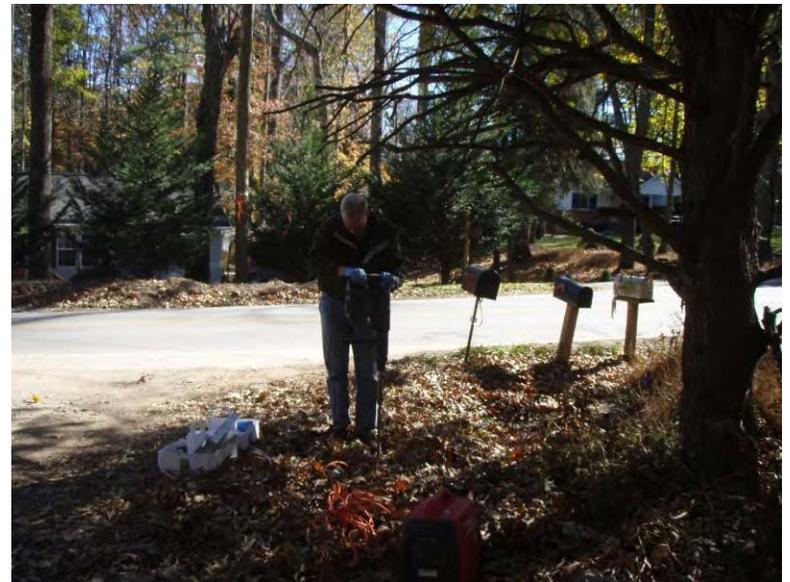
smr 14



smr 15



smr 16



smr 17



smr 18



smr 19



smr 20



smr 21



smr 22



smr 23



smr 24



smr 25



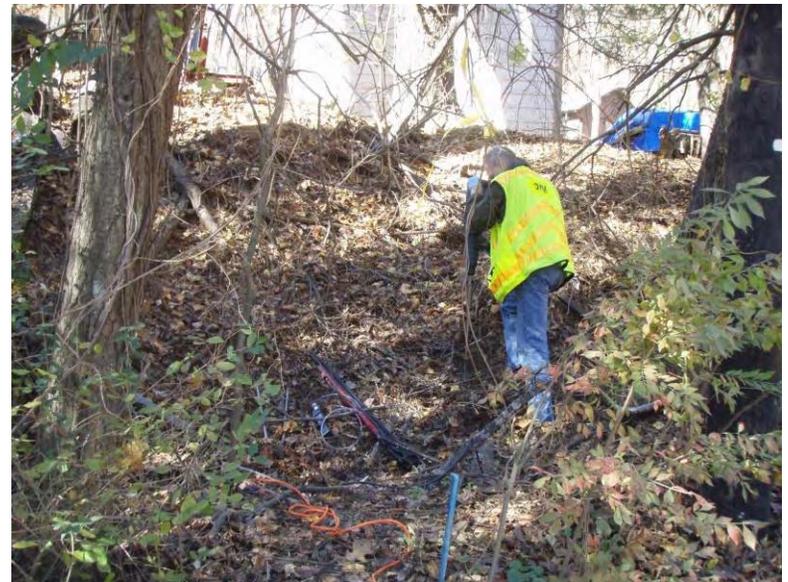
smr 26



smr 27



smr 28



smr 30



smr 31



smr 32

JOB BOOK

PROJECT NAME Sheet Metal Restoration

PROJECT NUMBER _____

CREW H. Zinn K. Dechant

DATE 11-8-10 - 2010 BOOK # _____ / OF _____ /

WEATHER _____



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CURVE FORMULAS

$$T = R \tan \frac{1}{2} I$$

$$T = \frac{50 \tan \frac{1}{2} I}{\sin \frac{1}{2} D}$$

$$\sin \frac{1}{2} D = \frac{50}{R}$$

$$\sin \frac{1}{2} D = \frac{50 \tan \frac{1}{2} I}{T}$$

$$R = T \cot \frac{1}{2} I$$

$$R = \frac{50}{\sin \frac{1}{2} D}$$

$$E = R \text{ ex. sec } \frac{1}{2} I$$

$$E = T \tan \frac{1}{2} I$$

$$\text{Chord def.} = \frac{\text{chord}^2}{R}$$

$$\text{No. chords} = \frac{I}{D}$$

$$\text{Tan. def.} = \frac{1}{2} \text{ chord def.}$$

The square of any distance, divided by twice the radius, will equal the distance from tangent to curve, very nearly.

To find angle for a given distance and deflection.

Rule 1. Multiply the given distance by .01745 (def. for 1° for 1 ft.) and divide given deflection by the product.

Rule 2. Multiply given deflection by 57.3, and divide the product by the given distance.

To find deflection for a given angle and distance. Multiply the angle by .01745, and the product by the distance.

GENERAL DATA

RIGHT ANGLE TRIANGLES. Square the altitude, divide by twice the base. Add quotient to base for hypotenuse.

Given Base 100, Alt. $10.10^2 \div 200 = .5$. $100 + .5 = 100.5$ hyp.

Given Hyp. 100, Alt. $25.25^2 \div 200 = 3.125$. $100 - 3.125 = 96.875 = \text{Base}$.

Error in first example, .002; in last, .045.

To find Tons of Rail in one mile of track: multiply weight per yard by 11, and divide by 7.

LEVELING. The correction for curvature and refraction, in feet and decimals of feet is equal to $0.574 d^2$, where d is the distance in miles. The correction for curvature alone is closely, $\frac{1}{3} d^2$. The combined correction is negative.

PROBABLE ERROR. If d_1, d_2, d_3 , etc. are the discrepancies of various results from the mean, and if $\sum d^2$ —the sum of the squares of these differences and n —the number of observations, then the probable error of the mean = $\pm 0.6745 \sqrt{\frac{\sum d^2}{n(n-1)}}$

MINUTES IN DECIMALS OF A DEGREE

1'	.0167	11'	.1833	21'	.3500	31'	.5167	41'	.6833	51'	.8500
2	.0333	12	.2000	22	.3667	32	.5333	42	.7000	52	.8667
3	.0500	13	.2167	23	.3833	33	.5500	43	.7167	53	.8833
4	.0667	14	.2333	24	.4000	34	.5667	44	.7333	54	.9000
5	.0833	15	.2500	25	.4167	35	.5833	45	.7500	55	.9167
6	.1000	16	.2667	26	.4333	36	.6000	46	.7667	56	.9333
7	.1167	17	.2833	27	.4500	37	.6167	47	.7833	57	.9500
8	.1333	18	.3000	28	.4667	38	.6333	48	.8000	58	.9667
9	.1500	19	.3167	29	.4833	39	.6500	49	.8167	59	.9833
10	.1667	20	.3333	30	.5000	40	.6667	50	.8333	60	1.0000

INCHES IN DECIMALS OF A FOOT

1-16	3-32	$\frac{1}{8}$	3-16	$\frac{1}{4}$	5-16	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$
.0052	.0078	.0104	.0156	.0208	.0260	.0313	.0417	.0521	.0625	.0729
1	2	3	4	5	6	7	8	9	10	11
.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167

Monday Nov 8 2010

Arrived at GO Pinner's Cove Rd +

Talk to MARK Heaman

Set up location out Top of driveway
location 1.

Drove Solid Shaft to 8 Ft depth before
release.

Ion Science Pro Check 5000 1931 series

Calibrated to 100 ppb Isobutylene.

Dropped Tubing in hole + ran PID for
5 minutes.

After 5 minutes Reading was stabilized
at 1.42 ppb. R110815A GPS

Set up at SMC 02

drove point to 8' 6" depth before Release

Ran PID for 5 minutes R110815B GPS

After 5 minutes Rdy was 2.07 but rising

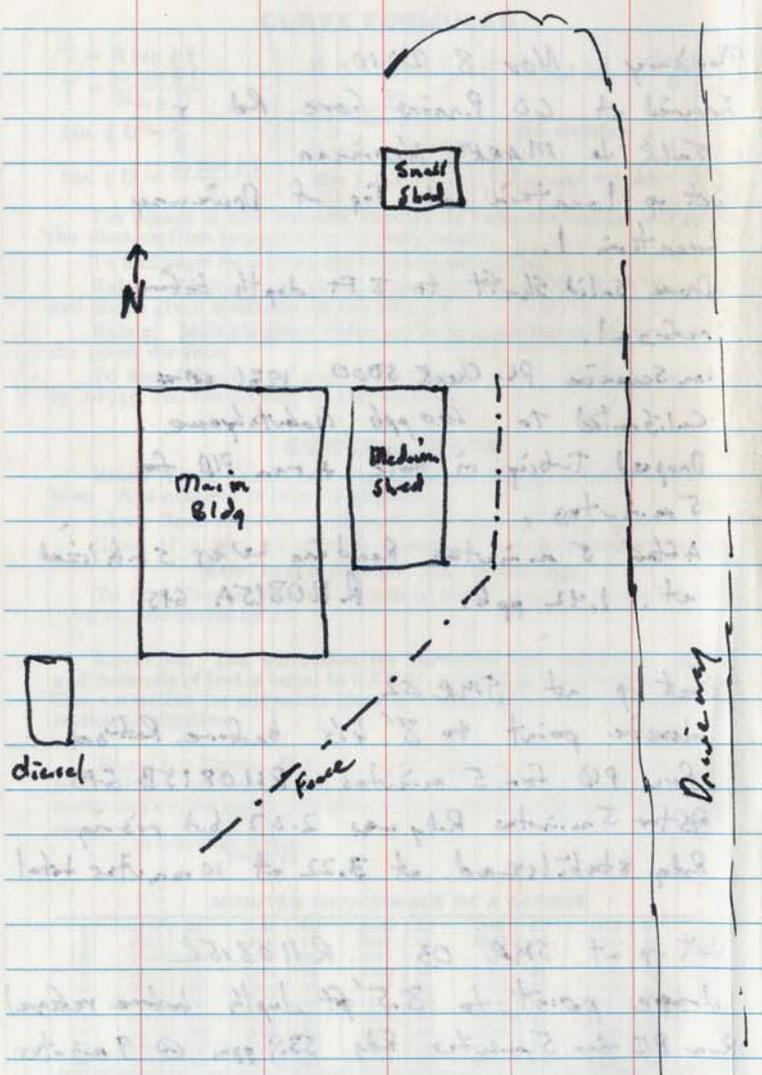
Rdy stabilized at 3.22 at 10 minutes total

Set up at SMC 03 R110815C

drove point to 8.5' ft depth before release

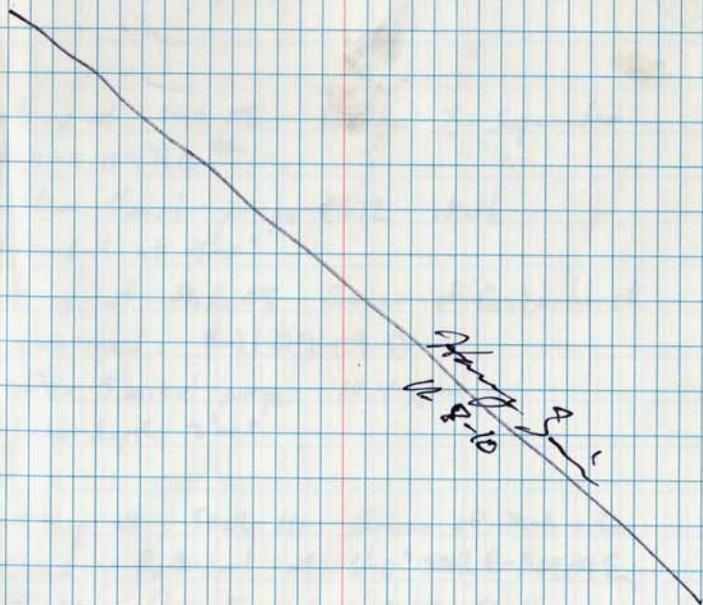
Ran PID for 5 minutes Rdy 53.9 ppm @ 9 minutes

Henry J
11-8-10



Set up at SMR 04 R110816A
 Drive Point to 7'-6" depth before Redial
 Ambient Air = 0.76 ppm
 zero P10 before reading.
 Reading after 5 minutes = 1.85 ppm + stable

Set up at SMR 05 beside property sign pin
 Drive Point to 6' had adapter stripped threads
 after 5 minute purge P10 = 5.90 + stable
 R110816B



11-9-2010 Set up at SMR-06 at corner
of 1st shed. ~~R 1008A~~ R 1009A
Refusal after 18". Shad level cut into
5-granite at bank.
After 5 min purge 0.00 + stable

Set up at SMR 07 beside diesel generator
R 1009B
Refusal at 4'-0" R 1009C
After 5 min purge 5.67 stable

Set up at SMR 08 beside Air Separator
R 1109BC #2
After 5 min purge 1.12 stable
Refusal at 4'-0"

Set up at SMR 09 Corner of Cinders block
garage. R 1109D
After 5 min purge 10.4 ppm
hole depth 2'-0"

Set up at SMR-10 Corner of Med size
shed Refusal at 6'-0" ~~SMR R-1109E~~
Reading after 5 minute 0.00 Stable

Henry J. J.
11-09-10

reference to ...
AP0906 ...

Set up at SMR 011 Hole depth 9'0"
R110910A very soft
Reading After 5 minutes 0.338 stable

SMR 012 Front Corner of Mod Shed
in surface Water Runoff path
hole depth 9'0 Very soft
R110910B
Reading after 5 minutes 1.44 stable

SMR 013 Lower end of Upper Driveway
on 54 Pinners Cove Rd.
hole depth 9'0" R110911A
Reading after 5 minutes 0.55 ppm stable

SMR 014 Upper end of Lower Driveway
hole depth 7'0 Refusal R110911B
Reading after 5 min 1.15 ppm stable R110911C
also

SMR 015 approximately 50 ft
Pinners Cove Road, R110911D
hole depth 7'0 at refusal
see next entry

Thompson
7-27-10

SMR 15 lower end at lower Driveway
R110911D Hole depth 7'0 Refusal
Reading after 5 min 4.26 ppm stable

SMR 16 approx 50ft towards Pinnac Cove Rd
R110911E Hole depth 6'0 Refusal
Reading after 5 min 0.08 ppm stable.

SMR 17 60 pinnac cove driveway + Pinnac Cove Rd
Hole Depth 9'0" soft. R110913A
Reading after 5 minutes 0.00 ppb.

SMR 18 9'0" hole located behind
beam along road approximately 10' off road
Reading after 5 minutes 67 ppb stable

SMR 19 hole depth 6'0" refusal
approximately 6' off road at base of hill
R110914A
Reading after 5 minutes 0.00 ppb stable

SMR 20 hole depth 9'0 R110914B
approx 5' from edge of road at base of hill
Reading after 5 min 0.00 ppb stable

Zhang Jun
11-26-10

SMR 21 R 1109 HC

Located 3' off road by Mailbox for 57 PCR
hole depth 9'-0"

reading after 5 minutes 0.00 ppb stable

11-10-10
11-10-10

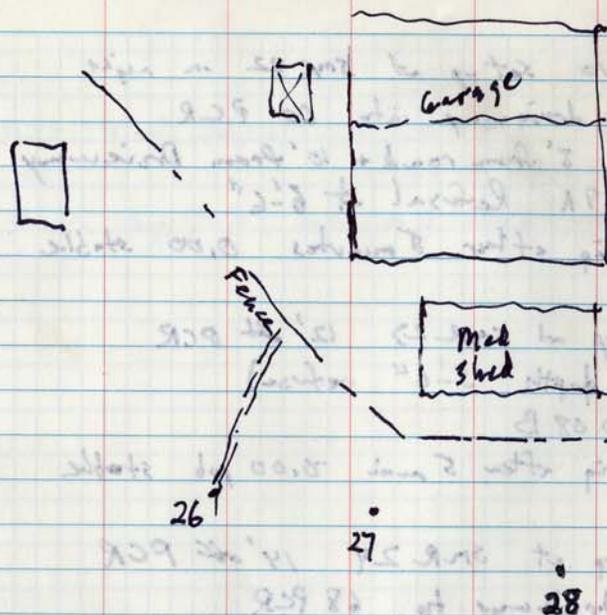
11-10-10 Set up at SMR 22 on right
side of driveway into 60 PCR
located 8' from road + 10' from Driveway
R111008A Refusal at 8'-6"
Reading after 5 minutes 0.00 stable

Set up at SMR 23 12' off PCR
Hole depth 5'-0" refusal
R111008B
Reading after 5 min 0.00 ppb stable

Set up at SMR 24 14' off PCR
at driveway to 68 PCR
Hole depth 9'-0" R 111009A
Reading after 5 min 0.00 stable

Set up at SMR 25 6' off PCR
approx 50' from SMR 24
Depth of Hole = 3'-0" Refusal several attempts
made. R 111009B
Reading after 5 minutes 0.00 ppb stable

Shang J
11-10-10



SMR 26 Located 20' outside of fence behind corner of Shop, on the surface water runoff path. R 11/10/09
 Depth of hole 3'-0" refusal
 Reading after 5 min 12.8 ppm

SMR 27 15' outside fence at corner of fence at base of fill area
 Hole depth = 36" refusal
 R 11/10/09
 Reading after 5 minute purge 0.00 ppb stable

SMR 28 20' outside fence down hill from SMR 14 location
 Refusal at 66"
 Reading after 5 min purge 0.00 ppb stable

Located SMR 03 and resampled hole
 Reading after 5 minutes 0.711 ppm stable
 because of the distance we set a new hole approx 3 FT north.

SMR 29 refusal at 5'-6"
 Reading after 5 minutes 9.711 rising
 Reading 10.1 ppm stable at 6 minutes

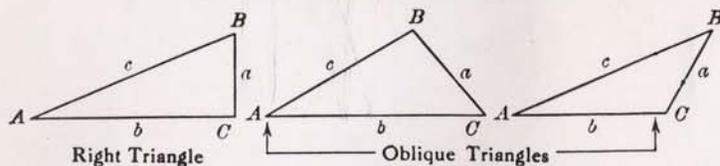
Henry J. Jiri
 11-10-10

SMR 30 1/2' up north of SMR 03
 Refusal at 8'6" R111011A
 reading after 5 min. 0.304 ppm stable

SMR 31 approx 3' south of SMR 03
 Refusal at 5'6" R111011B
 reading after 5 min. 7.15 ppm stable

SMR 32 approx 15' south of SMR 03
 Refusal at 8'8" R
 reading after 5 min 3.41 ppm stable
 NO GPS Coverage Available

TRIGONOMETRIC FORMULAS



Solution of Right Triangles

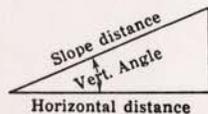
For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{a}$, $\operatorname{cosec} = \frac{c}{a}$

Given	Required	Formulas
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B$, $c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B$, $b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90^\circ - A$, $b = a \cot A$, $c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90^\circ - A$, $a = b \tan A$, $c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90^\circ - A$, $a = c \sin A$, $b = c \cos A$

Solution of Oblique Triangles

Given	Required	Formulas
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180^\circ - C$, $\tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$, $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a + b + c}{2}$, $\sin \frac{1}{2}A = \sqrt{\frac{(s - b)(s - c)}{bc}}$, $\sin \frac{1}{2}B = \sqrt{\frac{(s - a)(s - c)}{ac}}$, $C = 180^\circ - (A + B)$
a, b, c	Area	$s = \frac{a + b + c}{2}$, $\text{area} = \sqrt{s(s - a)(s - b)(s - c)}$
A, b, c	Area	$\text{area} = \frac{bc \sin A}{2}$
A, B, C, a	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = $5^\circ 10'$. Since $\cos 5^\circ 10' = .9959$, horizontal distance = $319.4 \times .9959 = 318.09$ ft.
 Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. $\operatorname{Cosine} 5^\circ 10' = .9959$. $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ ft.

When the rise is known, the horizontal distance is approximately the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.

Handwritten note: about 3' 11-10-10

Reference 4

JOB BOOK

PROJECT NAME SMR Phase II
PROJECT NUMBER _____
CREW H Zina R Dechant
DATE 5-10-11 BOOK # 1 OF 1
WEATHER Sunny mid 70's



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CURVE FORMULAS

$$T = R \tan \frac{1}{2} I$$

$$T = \frac{50 \tan \frac{1}{2} I}{\sin \frac{1}{2} D}$$

$$\sin \frac{1}{2} D = \frac{50}{R}$$

$$\sin \frac{1}{2} D = \frac{50 \tan \frac{1}{2} I}{T}$$

$$\text{Chord def.} = \frac{\text{chord}^2}{R}$$

$$\text{No. chords} = \frac{I}{D}$$

$$\text{Tan. def.} = \frac{1}{2} \text{ chord def.}$$

The square of any distance, divided by twice the radius, will equal the distance from tangent to curve, very nearly.

To find angle for a given distance and deflection.

Rule 1. Multiply the given distance by .01745 (def. for 1° for 1 ft.) and divide given deflection by the product.

Rule 2. Multiply given deflection by 57.3, and divide the product by the given distance.

To find deflection for a given angle and distance. Multiply the angle by .01745, and the product by the distance.

GENERAL DATA

RIGHT ANGLE TRIANGLES. Square the altitude, divide by twice the base. Add quotient to base for hypotenuse.

Given Base 100, Alt. $10.10^2 \div 200 = .5$. $100 + .5 = 100.5$ hyp.

Given Hyp. 100, Alt. $25.25^2 \div 200 = 3.125$. $100 - 3.125 = 96.875 = \text{Base}$.

Error in first example, .002; in last, .045.

To find Tons of Rail in one mile of track: multiply weight per yard by 11, and divide by 7.

LEVELING. The correction for curvature and refraction, in feet and decimals of feet is equal to $0.574d^2$, where d is the distance in miles. The correction for curvature alone is closely $3d^2$. The combined correction is negative.

PROBABLE ERROR. If d_1, d_2, d_3 , etc. are the discrepancies of various results from the mean, and if $\sum d^2 = n$ the sum of the squares of these differences and $n =$ the number of observations, then the probable error of the

$$\text{mean} = \pm 0.6745 \sqrt{\frac{\sum d^2}{n(n-1)}}$$

MINUTES IN DECIMALS OF A DEGREE

1'	.0167	11'	.1833	21'	.3500	31'	.5167	41'	.6833	51'	.8500
2	.0333	12	.2000	22	.3667	32	.5333	42	.7000	52	.8667
3	.0500	13	.2167	23	.3833	33	.5500	43	.7167	53	.8833
4	.0667	14	.2333	24	.4000	34	.5667	44	.7333	54	.9000
5	.0833	15	.2500	25	.4167	35	.5833	45	.7500	55	.9167
6	.1000	16	.2667	26	.4333	36	.6000	46	.7667	56	.9333
7	.1167	17	.2833	27	.4500	37	.6167	47	.7833	57	.9500
8	.1333	18	.3000	28	.4667	38	.6333	48	.8000	58	.9667
9	.1500	19	.3167	29	.4833	39	.6500	49	.8167	59	.9833
10	.1667	20	.3333	30	.5000	40	.6667	50	.8333	60	1.0000

INCHES IN DECIMALS OF A FOOT

1-16	3-32	1/2	3-16	3/4	5-16	7/8	1			
.0052	.0078	.0104	.0156	.0208	.0313	.0417	.0521	.0625	.0729	
1	2	3	4	5	6	7	8	9	10	
.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167

Arrived at site at 7:00
 Calc. bracke main line cut 102252
 Reading 44.8 from 50.0 gms

Prepared Trip Blank at 9:15 SMC-010 BB

Set up at SB-02 SMC-004 SS

Initial PID is 0.7 Ck-Kymond

Took PID rdgs at 1' and 2' No detects

Collected sample at 2:0" at 9:30

All soils are red sandy clay

Switch augers continue to auger to

4'-0" taking PID's every 6"

No reading detected

Sample collected at 4'-0 at 9.45 SMC-00588

Auger refusal was met at 4'-6"

moved hole north 2'-0" redug to

4'-0" Auger refusal again at 4'-6"

No sample collected from depth.

Repaired to 7'6" depth.

No detects on PID every 6 inches

Auger Refusal at 7'6" Sample

Collected from 7'6" to 7'6"

SB-01-7.5 Collected at 11:30 Ap. Collected

All soils.

Set up at SB-01 SMR-001-55
Tried 3 times on the bank but
met refusal within 1 ft.

Began hole in the ditch. Background is 0.2 ppm

Dug to 2' deep no detects on PID
collected SB 01-2' at 10:55 from 2' deep
dug to 4' deep no detects
collected SB 01-4' at 11:10 at 4' deep

SMR 002-5B

Angered to 7'6" collecting PID reading
every 6 inches no detects.

Auger Refusal at 7'6"

Sample SB 01-7.5 collected at 11:30

from 7'6" to 7'6" depth Diplicate collected
all soils are red sandy clay

SMR-003-5B

Sit up at Background Location
North of driveway to Hermann
property.

Dug to 2'-0" No detects on PID
Gravel 0-8" Red Sandy Clay 8'-12'
Collected Sample Brick-22' at 2' depths
collected at 12'-10" SMR-00755

Dug 2'-4' No Detects on PID
collected Sample Brick-4' at 4' depths
collected Sample at 12'-15"
MS/MSP collected at 12'-15"
SMR 00850

Encountered Gravel layer at
4'-6" gravel at least 6" deep -
discontinued sample.
Since soils were all similar,
no sample collected from greater
than 4'.

Reference 5



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

June 9, 2011

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 11-0391, Sheet Metal Restoration
Superfund Remedial

FROM: Jeffrey Hendel
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Carolyn Callihan

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:

Method Used:

Volatile Organics (VOA)

Volatile organic compounds

CLP VOA



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

Report Narrative for Work Order C112102, Project: 11-0391
Site Name: Sheet Metal Restoration, Asheville, NC
CLP Case No. 41328, ELEMENT Sample Nos. C112102-01 through C112102-10

Organic Analysis: CompuChem, Cary, NC

The ESAT Work Team reviewed data for nine soil samples analyzed for low/medium level volatile organic compounds per CLP statement of work SOM01.2. The results were reported in one Sample Delivery Group (SDG).

The samples were collected on 05/10/11, and were received by the laboratory between 05/11/11. The final data package was received on 06/02/11 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The laboratory satisfied all technical analysis and extraction holding time requirements. A Stage 4 validation consisting of an electronic/manual review (S4VEM) was performed on the organic samples submitted for this case. The data package presents acceptable technical performance with qualifications.

All results associated with erratic initial and/or continuing calibration performance were "J" flagged with the appropriate Element qualifier (CLP16 and/or QC-1). Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency.

Pertinent data quality factors are discussed below:

The laboratory scored within warning limits for all spiked analytes in the volatile PES except for styrene which was scored as warning low. All styrene results were "J" qualified (CLP25).

Low recovery for the DMC 1,2-dichloroethane-d4 was observed in sample C112102-08. All associated results were "J" qualified (QS-3).

Low responses were observed for 1,4-dioxane in all initial and continuing calibrations performed. All non-detected results were "R" qualified (CLP17, CLP32).

Sample C112102-01 is a soil trip blank, therefore, it has a reported percent moisture of zero.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

SAMPLES INCLUDED IN THIS REPORT

Project: 11-0391, Sheet Metal Restoration

Contract Lab Case: 41328

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected
SMR-010-TB	C112102-01		6C97	Trip Blank - Soil	5/10/11 09:15
SMR-001-SS	C112102-02		6C89	Surface Soil	5/10/11 10:55
SMR-002-SB	C112102-03		6C90	Subsurface Soil	5/10/11 11:10
SMR-003-SB	C112102-04		6C91	Subsurface Soil	5/10/11 11:30
SMR-103-SB	C112102-05		6C92	Subsurface Soil	5/10/11 11:30
SMR-004-SS	C112102-06		6C93	Surface Soil	5/10/11 09:30
SMR-005-SB	C112102-07		6C94	Surface Soil	5/10/11 09:45
SMR-007-SS	C112102-08		6C95	Surface Soil	5/10/11 12:10
SMR-008-SB	C112102-09		6C96	Subsurface Soil	5/10/11 12:15



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP15	TIC Results Reported as Identified by Lab - IDs Not Verified
CLP17	Initial Calibration Relative Response Outside Method Control Limits
CLP25	PE sample recovery scored as warning-low.
CLP32	Continuing Calibration Relative Response Outside Method Control Limits
J	The identification of the analyte is acceptable; the reported value is an estimate.
QS-3	Surrogate recovery is lower than established control limits.
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

Volatile Organics

Project: 11-0391, Sheet Metal Restoration

Contract Lab Case: 41328

Sample ID: SMR-010-TB

Lab ID: C112102-01

MD No:

Station ID:

Matrix: Trip Blank - Soil

D No: 6C97 LIBRTY

Date Collected: 5/10/11 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	0.0		%		5/13/11	5/13/11	CLP VOA
R4-7156	(m- and/or p-)Xylene	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
123-91-1	1,4-Dioxane	130	U, R, CLP32, CLP17	ug/kg dry	130	5/13/11	5/13/11	CLP SOM01.2 V
67-64-1	Acetone	13	U	ug/kg dry	13	5/13/11	5/13/11	CLP SOM01.2 V
71-43-2	Benzene	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
74-97-5	Bromochloromethane	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
75-27-4	Bromodichloromethane	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
75-25-2	Bromoform	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
74-83-9	Bromomethane	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
75-15-0	Carbon disulfide	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
108-90-7	Chlorobenzene	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
75-00-3	Chloroethane	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
67-66-3	Chloroform	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

Volatile Organics

Project: 11-0391, Sheet Metal Restoration

Contract Lab Case: 41328

Sample ID: SMR-010-TB

Lab ID: C112102-01

MD No:

Station ID:

Matrix: Trip Blank - Soil

D No: 6C97 LIBRTY

Date Collected: 5/10/11 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-87-3	Chloromethane	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
110-82-7	Cyclohexane	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
124-48-1	Dibromochloromethane	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane (Freon 12)	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
100-41-4	Ethyl Benzene	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
98-82-8	Isopropylbenzene	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
79-20-9	Methyl Acetate	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	13	U	ug/kg dry	13	5/13/11	5/13/11	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	13	U	ug/kg dry	13	5/13/11	5/13/11	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	13	U	ug/kg dry	13	5/13/11	5/13/11	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
108-87-2	Methylcyclohexane	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
75-09-2	Methylene Chloride	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
95-47-6	o-Xylene	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
100-42-5	Styrene	6.3	U, J, CLP25	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
108-88-3	Toluene	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
75-01-4	Vinyl chloride	6.3	U	ug/kg dry	6.3	5/13/11	5/13/11	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	6	U	ug/kg dry	6	5/13/11	5/13/11	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

Volatile Organics

Project: 11-0391, Sheet Metal Restoration

Contract Lab Case: 41328

Sample ID: SMR-001-SS

Lab ID: C112102-02

MD No:

Station ID: SMR1

Matrix: Surface Soil

D No: 6C89 LIBRTY

Date Collected: 5/10/11 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	24		%		5/12/11	5/13/11	CLP VOA
R4-7156	(m- and/or p-)Xylene	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
123-91-1	1,4-Dioxane	150	U, R, CLP32, CLP17	ug/kg dry	150	5/12/11	5/13/11	CLP SOM01.2 V
67-64-1	Acetone	15	U	ug/kg dry	15	5/12/11	5/13/11	CLP SOM01.2 V
71-43-2	Benzene	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
74-97-5	Bromochloromethane	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
75-27-4	Bromodichloromethane	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
75-25-2	Bromoform	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
74-83-9	Bromomethane	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
75-15-0	Carbon disulfide	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
108-90-7	Chlorobenzene	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
75-00-3	Chloroethane	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
67-66-3	Chloroform	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V



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D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

Volatile Organics

Project: 11-0391, Sheet Metal Restoration

Contract Lab Case: 41328

Sample ID: SMR-001-SS

Lab ID: C112102-02

MD No:

Station ID: SMR1

Matrix: Surface Soil

D No: 6C89 LIBRTY

Date Collected: 5/10/11 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-87-3	Chloromethane	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
110-82-7	Cyclohexane	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
124-48-1	Dibromochloromethane	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane (Freon 12)	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
100-41-4	Ethyl Benzene	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
98-82-8	Isopropylbenzene	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
79-20-9	Methyl Acetate	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	15	U	ug/kg dry	15	5/12/11	5/13/11	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	15	U	ug/kg dry	15	5/12/11	5/13/11	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	15	U	ug/kg dry	15	5/12/11	5/13/11	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
108-87-2	Methylcyclohexane	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
75-09-2	Methylene Chloride	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
95-47-6	o-Xylene	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
100-42-5	Styrene	7.3	U, J, CLP25	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
108-88-3	Toluene	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
75-01-4	Vinyl chloride	7.3	U	ug/kg dry	7.3	5/12/11	5/13/11	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	7	U	ug/kg dry	7	5/12/11	5/13/11	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

Volatile Organics

Project: 11-0391, Sheet Metal Restoration

Contract Lab Case: 41328

Sample ID: SMR-002-SB

Lab ID: C112102-03

MD No:

Station ID: SMR1

Matrix: Subsurface Soil

D No: 6C90 LIBRTY

Date Collected: 5/10/11 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		5/12/11	5/13/11	CLP VOA
R4-7156	(m- and/or p-)Xylene	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
123-91-1	1,4-Dioxane	110	U, R, CLP32, CLP17	ug/kg dry	110	5/12/11	5/13/11	CLP SOM01.2 V
67-64-1	Acetone	11	U	ug/kg dry	11	5/12/11	5/13/11	CLP SOM01.2 V
71-43-2	Benzene	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
75-25-2	Bromoform	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
74-83-9	Bromomethane	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
75-00-3	Chloroethane	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
67-66-3	Chloroform	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V



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D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

Volatile Organics

Project: 11-0391, Sheet Metal Restoration

Contract Lab Case: 41328

Sample ID: SMR-002-SB

Lab ID: C112102-03

MD No:

Station ID: SMR1

Matrix: Subsurface Soil

D No: 6C90 LIBRTY

Date Collected: 5/10/11 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-87-3	Chloromethane	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
110-82-7	Cyclohexane	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane (Freon 12)	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	11	U	ug/kg dry	11	5/12/11	5/13/11	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	11	U	ug/kg dry	11	5/12/11	5/13/11	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	11	U	ug/kg dry	11	5/12/11	5/13/11	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
95-47-6	o-Xylene	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
100-42-5	Styrene	5.5	U, J, CLP25	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
108-88-3	Toluene	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.5	U	ug/kg dry	5.5	5/12/11	5/13/11	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	6	U	ug/kg dry	6	5/12/11	5/13/11	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

Volatile Organics

Project: 11-0391, Sheet Metal Restoration

Contract Lab Case: 41328

Sample ID: SMR-003-SB

Lab ID: C112102-04

MD No:

Station ID: SMR1

Matrix: Subsurface Soil

D No: 6C91 LIBRTY

Date Collected: 5/10/11 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		5/12/11	5/13/11	CLP VOA
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U, R, CLP32, CLP17	ug/kg dry	100	5/12/11	5/13/11	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/kg dry	10	5/12/11	5/13/11	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

Volatile Organics

Project: 11-0391, Sheet Metal Restoration

Contract Lab Case: 41328

Sample ID: SMR-003-SB

Lab ID: C112102-04

MD No:

Station ID: SMR1

Matrix: Subsurface Soil

D No: 6C91 LIBRTY

Date Collected: 5/10/11 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-87-3	Chloromethane	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane (Freon 12)	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/kg dry	10	5/12/11	5/13/11	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/kg dry	10	5/12/11	5/13/11	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/kg dry	10	5/12/11	5/13/11	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
95-47-6	o-Xylene	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
100-42-5	Styrene	5.0	U, J, CLP25	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
108-88-3	Toluene	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/kg dry	5.0	5/12/11	5/13/11	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/kg dry	5	5/12/11	5/13/11	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

Volatile Organics

Project: 11-0391, Sheet Metal Restoration

Contract Lab Case: 41328

Sample ID: SMR-103-SB

Lab ID: C112102-05

MD No:

Station ID: SMR1

Matrix: Subsurface Soil

D No: 6C92 LIBRTY

Date Collected: 5/10/11 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		5/12/11	5/13/11	CLP VOA
R4-7156	(m- and/or p-)Xylene	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
123-91-1	1,4-Dioxane	97	U, R, CLP32, CLP17	ug/kg dry	97	5/12/11	5/13/11	CLP SOM01.2 V
67-64-1	Acetone	9.7	U	ug/kg dry	9.7	5/12/11	5/13/11	CLP SOM01.2 V
71-43-2	Benzene	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
74-97-5	Bromochloromethane	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
75-27-4	Bromodichloromethane	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
75-25-2	Bromoform	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
74-83-9	Bromomethane	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
75-15-0	Carbon disulfide	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
108-90-7	Chlorobenzene	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
75-00-3	Chloroethane	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
67-66-3	Chloroform	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

Volatile Organics

Project: 11-0391, Sheet Metal Restoration

Contract Lab Case: 41328

Sample ID: SMR-103-SB

Lab ID: C112102-05

MD No:

Station ID: SMR1

Matrix: Subsurface Soil

D No: 6C92 LIBRTY

Date Collected: 5/10/11 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-87-3	Chloromethane	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
110-82-7	Cyclohexane	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
124-48-1	Dibromochloromethane	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane (Freon 12)	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
100-41-4	Ethyl Benzene	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
98-82-8	Isopropylbenzene	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
79-20-9	Methyl Acetate	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	9.7	U	ug/kg dry	9.7	5/12/11	5/13/11	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	9.7	U	ug/kg dry	9.7	5/12/11	5/13/11	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	9.7	U	ug/kg dry	9.7	5/12/11	5/13/11	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
108-87-2	Methylcyclohexane	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
75-09-2	Methylene Chloride	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
95-47-6	o-Xylene	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
100-42-5	Styrene	4.8	U, J, CLP25	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
108-88-3	Toluene	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
75-01-4	Vinyl chloride	4.8	U	ug/kg dry	4.8	5/12/11	5/13/11	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/kg dry	5	5/12/11	5/13/11	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

Volatile Organics

Project: 11-0391, Sheet Metal Restoration

Contract Lab Case: 41328

Sample ID: SMR-004-SS

Lab ID: C112102-06

MD No:

Station ID: SMR4

Matrix: Surface Soil

D No: 6C93 LIBRTY

Date Collected: 5/10/11 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		5/12/11	5/13/11	CLP VOA
R4-7156	(m- and/or p-)Xylene	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U, R, CLP32, CLP17	ug/kg dry	100	5/12/11	5/13/11	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/kg dry	10	5/12/11	5/13/11	CLP SOM01.2 V
71-43-2	Benzene	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
75-25-2	Bromoform	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
74-83-9	Bromomethane	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
75-00-3	Chloroethane	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
67-66-3	Chloroform	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

Volatile Organics

Project: 11-0391, Sheet Metal Restoration

Contract Lab Case: 41328

Sample ID: SMR-004-SS

Lab ID: C112102-06

MD No:

Station ID: SMR4

Matrix: Surface Soil

D No: 6C93 LIBRTY

Date Collected: 5/10/11 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-87-3	Chloromethane	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
110-82-7	Cyclohexane	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane (Freon 12)	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/kg dry	10	5/12/11	5/13/11	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/kg dry	10	5/12/11	5/13/11	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/kg dry	10	5/12/11	5/13/11	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
95-47-6	o-Xylene	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
100-42-5	Styrene	5.1	U, J, CLP25	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
108-88-3	Toluene	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.1	U	ug/kg dry	5.1	5/12/11	5/13/11	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/kg dry	5	5/12/11	5/13/11	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

Volatile Organics

Project: 11-0391, Sheet Metal Restoration

Contract Lab Case: 41328

Sample ID: SMR-005-SB

Lab ID: C112102-07

MD No:

Station ID: SMR4

Matrix: Surface Soil

D No: 6C94 LIBRTY

Date Collected: 5/10/11 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		5/12/11	5/13/11	CLP VOA
R4-7156	(m- and/or p-)Xylene	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
123-91-1	1,4-Dioxane	110	U, R, CLP32, CLP17	ug/kg dry	110	5/12/11	5/13/11	CLP SOM01.2 V
67-64-1	Acetone	11		ug/kg dry	11	5/12/11	5/13/11	CLP SOM01.2 V
71-43-2	Benzene	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
75-25-2	Bromoform	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
74-83-9	Bromomethane	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
75-00-3	Chloroethane	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
67-66-3	Chloroform	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

Volatile Organics

Project: 11-0391, Sheet Metal Restoration

Contract Lab Case: 41328

Sample ID: SMR-005-SB

Lab ID: C112102-07

MD No:

Station ID: SMR4

Matrix: Surface Soil

D No: 6C94 LIBRTY

Date Collected: 5/10/11 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-87-3	Chloromethane	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
110-82-7	Cyclohexane	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane (Freon 12)	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	11	U	ug/kg dry	11	5/12/11	5/13/11	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	11	U	ug/kg dry	11	5/12/11	5/13/11	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	11	U	ug/kg dry	11	5/12/11	5/13/11	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
95-47-6	o-Xylene	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
100-42-5	Styrene	5.4	U, J, CLP25	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
108-88-3	Toluene	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.4	U	ug/kg dry	5.4	5/12/11	5/13/11	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/kg dry	5	5/12/11	5/13/11	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

Volatile Organics

Project: 11-0391, Sheet Metal Restoration

Contract Lab Case: 41328

Sample ID: SMR-007-SS

Lab ID: C112102-08

MD No:

Station ID: SMR7

Matrix: Surface Soil

D No: 6C95 LIBRTY

Date Collected: 5/10/11 12:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		5/13/11	5/13/11	CLP VOA
R4-7156	(m- and/or p-)Xylene	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.5	U, J, QS-3	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.5	U, J, QS-3	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.5	U, J, QS-3	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.5	U, J, QS-3	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
123-91-1	1,4-Dioxane	110	U, R, CLP32, CLP17	ug/kg dry	110	5/13/11	5/13/11	CLP SOM01.2 V
67-64-1	Acetone	11	U	ug/kg dry	11	5/13/11	5/13/11	CLP SOM01.2 V
71-43-2	Benzene	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
75-25-2	Bromoform	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
74-83-9	Bromomethane	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.5	U, J, QS-3	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
75-00-3	Chloroethane	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
67-66-3	Chloroform	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V



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D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

Volatile Organics

Project: 11-0391, Sheet Metal Restoration

Contract Lab Case: 41328

Sample ID: SMR-007-SS

Lab ID: C112102-08

MD No:

Station ID: SMR7

Matrix: Surface Soil

D No: 6C95 LIBRTY

Date Collected: 5/10/11 12:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-87-3	Chloromethane	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
110-82-7	Cyclohexane	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane (Freon 12)	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.5	U, J, QS-3	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	11	U	ug/kg dry	11	5/13/11	5/13/11	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	11	U	ug/kg dry	11	5/13/11	5/13/11	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	11	U	ug/kg dry	11	5/13/11	5/13/11	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.5	U, J, QS-3	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.5	U, J, QS-3	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
95-47-6	o-Xylene	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
100-42-5	Styrene	5.5	U, J, CLP25	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
108-88-3	Toluene	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.5	U, J, QS-3	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.5	U	ug/kg dry	5.5	5/13/11	5/13/11	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	6	U	ug/kg dry	6	5/13/11	5/13/11	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

Volatile Organics

Project: 11-0391, Sheet Metal Restoration

Contract Lab Case: 41328

Sample ID: SMR-008-SB

Lab ID: C112102-09

MD No:

Station ID: SMR7

Matrix: Subsurface Soil

D No: 6C96 LIBRTY

Date Collected: 5/10/11 12:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		5/12/11	5/13/11	CLP VOA
R4-7156	(m- and/or p-)Xylene	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
123-91-1	1,4-Dioxane	98	U, R, CLP17, CLP32	ug/kg dry	98	5/12/11	5/13/11	CLP SOM01.2 V
67-64-1	Acetone	9.8	U	ug/kg dry	9.8	5/12/11	5/13/11	CLP SOM01.2 V
71-43-2	Benzene	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
74-97-5	Bromochloromethane	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
75-27-4	Bromodichloromethane	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
75-25-2	Bromoform	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
74-83-9	Bromomethane	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
75-15-0	Carbon disulfide	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
108-90-7	Chlorobenzene	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
75-00-3	Chloroethane	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
67-66-3	Chloroform	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0391

Project: 11-0391, Sheet Metal Restoration - Reported by Jeffrey Hendel

Volatile Organics

Project: 11-0391, Sheet Metal Restoration

Contract Lab Case: 41328

Sample ID: SMR-008-SB

Lab ID: C112102-09

MD No:

Station ID: SMR7

Matrix: Subsurface Soil

D No: 6C96 LIBRTY

Date Collected: 5/10/11 12:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-87-3	Chloromethane	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
110-82-7	Cyclohexane	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
124-48-1	Dibromochloromethane	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane (Freon 12)	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
100-41-4	Ethyl Benzene	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
98-82-8	Isopropylbenzene	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
79-20-9	Methyl Acetate	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	9.8	U	ug/kg dry	9.8	5/12/11	5/13/11	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	9.8	U	ug/kg dry	9.8	5/12/11	5/13/11	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	9.8	U	ug/kg dry	9.8	5/12/11	5/13/11	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
108-87-2	Methylcyclohexane	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
75-09-2	Methylene Chloride	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
95-47-6	o-Xylene	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
100-42-5	Styrene	4.9	U, J, CLP25	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
108-88-3	Toluene	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
75-01-4	Vinyl chloride	4.9	U	ug/kg dry	4.9	5/12/11	5/13/11	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/kg dry	5	5/12/11	5/13/11	CLP SOM01.2 V

Reference 6



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4
SAM NUNN
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA GEORGIA 30303-8960

JUN 25 2010

INFORMATION REQUEST LETTER
URGENT LEGAL MATTER - PROMPT REPLY REQUESTED
CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mark A. and Kelly R. Hermann
Sheet Metal Restoration
60 Pinner's Cove Road
Asheville, NC 28803

RE: Request for Information Pursuant to Section 104(e) of CERCLA
Mills Gap Road Groundwater Contamination Superfund Site (the Mills Gap Site)
EPA ID # NCSFN0406988
CTS of Asheville, Inc. Site (the CTS Site)
EPA ID # NCD003149556
Asheville, Buncombe County, North Carolina

Dear Mr. and Ms. Hermann:

The purpose of this letter is to request that you respond to the enclosed Information Request. The United States Environmental Protection Agency (EPA) is currently investigating the release or threatened release of hazardous substances, pollutants or contaminants, or hazardous wastes on or about the above-referenced Sites. This investigation requires inquiry into the identification, nature, and quantity of materials generated, treated, stored, or disposed of at, or transported to, the Sites and the nature or extent of a release or threatened release of a hazardous substance or pollutant or contaminant at, from or in the areas surrounding the Sites. EPA also is seeking information relating to the ability of persons to pay for or to perform response actions at the Sites.

The two Sites that are the subject of this letter are interrelated. The CTS Site is located off Mills Gap Road, approximately one mile east of Skyland, in Buncombe County, North Carolina, and consists of approximately nine acres of maintained grounds containing a large, single-story building. In 1952, International Resistance Company, Inc. (IRC) bought the land and constructed



the building which was used for its electroplating operations. In 1959, IRC sold the property to CTS, Inc (CTS). From 1959 to 1986, CTS operated an electroplating facility at the Site. In 1987, Mills Gap Road Associates (MGRA) purchased the Site and is the current owner.

Environmental sampling indicates the subsurface beneath the former plant is contaminated with the chemical compound trichloroethylene (a.k.a. trichloroethene or TCE), as well as petroleum products. In 1999, TCE was discovered in nearby springs and one residential drinking water well. The Mills Gap Site was listed in the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) at this point and encompasses contamination of springs and private wells in the area that may be attributable to the CTS Site. In December 2007, EPA and the North Carolina Department of Environment and Natural Resources (NCDENR) commenced more extensive sampling that included expanded residential well sampling and vapor intrusion sampling at homes in close proximity to the CTS and the Mills Gap Sites. This letter is being sent to you as part of an investigation to find companies and individuals who may have information that could assist in EPA's research in the area surrounding the Sites.

Pursuant to the authority of Section 104 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C. § 9604, as amended, and Section 3007 of the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. § 6927, you are hereby requested to respond to the Information Request set forth in Enclosures hereto.

Compliance with the Information Request is mandatory. Failure to respond fully and truthfully to the Information Request within thirty (30) days of receipt of this letter, or to adequately justify such failure to respond, can result in an enforcement action by EPA pursuant to Section 104(e) of CERCLA, as amended, and/or Section 3008 of RCRA. Each of these statutes permits EPA to seek the imposition of penalties of up to thirty-seven thousand five hundred dollars (\$37,500) for each day of continued non-compliance. Please be further advised that provision of false, fictitious, or fraudulent statements or representations to the Information Request may subject you to criminal penalties under 18 U.S.C. § 1001 or Section 3008(d) of RCRA, 42 U.S.C. § 6928(d).

This Information Request is not subject to the approval requirements of the Paperwork Reduction Act of 1980, 44 U.S.C. § 3501, et seq.

Your response to this Information Request should be mailed to:

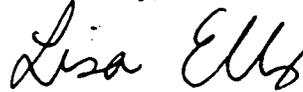
Lisa Ellis
Office of Environmental Accountability – 13th floor
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, S.W.
Atlanta, Georgia 30303

Due to the seriousness of the issues at the Sites and the legal ramifications of failing to respond properly, EPA strongly encourages you to give this matter immediate attention and to

respond to this Information Request within the time specified above. If you have any legal or technical questions relating to this Information Request, you may consult with EPA prior to the time specified above. Please direct legal questions to Lisa Ellis, Attorney-Advisor, at (404) 562-9541. Technical questions should be directed to Carolyn Callihan, Remedial Project Manager, at (404) 562-8913.

Thank you for your cooperation in this matter.

Sincerely,

A handwritten signature in cursive script that reads "Lisa Ellis".

Lisa Ellis
Attorney-Advisor

Enclosures

- A. Instructions
- B. Definitions
- C. Questions

INSTRUCTIONS

1. Please provide a separate narrative response to each and every Question and subpart of a Question set forth in this Information Request.
2. Precede each answer with the number of the Question to which it corresponds.
3. If information or documents not known or not available to you as of the date of submission of a response to this Information Request should later become known or available to you, you must supplement your response to EPA. Moreover, should you find, at any time after the submission of your response that any portion of the submitted information is false or misrepresents the truth, you must notify EPA of this fact as soon as possible and provide EPA with a corrected response.
4. For each document produced in response to this Information Request indicate on the document, or in some other reasonable manner, the number of the Question to which it responds.
5. The information requested herein must be provided even though the Respondent may contend that it includes possibly confidential information or trade secrets. You may, if you desire, assert a confidentiality claim covering part or all of the information requested, pursuant to Sections 104(e)(7)(E) and (F) of CERCLA, 42 U.S.C. Sections 9604(e)(7)(E) and (F), Section 3007(b) of RCRA, 42 U.S.C. Section 6927(b), and 40 C.F.R. Section 2.203(b), by attaching to such information at the time it is submitted, a cover sheet, stamped or typed legend, or other suitable form of notice employing language such as "trade secret," or "proprietary," or "company confidential." Information covered by such a claim will be disclosed by EPA only to the extent, and only by means, of the procedures set forth in statutes and regulations set forth above. If no such claim accompanies the information when it is received by EPA, it may be made available to the public by EPA without further notice to you. You should read the above cited regulations carefully before asserting a business confidentiality claim, since certain categories of information are not properly the subject of such a claim.

DEFINITIONS

The following definitions shall apply to the following words as they appear in this Information Request:

1. The term "you" or "Respondent" shall mean Sheet Metal Restoration, the addressee of this Request, the addressee's officers, managers, employees, contractors, trustees, partners, successors, assigns, and agents.
2. The term "person" shall have the same definition as in Section 101(21) of CERCLA: an individual, firm, corporation, association, partnership, consortium, joint venture, commercial entity, United States Government, State, municipality, commission, political subdivision of a State, or any interstate body.
3. The terms the "Site" or the "facility" shall mean and include the property on or about the Mills Gap Site and the CTS Site property in Asheville, Buncombe County, North Carolina unless described as Respondent's facility, which shall mean the Sheet Metal Restoration facility at 60 Pinners Cove Road, formerly 39 Pinners Cove Road.
4. The term "hazardous substance" shall have the same definition as that contained in Section 101(14) of CERCLA and includes any mixtures of such pollutants and contaminants with any other substances. Petroleum products mixed with pollutants and contaminants are also included in this definition.
5. The term "hazardous waste" shall have the same definition as that contained in Section 1004(5) of RCRA.
6. The term "solid waste" shall have the same definition as that contained in Section 1004(27) of RCRA.
7. The term "materials" shall mean all substances that have been generated, treated, stored, or disposed of or otherwise handled at or transported to the Site, including but not limited to, all hazardous substances, pollutants and contaminants, hazardous wastes and solid wastes.
8. The term "hazardous material" shall mean all hazardous substances, pollutants or contaminants, and hazardous wastes, as defined above.
9. The term "non-hazardous material" shall mean all material as defined above, excluding hazardous substances, pollutants and contaminants, and hazardous waste.
10. The term "identify" means, with respect to a natural person, to set forth the person's name, present or last known business address and business telephone number, present or last known home address and home telephone number, and present or last known job title, position or business.

11. The term "identify" means, with respect to a corporation, partnership, business trust or other association or business entity (including a sole proprietorship), to set forth its full name, address, legal form (e.g., corporation, partnership, etc.), organization, if any, and a brief description of its business.
12. The term "identify" means, with respect to a document, to provide its customary business description, its date, its number, if any (invoice or purchase order number), the identity of the author, addressor, addressee and/or recipient, and the substance or the subject matter.
13. The term "release" has the same definition as that contained in Section 101(22) of CERCLA, 42 U.S.C. Section 9601(22), and includes any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment, including the abandonment or discharging of barrels, containers, and other closed receptacles containing any hazardous substance or pollutant or contaminant.
14. The terms "document" and "documents" shall mean any object that records, stores, or presents information, and includes writings of any kind, formal or informal, whether or not wholly or partially in handwriting, including by way of illustration and not by way of limitation, any invoice, manifest, bill of lading, receipt, endorsement, check, bank draft, canceled check, deposit slip, withdrawal slip, order, correspondence, record book, minutes, memorandum of telephone and other conversations including meetings, agreement and the like, diary, calendar, desk pad, scrapbook, notebook, bulletin, circular, form, pamphlet, statement, journal, postcard, letter, telegram, telex, report, notice, message, analysis, comparison, graph, chart, interoffice or intraoffice communications, photostat or other copy of any documents, microfilm or other film record, any photograph, sound recording on any type of device, any punch card, disc or disc pack; any tape or other type of memory generally associated with computers and data processing (together with the programming instructions and other written material necessary to use such punch card, disc, or disc pack, tape or other type of memory and together with printouts of such punch card, disc, or disc pack, tape or other type of memory); and (a) every copy of each document which is not an exact duplicate of a document which is produced, (b) every copy which has any writing, figure or notation, annotation or the like on it, (c) drafts, (d) attachments to or enclosures with any document, and (e) every document referred to in any other document.
15. The terms "and" and "or" shall be construed either disjunctively or conjunctively as necessary to bring within the scope of this Information Request any information which might otherwise be construed to be outside its scope.
16. The term "arrangement" means every separate contract or other agreement between two or more persons.
17. The terms "transaction" or "transact" mean any sale, transfer, giving, delivery, change in ownership, or change in possession.

18. Words in the masculine shall be construed in the feminine, and vice versa, and words in the singular shall be construed in the plural, and vice versa, where appropriate in the context of a particular question or questions.
19. All terms not defined herein shall have their ordinary meaning, unless such terms are defined in CERCLA, RCRA, 40 C.F.R. Part 300, or 40 C.F.R. Parts 260-280, in which case the statutory or regulatory definitions shall apply.

QUESTIONS

1. Identify the person(s) answering these Questions on behalf of Respondent.
2. For each and every Question contained herein, identify all persons consulted in the preparation of the answer.
3. For each and every Question herein, identify all documents consulted, examined, or referred to in the preparation of the answer and/or all documents that contain information responsive to the Question and provide true and accurate copies of all such documents.
4. Describe the nature of the activities or business (including duration of operations) at the Sheet Metal Restoration facility.
5. Describe any Sheet Metal Restoration operations that occurred in conjunction with Arden Electroplating, or CTS, or any other local business.
6. Describe any of Sheet Metal Restoration's business relations or relations of employees with the CTS Site or the Mills Gap Site.
7. Did Sheet Metal Restoration ever use, purchase, generate, store, treat, dispose of, or otherwise handle at its facility any hazardous substances? If the answer to the preceding question is anything other than an unqualified "no", identify:
 - a. In general terms the nature and quantity of the hazardous substances that were used, purchased, generated, stored, treated, disposed, or otherwise handled.
 - b. The chemical composition, characteristics, physical state (e.g., solid, liquid) of each hazardous substance so used, purchased, generated, stored, treated, disposed, or otherwise handled.
 - c. The persons who supplied Sheet Metal Restoration with each such hazardous substance.
 - d. When and how each such hazardous substance was used, purchased, generated, stored, treated, disposed, or otherwise handled.
8. Describe the chemical processes that have been used at Sheet Metal Restoration's facility during the period of time when the Respondent owned, leased, and/or operated the facility. Specify which processes involved the use of trichloroethylene (TCE), perchloroethylene (PCE), toluene, or any other solvent or petroleum product.
9. State whether PCE or TCE, toluene or any material containing PCE, TCE, or toluene was ever sold, stored, disposed of, used or otherwise handled at Respondent's facility

ENCLOSURE C

during the period of time when the Respondent owned, leased and/or operated its facility. If so, provide the following information:

- a. identify the chemical name and composition, trade name and FIFRA registration number, if any;
- b. the time period(s) during which each material was used;
- c. identify all persons who used each material at the facility during each period;
- d. describe briefly the purpose for which each material was used at the facility. If there was more than one use, describe each and when each was used;
- e. the total volume (in gallons) of each such material used during the time period, and if more than one time period is involved also provide the volume for each time period;
- f. identify the supplier(s) and provide copies of all contracts, service orders, shipping manifests, invoices, receipts, canceled checks and other documents pertaining to the supplying of each material;
- g. describe how and where each material was stored at Respondent's facility, including but not limited to, the kind and size of containers or tank(s), the storage area, pad or enclosure, the approximate average volume stored at the facility, and if the storage practice changed during the period, state how and when;
- h. state how frequently each material was delivered to the facility and in what volume on the average (estimate if exact frequency and volumes are not known);
- i. state whether each material was delivered to the facility in bulk or in closed containers and describe how each material was transferred to the storage containers or tank(s) including any equipment used and by whom;
- j. specify the locations at which each material was used;
- k. describe how each material was transported from the on-site storage to the point where it was applied, in what amounts, and whether this was done using containers, hoses, piping or other equipment;
- l. describe the procedures for cleaning any equipment used and where this was done;
- m. describe how, where, when, and by whom the material containers were cleaned out, and removed from the facility or disposed of;

- n. if any of the practices described in response to the above questions changed during that time period, describe the change and when it occurred.
10. Describe in detail and provide all documentation regarding drum (or other containers or straight dumping of waste) disposal/burial on Respondent's facility or the CTS Site or the Mills Gap Site or any other location.
11. Describe in detail and provide all documentation regarding the removal of any and all waste that was disposed/buried/dumped at Respondent's facility or the CTS Site or the Mills Gap Site. Please be specific as to, but do not limit your responses to, when, where, how much, and what confirmation samples were taken of soil/groundwater – including depth and constituents included in the analyses.
12. Provide a list of all contents of any and all drums, containers, and/or waste products that were buried or disposed of on Respondent's facility.
13. Provide all information on drums, containers, and/or waste products that were buried or disposed of on the CTS Site or the Mills Gap Site or any other location.
14. Provide all documentation of previous air, soil, sediment, or groundwater samples taken on Respondent's facility or any studies done with or without State direction. For groundwater samples, include the depth of all samples collected.
15. Provide all documentation of any Phase I or Phase II assessments performed on Respondent's facility – specify if conducted for land transaction purposes.
16. List all other Sheet Metal Restoration or other facilities, buildings, or divisions with different addresses that you accepted waste from, handled waste from, or brokered waste from. Include any and all Sheet Metal Restoration or other subsidiaries, partners, parent corporations, or other companies that you have contracted with to do the previously mentioned activities.
17. Describe all occurrences associated with violations, citations, deficiencies, and/or accidents concerning Respondent's facility during your ownership or operation. Provide copies of all documents associated with such an occurrence.
18. Describe all occurrences associated with violations, citations, deficiencies, and/or accidents concerning the CTS Site or the Mills Gap Site.
19. Provide a list of all local, state, and federal environmental permits granted for your facility or any part thereof (e.g., RCRA Permits, NPDES Permits, etc.)
20. Provide all documentation of hazardous waste generator, treatment, or storage activity, regardless of whether you notified anyone under RCRA of such activities.
21. Provide all documentation of any RCRA notifications of RCRA waste generator

activity, application for permits, and/or manifests of shipments of hazardous waste.

22. Describe the acts or omissions of any persons, other than your employees, agents or those persons with whom you had a contractual relationship that may have caused a release or threat of release of hazardous materials at Respondent's facility or at the CTS Site or at the Mills Gap Site. In addition:
 - a. Describe all precautions that you took against foreseeable acts or omissions of any such third parties, including but not limited to, Pechiney Plastic Packaging, Incorporated and the consequences that could foreseeably result from such acts or omissions.
 - b. Describe the care you exercised with respect to the hazardous materials at Respondent's facility. In other words, describe any affirmative acts you have taken to address the hazardous materials on your property, including any actions to mitigate continuing releases into the environment and to limit the threat posed to human health and the environment.
23. To the extent you have knowledge, for each and every past or current owner, operator, lessor, or lessee of any portion of Respondent's facility or the CTS Site or the Mills Gap Site, other than you:
 - a. Identify such person and the nature of their operation at Respondent's facility or the CTS Site or the Mills Gap Site or other facility;
 - b. Describe the portion of Respondent's facility or the CTS Site or the Mills Gap Site owned, operated, or leased by each such person and state the dates during which each portion was owned, operated or leased;
 - c. Provide copies of all documents evidencing or relating to such ownership, operation or lease, including but not limited to, purchase and sale agreements, deeds, leases, etc;
 - d. Provide all evidence that hazardous materials were released or were threatened to be released at Respondent's facility or the CTS Site or the Mills Gap Site during the period that they owned the facility.
24. Are you or your consultants planning to perform (or have you performed) any investigations of the soil, water (ground or surface), geology, hydrogeology, or air quality on or about the Respondent's facility? If so:
 - a. Describe the nature and scope of these investigations;
 - b. Identify the persons who are undertaking or who will undertake these investigations;

- c. Describe the purpose of the investigations;
 - d. State the dates of such investigations;
 - e. Describe as precisely as possible the locations at Respondent's facility where such investigations are taking or will take place.
25. Describe the nature/organizational structure of your business, including State incorporations, subsidiaries, parent companies, and number of employees.
26. Identify the officers, managers, and majority shareholders of Sheet Metal Restoration and the nature of their management duties, and amount of shares held, respectively.
27. Identify all persons who may be responsible for the liabilities of Respondent or the CTS Site or the Mills Gap Site arising from or relating to the release or threatened release of hazardous substances at Respondent's facility, or the CTS Site or the Mills Gap Site including but not limited to successors, officers, and individuals.
28. If you have reason to believe that there may be persons able to provide a more detailed or complete response to any question contained herein or who may be able to provide additional responsive documents, identify such persons (including contact information) and the additional information or documents that they may have.
29. For each and every question contained herein, if information or documents responsive to this Information Request are not in your possession, custody or control, then identify the persons from whom such information or documents may be obtained.

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OFFICIAL USE

Postage	\$	Postmark Here
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Restricted Delivery Fee (Endorsement Required)		
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Sent To: Mark + Kelly Hermann

Street, Apt. No., or PO Box No. _____

City, State, ZIP+4 _____

PS Form 3800, August 2006 See Reverse for Instructions

7009 0960 0000 6488 7565

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <u>Mark A. Hermann</u> C. Date of Delivery <u>June 29 2010</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If YES, enter delivery address below:</p>
<p>1. Article Addressed to:</p> <p><u>Mark A. & Kelly Hermann</u> <u>60 Pinners Cove Road</u> <u>Asheville, NC 28803</u></p>	<p>3. Service Type</p> <p><input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>
<p>2. Article Number (Transfer from service label)</p> <p><u>7009 0960 0000 6488 7565</u></p>	<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
PS Form 3811, February 2004	Domestic Return Receipt
	102595-02-M-1540

Information Request Responses for EPA
For Sheetmetal Restoration Services

1. Mark Hermann, Kelly Hermann
2. Mark Hermann, Kelly Hermann
3. MSDS sheets, Articles of Organization and Dissolution
4. Business conducted between December 11, 2006 and December 10, 2008. Sheetmetal Restoration was a home-based media blasting facility, working primarily with automobiles and small metal parts, including lawn furniture, for the purpose of rust removal.
5. Sheetmetal Restoration did not conduct business with any other local businesses. All work done was for individuals on an individual basis.
6. Sheetmetal Restoration did not have any business dealings with CTS or the Mills Gap site. It was not in operation at that time.
7. Yes.
 - a. Aluminum Oxide blasting media, purchased in 60lb bags. Glass beads, blasting media, purchased in 40lb bags. Walnut shells, blasting media, purchased in 60lb bags. Urea, blasting media, purchased in 60lb bags.
 - b. All substances were solids. See attached MSDS sheets.
 - c. Rodeco Company (Sanford, NC) 800-849-0871, Blast-it-all (Salisbury, NC), Media Prep (High Point, NC) 800-682-4187
 - d. All substances were mixed with compressed air to be blasted onto a given work surface to physically remove paint, rust, and scale. All substances were stored in individual blasting pots and 55-gallon drums, depending upon application. All media was recycled back into the blasting pots, so disposal was unnecessary. Some media was carried out by blasted vehicles, but the nature of blasting is that the media breaks down into small particulate over time.
8. Blasting required no chemical processes. The air compressor was powered by diesel fuel.
9. Toluene is a component of automotive paints, thinners, and catalysts used for personal projects prior to the operation of Sheetmetal Restoration. They were not used in the business or offered commercially as a service for Sheetmetal Restoration. No waste was generated or stored in quantities greater than 5 to 8 gallons in total over the operational duration of the business.



10785672

9. continued

- a. BASF, Transtar, and Carolina Auto Parts paints, thinners, and reducers.
- b. Home purchased in 2003 until present.
- c. Mark A. Hermann
- d. Automotive paints applied by compressed air, high-volume, low-pressure paint guns. Approximately 15 to 20 times over the last 7 seven years for personal use.
- e. Total volume base-coat paints: 5 gallons, clearcoat: 5-7 gallons, reducers and thinners: 20 gallons.
- f. Purchased from MotorParts of Asheville and Carolina Auto Parts on an individual project basis.
- g. Stored in original containers inside metal storage cabinets at our concrete workshop on site. Approximate volumes stored: 10-15 gallons maximum.
- h. Frequency based upon personal projects.
- i. Not delivered. Acquired per personal project basis at vendor location. No storage containers or tanks were required.
- j. On site, 60 Pinner's Cove Rd, formerly 39 Pinner's Cove Rd.
- k. Not Applicable
- l. Paint guns cleaned with acetone on site.
- m. Excess materials and used thinners were placed in a 5-gallon bucket. Solvents were allowed to evaporate. Solids were then disposed of in standard trash.
- n. No changes.

10. None.

11. None.

12. None.

13. None.

14. None.

15. Not applicable.

16. None.

17. None.

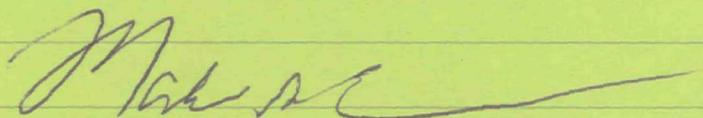
18. None.

19. None.

20. None.

For any further
questions, please feel free
to call me on my
cell phone.
(828)-775-9306

Mark Hermann



21. None.

22. None.

23. Unknown.

24. No.

25. Sheetmetal Restoration Service was a Limited Liability Company.

26. Mark A. Hermann was the sole member of the LLC.

27. Unknown.

28. Unknown.

29. Not Applicable.



NORTH CAROLINA

Department of The Secretary of State

To all whom these presents shall come, Greetings:

I, **ELAINE F. MARSHALL**, Secretary of State of the State of North Carolina, do hereby certify the following and hereto attached to be a true copy of

ARTICLES OF ORGANIZATION

OF

SHEETMETAL RESTORATION SERVICE, LLC

the original of which was filed in this office on the 11th day of December, 2006.



IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal at the City of Raleigh, this 11th day of December, 2006

Elaine F. Marshall

Secretary of State



NORTH CAROLINA

Department of The Secretary of State

To all whom these presents shall come, Greetings:

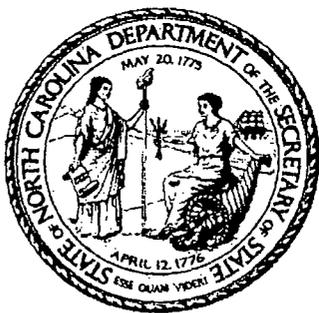
I, **ELAINE F. MARSHALL**, Secretary of State of the State of North Carolina, do hereby certify the following and hereto attached to be a true copy of

ARTICLES OF DISSOLUTION

OF

SHEETMETAL RESTORATION SERVICE, LLC

the original of which was filed in this office on the 10th day of December, 2008.



IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal at the City of Raleigh, this 10th day of December, 2008

Elaine F. Marshall

Secretary of State

Q # 7a



Science Lab.com
Chemicals & Laboratory Equipment



Health	2
Fire	0
Reactivity	0
Personal Protection	E

Material Safety Data Sheet Aluminum oxide MSDS

Section 1: Chemical Product and Company Identification

Product Name: Aluminum oxide
Catalog Codes: SLA3484, SLA1138
CAS#: 1344-28-1
RTECS: BD1200000
TSCA: TSCA 8(b) inventory: Aluminum oxide
CI#: Not applicable.
Synonym: Alumina; Alpha-alumina; Aluminum Oxide, Powder
Chemical Name: Aluminium Oxide
Chemical Formula: Al₂O₃

Contact Information:
Sciencelab.com, Inc.
 14025 Smith Rd.
 Houston, Texas 77396
 US Sales: **1-800-901-7247**
 International Sales: **1-281-441-4400**
 Order Online: ScienceLab.com
CHEMTREC (24HR Emergency Telephone), call:
 1-800-424-9300
International CHEMTREC, call: 1-703-527-3887
For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Aluminum oxide	1344-28-1	100

Toxicological Data on Ingredients: Aluminum oxide LD50: Not available. LC50: Not available.

Section 3: Hazards Identification

Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.
Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. **MUTAGENIC EFFECTS:** Not available.
TERATOGENIC EFFECTS: Classified None. for human. **DEVELOPMENTAL TOXICITY:** Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact:

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Chlorine Trifluoride reacts violently with Aluminum Oxide producing a flame.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:

Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 24°C (75.2°F).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

TWA: 10 (mg/m³) from ACGIH (TLV) [United States] Inhalation Total. TWA: 10 (mg/m³) [Canada] Inhalation Total. TWA: 5 (mg/m³) from OSHA (PEL) [United States] Inhalation Respirable. TWA: 15 from OSHA (PEL) [United States] Inhalation Total. TWA: 10 [United Kingdom (UK)] Inhalation Total. TWA: 4 [United Kingdom (UK)] Inhalation Respirable. Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Solid crystalline powder.)

Odor: Odorless.

Taste: Not available.

Molecular Weight: 101.96 g/mole

Color: White.

pH (1% soln/water): Not applicable.

Boiling Point: 2980°C (5396°F)

Melting Point: 2072°C (3761.6°F)

Critical Temperature: Not available.

Specific Gravity: 4 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility:

Very slightly soluble in cold water. Insoluble in hot water. Practically insoluble in non-polar organic solvents. Slowly soluble in aqueous alkali solution-forming hydroxides. Very slightly soluble in acid, alkali.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents, acids.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:

Chlorine Trifluoride reacts violently with Aluminum Oxide producing a flame. Ethylene oxide may polymerize violently when in contact with highly catalytic surfaces such as pure Aluminum Oxide. Reacts with hot chlorinated rubber.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals:

LD50: Not available. LC50: Not available.

Chronic Effects on Humans:

CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. TERATOGENIC EFFECTS: Classified None. for human.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: May cause cancer (tumorigenic) according to animal data. No human data found.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: Nuisance Dust. Dust may cause mechanical eye irritation. Inhalation: Nuisance Dust. Material is irritating to mucous membranes and upper respiratory tract. May cause lung injury. Ingestion: May be harmful if swallowed. Ingestion of large amounts may cause gastrointestinal tract irritation. It is expected to be a low hazard for normal industrial handling.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations:

Illinois toxic substances disclosure to employee act: Aluminum oxide Rhode Island RTK hazardous substances: Aluminum oxide Minnesota: Aluminum oxide Massachusetts RTK: Aluminum oxide New Jersey: Aluminum oxide New Jersey spill list: Aluminum oxide California Director's list of Hazardous Substances: Aluminum oxide TSCA 8(b) inventory: Aluminum oxide SARA 313 toxic chemical notification and release reporting: Aluminum oxide

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

R36/38- Irritating to eyes and skin. S2- Keep out of the reach of children. S46- If swallowed, seek medical advice immediately and show this container or label.

HMS (U.S.A.):

Health Hazard: 2

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

Section 16: Other Information

References:

-Material safety data sheet emitted by: la Commission de la Santé et de la Sécurité du Travail du Québec. -The Sigma-Aldrich Library of Chemical Safety Data, Edition II. -Hawley, G.G.. The Condensed Chemical Dictionary, 11e ed., New York N.Y., Van Nostrand Reinold, 1987.

Other Special Considerations: Not available.

Created: 10/09/2005 03:40 PM

Last Updated: 11/06/2008 12:00 PM

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for

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MATERIAL SAFETY DATA SHEET

SECTION I: MANUFACTURER & MATERIAL IDENTIFICATION

Manufacturer Kramer Industries, Inc. Emergency Phone 732-650-9599
140 Ethel Road West
Suite U
Piscataway, NJ 08854-5951

Product **Glass Beads**

CAS Number N/A

Date Prepared Revised 01/10

SECTION II: HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS	CAS #	PEL (ppm)	TLV (ppm)
No hazardous components	Mixture	N/A	N/A

SECTION III: PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling point (°C)	>93	Specific Gravity (H ₂ O = 1)	N/A
Vapor Pressure (mm Hg)	N/A	Melting Point (°C)	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	None		
Appearance	Off-white powder		
Odor	None		

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

Flash Point (°C)	None
Flammable Limits	N/A
Extinguishing Media	CO ₂ , Water spray, Dry chemical, Foam
Special Procedures	SCBA recommended
Unusual Fire & Explosion Hazards	None known

SECTION V: REACTIVITY DATA

Stability	Stable
Conditions to Avoid	None known
Incompatibility	Strong oxidizers
Hazardous Decomposition	Will not occur
Hazardous Polymerization	Will not occur

MSDS for **Glass Beads** cont.

SECTION VI: HEALTH HAZARD DATA

Routes of Exposure	Symptoms
Inhalation	Mild irritation of nasal passages
Skin	None known
Eyes	None known
Ingestion	None known
	First Aid
Inhalation	Remove to fresh air
Skin	Wash thoroughly with soap and water
Eyes	Flush with copious amounts of water for 15 minutes
Ingestion	Do not induce vomiting; Drink water or milk; Seek medical attention

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

Spill	Absorb with sand or other absorbent material
Waste Disposal	Sweep into approved chemical waste container
Handling & Storage	No precautions required

SECTION VIII: CONTROL MEASURES

Respiratory Protection	None required
Ventilation	Local exhaust
Protective Gloves	Neoprene rubber gloves
Eye Protection	Chemical splash goggles
Other Equipment	None required
Work/Hygiene Practices	Observe standard industrial hygiene practices

SECTION IX: REGULATORY STATUS

NTP	Not listed
IARC Monographs	Not listed
OSHA Regulated	Not regulated

The information contained in this material safety data sheet is, to our best knowledge, true and accurate, but all recommendations or suggestions are made without guarantee, since the conditions of use are beyond our control. It is the user's responsibility to determine the safety, toxicity and suitability for his own use of the product described herein. KRAMER INDUSTRIES, INC. disclaims any liability incurred in connection with the use of these data or suggestions.

Material Safety Data Sheet

May be used to comply with OSHA'S Hazard Communication Standard, 29CFR1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Admin. (Non-Mandatory Form)

Section I

IDENTITY: (As used on label and list) **WALNUT SHELL**

Manufacturer's Name: Eco-Shell, Inc.
 Emergency Telephone Number: (530) 824-8794 or (530) 529-1585
 Address: 5230 Grange Road, Corning, CA 96021
 Telephone for Information: (530) 824-8794

Section II – Hazardous Ingredients/Identity Information

The chemicals listed under section II of the MSDS for this product is not reportable under SARA 313. If the product is reportable under this regulation, it will be noted in section II.

Section III

Boiling Point	N/A	Specific Gravity (H2O-1)	1.2
Vapor Pressure (MM Hg)	N/A	Melting Point	N/A
Vapor Density (Air – 1)	N/A	Evaporation	N/A

Solubility in water:	Not water soluble
Odor and appearance:	No odor – Light brown in color
Flash Point:	380°F
Flammable limits:	470°F
Media used in extinguishing:	Water
Special fire fighting procedure:	None

Fire and Explosion Hazards:

If improperly handled, stored and/or exposed to and ignition source, this material may burn. High concentrations of dust in air can explode if sufficient temperature and ignition source occurs.

Section IV – Health Hazard Data

No Acute Hazards Known

Section V – Reactivity Data

Stability:	Stable
Incompatibility (Materials to avoid)	None
Hazardous Polymerization:	None

Section VI – Health Hazards (Acute and Chronic)

None Known

Steps to be taken if material is released or spilled:

Sweep, Shovel up, or Vacuum

Waste Disposal Methods:

No special requirements

Precautions to be take in handling and storing:

None

Other Precautions:

None

Section VIII – Control Measures

Ventilation: Local Exhaust

Nuisance Dust Levels

Protective clothing, gloves, or equipment:

Not required

Eye Protection:

Not required – Safety goggles recommended

Ground English Walnut Shell

PROPERTIES:

Dual Screen Aggregates have the following characteristics

SPECIFIC GRAVITY	1.2 – 1.4
pH VALUE AT 25°C (IN WATER)	4-6
FREE MOISTURE (80°C FOR 15HRS)	3-9%
FLASH POINT (CLOSED CUP)	380°
HARDNESS -VICKERS NO	25-30
MOHS SCALE	3-4
DRY PACKING DENSITY (LBS PER CU. FT.)	22-74

GSA Specification:	AA-1722	Type 2
Military Specification:	MIL-G-5634	Type 3

CHEMICAL ANALYSIS

Nitrogen	0.10
Cellulose	40/60
Lignin	20/30
Toluene Solubility	0.5/1.0
Methoxyl	6.5
Chlorine	0.10
Ash	1.5
Cutin	1.0

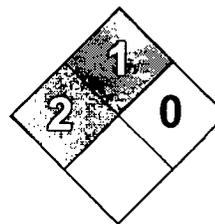
Eco-Shell, Inc.

5230 Grange Road

Corning, CA 96021

Phone: 1-(530)-824-8794

FAX: 1-(530)-824-8798



Health	2
Fire	1
Reactivity	0
Personal Protection	E

Material Safety Data Sheet Urea MSDS

Section 1: Chemical Product and Company Identification

Product Name: Urea

Catalog Codes: SLU1063, SLU1132, SLU1093, SLU1162

CAS#: 57-13-6

RTECS: YR6250000

TSCA: TSCA 8(b) inventory: Urea

CI#: Not available.

Synonym: Carbamide

Chemical Name: carbonyldiamide

Chemical Formula: (NH₂)₂CO or CH₄N₂O

Contact Information:

Sciencelab.com, Inc.

14025 Smith Rd.

Houston, Texas 77396

US Sales: **1-800-901-7247**

International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:

1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Urea	57-13-6	100

Toxicological Data on Ingredients: Urea: ORAL (LD50): Acute: 8471 mg/kg [Rat]. 11000 mg/kg [Mouse].

Section 3: Hazards Identification

Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. **MUTAGENIC EFFECTS:** Mutagenic for mammalian somatic cells.

TERATOGENIC EFFECTS: Not available. **DEVELOPMENTAL TOXICITY:** Not available. The substance may be toxic to blood, cardiovascular system. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact:

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...).

Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of heat.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:

Keep locked up.. Keep away from heat. Keep away from sources of ignition..Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice

immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 23°C (73.4°F).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Crystals solid.)

Odor:

Almost odorless; May gradually develop slight odor of ammonia, especially in presence of moisture.

Taste: Cooling. Saline

Molecular Weight: 60.06 g/mole

Color: White.

pH (1% soln/water): Not available.

Boiling Point: Not available.

Melting Point: 132.7°C (270.9°F)

Critical Temperature: Not available.

Specific Gravity: 1.323 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: 2.07 (Air = 1)

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: The product is more soluble in water; $\log(\text{oil/water}) = -2.1$

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water.

Solubility: Easily soluble in cold water, hot water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, excess dust generation, incompatible materials.

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Not available.

Special Remarks on Reactivity:

Hygroscopic. Absorbs moisture from air. Reacts violently with Gallium Perchlorate. Reacts with chlorine to form chloramines. It also reacts with the following: sodium hypochlorite, sodium nitrate, calcium hypochlorite, NaNO₂, P₂Cl₅, nitrosyl perchlorate, strong oxidizing agents (permanganate, nitrate, dichromate, chloride)

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD₅₀): 8471 mg/kg [Rat].

Chronic Effects on Humans:

MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. May cause damage to the following organs: blood, cardiovascular system.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

May cause adverse reproductive effects (fetotoxicity) and genetic material (mutagenicity) based on animal studies. Passes through the placental barrier in human and is present in breast milk.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: Causes skin irritation. Eyes: Causes eye irritation. Inhalation: Causes irritation of the respiratory tract, nose, and throat, coughing and sneezing. May also affect blood, metabolism and urinary system. Ingestion: Causes digestive (gastrointestinal) tract irritation with nausea, vomiting, and diarrhea. May affect behavior (altered sleep time, change in motor activity), cardiovascular system (heart rate), and the brain. May also affect the blood and may cause tumorigenic effects. **Chronic Potential Health Effects:** Prolonged exposure may cause adverse reproductive effects. Laboratory experiments on animals have resulted in mutagenic effects. Prolonged exposure or exposure at high concentrations may cause eye damage.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD₅ and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Reference 7

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations:

Minnesota: Urea TSCA 8(b) inventory: Urea

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

R36/38- Irritating to eyes and skin. R40- Possible risks of irreversible effects. S24/25- Avoid contact with skin and eyes.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/10/2005 08:32 PM

Last Updated: 11/06/2008 12:00 PM

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REFERENCE 8

AERIAL PHOTOGRAPHIC ANALYSIS OF MILLS GAP ROAD GROUNDWATER CONTAMINATION SITE

Asheville, North Carolina

Volume 2

by

W. M. Mack
Environmental Services
Lockheed Environmental Services
Las Vegas, Nevada 89119

Contract No. EP-D-05-088

Work Assignment Manager

J. Lin
Landscape Ecology Branch
Environmental Sciences Division
Las Vegas, Nevada 89193-3478

ENVIRONMENTAL SCIENCES DIVISION
NATIONAL EXPOSURE RESEARCH LABORATORY
OFFICE OF RESEARCH AND DEVELOPMENT
U. S. ENVIRONMENTAL PROTECTION AGENCY
LAS VEGAS, NEVADA 89193-3478



**FIGURE 1. SITE LOCATION MAP, NORTH CAROLINA (USGS, 1972).
APPROXIMATE SCALE 1:2,240,000.**

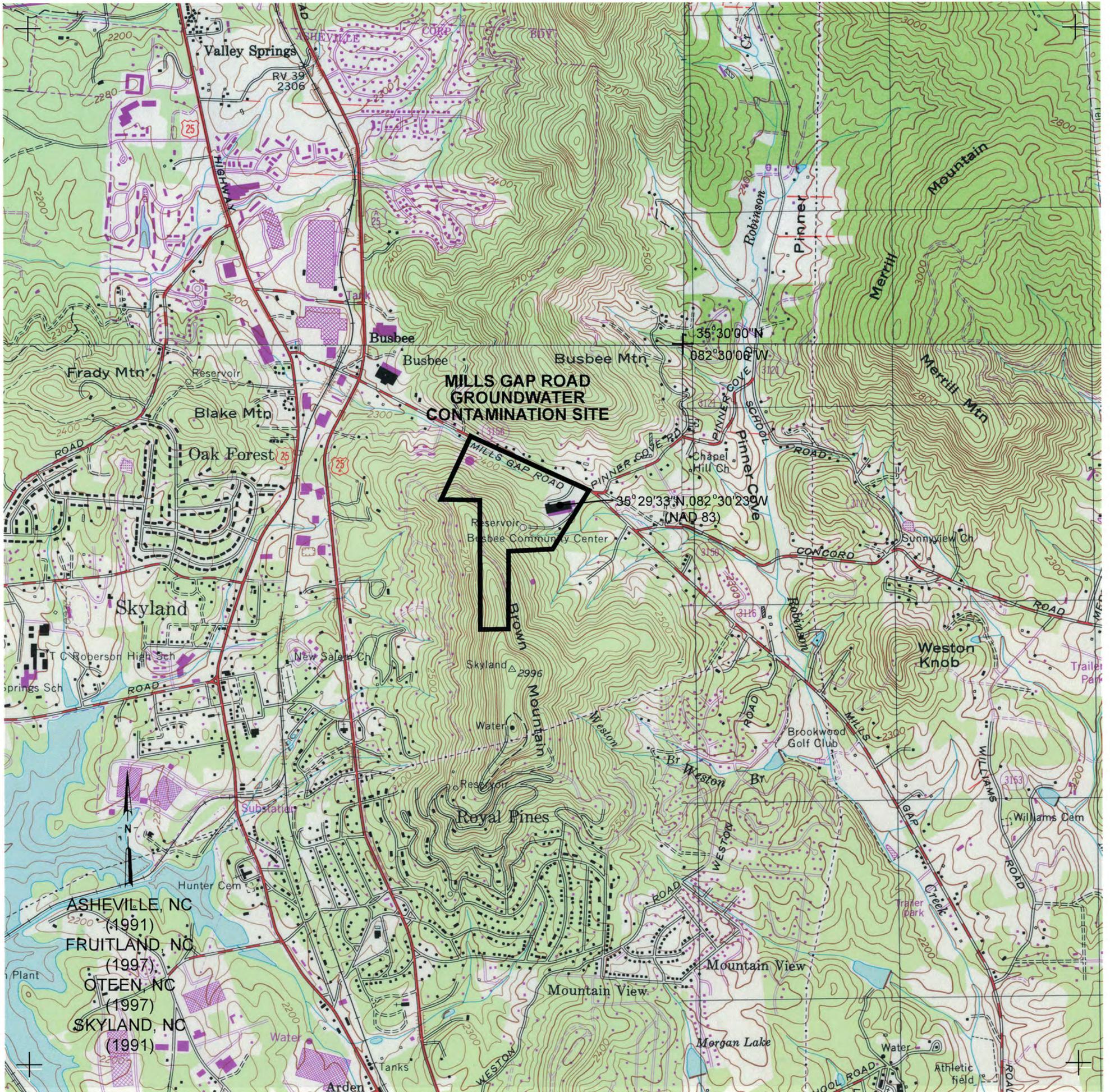


FIGURE 2. LOCAL SITE LOCATION MAP, ASHEVILLE, NC (USGS, 1991), FRUITLAND, NC (USGS, 1997), OTEEN, NC (USGS, 1997), AND SKYLAND, NC (USGS, 1991). APPROXIMATE SCALE 1:14,370.



FIGURE 3. MILLS GAP ROAD GROUNDWATER CONTAMINATION SITE, MAY 9, 1951. APPROXIMATE SCALE 1:3,290.



FIGURE 4. MILLS GAP ROAD GROUNDWATER CONTAMINATION SITE, OCTOBER 6, 1963. APPROXIMATE SCALE 1:3,290.

REFERENCE 9

June 15, 2011

Charles F. Adams
2240 Hyde Street
San Francisco, California 94109

Dear Sirs

Enclosed is a copy of the material originally sent to you by me on December 27, 2010. Sent it was not returned it was received by your office

Charles F. Adams

Charles F. Adams
2240 Hyde Street
San Francisco, California 94109

Att. Lisa Ellis



United States Environmental Protection
Region 4
Atlanta Federal Center
61 Forsyth St.
Atlanta, Georgia 30303-8960

Charles F. Adams
2240 Hyde Street
San Francisco, California 94109

Dec. 27, 2010

Dear Sus -

In response to your letter of Dec. 23, 2010 regarding the property at 39 Pinner's Cove, I give you the following information.

- 1.) I did own this property from approximately July, 1993 to July, 2003
 - 2.) I never lived on the property, but rented it to my son, James R. Adams and his family as their residence. His family consisted of his wife and two small children.
 - 3.) This was not a place of business and hence had no employees.
 - 4.) The home was never painted or restored while it was in my possession, and only routine
-

(2)

Charles F. Adams
2240 Hyde Street
San Francisco, California 94109

maintenance took place

5.) The house had city water and no wells when I owned it.

6.) I am confident no hazardous materials of any kind were used while the house was in my possession.

7.) I have no knowledge of any activities that took place at CTS the CTS Site or the Mills Gap Site.

8.) If you need to contact my son, please feel free to do so. His phone is (360) 928-1180.

9.) My phone number is (415) 771-5747 - if I can be of further assistance.

Charles F. Adams



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

DEC 23 2010

INFORMATION REQUEST LETTER
URGENT LEGAL MATTER - PROMPT REPLY REQUESTED
VIA CERTIFIED MAIL - RETURN RECEIPT

Charles F. Adams
2240 Hyde Street, Apt. #5
San Francisco, CA 94109

RE: Request for Information Pursuant to Section 104(e) of CERCLA
Mills Gap Road Groundwater Contamination Superfund Site (the Mills Gap Site)
EPA ID # NCSFN0406988
CTS of Asheville, Inc. Site (the CTS Site)
EPA ID # NCD003149556
Asheville, Buncombe County, North Carolina

Dear Mr. Adams:

The purpose of this letter is to request that you, as the former owner of 39 Pinner's Cove Road (which was known as 60 Pinner's Cove Road in Asheville, North Carolina at the time of your ownership), respond to the enclosed Information Request. The United States Environmental Protection Agency (EPA) is currently investigating the release or threatened release of hazardous substances, pollutants or contaminants, or hazardous wastes on or about the above-referenced Sites. This investigation requires inquiry into the identification, nature, and quantity of materials generated, treated, stored, or disposed of at, or transported to, the Sites and the nature or extent of a release or threatened release of a hazardous substance or pollutant or contaminant at, from or in the areas surrounding the Sites. EPA also is seeking information relating to the ability of persons to pay for or to perform response actions at the Sites.

The two Sites that are the subject of this letter are interrelated. The CTS Site is located off Mills Gap Road, approximately one mile east of Skyland, in Buncombe County, North Carolina, and consists of approximately nine acres of maintained grounds containing a large, single-story building. In 1952, International Resistance Company, Inc. (IRC) bought the land and constructed the building which was used for its electroplating operations. In 1959, IRC sold the property to

CTS, Inc (CTS). From 1959 to 1986, CTS operated an electroplating facility at the Site. In 1987, Mills Gap Road Associates (MGRA) purchased the Site and is the current owner.

Environmental sampling indicates the subsurface beneath the former plant is contaminated with the chemical compound trichloroethylene (a.k.a. trichloroethene or TCE), as well as petroleum products. In 1999, TCE was discovered in nearby springs and one residential drinking water well. The Mills Gap Site was listed in the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) at this point and encompasses contamination of springs and private wells in the area that may be attributable to the CTS Site. In December 2007, EPA and the North Carolina Department of Environment and Natural Resources (NCDENR) commenced more extensive sampling that included expanded residential well sampling and vapor intrusion sampling at homes in close proximity to the CTS and the Mills Gap Sites. This letter is being sent to you as part of an investigation to find companies and individuals who may have information that could assist in EPA's research in the area surrounding the Sites.

Pursuant to the authority of Section 104 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C. § 9604, as amended, and Section 3007 of the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. § 6927, you are hereby requested to respond to the Information Request set forth in Enclosures hereto.

Compliance with the Information Request is mandatory. Failure to respond fully and truthfully to the Information Request within thirty (15) days of receipt of this letter, or to adequately justify such failure to respond, can result in an enforcement action by EPA pursuant to Section 104(e) of CERCLA, as amended, and/or Section 3008 of RCRA. Each of these statutes permits EPA to seek the imposition of penalties of up to thirty-seven thousand five hundred dollars (\$37,500) for each day of continued non-compliance. Please be further advised that provision of false, fictitious, or fraudulent statements or representations to the Information Request may subject you to criminal penalties under 18 U.S.C. § 1001 or Section 3008(d) of RCRA, 42 U.S.C. § 6928(d).

This Information Request is not subject to the approval requirements of the Paperwork Reduction Act of 1980, 44 U.S.C. § 3501, et seq.

Your response to this Information Request should be mailed to:

Lisa Ellis
Office of Environmental Accountability – 13th floor
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, S.W.
Atlanta, Georgia 30303

Due to the seriousness of the issues at the Sites and the legal ramifications of failing to respond properly, EPA strongly encourages you to give this matter immediate attention and to respond to this Information Request within the time specified above. If you have any questions

DEFINITIONS

The following definitions shall apply to the following words as they appear in this Information Request:

1. The term "you" or "Respondent" shall mean Charles F. Adams, the addressee of this Request, the addressee's officers, managers, employees, contractors, trustees, partners, successors, assigns, spouses, and agents.
2. The term "person" shall have the same definition as in Section 101(21) of CERCLA: an individual, firm, corporation, association, partnership, consortium, joint venture, commercial entity, United States Government, State, municipality, commission, political subdivision of a State, or any interstate body.
3. The terms the "Site" or the "facility" shall mean and include the property on or about the Mills Gap Site and the CTS Site property in Asheville, Buncombe County, North Carolina unless described as the Respondent's facility or site in which case the terms shall mean operations at the formerly know address of 60 Pinners Cove Road in Asheville, North Carolina (now known as 39 Pinners Cove Road, Asheville, North Carolina).
4. The term "hazardous substance" shall have the same definition as that contained in Section 101(14) of CERCLA and includes any mixtures of such pollutants and contaminants with any other substances. Petroleum products mixed with pollutants and contaminants are also included in this definition.
5. The term "hazardous waste" shall have the same definition as that contained in Section 1004(5) of RCRA.
6. The term "solid waste" shall have the same definition as that contained in Section 1004(27) of RCRA.
7. The term "materials" shall mean all substances that have been generated, treated, stored, or disposed of or otherwise handled at or transported to the Site, including but not limited to, all hazardous substances, pollutants and contaminants, hazardous wastes and solid wastes.
8. The term "hazardous material" shall mean all hazardous substances, pollutants or contaminants, and hazardous wastes, as defined above.
9. The term "non-hazardous material" shall mean all material as defined above, excluding hazardous substances, pollutants and contaminants, and hazardous waste.
10. The term "identify" means, with respect to a natural person, to set forth the person's name, present or last known business address and business telephone number, present or last known home address and home telephone number, and present or last known job

title, position or business.

11. The term "identify" means, with respect to a corporation, partnership, business trust or other association or business entity (including a sole proprietorship), to set forth its full name, address, legal form (e.g., corporation, partnership, etc.), organization, if any, and a brief description of its business.
12. The term "identify" means, with respect to a document, to provide its customary business description, its date, its number, if any (invoice or purchase order number), the identity of the author, addressor, addressee and/or recipient, and the substance or the subject matter.
13. The term "release" has the same definition as that contained in Section 101(22) of CERCLA, 42 U.S.C. Section 9601(22), and includes any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment, including the abandonment or discharging of barrels, containers, and other closed receptacles containing any hazardous substance or pollutant or contaminant.
14. The terms "document" and "documents" shall mean any object that records, stores, or presents information, and includes writings of any kind, formal or informal, whether or not wholly or partially in handwriting, including by way of illustration and not by way of limitation, any invoice, manifest, bill of lading, receipt, endorsement, check, bank draft, canceled check, deposit slip, withdrawal slip, order, correspondence, record book, minutes, memorandum of telephone and other conversations including meetings, agreement and the like, diary, calendar, desk pad, scrapbook, notebook, bulletin, circular, form, pamphlet, statement, journal, postcard, letter, telegram, telex, report, notice, message, analysis, comparison, graph, chart, interoffice or intraoffice communications, photostat or other copy of any documents, microfilm or other film record, any photograph, sound recording on any type of device, any punch card, disc or disc pack; any tape or other type of memory generally associated with computers and data processing (together with the programming instructions and other written material necessary to use such punch card, disc, or disc pack, tape or other type of memory and together with printouts of such punch card, disc, or disc pack, tape or other type of memory); and (a) every copy of each document which is not an exact duplicate of a document which is produced, (b) every copy which has any writing, figure or notation, annotation or the like on it, (c) drafts, (d) attachments to or enclosures with any document, and (e) every document referred to in any other document.
15. The terms "and" and "or" shall be construed either disjunctively or conjunctively as necessary to bring within the scope of this Information Request any information which might otherwise be construed to be outside its scope.
16. The term "arrangement" means every separate contract or other agreement between two or more persons.

17. The terms "transaction" or "transact" mean any sale, transfer, giving, delivery, change in ownership, or change in possession.
 18. Words in the masculine shall be construed in the feminine, and vice versa, and words in the singular shall be construed in the plural, and vice versa, where appropriate in the context of a particular question or questions.
 19. All terms not defined herein shall have their ordinary meaning, unless such terms are defined in CERCLA, RCRA, 40 C.F.R. Part 300, or 40 C.F.R. Parts 260-280, in which case the statutory or regulatory definitions shall apply.
-

QUESTIONS

1. Identify the person(s) answering these Questions on behalf of Respondent.
Charles F. Adams, former owner
2. For each and every Question contained herein, identify all persons consulted in the preparation of the answer.
*James R. Adams, my son
Have phone no. in letter*
3. For each and every Question herein, identify all documents consulted, examined, or referred to in the preparation of the answer and/or all documents that contain information responsive to the Question and provide true and accurate copies of all such documents.
None
4. Describe the nature of Respondent's activities or business (including duration of operations) at the former 60 Pinners Cove Road, Asheville, North Carolina (60 Pinners Cove Rd) property.
None
5. Describe whether Respondent used the 60 Pinners Cove Rd additionally as a residence.
As a residence
6. Describe any painting business that was operated at the 60 Pinners Cove Rd property. Describe any items that were painted at or near the 60 Pinners Cove Rd property.
None
7. Describe in detail and list any solvents that were used, stored, or sold from the 60 Pinners Cove Rd property. Describe in detail all disposal and/or recycling practices that involved any solvents at or from the 60 Pinners Cove Rd property.
None
8. Describe any spills of chemicals or solvents that may have taken place during your ownership of the 60 Pinners Cove Rd property at the property or near the property. Describe all measures taken to clean up any such spills.
None
9. List and describe any insurance policies taken out for any businesses or activities conducted at 60 Pinners Cove Rd. Include a list and description of any insurance policies taken out for the property in general.
None
10. List the names, titles, duties and terms of any and all employees (short term or otherwise) and any contact information for them in your possession for any activities or businesses operating at 60 Pinners Cove Rd.
None
11. Describe any operations that occurred on the CTS Site of which you are aware, during the time of your ownership of 60 Pinners Cove Rd and at any other time.
None
12. Describe any of your business relations or relations of employees with CTS, the CTS Site, or the Mills Gap Site.
None
13. Describe any positions held at CTS by any of your employees prior to, or
None

contemporaneous with, their employment with you.

14. Did you, or anyone employed by you, or anyone present at 60 Pinnars Cove Rd ever use, purchase, generate, store, treat, dispose of, or otherwise handle at 60 Pinnars Cove Road or at the CTS Site any hazardous substances? If the answer to the preceding question is anything other than an unqualified "no", identify:

None

- a. In general terms the nature and quantity of the hazardous substances that were used, purchased, generated, stored, treated, disposed, or otherwise handled.
- b. The chemical composition, characteristics, physical state (e.g., solid, liquid) of each hazardous substance so used, purchased, generated, stored, treated, disposed, or otherwise handled.
- c. The persons who were the suppliers of each such hazardous substance.
- d. When and how each such hazardous substance was used, purchased, generated, stored, treated, disposed, or otherwise handled.

15. Describe the chemical processes that have been used at 60 Pinnars Cove Rd, or at the CTS Site, during the period of time when the Respondent owned, leased, and/or operated at or near 60 Pinnars Cove Rd. Specify which processes involved the use of trichloroethylene (TCE), perchloroethylene (PCE), toluene, or any other solvent or petroleum product.

None

16. State whether PCE or TCE, toluene or any material containing PCE, TCE, or toluene was ever sold, stored, disposed of, used or otherwise handled at Respondent's facility or the CTS Site during the period of time when the Respondent owned, leased and/or operated at or near 60 Pinnars Cove Rd. If so, provide the following information:

None

- a. identify the chemical name and composition, trade name and FIFRA registration number, if any;
- b. the time period(s) during which each material was used;
- c. identify all persons who used each material at the facility during each period;
- d. describe briefly the purpose for which each material was used at the facility. If there was more than one use, describe each and when each was used;
- e. the total volume (in gallons) of each such material used during the time period, and if more than one time period is involved also provide the volume for each time period;

- f. identify the supplier(s) and provide copies of all contracts, service orders, shipping manifests, invoices, receipts, canceled checks and other documents pertaining to the supplying of each material;
- g. describe how and where each material was stored at Respondent's facility, including but not limited to, the kind and size of containers or tank(s), the storage area, pad or enclosure, the approximate average volume stored at the facility, and if the storage practice changed during the period, state how and when;
- h. state how frequently each material was delivered to the facility and in what volume on the average (estimate if exact frequency and volumes are not known);
- i. state whether each material was delivered to the facility in bulk or in closed containers and describe how each material was transferred to the storage containers or tank(s) including any equipment used and by whom;
- j. specify the locations at which each material was used;
- k. describe how each material was transported from the on-site storage to the point where it was applied, in what amounts, and whether this was done using containers, hoses, piping or other equipment;
- l. describe the procedures for cleaning any equipment used and where this was done;
- m. describe how, where, when, and by whom the material containers were cleaned out, and removed from the facility or disposed of;
- n. if any of the practices described in response to the above questions changed during that time period, describe the change and when it occurred.

no
enclosure
required
None

None

17. Describe in detail and provide all documentation regarding drum (or other containers or straight dumping of waste) disposal/burial on Respondent's facility or the CTS Site or the Mills Gap Site.

None

18. Describe in detail and provide all documentation regarding the removal of any and all waste that was disposed/buried/dumped at Respondent's facility or the CTS Site or the Mills Gap Site. Please be specific as to, but do not limit your responses to, when, where, how much, and what confirmation samples were taken of soil/groundwater – including depth and constituents included in the analyses.

None

19. Provide a list of all contents of any and all drums, containers, and/or waste products that were buried or disposed of on Respondent's facility.

None

20. Provide all information on drums, containers, and/or waste products that were buried

None

or disposed of on the CTS Site or the Mills Gap Site.

21. Provide all documentation of previous air, soil, sediment, or groundwater samples taken on Respondent's or any studies done with or without State direction. For groundwater samples, include the depth of all samples collected.
None
22. Provide all documentation of any Phase I or Phase II assessments performed on Respondent's facility – specify if conducted for land transaction purposes.
None
23. Describe all occurrences associated with violations, citations, deficiencies, and/or accidents concerning Respondent's facility during your ownership or operation. Provide copies of all documents associated with such an occurrence.
None
24. Describe all occurrences associated with violations, citations, deficiencies, and/or accidents concerning the CTS Site or the Mills Gap Site.
None
25. Provide a list of all local, state, and federal environmental permits granted for your facility or any part thereof (e.g., RCRA Permits, NPDES Permits, etc.)
None
26. Provide all documentation of hazardous waste generator, treatment, or storage activity, regardless of whether you notified anyone under RCRA of such activities.
None
27. Provide all documentation of any RCRA notifications of RCRA waste generator activity, application for permits, and/or manifests of shipments of hazardous waste.
None
28. Describe the acts or omissions of any persons, other than your employees, agents or those persons with whom you had a contractual relationship that may have caused a release or threat of release of hazardous materials at Respondent's Arden, North Carolina facility or at the CTS Site or at the Mills Gap Site. In addition:
None
- a. Describe all precautions that you took against foreseeable acts or omissions of any such third parties, including but not limited to, Pechiney Plastic Packaging, Incorporated and the consequences that could foreseeably result from such acts or omissions.
 - b. Describe the care you exercised with respect to the hazardous materials at Respondent's facility. In other words, describe any affirmative acts you have taken to address the hazardous materials on your property, including any actions to mitigate continuing releases into the environment and to limit the threat posed to human health and the environment.
-
29. To the extent you have knowledge, for each and every past or current owner, operator, lessor, or lessee of any portion of Respondent's facility or the CTS Site or the Mills Gap Site, other than you:
None

- a. Identify such person and the nature of their operation at Respondent's facility or the CTS Site or the Mills Gap Site or other facility;
 - b. Describe the portion of Respondent's facility or the CTS Site or the Mills Gap Site owned, operated, or leased by each such person and state the dates during which each portion was owned, operated or leased;
 - c. Provide copies of all documents evidencing or relating to such ownership, operation or lease, including but not limited to, purchase and sale agreements, deeds, leases, etc;
 - d. Provide all evidence that hazardous materials were released or were threatened to be released at Respondent's facility or the CTS Site or the Mills Gap Site during the period that they owned the facility.
30. Describe the nature/organizational structure of your business, including State incorporations, subsidiaries, parent companies, and number of employees.
None
31. Identify all persons who may be responsible for the liabilities of Respondent or the CTS Site or the Mills Gap Site arising from or relating to the release or threatened release of hazardous substances at Respondent's facility, or the CTS Site or the Mills Gap Site including but not limited to successors, officers, and individuals.
None
32. If you have reason to believe that there may be persons able to provide a more detailed or complete response to any question contained herein or who may be able to provide additional responsive documents, identify such persons (including contact information) and the additional information or documents that they may have.
None
33. For each and every question contained herein, if information or documents responsive to this Information Request are not in your possession, custody or control, then identify the persons from whom such information or documents may be obtained.
None
-



2740 Hyde St.
San Francisco, CA 94109-1509

OFFICE OF ENVIRONMENTAL
ACCOUNTABILITY

11 JUN 20 PM 6:55

11/10

United States Environmental
Protection Agency
Region 4
Arthur F. Edwards Center
61 Forsyth Street
Atlanta, Georgia
30303-8960



SAN FRANCISCO CA 94111
Thursday June 16, 2011

OPENED BY EPA MAILR



2740 Hyde St.
San Francisco, CA 94109-1509

OFFICE OF ENVIRONMENTAL
ACCOUNTABILITY

11 JUN 20 PM 6:55

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*United States Environmental
Protection Agency
Region 4
Atlanta Federal Center
61 Forsyth Street
Atlanta, Georgia
30303-8960*

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SAN FRANCISCO CA 941
THURSDAY JUNE 16, 2011



PRE-CERCLIS SCREENING ASSESSMENT CHECKLIST/DECISION FORM

This checklist can assist the site investigator during the Pre-CERCLIS screening. It will be used to determine whether further steps in the site investigation process are required under CERCLA. Use additional sheets, if necessary.

Checklist Preparer: Harry Zinn 10/07/2011
 (Name/Title) (Date)
401 Oberlin Road, Raleigh, North Carolina 919-508-8488
 (Address) (Phone)
Harry.zinn@ncdenr.gov
 (E-Mail Address)

Site Name: Sheet Metal Restoration

Previous Names (if any):

Site Location: 60 Pinners Cove Road
 (Street)
Asheville North Carolina 28803
 (City) (ST) (Zip)

Latitude: 35.4957° **Longitude:** 82.5017°

Complete the following checklist. If Ayes is marked, please explain below.

	YES	NO
1. Does the site already appear in CERCLIS?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is the release from products that are part of the structure of, and result in exposure within, residential buildings or businesses or community structures?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Does the site consist of a release of a naturally occurring substance in its unaltered form, or altered solely through naturally occurring processes or phenomena, from a location where it is naturally found?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Is the release into a public or private drinking water supply due to deterioration of the system through ordinary use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Is some other program actively involved with the site (i.e., another Federal, State, or Tribal program)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Are the hazardous substances potentially released at the site regulated under a statutory exclusion (i.e., petroleum, natural gas, natural gas liquids, synthetic gas usable for fuel, normal application of fertilizer, release located in a workplace, naturally occurring, or regulated by the NRC, UMTRCA, or OSHA)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Are the hazardous substances potentially released at the site excluded by policy considerations (e.g., deferral to RCRA Corrective Action)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is there sufficient documentation that clearly demonstrates that there is no potential for a release that could cause adverse environmental or human health impacts (e.g., comprehensive remedial investigation equivalent data showing no release above ARARs, completed removal action, documentation showing that no hazardous substance releases have occurred, EPA approved risk assessment completed)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Please explain all Ayes answer(s), attach additional sheets if necessary:

Site Determination:

Enter the site into CERCLIS. Further assessment is recommended (explain below).

The site is not recommended for placement into CERCLIS (explain below).

DECISION/DISCUSSION/RATIONALE:

Sheet Metal Restoration (SMR) was identified by CTS Corporation as a potential alternative TCE source for groundwater contamination in the vicinity of the CTS site. During the week of November 8, 2010, Harry Zinn and Kay Dechant of NC DENR collected soil vapor readings from 32 locations around the SMR property. Two areas were identified that required further investigation. The surface drainage pathway from the southeast corner of the main building on the SMR property was one. Both SMR 09 inside the fence and SMR 26 outside the fence had elevated readings at 10.4 ppm and 12.8ppm. Also, SMR 03 with the highest reading at 53.9 ppm warranted further investigation. On May 10, 2011 Harry Zinn and Kay Dechant of NC DENR collected soils in close approximation to these locations plus a background location. The Sampling Plan called for the collection of soil samples from 0-2 feet, 2-4 feet and > 4 feet, based on PID readings. One contaminant was detected in one sample. Acetone (11 ug/kg) was detected in SMR-005-SB. This sample was collected from 3.5 to 4 foot depth in the drainage pathway coming from the main building on the SMR property at the SMR 26 location.

While acetone was detected in one soil boring sample, the concentration detected was well below any applicable benchmarks. TCE, the main contaminant of concern in the groundwater in the Mills Gap area, was not detected in the soil samples, indicating that Sheet Metal Restoration is not an additional or alternative source of TCE contamination in the private drinking water wells in the area. Because of these results, the North Carolina Superfund Section recommends that this property **NOT** be listed on CERCLIS for further study.

Regional EPA Reviewer: _____

Print Name/Signature

_____ Date

State Agency/Tribe: _____

Print Name/Signature

_____ Date



North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

October 11, 2011

Ms. Carolyn Callihan
Superfund Site Evaluation Section
US EPA Region IV Waste Division
61 Forsyth Street, 11th Floor
Atlanta, GA 30303-3104

Subject: Pre-CERCLIS Screening Assessment Score
Sheet Metal Restoration
NCN 000 410 573
Asheville, Buncombe County, NC

Dear Ms. Callihan:

Sheet Metal Restoration (SMR) was identified by CTS Corporation as a potential alternative TCE source for groundwater contamination in the vicinity of the CTS site in a letter sent to Senator Burr and Congressmen Schuler, Donnelly and Souder on September 28, 2009. During initial searches, the address for Sheet Metal Restoration was listed as 39 Pinnars Cove Road, however, it was determined that the addresses along Pinnars Cove Road were renumbered during an update of the local 911 system and the current address is 60 Pinnars Cove Road. Mr. Mark Hermann purchased the property in 2003 and operated a sandblasting facility onsite until 2009 when he discontinued operating on a commercial basis. Mr. Hermann now operates more on a hobby basis. Mr. Hermann used urea, aluminum oxide and/or walnut shells to sandblast fiberglass and sheet metal. The previous owner of the site, Mr. Charles F. Adams, is reported to have operated a spray paint booth in one of the buildings, but this has not been verified. Mr. Adams reported in his 104(e) response to EPA, dated June 15, 2011, that he rented the property during his ownership to his son, Mr. James Adams (Ref. 9). EPA is currently following up with Mr. James Adams to determine if and/or how he operated the paint spray booth. Currently, there is no information indicating that TCE was used and/or disposed of at this property.

During the property visit the housekeeping inside of the buildings was very good, however, outside the buildings small areas of stained soils were observed at several locations. The largest area was located behind the main building in the vicinity of the diesel fuel storage tank. Besides the diesel tank, two 55 gallon drums of gasoline and one drum of used motor oil were also located here. A partially dismantled vehicle was also located along the building.

Field screening of the soil vapor at the property identified two suspect areas of concern. One was in the vicinity of a suspected inactive septic field that may have been associated with a house located on the property in 1951. The second was in the surface water runoff pathway from the main building area onsite. Soil samples and soil boring samples were collected from both areas and a background location. Since chlorinated solvents were the main chemicals of concern at this site, only Volatile Organic Compound (VOC) analysis was performed. Acetone (11ug/l) was the only contaminant detected in one soil boring from the runoff area. Trichloroethylene (TCE), the main contaminant of concern detected at levels significantly above the Maximum Contaminant Limit (MCL) in nearby private drinking water wells, was not detected in the soil samples.

While suspected petroleum hydrocarbons were observed as de minimus losses onsite, they are not suspected of being significant. No volatile chlorinated hydrocarbon (BTEX) compounds were found in the soil samples collected in the surface runoff path from the main building area and no petroleum hydrocarbons have been detected in any groundwater samples.

Since the concentration of acetone found in the only impacted soil sample from the site is well below levels that would be considered a threat to groundwater, no release of contaminants from the site to the groundwater pathway is suspected. Based on no release to the groundwater and no risk of exposure by dermal contact, no threat to human health is considered from the site and no HRS score was generated.

If you have any questions please e-mail me at harry.zinn@ncdenr.gov or call (919) 707-8374.

Sincerely,


Harry Zinn, 10-11-11
Date
Environmental Engineer
NC Superfund Section

Cc: File
Jim Bateson